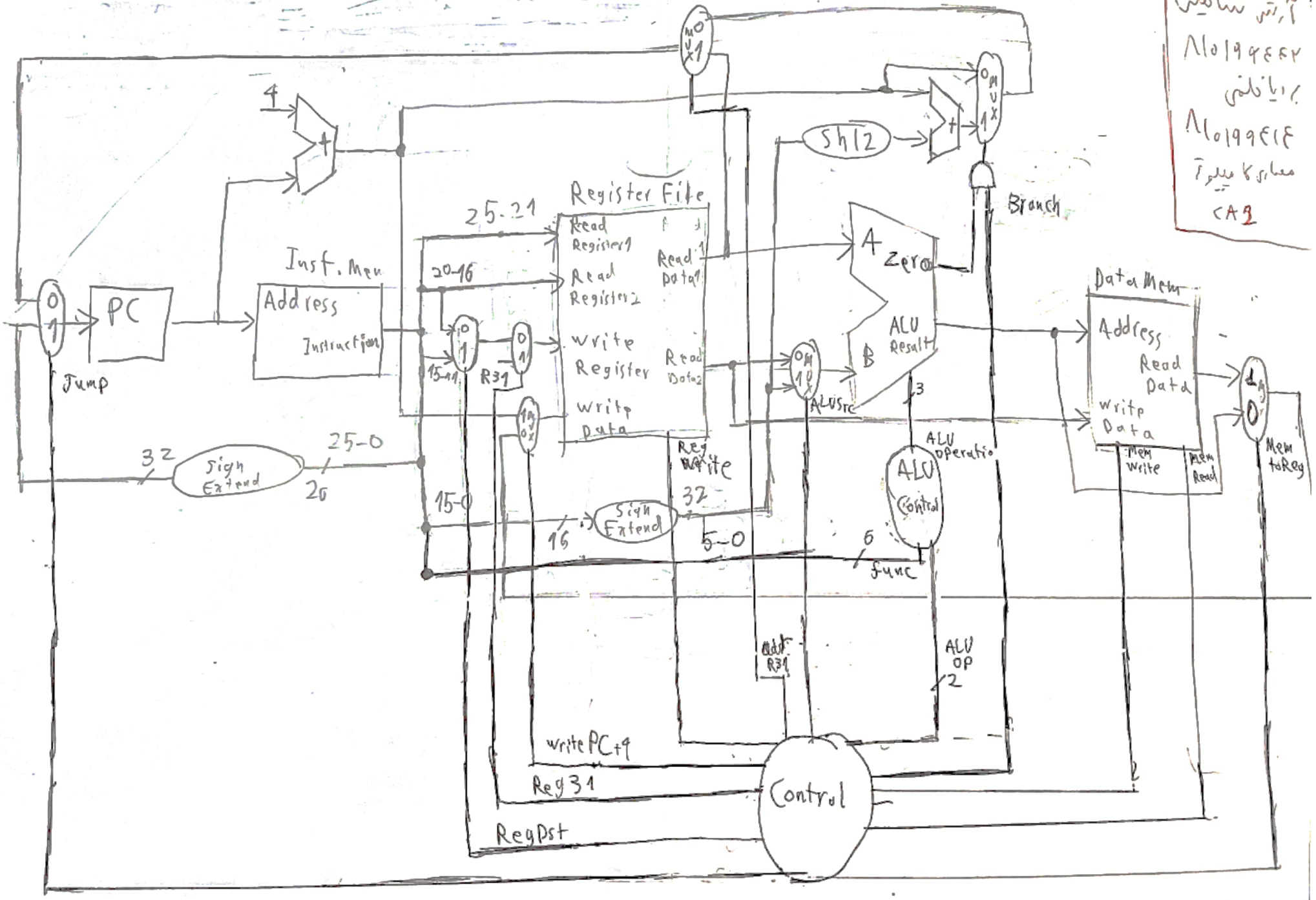
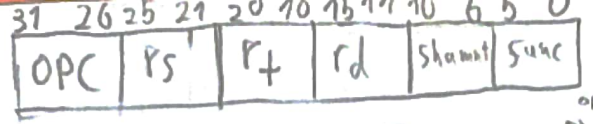
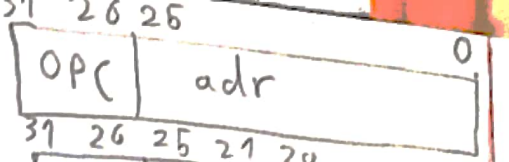


R t: add, sub, slt, and, or,
000000, 000001, 000010, 000011, 000100

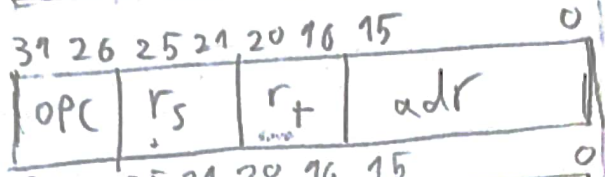
OPC = 000000



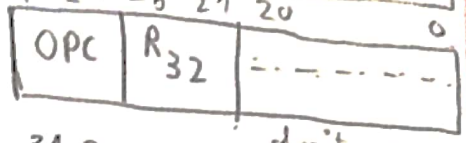
J, Jal :
OPC = 000101, 000110



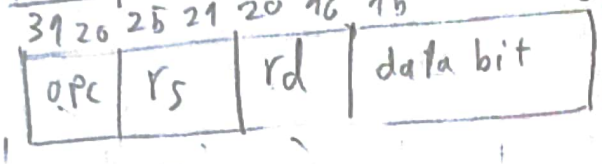
Mem Reg: lw, sw
OPC = 000001, 000010



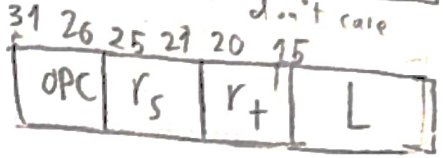
Jr :
OPC = 000111



Rti: addi, slti:
OPC = 000011, 000100

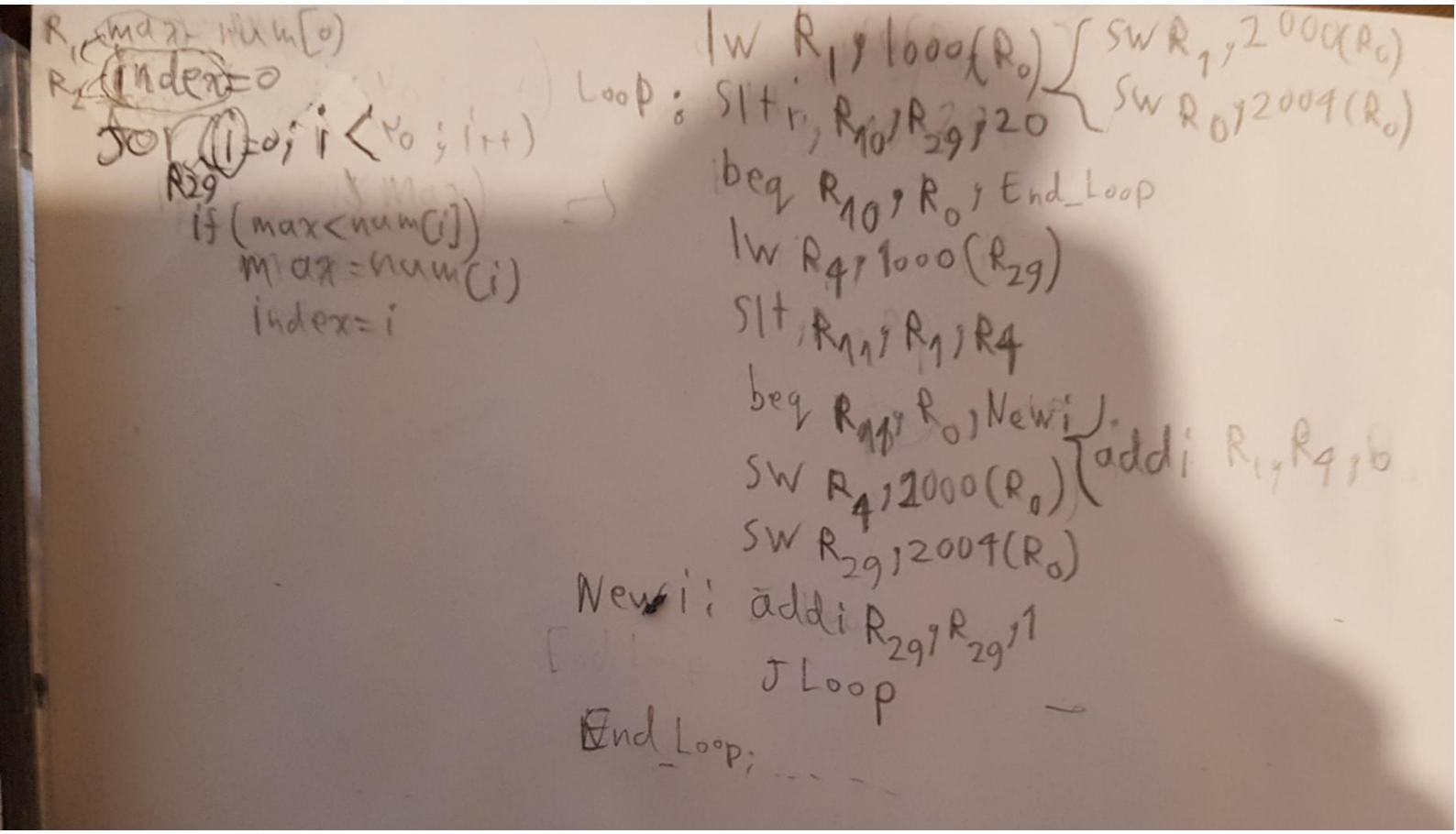


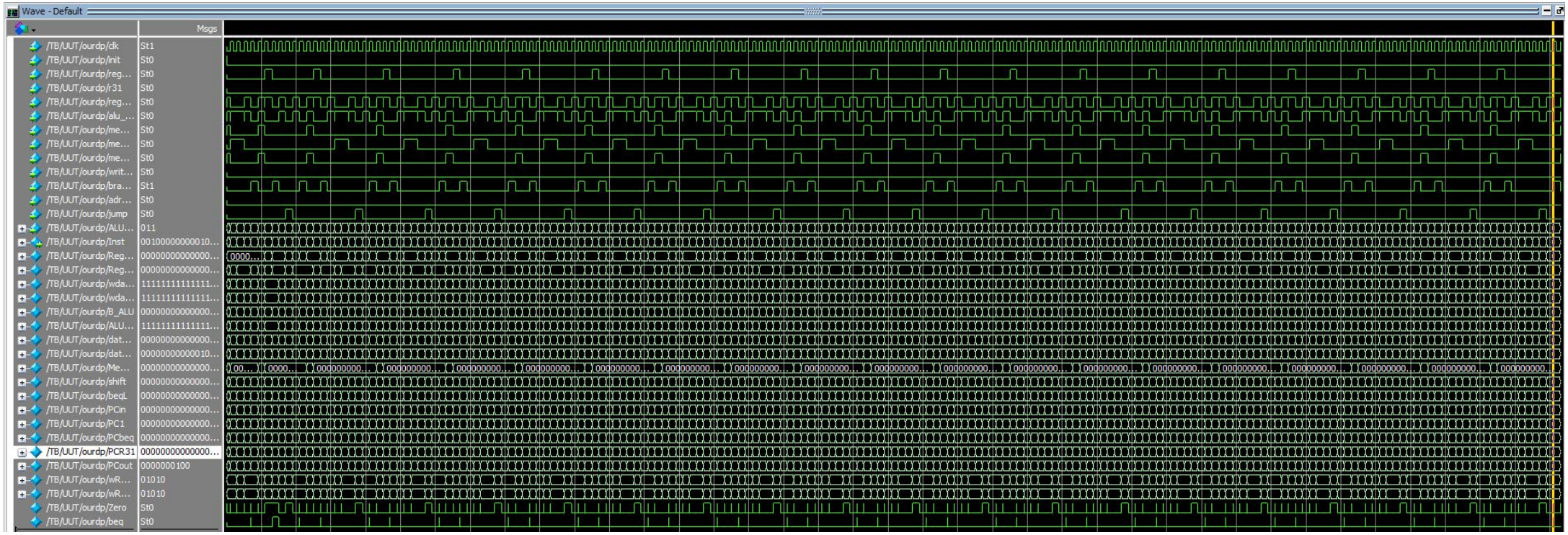
beq
OPC = 001000



	RegDst	R31	RegWrite	ALUSrc	ALUOp	MemRead	MemWrite	MemtoReg	WritePC+4	Branch	adr R31	Jump
RT	1	0	1	0	00	0	0	0	0	0	0	0
addi	0	0	1	1	01	0	0	0	0	0	0	0
sw	X	X	0	1	01	0	1	X	X	0	0	0
lw	0	0	1	1	01	1	0	1	0	0	0	0
J	X	X	0	X	X	0	0	X	X	X	X	1
Jal	X	1	1	X	X	0	0	X	1	X	X	1
jr	X	X	0	X	X	0	0	X	X	X	1	0
beq	X	X	0	0	10	0	0	X	X	1	0	0
slti	0	0	1	1	11	0	0	1	0	0	0	0

ALUOp	ALU
00	RT
01	add
10	Sub
11	slt


R1 max=num[0]
R2 index=0
for (i=0; i<20 ; i++)
R29
if (max<num[i])
max=num[i]
index=i
lw R1,1000(R0)
Loop: slti R10,R29,20
beq R10,R0,End_Loop
lw R4,1000(R29)
slt R11,R1,R4
beq R11,R0,Newi
sw R4,1000(R0)
sw R29,2004(R0)
Newi: addi R29,R29,1
J Loop
End_Loop;
sw R1,2000(R0)
sw R0,2004(R0)
addi R1,R4,0


Wave - Default
Msgs
/TB/UUT/ourdp/clk St1
/TB/UUT/ourdp/init St0
/TB/UUT/ourdp/reg... St0
/TB/UUT/ourdp/r31 St0
/TB/UUT/ourdp/reg... St0
/TB/UUT/ourdp/alu_... St0
/TB/UUT/ourdp/me... St0
/TB/UUT/ourdp/me... St0
/TB/UUT/ourdp/me... St0
/TB/UUT/ourdp/writ... St0
/TB/UUT/ourdp/bra... St1
/TB/UUT/ourdp/adr... St0
/TB/UUT/ourdp/jump St0
/TB/UUT/ourdp/ALU... 011
/TB/UUT/ourdp/Inst 00100000000010...
/TB/UUT/ourdp/Reg... 00000000000000...
/TB/UUT/ourdp/Reg... 00000000000000...
/TB/UUT/ourdp/wda... 11111111111111...
/TB/UUT/ourdp/wda... 11111111111111...
/TB/UUT/ourdp/B_ALU 00000000000000...
/TB/UUT/ourdp/ALU... 11111111111111...
/TB/UUT/ourdp/dat... 00000000000000...
/TB/UUT/ourdp/dat... 00000000000010...
/TB/UUT/ourdp/Me... 00000000000000...
/TB/UUT/ourdp/shift 00000000000000...
/TB/UUT/ourdp/beqL 00000000000000...
/TB/UUT/ourdp/PCin 00000000000000...
/TB/UUT/ourdp/PC1 00000000000000...
/TB/UUT/ourdp/PCbeq 00000000000000...
/TB/UUT/ourdp/PCR31 00000000000000...
/TB/UUT/ourdp/PCout 0000000100
/TB/UUT/ourdp/wR... 01010
/TB/UUT/ourdp/wR... 01010
/TB/UUT/ourdp/Zero St0
/TB/UUT/ourdp/beq St0


000003ff 00000000000000000000000000000000 00000000000000000000000000000000 00000000000000000000000000000000 00000000000000000000000000000000 00000000000000000000000000010100 00000000000000000000000000010011 00000000000000000000000000010010
000003f8 00000000000000000000000000010001 00000000000000000000000000010000 00000000000000000000000000001111 00000000000000000000000000001110 00000000000000000000000000001101 00000000000000000000000000001100 00000000000000000000000000001011
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