

Jagamine

$$A_1 \text{ ja } A_2 > 0; \quad A_1 < A_2 \Rightarrow \frac{A_1}{A_2} = 0, x_{-1} x_{-2} \dots x_{-k}$$

$$x_{-1} = 1 \Rightarrow \text{jagatis} \geq 0,5 \Rightarrow A_1 \geq 0,5 A_2 \Rightarrow$$

$$\Rightarrow 2A_1 \geq A_2 \Rightarrow 2A_1 - A_2 \geq 0$$

$$x_{-1} = 0 \Rightarrow 2A_1 - A_2 < 0$$

Rg1 : jagatav (A_1)

Rg2 : jagaja (A_2)

Rg3 : jagatis (A_1/A_2)

L : järkude arv

Rg1 := 0,01110 jagatav
Rg2 := 0,10110 jagaja
Rg3 := 0,00000 jagatis
L := 5

Rg1 := 0,11100 (2*A)
Rg2+1 := 1,01010 (-A₂)
Rg1 := 0,00110 (Rg1 > 0)
Rg3 := 0,00001
L := 4

Rg1 := 0,01100
Rg2+1 := 1,01010
Rg1 := 1,10110 (Rg1 < 0)
Rg3 := 0,00010
Rg1 := 0,01100 (jäägi taastamine)
L := 3

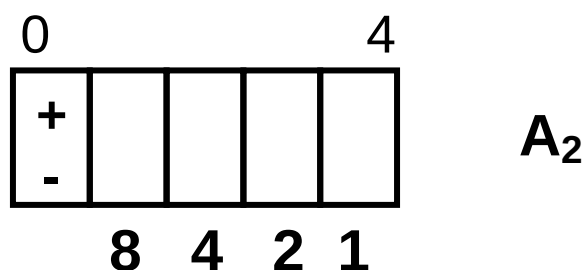
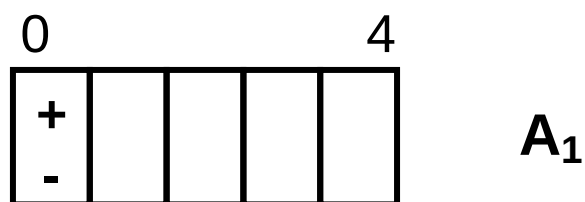
Rg1 := 0,11000
Rg2+1 := 1,01010
Rg1 := 0,00010 (Rg1 > 0)
Rg3 := 0,00101
L := 2

Rg1 := 0,00100
Rg2+1 := 1,01010
Rg1 := 1,01110 (Rg1 < 0)
Rg3 := 0,01010
Rg1 := 0,00100 (jäägi taastamine)
L := 1

Rg1 := 0,01000
Rg2+1 := 1,01010
Rg1 := 1,10010 (Rg1 < 0)
Rg3 := 0,10100
Rg1 := 0,01000 (jäägi taastamine)
L := 0

Rg1 := 0,4375
Rg2 := 0,6875
Rg3 := 0,6363 (0,625)

Täisarvude jagamine



$$\frac{A_1}{A_2} \geq 8 \Rightarrow A_1 \geq 8 \cdot A_2 \Rightarrow A_1 - 8A_2 \geq 0$$

N: 0 1110 A_1 (+14)

0 0011 A_2 (+3)

0 0100 $\frac{A_1}{A_2}$ (+4)

0 0010 jääk (+2)

Jagamine jäägi taastamiseta

1. $2A_1 - A_2 < 0 \Rightarrow 2A_1 - A_2 + A_2$

2. $2A_1 - A_2 < 0 \Rightarrow L1 \Rightarrow 4A_1 - 2A_2$

Vaja on $4A_1 - A_2$

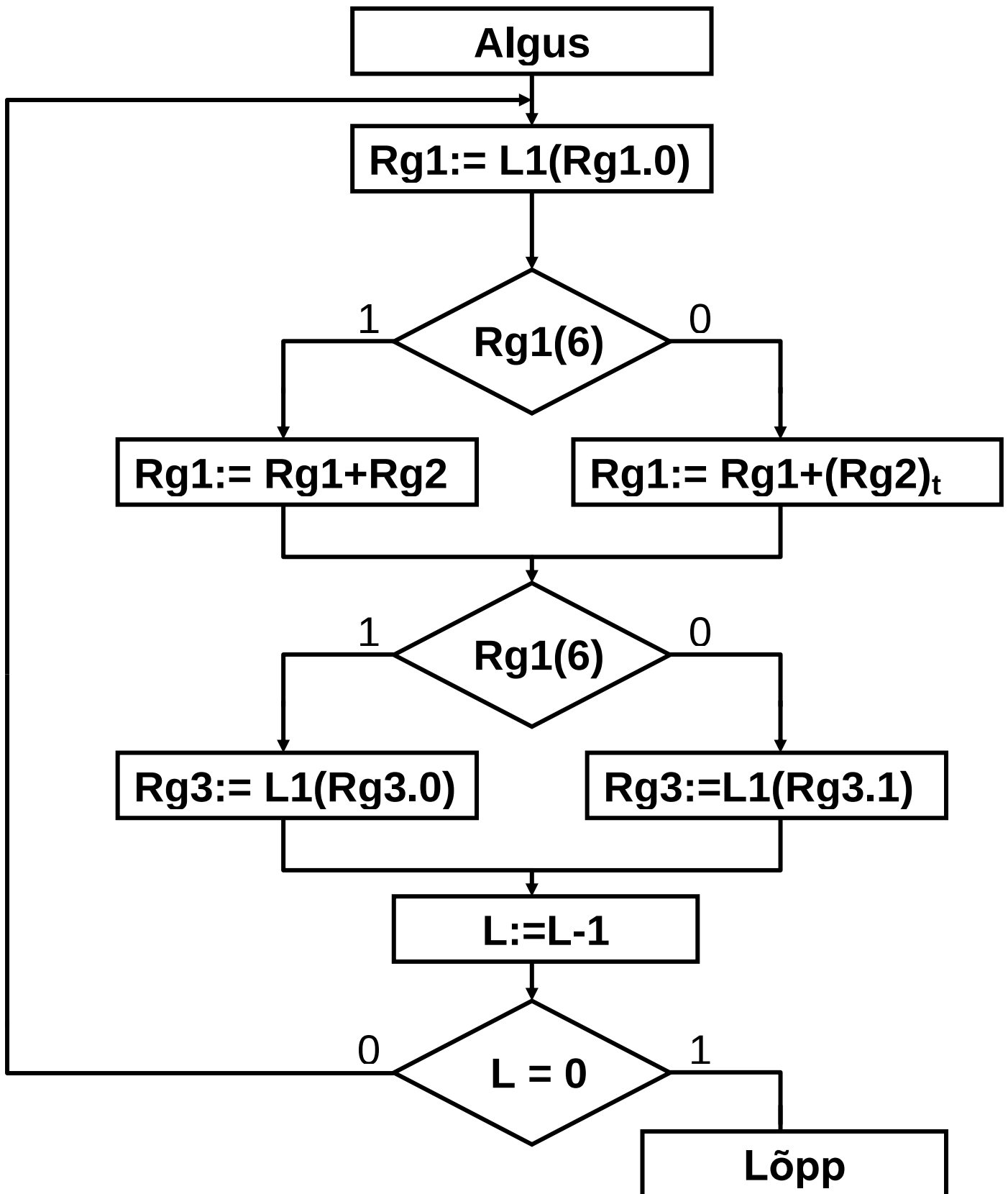
Seega $4A_1 - 2A_2 + A_2$

Rg1 - jagatav

Rg2 - jagaja

Rg3 - 0 (jagatis)

L - järkude arv



Rg1 := 00,01110

Rg2 := 00,10110

Rg3 := 00,00000

L := 5

(Rg2)_t = 11,01010

Rg1 := 00,11100

(Rg1>0)

(Rg2)_t := 11,01010

Rg1 := 00,00110

(Rg1>0)

Rg3 := 00,00001

L := 4

Rg1 := 00,01100

(Rg1>0)

(Rg2)_t := 11,01010

Rg1 := 11,10110

(Rg1<0)

Rg3 := 00,00010

L := 4

Rg1 := 11,01100

(Rg1<0)

Rg2 := 00,10110

Rg1 := 00,00010

(Rg1<0)

Rg3 := 00,00101

L := 2

Rg1 := 00,00100

(Rg1<0)

(Rg2)_t := 11,01010

Rg1 := 11,01110

(Rg1<0)

Rg3 := 00,01010

L := 1

Rg1 := 10,11100

(Rg1<0)

Rg2 := 00,10110

Rg1 := 11,10010

(Rg1>0)

Rg3 := 00,10100

L := 0