**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\_Imm** | **ALURes** | **MemData** | **WD** | **BranchAddr** | **JumpAddr** |
| 0 | addi $2, $0, 9 | x”2109” | x”0001” | x”0000” | x”0000” | x”0009” | x”0009” | x”0190” | x”0009” |  |  |
| 1 | add $3, $0, $0 | x”0031” | x”0002” | x”0000” | x”0000” | x”0031” | x”0000” | x”0000” | x”0000” |  |  |
| 2 | lw $4, 1($0) | x”E201” | x”0003” | x”0000” | x”0000” | x”0001” | x”0001” | x”0011” | x”0011” |  |  |
| 3 | sw $4, 0($0) | x”4200” | x”0004” | x”0000” | x”0011” | x”0000” | x”0000” | x”0000” | x”0000” |  |  |
| 4 | beq $2, $3, 12 | x”698C” | x”0005” | x”0009” | x”0000” | x”000C” | x”0009” | x”0190” | x”0009” | x”0012” |  |
| 5 | lw $5, 2($3) | x”EE82” | x”0006” | x”0000” | x”0000” | x”0002” | x”0002” | x”1102” | x”1102” |  |  |
| 6 | lw $4, 0($0) | x”E200” | x”0007” | x”0000” | x”0011” | x”0000” | x”0000” | x”0011” | x”0011” |  |  |
| 7 | sub $4, $5, $4 | x”1642” | x”0008” | x”1102” | x”0011” | x”0042” | x”10F1” | x”0000” | x”10F1” |  |  |
| 8 | bgez $4, 2 | x”9002” | X”0009” | x”10F1” | x”0000” | x”0002” | x”10F1” | x”0000” | x”10F1” | x”000B” |  |
| 11 | lw $4, 1($0) | x”E201” | x”000C” | x”0000” | x”10F1” | x”0001” | x”0001” | x”0011” | x”0011” |  |  |
| 12 | sub $4, $4, $5 | x”12C2” | x”000D” | x”0011” | x”1102” | x”0042” | x”EF0F” | x”0000” | x”EF0F” |  |  |
| 13 | bgez $4, 1 | x”9001” | x”000E” | x”EF0F” | x”0000” | x”0001” | x”EF0F” | x”0000” | x”EF0F” | x”000F” |  |
| 14 | sw $5, 1($0) | x”4281” | x”000F” | x”0000” | x”1102” | x”0001” | x”0001” | x”0011” | x”0001” |  |  |
| 15 | addi $3, $3, 1 | x”2D81” | x”0010” | x”0000” | x”0000” | x”0001” | x”0001” | x”1102” | x”0001” |  |  |
| 16 | j 4 | x”C004” | x”0011” | x”0000” | x”0000” | x”0004” | x”0000” | x”0011” | x”0000” |  | x”0004” |
| 17 | lw $4, 0($0) | x”E200” | x”0012” | x”0000” | x”FFF0” | x”0000” | x”0000” | x”0011” | x”0011” |  |  |