**Trasarea execuției programului de test pentru MIPS32**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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+4** | **RD1** | **RD2** | **Ext\_Imm** | **ALURes** | **MemData** | **WD** | **BranchAddr** | **JumpAddr** |
| 0 | Add $1,$0,$0 | X”00000801" | X"00000004" | X"00000000" | X"00000000" | Nu cont | X"00000000" | Nu cont | X"00000000" | Nu cont | Nu cont |
| 1 | Addi $4,$0,10 | X"2404000A" | X"00000008" | X"00000000" | Nu cont | X”0000000A” | X”0000000A” | Nu cont | X”0000000A” | Nu cont | Nu cont |
| 2 | Add $2,$0,$0 | X"00001001" | X"0000000C" | X"00000000" | X"00000000" | Nu cont | X"00000000" | Nu cont | X"00000000" | Nu cont | Nu cont |
| 3 | Add $5,$0,$0 | X"00002801" | X"00000010" | X"00000000" | X"00000000" | Nu cont | X"00000000" | Nu cont | X"00000000" | Nu cont | Nu cont |
| 4 | Beq $1,$4,7 | X"30240007" | X"00000014" | X"00000000" | X”0000000A” | X”00000007” | X”0000000A” | Nu cont | X”0000000A” | Nu cont | Nu cont |
| 5 | Lw $3,10($2) | X"2843000A" | X"00000018" | X"00000000" | Nu cont | X”0000000A” | X”0000000A” | Nu cont | X”00000001” | Nu cont | Nu cont |
| 6 | Sll $3,$3,2 | X"00031883" | X"0000001C" | Nu cont | X”00000001” | Nu cont | X”00000004” | Nu cont | X”00000004” | Nu cont | Nu cont |
| 7 | Sw $3,10($2) | X"2C43000A" | X"00000020" | X"00000000" | X”00000004” | X”0000000A” | X”0000000A” | X”00000004” | X”00000004” | Nu cont | Nu cont |
| 8 | Add $5,$5,$3 | X"00A32801" | X"00000024" | X"00000000" | X”00000004” | Nu cont | X”00000004” | Nu cont | X”00000004” | Nu cont | Nu cont |
| 9 | Addi $2,$2,4 | X"24420004" | X"00000028" | X"00000000" | Nu cont | X”00000004” | X”00000004” | Nu cont | X”00000004” | Nu cont | Nu cont |
| 10 | Addi $1,$1,1 | X"24210001" | X"0000002C" | X"00000000" | Nu cont | X”00000001” | X”00000001” | Nu cont | X”00000001” | Nu cont | Nu cont |
| 11 | J 4 | X"3C000004" | X"00000030" | Nu cont | Nu cont | Nu cont | Nu cont | Nu cont | Nu cont | Nu cont | X”00000010” |

Ultima Instructiune dupa ce iese din ciclu: sw $5,50($0) instr: X"2C050032" ALURes: X”00000070”=112 in zecimal