Shema izvajanja programa v zbirniku v MiMo modelu

RAM		Format strojnega ukaza				Program v zbirniku	n v zbirniku Kontrolni naslov		Mikroprogram		Decision ROM	
Nasl.	Vsebina strojni uk.	Op.koda	Treg	Sreg	Dreg	oznaka: ukaz operandi	Dec	Hex	Kontrolni signali, naslednji mikroukaz	Т	F	
							00	00	fetch: addrsel=pc irload=1	01	01	
							01	01	pcload=1 pcsel=pc, opcode_jump	02	02	
0000:	7e01	63			1	main: li r1,2	65	41	addrsel=pc dwrite=1 regsrc=databus, goto pcincr	84	84	
0001:	0002	Tak. operand					84	pcincr: pcload=1 pcsel=pc, goto fetch	00	00		
0002:	7e02	63			2	li r2 , -1	65	41	addrsel=pc dwrite=1 regsrc=databus, goto pcincr	84	84	
0003:	ffff	Tak. operand					84	pcincr: pcload=1 pcsel=pc, goto fetch	00	00		
0004:	0089	0	2	1	1	loop: add r1,r1,r2	2	2	aluop=add op2sel=treg dwrite=1 regsrc=aluout, goto fetch	00	00	
0005:	5008	40		1		jnez r1, loop	40	2a	addrsel=pc imload=1	82	82	
0006:	0004	Tak. operand					82	aluop=sub op2sel=const0, if z then pcincr else jump	84	85		
	84		84	pcincr: pcload=1 pcsel=pc, goto fetch	00	00						
								85	jump: pcload=1 pcsel=immed, goto fetch	00	00	
0007:	8202	65			2	sw r2, 16	67	43	addrsel=pc imload=1	83	83	
0008:	: 0010 Tak. operand					83	addrsel=immed datawrite=1 datasel=dreg, goto pcincr	84	84			
								84	pcincr: pcload=1 pcsel=pc, goto fetch	00	00	

Program: basic_program1.s :

main:	li r1, 2		# r1 is the counter					
	li r2, -1	L	# Used to decrement r1					
loop:	add r1	, r1, r2	# r1<-r1+r2 (r2=-1 -> r1 decrements)					
	jnez	r1, loop	# if r1 != 0 then jump to loop:					
	SW	r2, 16	# Save r2 to MEM[16]					

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00: 00002000 0101  # fetch:addrsel=pc irload=1
01: 00080800 0202  # pcload=1 pcsel=pc, opcode_jump
02: 00011000 0000  # 0: aluop=add op2sel=treg dwrite=1 regsrc=aluout, goto fetch
2a: 00004000 8282  # 40: addrsel=pc imload=1
41: 00001000 8484  # 63: addrsel=pc dwrite=1 regsrc=databus, goto pcincr
43: 00004000 8383  # 65: addrsel=pc imload=1
82: 00000021 8485  # aluop=sub op2sel=const0, if z then pcincr else jump
83: 001000c0 8484  # addrsel=immed datawrite=1 datasel=dreg, goto pcincr
84: 00000800 0000  # pcincr: pcload=1 pcsel=pc, goto fetch
85: 00000a00 0000  # jump: pcload=1 pcsel=immed, goto fetch
```