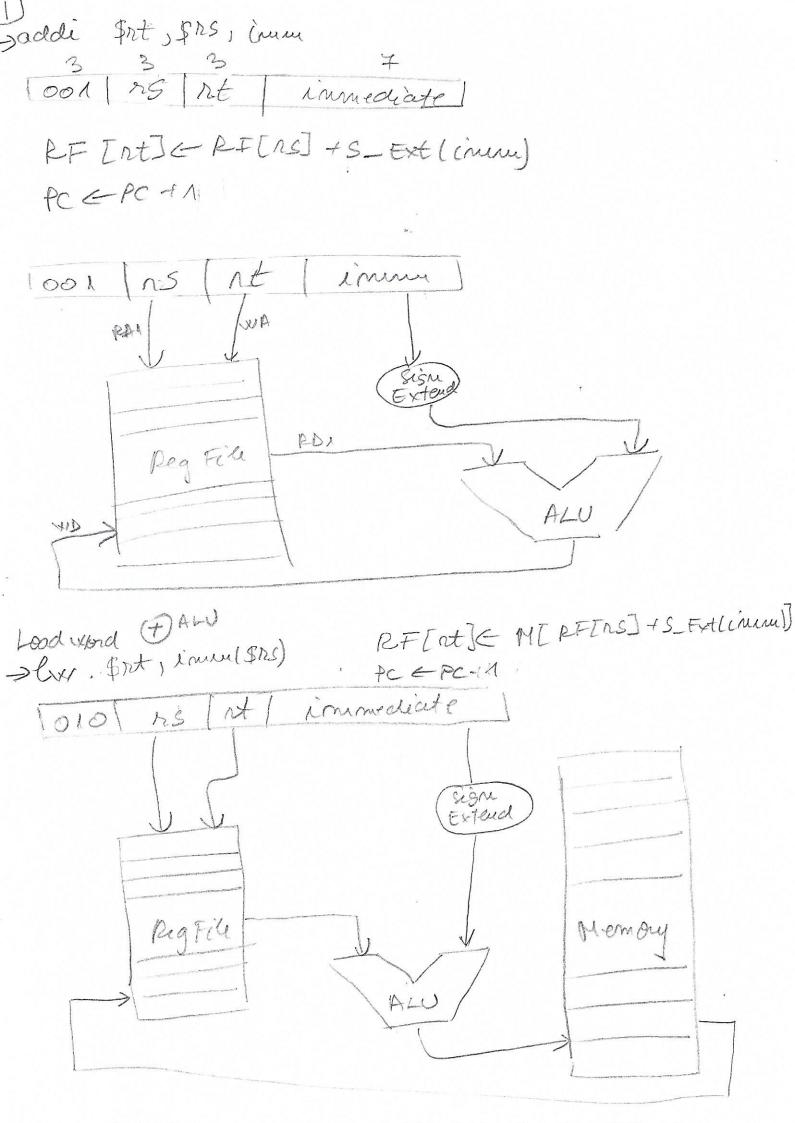
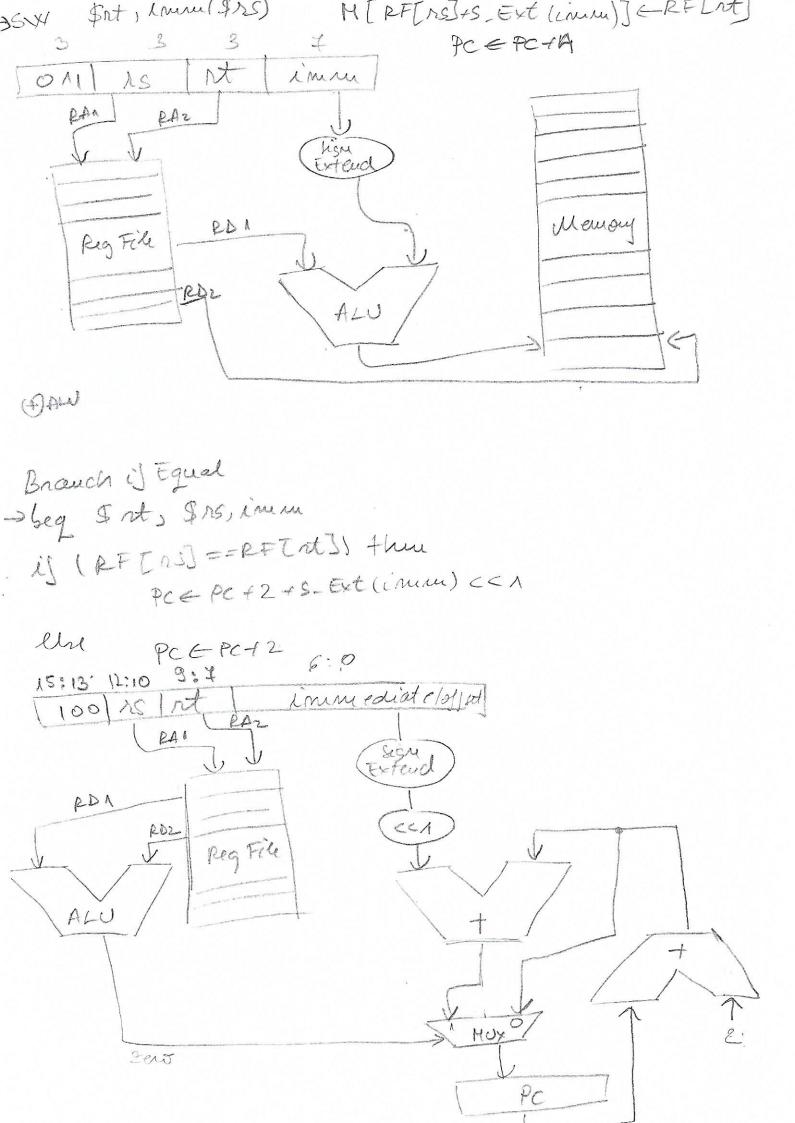
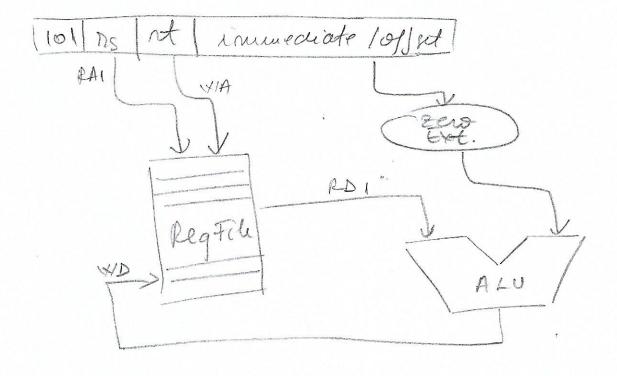


#\(\frac{1}{2}\) \text{Shr - \(\text{lift uplit logical}} \\
\text{\$rd, \(\text{sns}, \(\text{Sa}\) \\
\text{\$\text{PC \(\text{L}\)} \(\text{Sa}\) \\
\text{\$\text{\$\text{lnd} \(\text{Sa}\) \\
\text{\$\text{\$\text{lnd} \(\text{Sa}\) \\
\text{\$\text{\$\text{\$\text{lnd} \(\text{lnd}\)} \\
\text{\$\tex



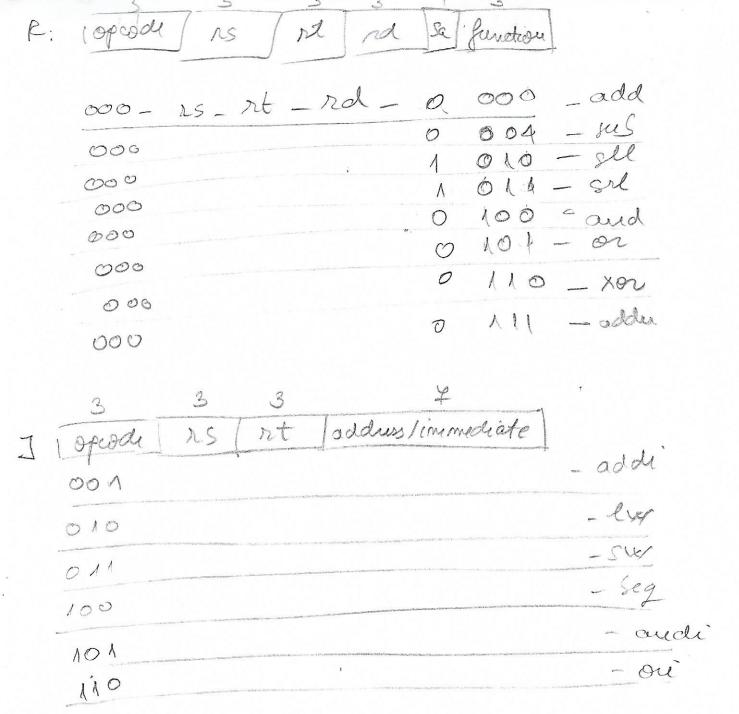


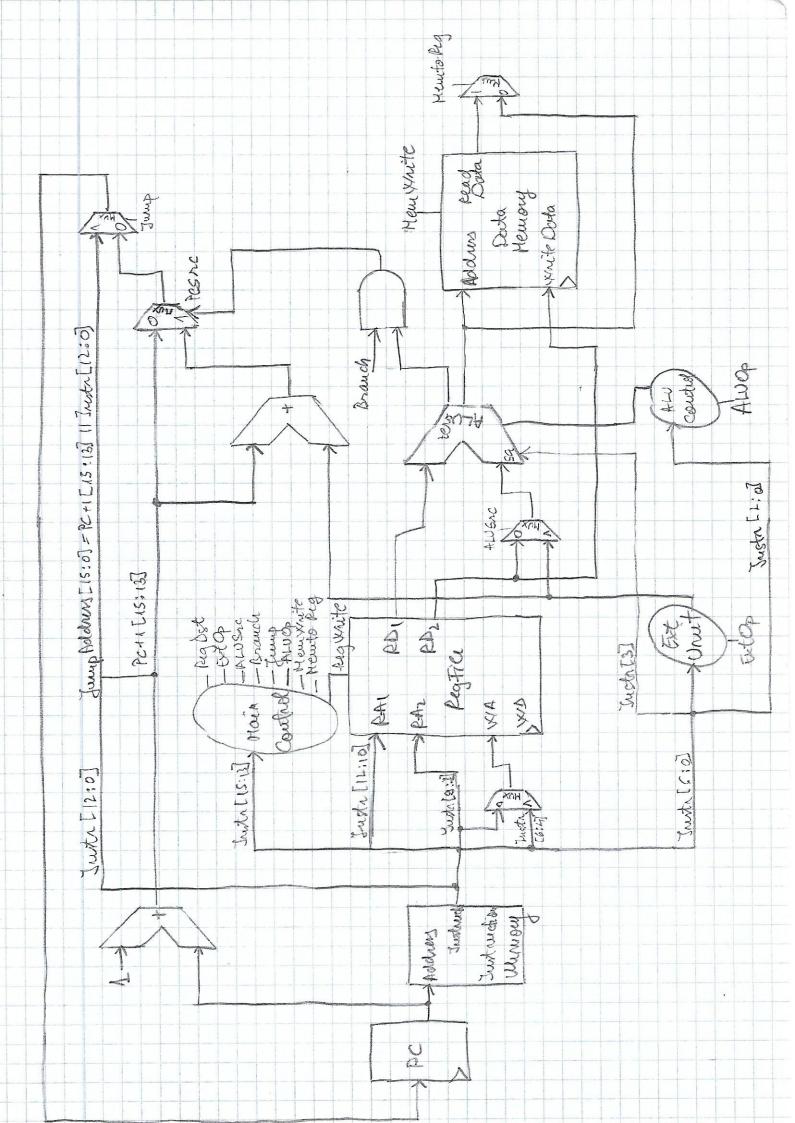
Daudi Art, 9 rs, comme RF[rt] ERFLRS 22-Ext(imm)



-soui Int, Ind, inue RF [nt] < RF[ns] | 2-Ext(cinny)

(10) rs/ rt/ immediate/of/set/ acceanisame ca la audi





o. add \$1,50,50 11=0 \$1= C \$5= pum 1. addi \$4,50,7 94=M. elly 2. add \$2,\$0,\$0 1/init index loe. Meny 3. add \$5,\$0,\$0 /1 sam = 0 4. addi \$6,\$0,1 1909 \$1,\$4, and coop (9) \$3 = cl. curen 56 peu 1 6. liv \$3) A. addr (\$2) 7. and \$6, \$6, \$3 elu, cuent & 1 beg \$6,50) te adun (2') 11 th \$6 am 1 addi \$2,52) \] docc e impar tru la addi \$1,91 (5)] docc e impar tru la addi signi 100p (5)] uniot. Element doar 12. add \$ 5, \$5, \$6 loce le por il 13= eddi \$6,90,1 Ollun 14. addi & +1,92),1 18. addi & +1,92),1 16. jagin coop (5) 14. Sw \$5, sum_addr (\$.7) Loop Cooled in C int oft] = 42,3,4,5,6,7,83 int sum =0, for court i=6; ict; i++) 4 (65)1.2 ==0) 4 sum = sum + a [i]; 5

Semnale control MIPS16 pentru Anexa 5

<?> \(\{ \) gez, _ne, _gtz\} \)
Tipuri de opera\(\) care se pun în parantez\(\) la ALUOp si ALUCtrl: \(\(+ \), (- \), \(\), \(\), \(\), \(\), \(\), \(\), \(\> \), \(\), \(\> \), \(\) - AND, \(\) - OR, \(\) - XOR, \(\) - logic, \(\) a - aritmetic, \(\) v - cu variabil\(\) in the contraction of th

Instruc țiune	Opcode Instr(15-13)	RegDst	ExtOp	ALUSr c	Branch	<br?> (optional)</br?>	lump	ImpR (optional)	Mem Write	Memto Reg	Reg Write	ALUOp (1:0)	func Instr(2-0)	ALUCtri (2:0
ADD	000	1	0	0	0		0		0	0	1	000(+)	000	000
SUB	000	1	0	0	0		0		0	0	1	000(-)	001	001
SLL	000	1	1	0	0		a		0	0	1	000(<<)	010	010
SRL	000	1	1	0	0		0		0	0	1	000(>>)	011	011
AND	000	1	0	0	0		0		0	0	1	000(AND)	100	100
OR	000	1	0	0	0		0		0	0	1	000(OR)	101	101
XOR	000	1	0	0	0		0	11 11	٥	0	1	000(XOR)	110	110
ADDU	000	1	0	0	0		0		0	0	1	000(ADDU)	111	111
ADDI	001	0	1	1	0		0		0	o	1	001(+)	-	000
LW	010	0	1	1	0	-	0		1	1	1	001(+)	-	000
sw	011	0	1	1	0		0		1	0	0	001(+)	-	000
BEQ	100	0	1	0	1		0		0	0	0	010(-)	-	001
ANDI	101	0	1	1	0		0		0	0	1	101	-	100
ORI	110	0	1	1	0		0		0	0	1	110	-	101
1	111	-	-	-	0		1		-	0	0	-	1 -	

B"000 110 101 101 0 000", B"001 000 110 0000001", B"001 001 001 00000001", B"111 000000000101",	B"100_110_000_0000011", B"001_010_010_0000001", B"111_0000000000101",	B"100_001_100_0001011", B"010_010_011_0000000", B"000_011_110_110_0_100",	B"000 000 000 001 0 000", B"000 000 000 101 0 000", B"000 000 110 0000111", B"000 000 010 0000011,

B"011_111_101_0000000",

Trasarea execuției programului de test pentru MIPS16

Pas	SW(7:5)	"000"	"001"	"010"	""011"	"100"	"101"	"110"	"111"	De completat numai pentru instrucțiuni de salt	
	Instr (în asamblare)	Instr (hexa)	PC+1	RD1	RD2	Ext_lmm	ALURes	MemData	WD	BranchAddr	JumpAddr
0	add \$1,50,90	(0	1	0	0	10	0	2	0		**************************************
1	addi \$4,60,7	2204	2	0	¥	7	7	0	7		
2	\$1,80,50	70	3	0	0	20	0	2	0		
3	oda \$5\$0.80	50	4	0	O	50	0	2	0		
4	196,50,1	2301	5	0	1	1	1	3	1	,	
5	S1, 94, 11	රීරිග ර්	6	0	7	ġ	177 9	0	FFF9		
6	93, A-addr(12)	4980	7	0	7	0	0	2	2		
7	56, \$6,53	0F64	8	2	1	64	0	2	0		
8	36,50,3	9803	B	0	0	2	0	2	0		
9	add 95,85,86	1Ad0	d.	0	0	50	0	2	0		
10	addi \$6,80,1	2301	E	0	0	1	1	3	1		
11	182,92,1	2901	F	0	\mathcal{O}	1	1	3	<		
12	91,81,1	2481	10	0	0	٨	7	3	1		
13	75	E005	11	0	0	5	0	2	0		
14	S1,84,11	8605	6	1	7	5	FFFA	0	FFFA		
15	83,4 odders?	4980	7	1	2	0	-1	3	3		

S6,56,93 OF64 8 3 1 64 1 3 1