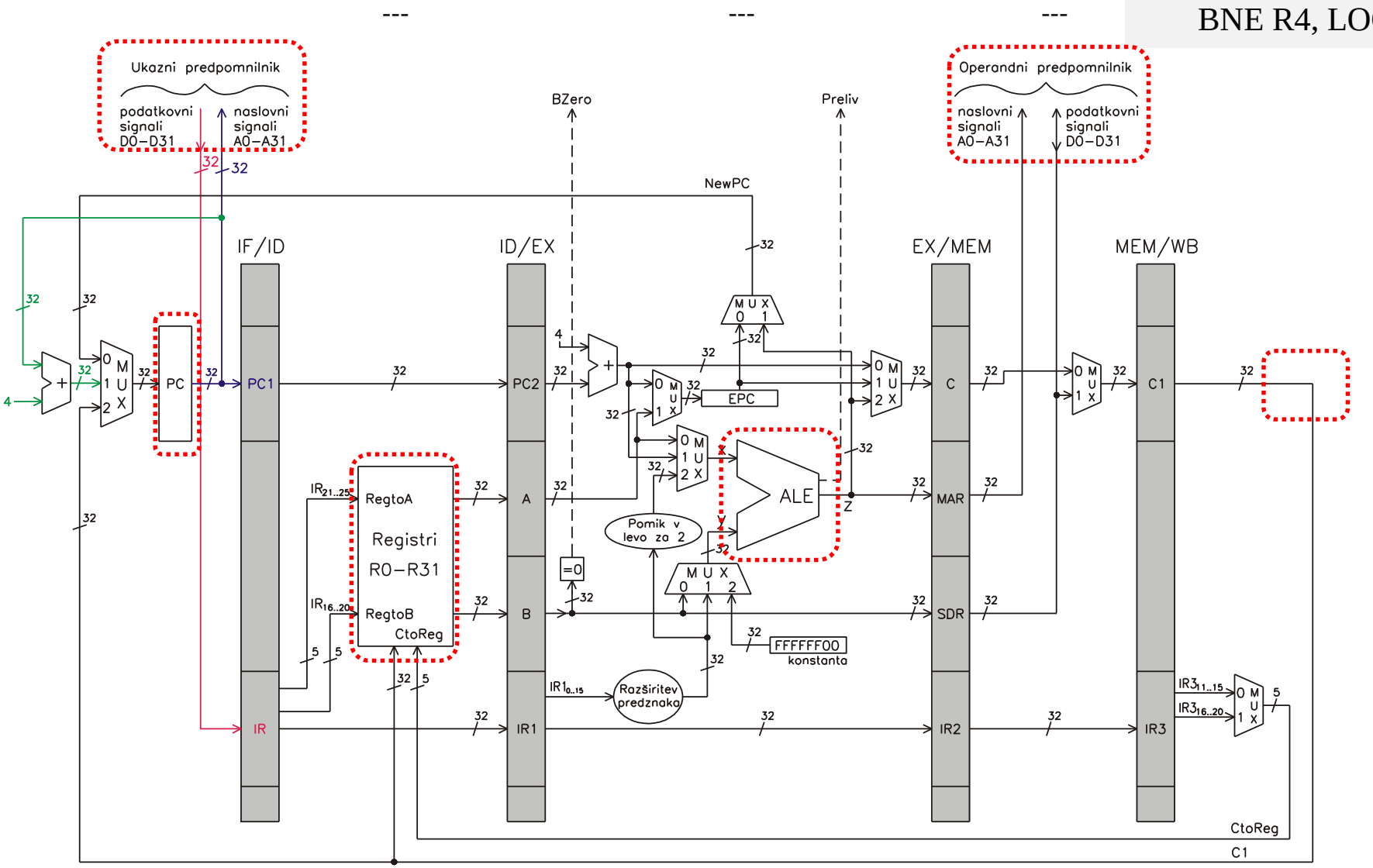
HIP – shema cevovoda brez premostitev

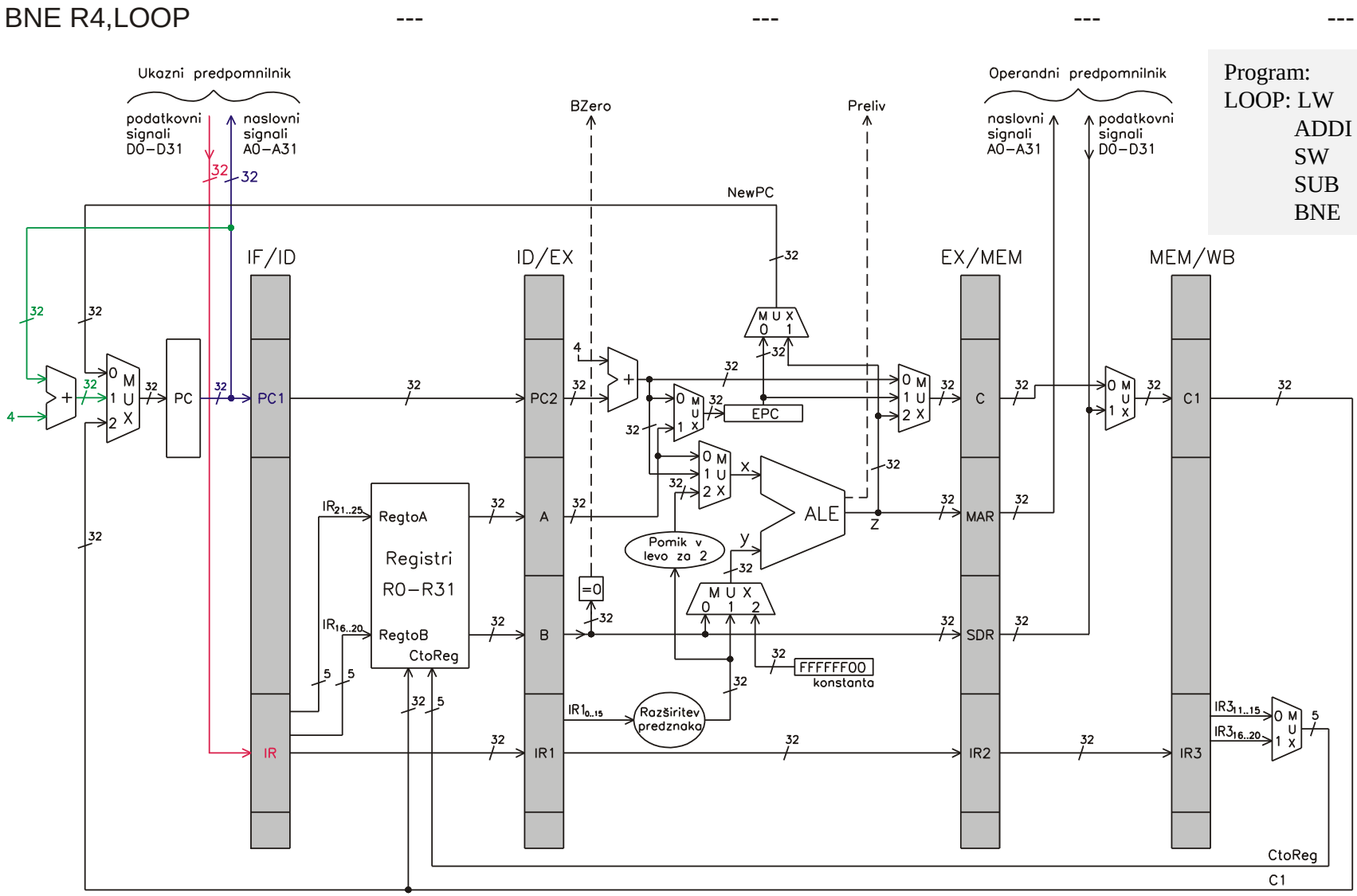
Program:
LOOP: LW R1,0(R2)
ADDI R1,R1,#1
SW 0(R2),R1
SUB R4,R3,R2
BNE R4, LOOP



Perioda 1

HIP - brez premostitev

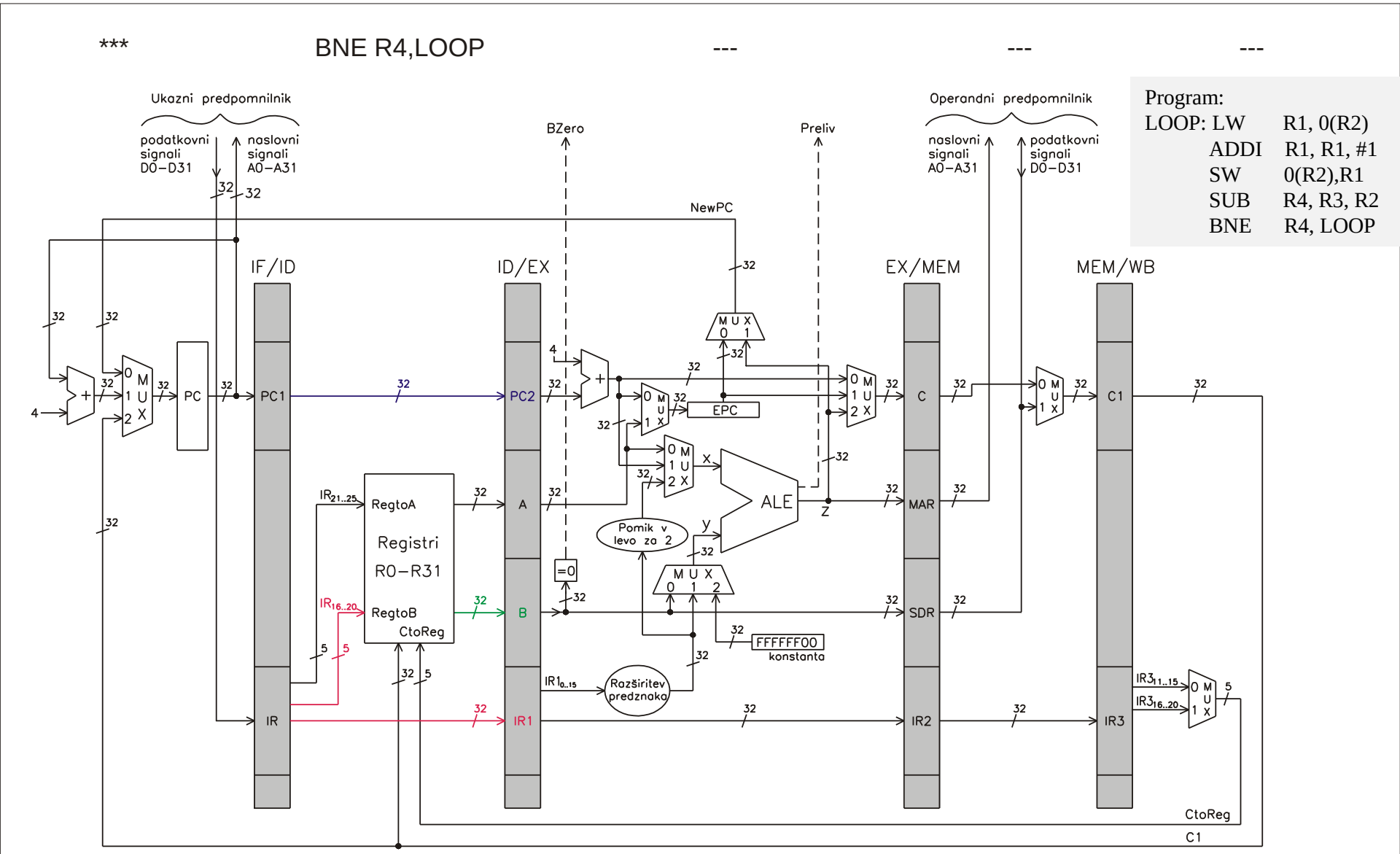
LW R1,0(R2)



Perioda 2

HIP - brez premostitev

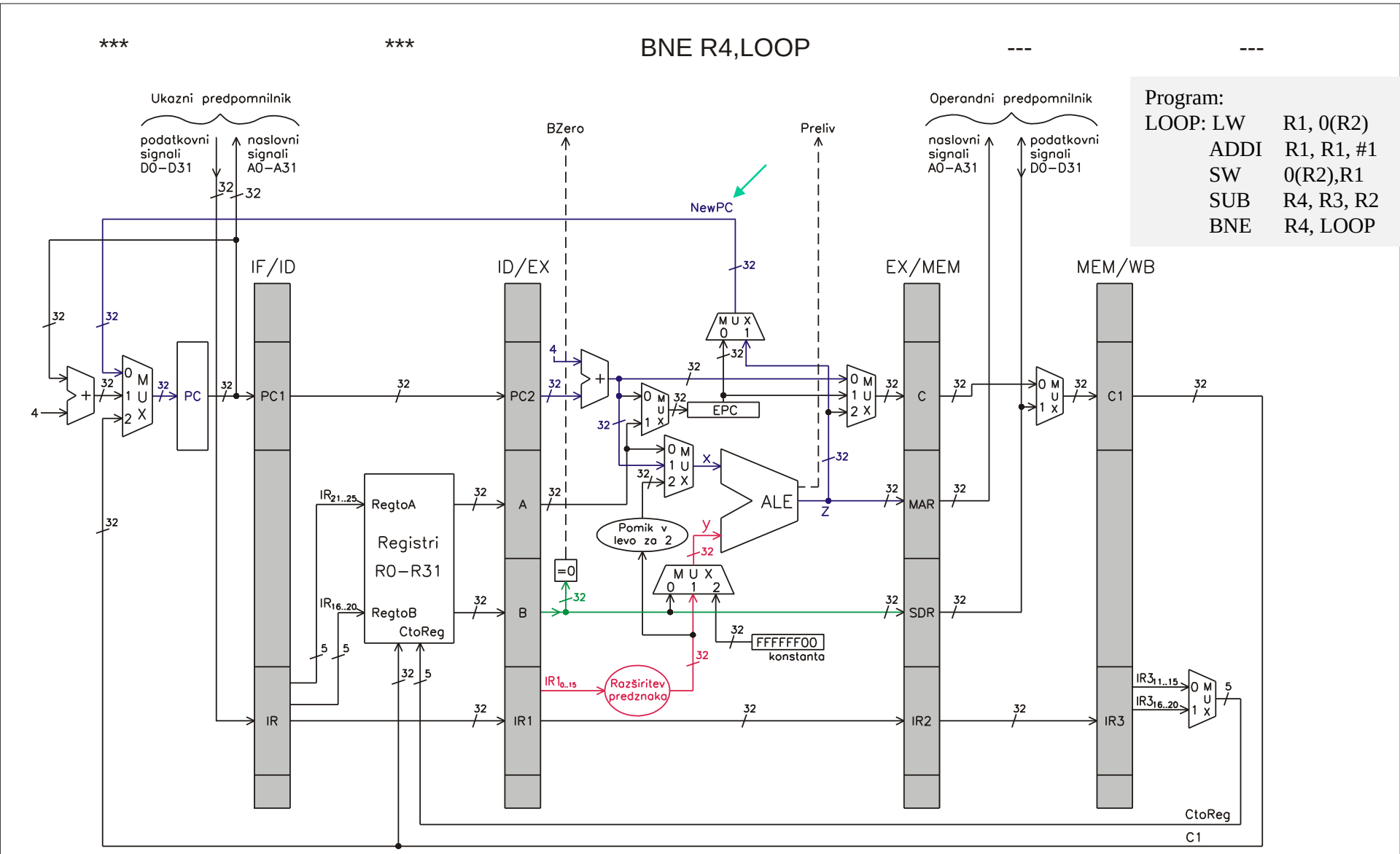
LW R1,0(R2)



Perioda 3

HIP - brez premostitev

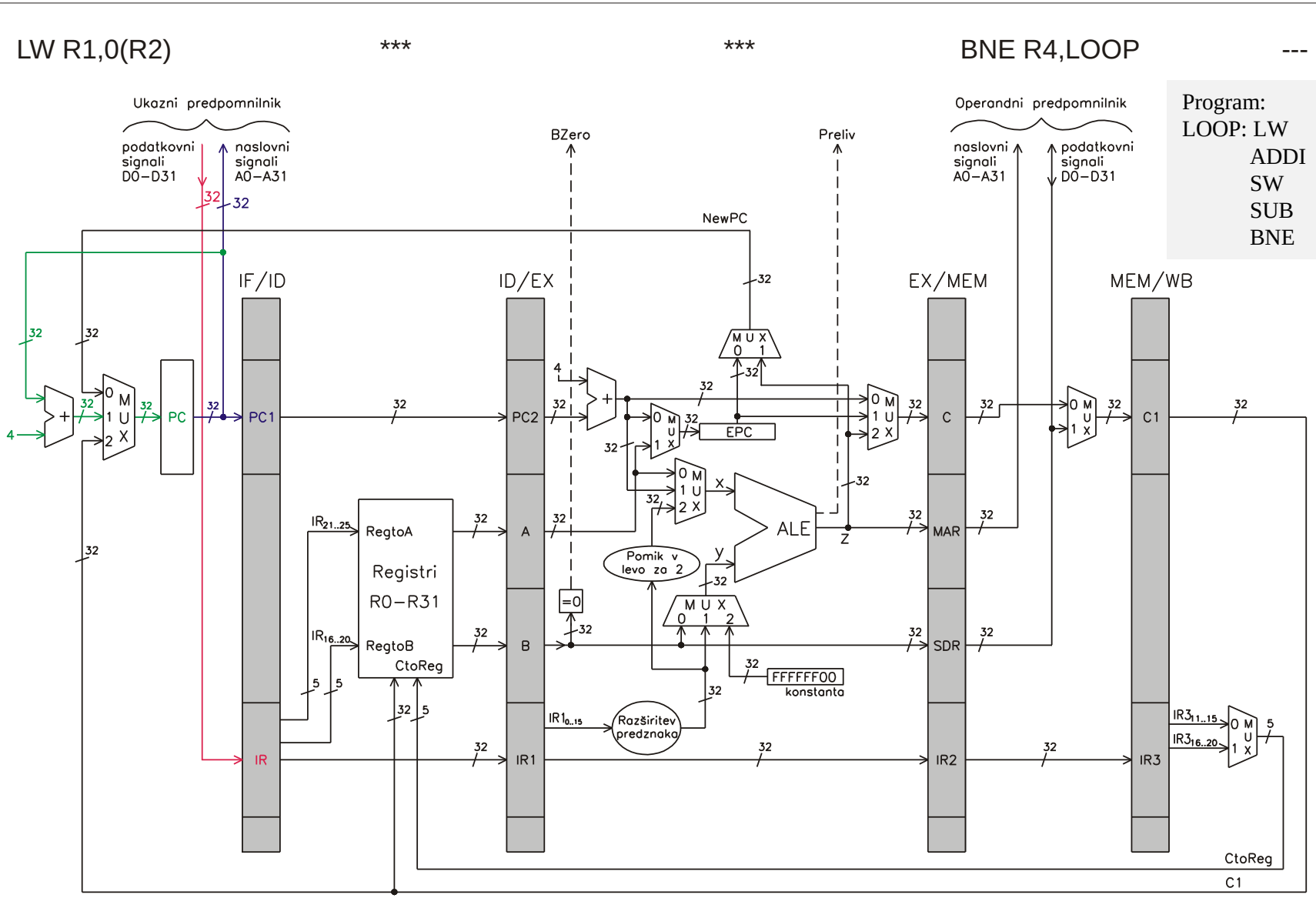
LW R1,0(R2)



Perioda 4

HIP - brez premostitev

ADDI R1,R1,#1



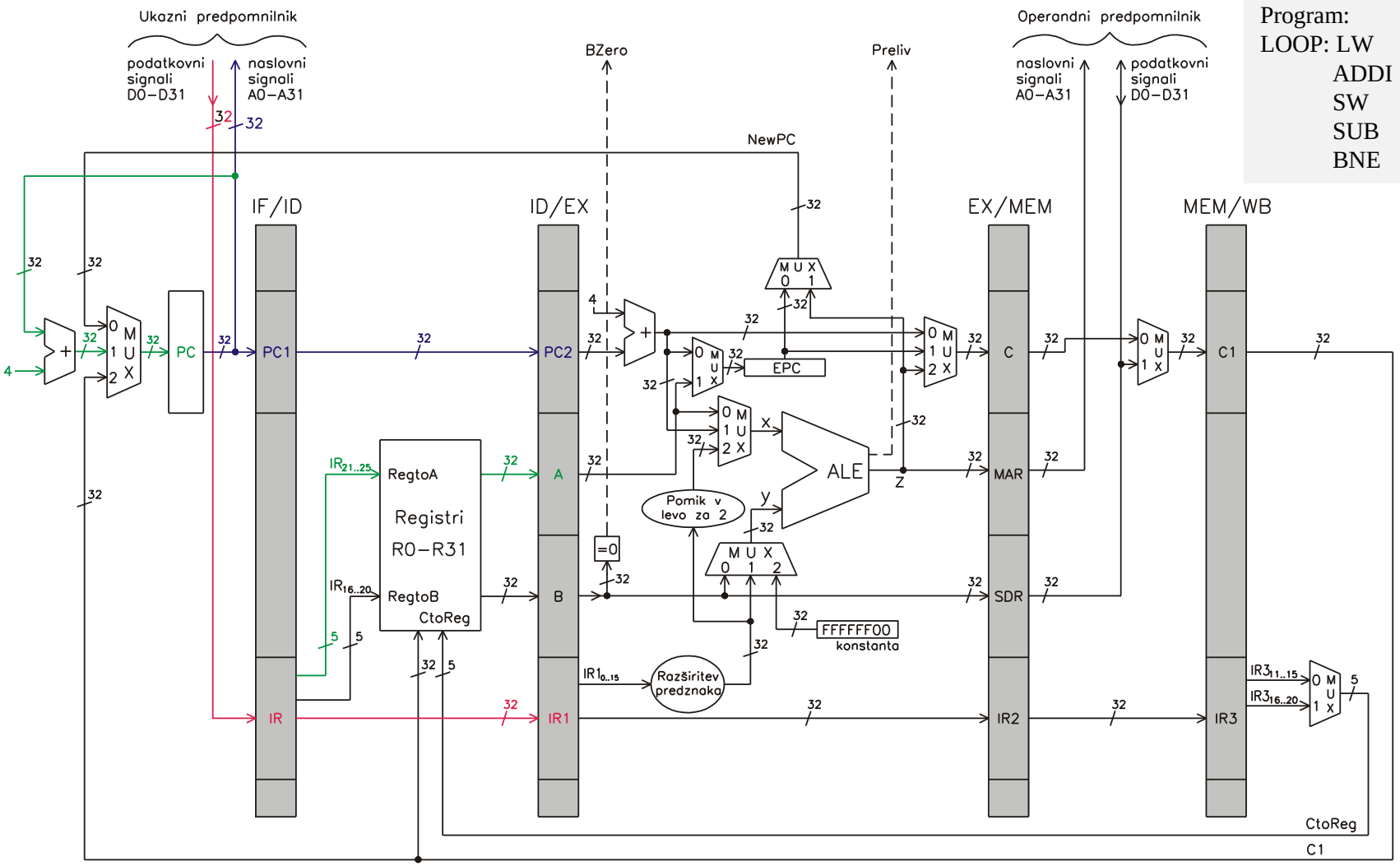
Perioda 5

HIP - brez premostitev

ADDI R1,R1,#1 LW R1,0(R2) *** *** BNE R4,LOOP

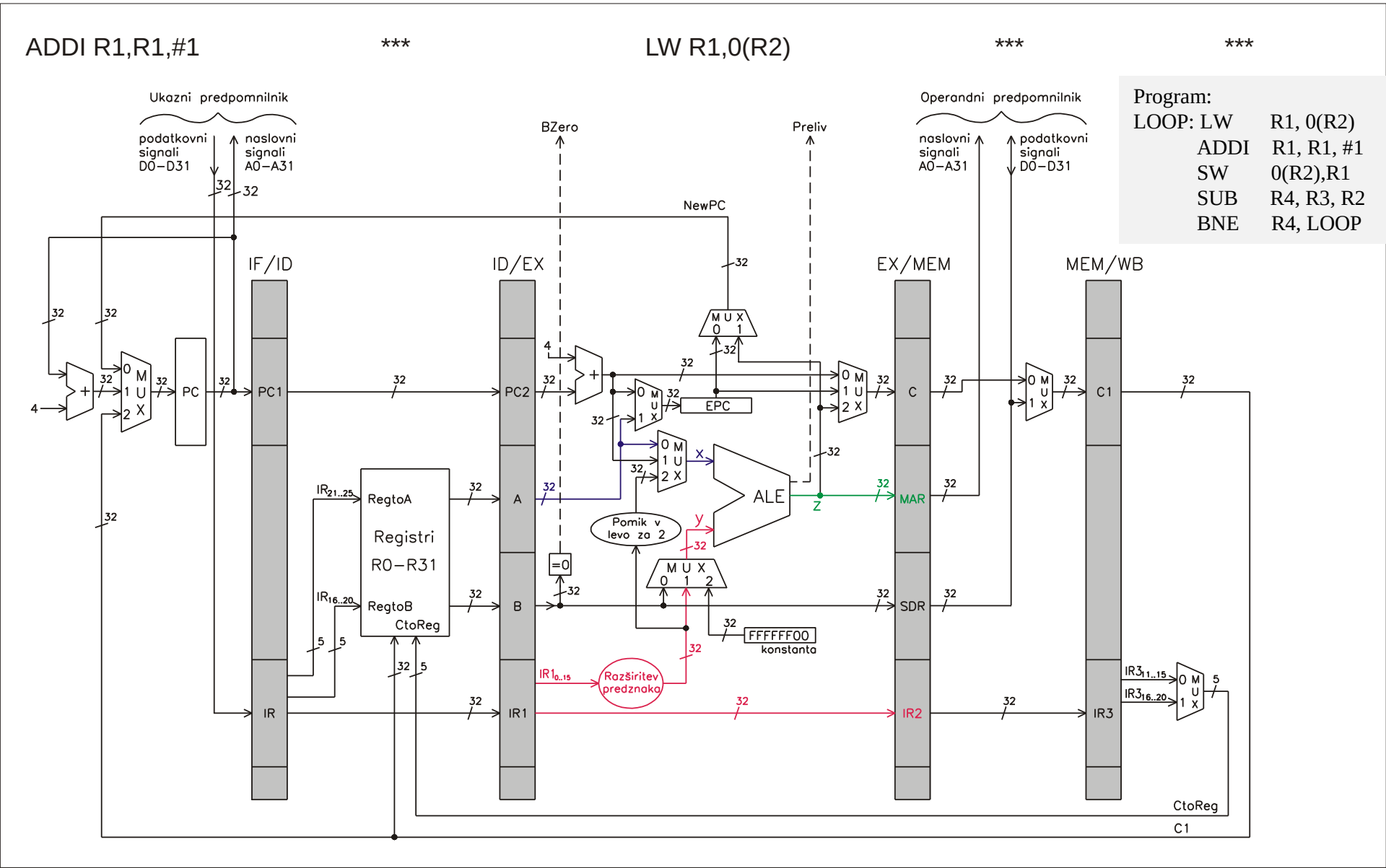
Program:

```
LOOP: LW    R1, 0(R2)
      ADDI  R1, R1, #1
      SW    0(R2),R1
      SUB   R4, R3, R2
      BNE   R4, LOOP
```



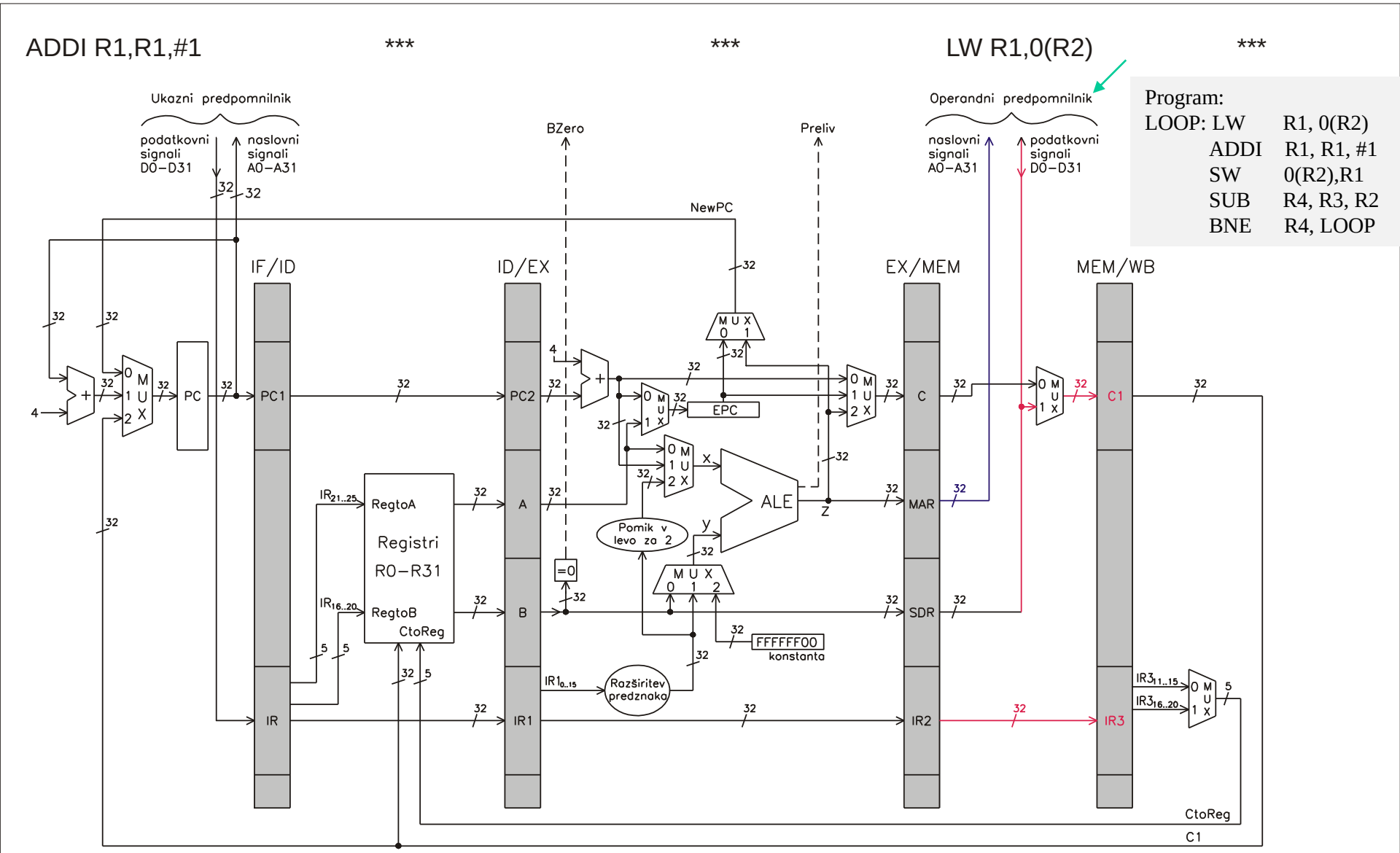
Perioda 6

HIP - brez premostitev



Perioda 7

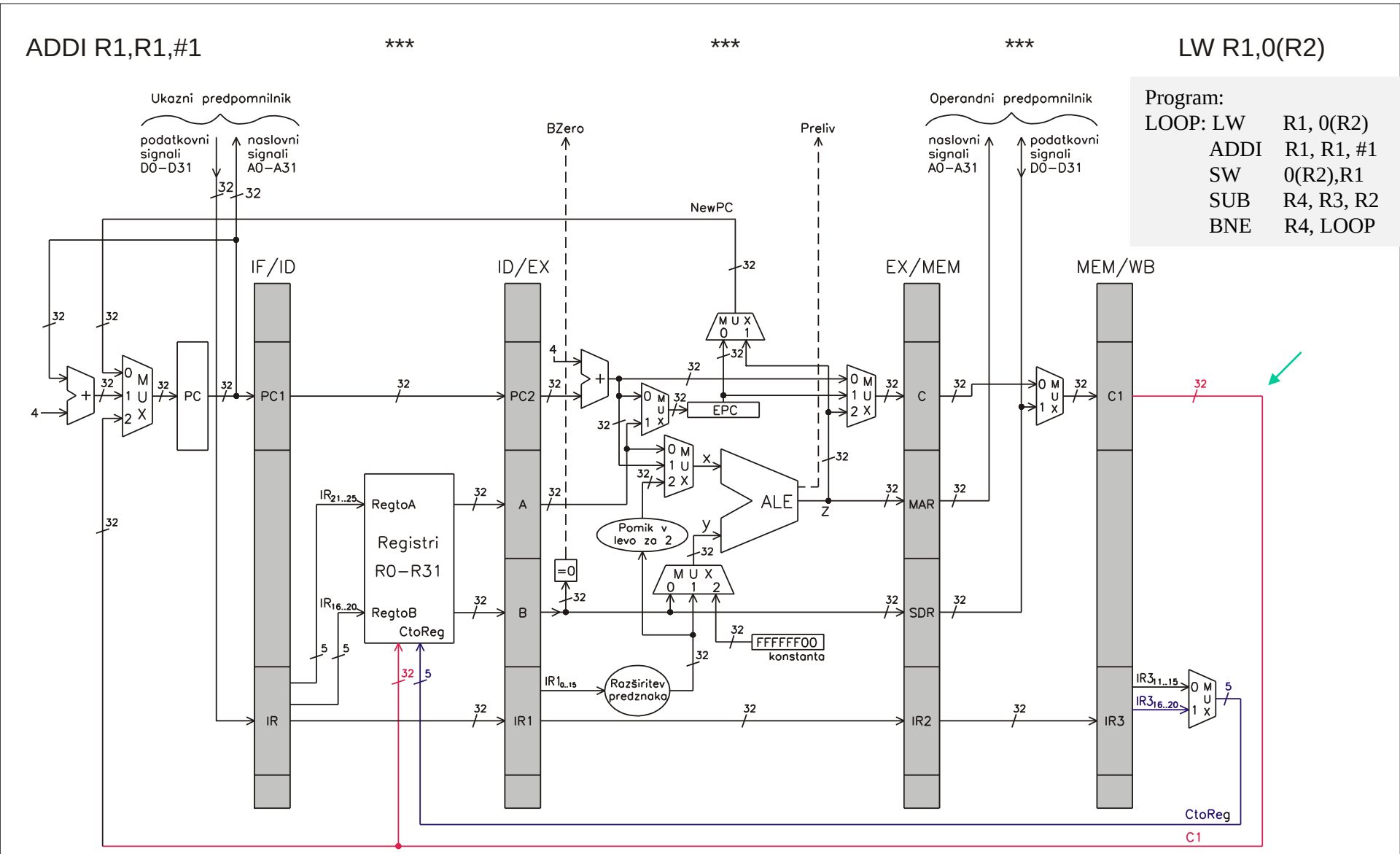
HIP - brez premostitev



Perioda 8

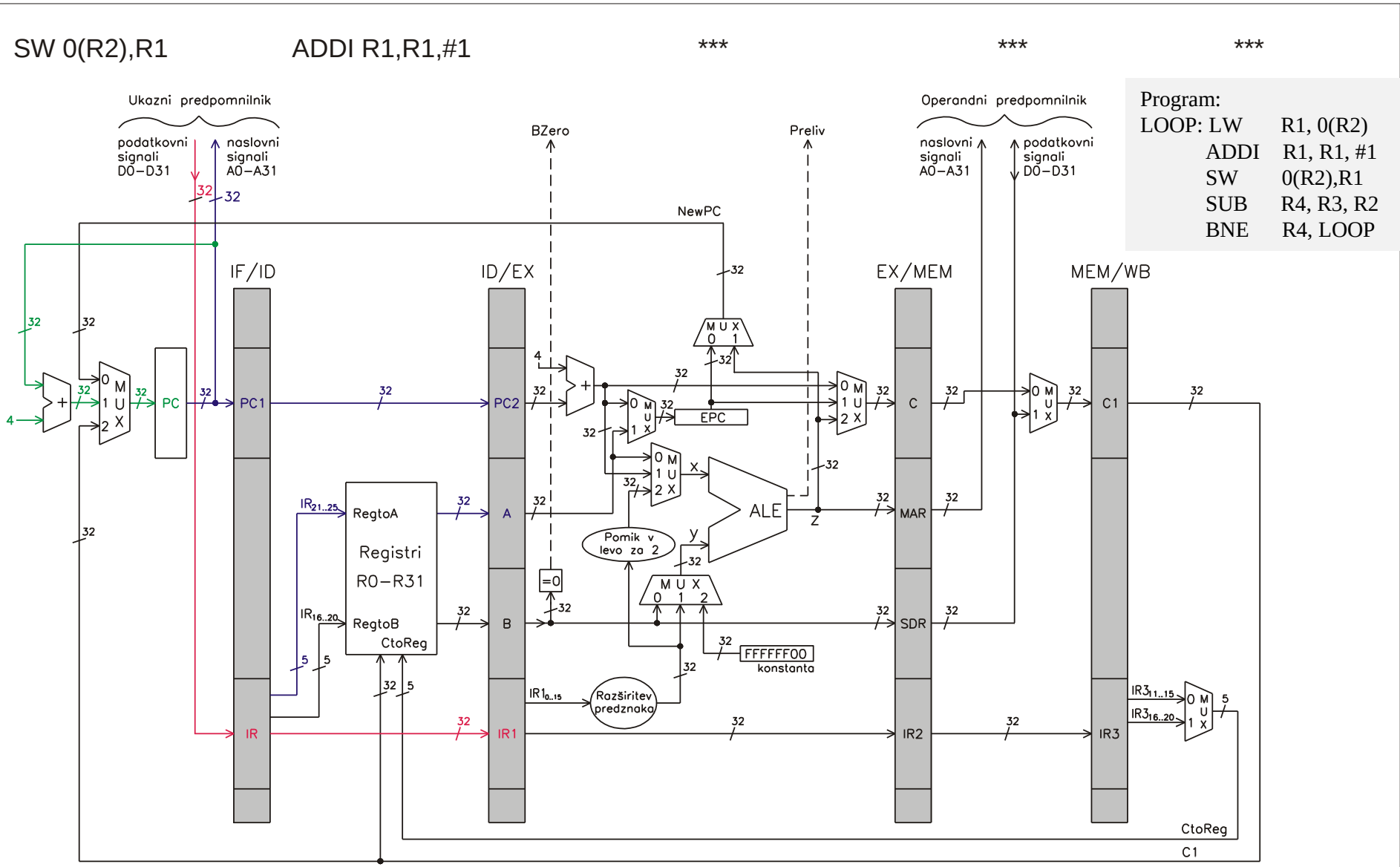
HIP - brez premostitev

SW 0(R2),R1



Perioda 9

HIP - brez premostitev



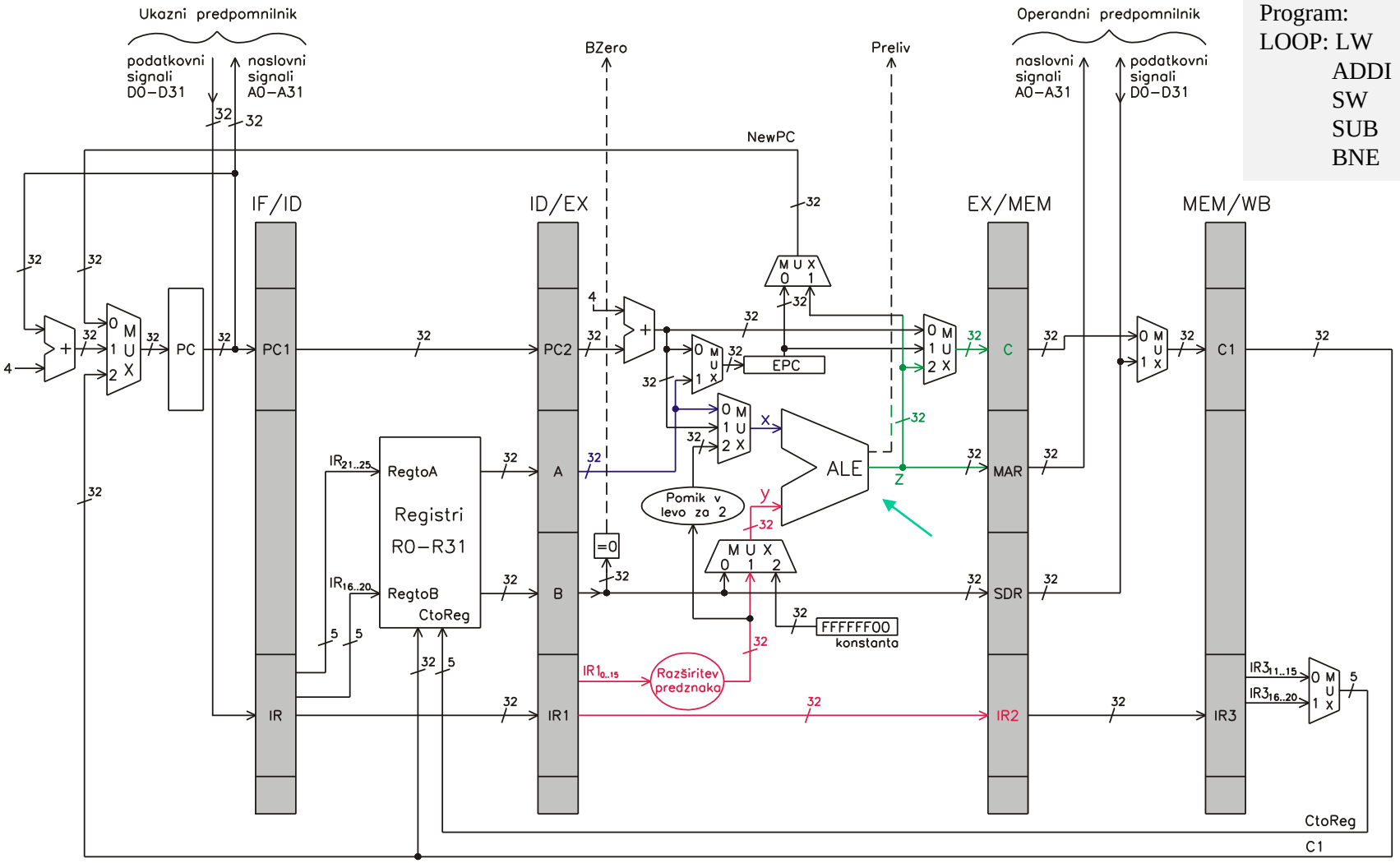
Perioda 10

HIP - brez premostitev

SW 0(R2),R1 *** ADDI R1,R1,#1 *** ***

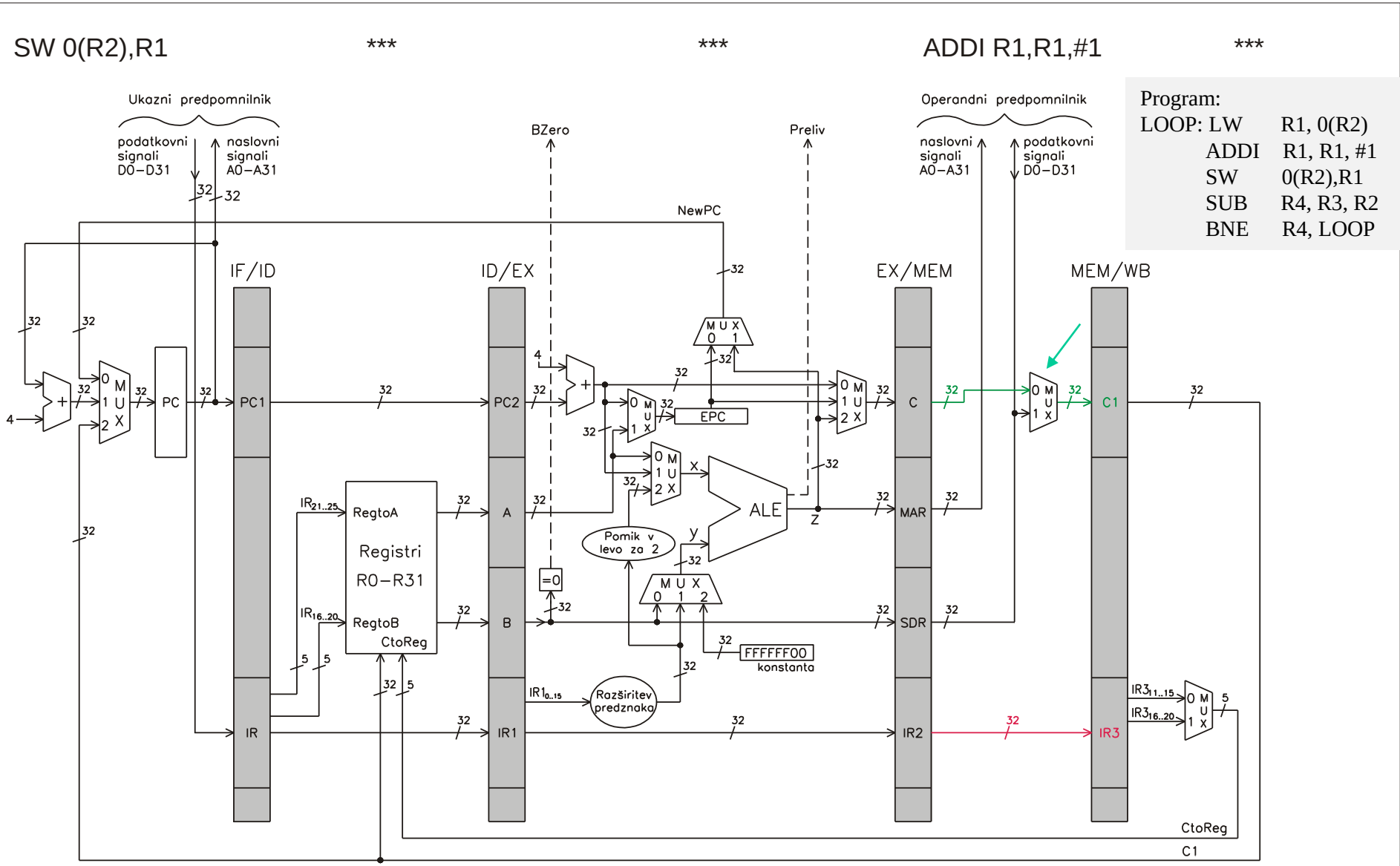
Program:

```
LOOP: LW    R1, 0(R2)
      ADDI  R1, R1, #1
      SW    0(R2),R1
      SUB   R4, R3, R2
      BNE   R4, LOOP
```



Perioda 11

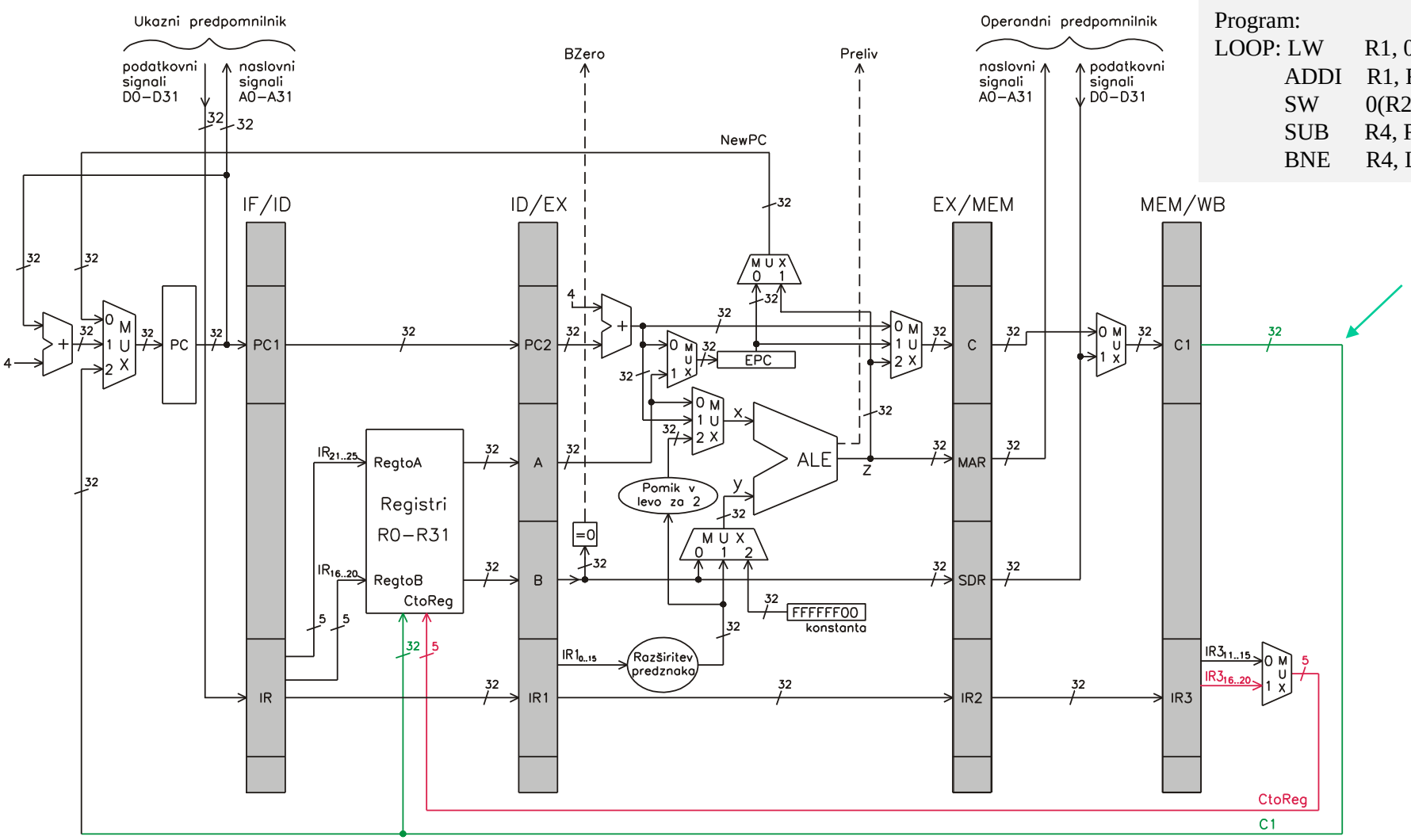
HIP - brez premostitev



Perioda 12

HIP - brez premostitev

SUB R4,R3,R2



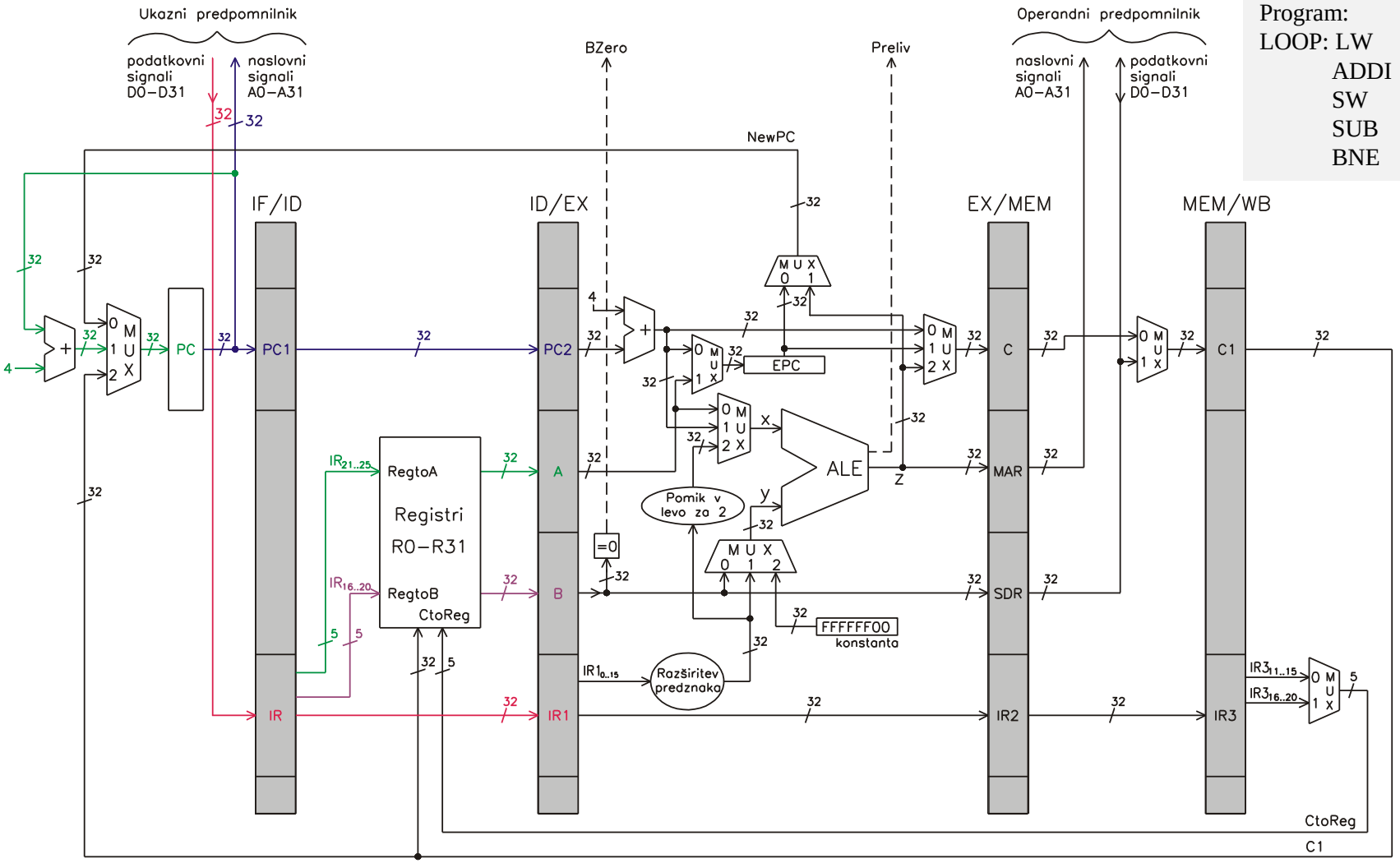
Perioda 13

HIP - brez premostitev

SUB R4,R3,R2 SW 0(R2),R1 *** *** ***

Program:

```
LOOP: LW    R1, 0(R2)
      ADDI  R1, R1, #1
      SW    0(R2),R1
      SUB   R4, R3, R2
      BNE   R4, LOOP
```



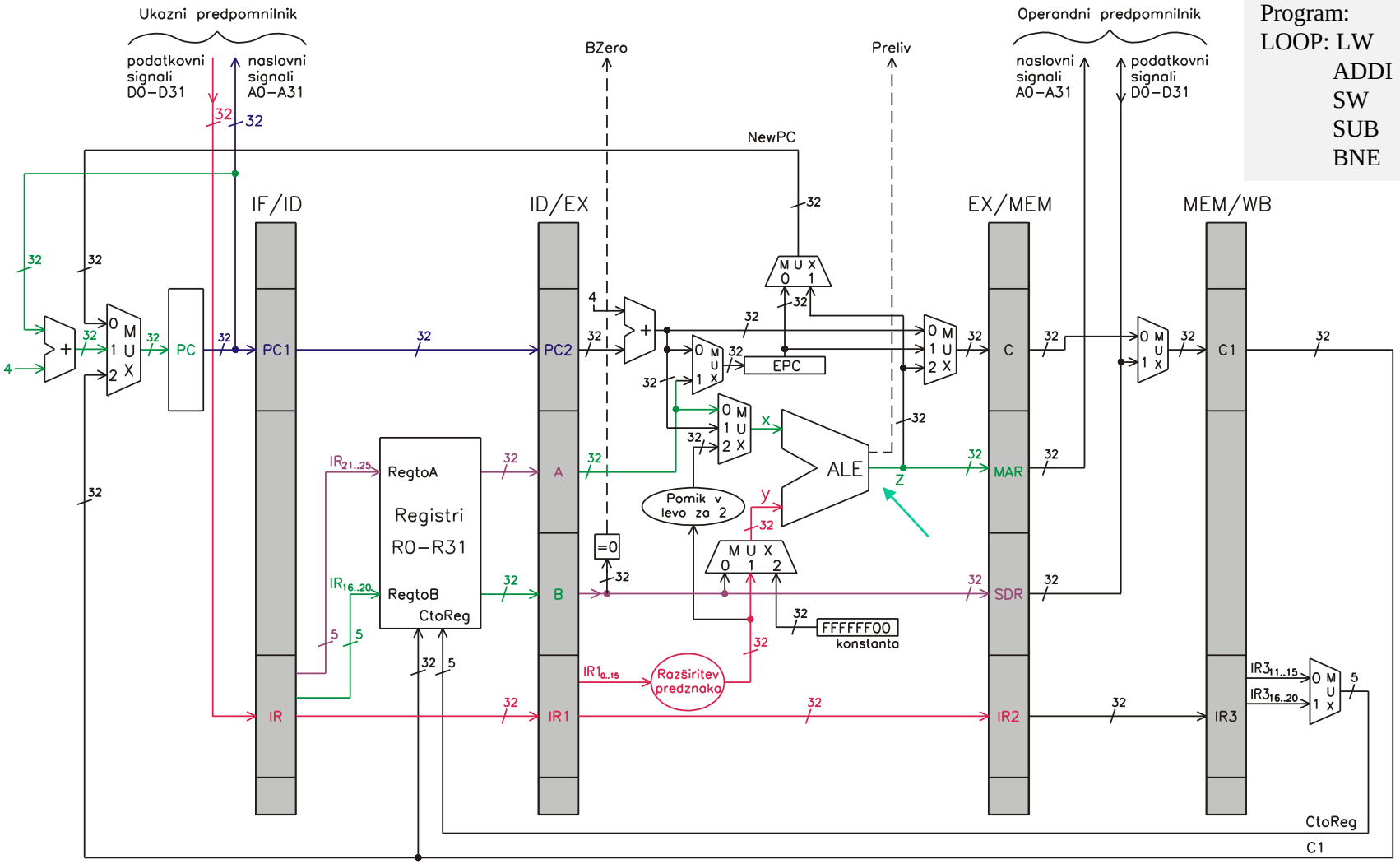
Perioda 14

HIP - brez premostitev

BNE R4,LOOP SUB R4,R3,R2 SW 0(R2),R1 *** ***

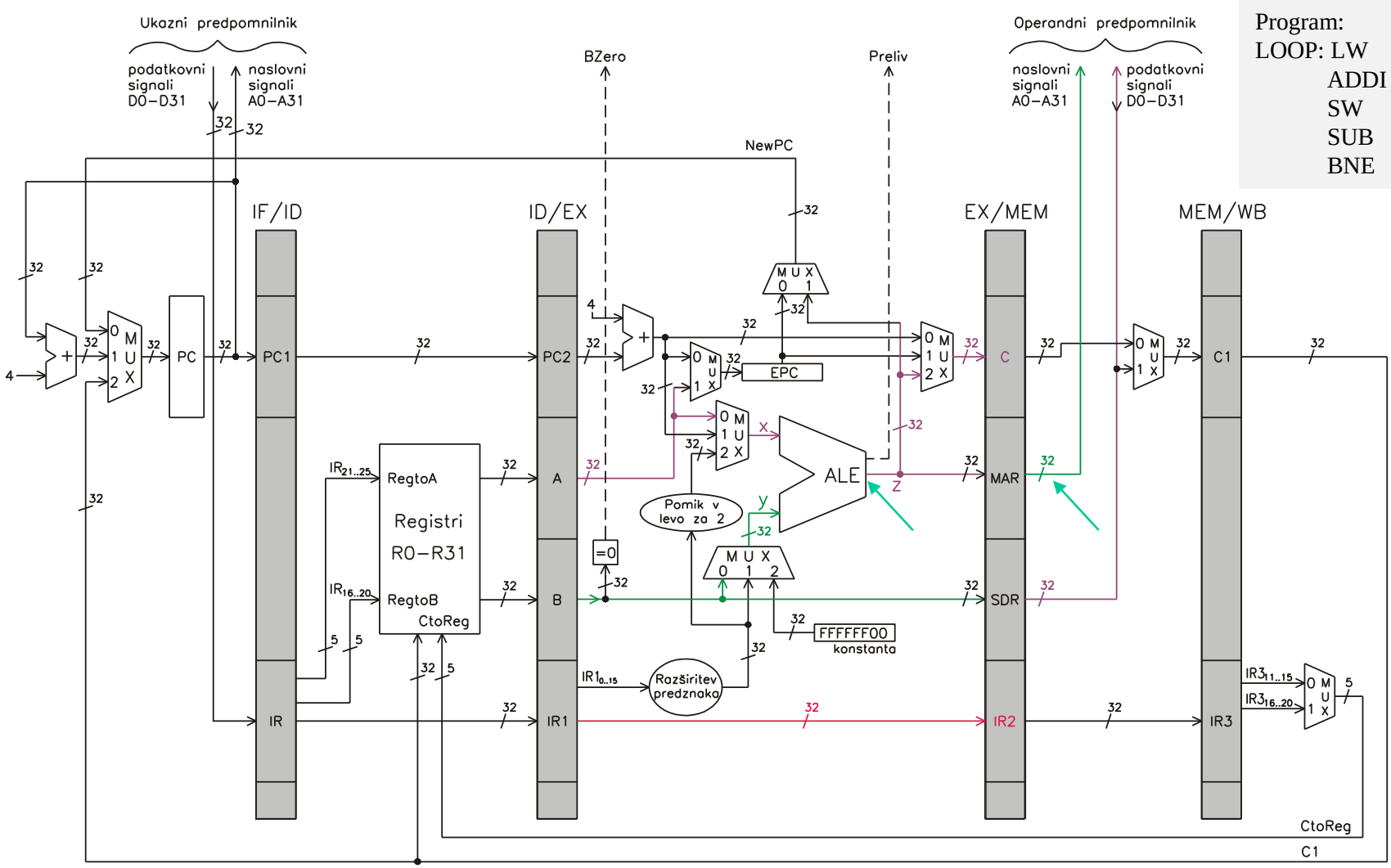
Program:

```
LOOP: LW    R1, 0(R2)
      ADDI  R1, R1, #1
      SW    0(R2),R1
      SUB   R4, R3, R2
      BNE   R4, LOOP
```



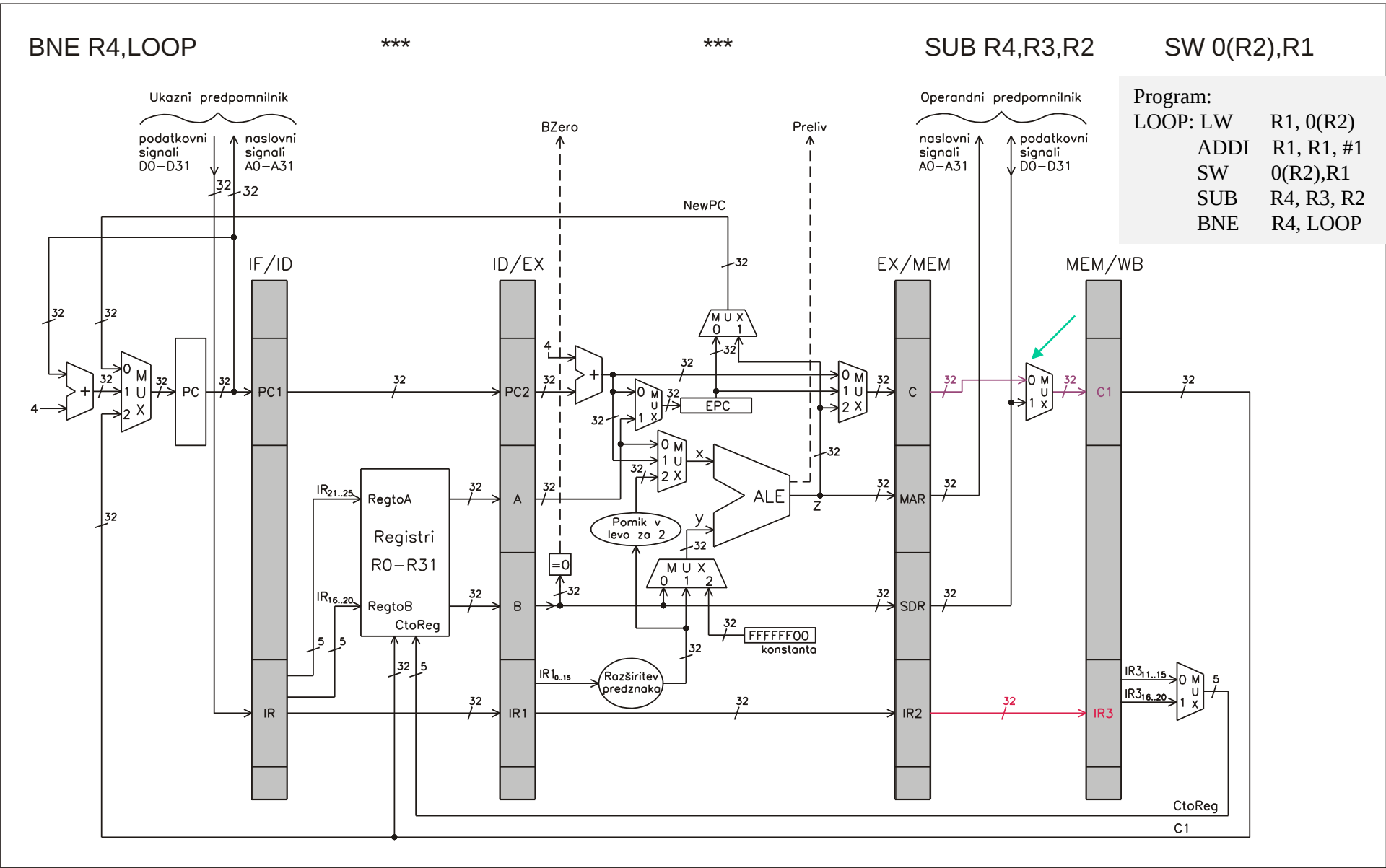
Perioda 15

HIP - brez premostitev



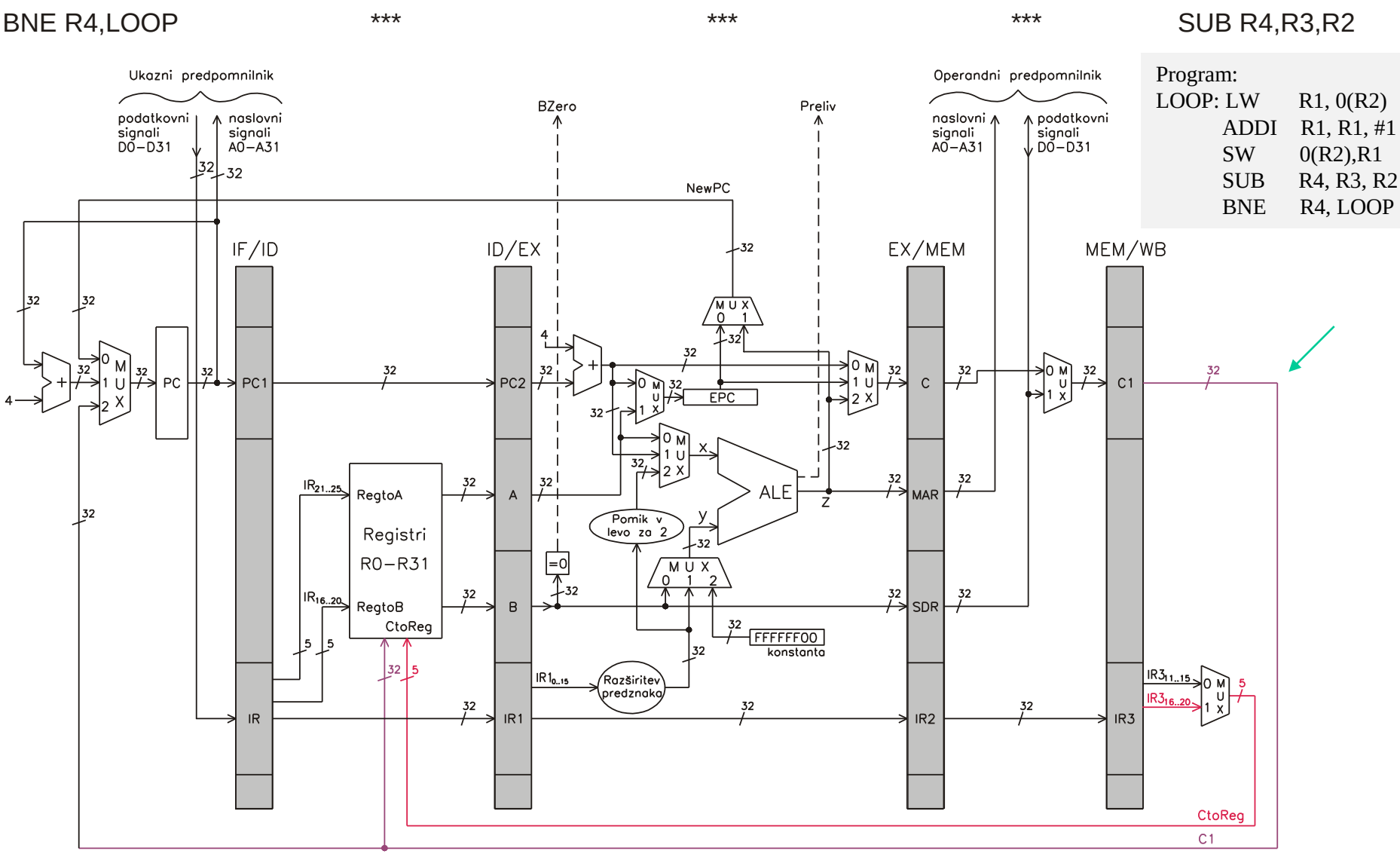
Perioda 16

HIP - brez premostitev



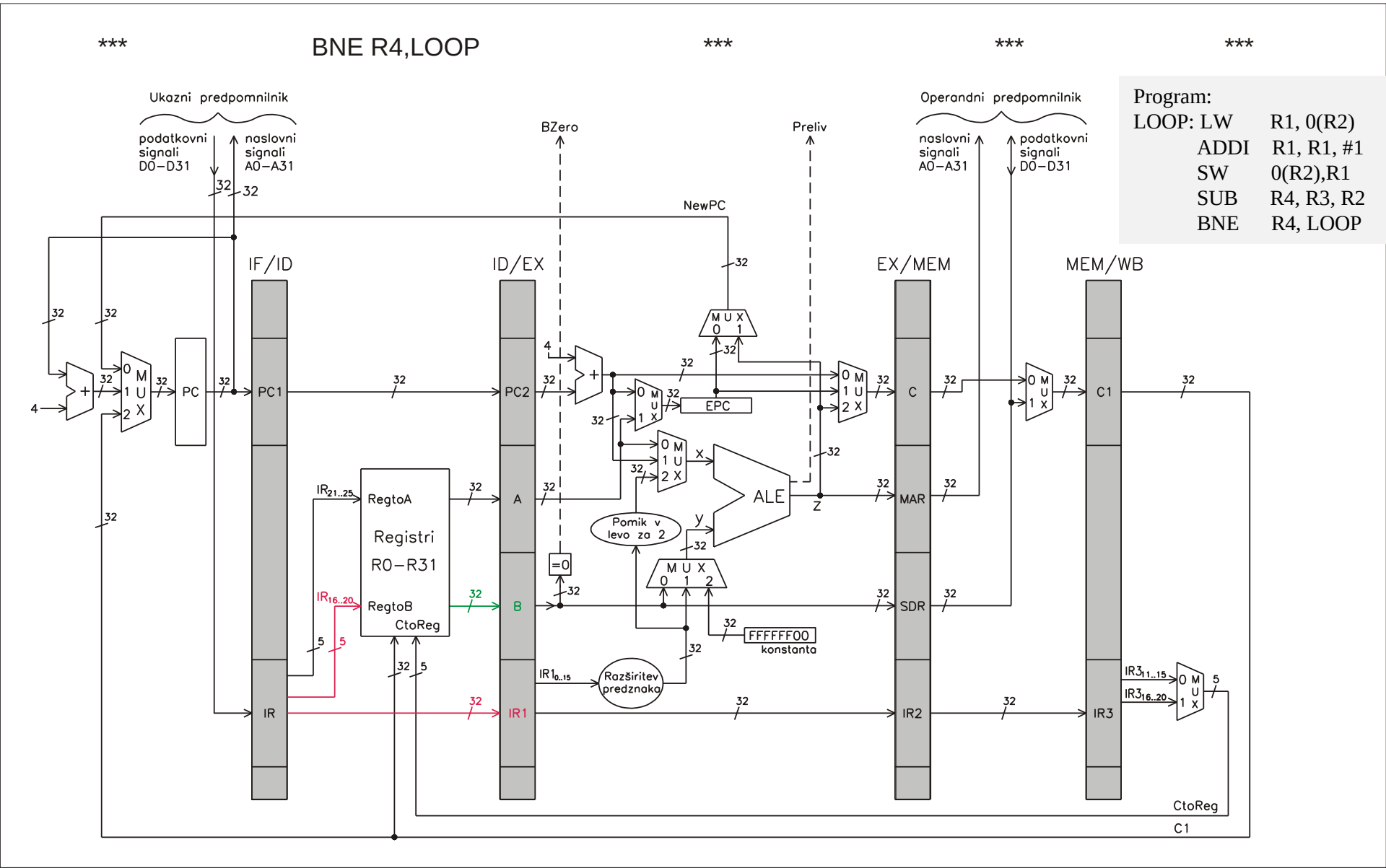
Perioda 17

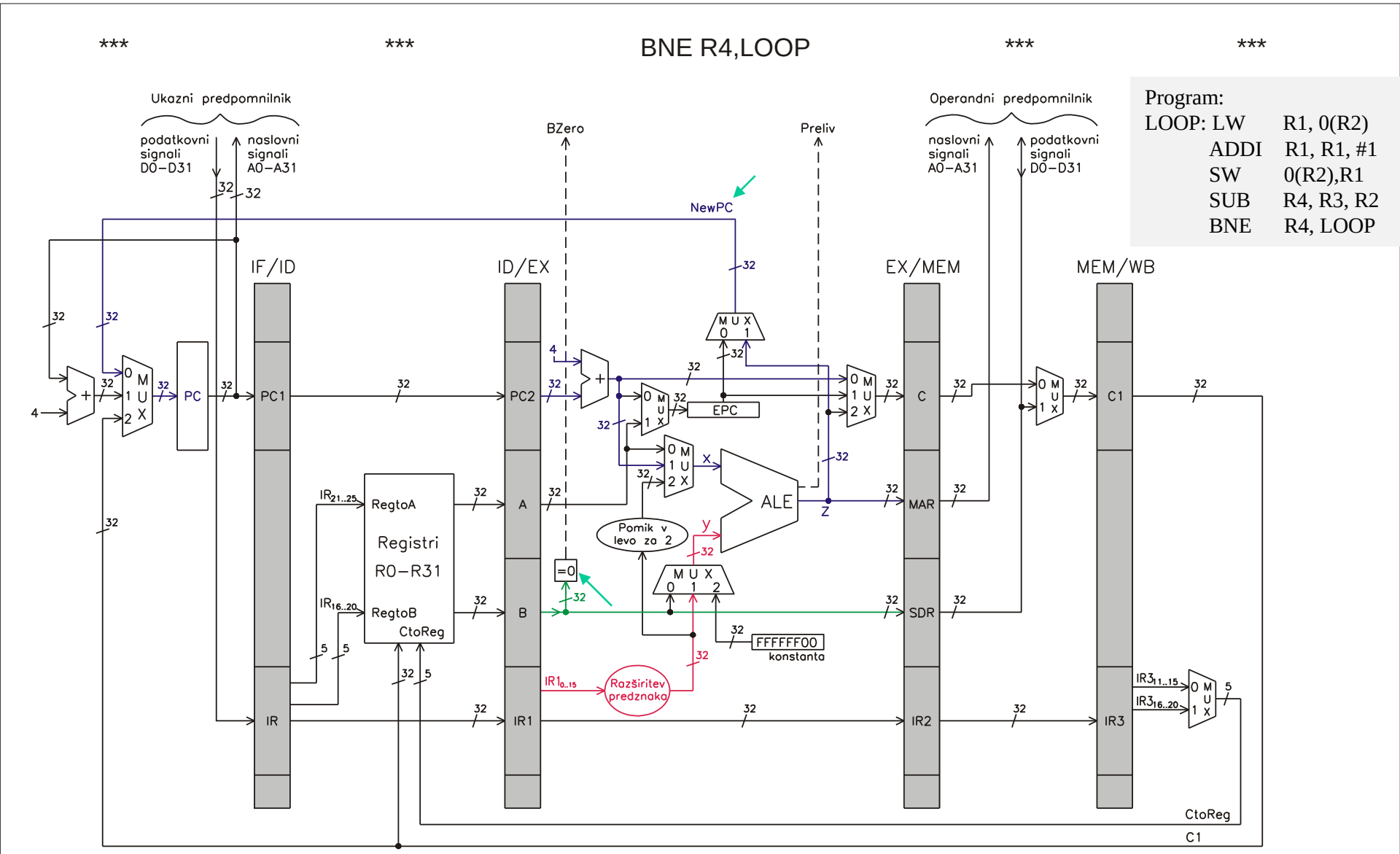
HIP - brez premostitev



Perioda 18

HIP - brez premostitev




***
***
BNE R4,LOOP
***
***
Program:
LOOP: LW R1, 0(R2)
ADDI R1, R1, #1
SW 0(R2),R1
SUB R4, R3, R2
BNE R4, LOOP
Ukazni predpomnilnik
podatkovni signali D0–D31
naslovni signali A0–A31
Operandni predpomnilnik
naslovni signali A0–A31
podatkovni signali D0–D31
BZero
Preliv
NewPC
IF/ID
ID/EX
EX/MEM
MEM/WB
PC
PC1
PC2
C
C1
IR
IR1
IR2
IR3
A
B
MAR
SDR
RegtoA
Registri R0–R31
RegtoB
CtoReg
EPC
ALE
Pomik v levo za 2
=0
FFFFFF00 konstanta
Razširitev predznaka
CtoReg
C1