**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 | LW $2, 4($0) | X"40020004" | X"00000004" | X"00000000" | X"00000000" | X"00000004" | X"00000004" | X"0000000C" | X"0000000C" |  |  |
| 1 | LW $3, 8($0) | X”40030008” | X”00000008” | X”00000000” | X”00000000” | X”00000008” | X”00000008” | X”0000000A” | X”0000000A” |  |  |
| 2 | ADD $5, $0, $2 | X”00022820” | X”0000000C” | X”00000000” | X”0000000C” | X”00022820” | X”0000000C” | X”00000002” | X”0000000C” |  |  |
| 3 | LW $6, 0($5) | X”40A60000” | X”00000010” | X”0000000C” | X”00000000” | X”00000000” | X”0000000C” | X”00000002” | X”00000002” |  |  |
| 4 | LW $7, 4($5) | X”40A70004” | X”00000014” | X”0000000C” | X”00000000” | X”00000004” | X”00000010” | X”00000005” | X”00000005” |  |  |
| 5 | SUB $4, $7, $6 | X”00E62010” | X”00000018” | X”00000005” | X”00000002” | X”00002010” | X”00000003” | X”00000000” | X”00000003” |  |  |
| 6 | ADDI $5, $5, 4 | X”80A50004” | X”0000001C” | X”0000000C” | X”0000000C” | X”00000004” | X”00000010” | X”00000005” | X”00000010” |  |  |
| 7 | ADDI $1, $0, 2 | X”80010002” | X”00000020” | X”00000000” | X”00000000” | X”00000002” | X”00000002” | X”00000000” | X”00000002” |  |  |
| 8 | BEQ $1, $3, 9 | X”10230009” | X”00000024” | X”00000002” | X”0000000A” | X”00000009” | X”FFFFFFF8” | X”00000000” | X”FFFFFFF8” | X”00000048” |  |
| 9 | LW $6, 0($5) | X”40A60000” | X”00000028” | X”00000010” | X”00000002” | X”00000000” | X”00000010” | X”00000005” | X”00000005” |  |  |
| 10 | LW $7, 4($5) | X”40A70004” | X”0000002C” | X”00000010” | X”00000005” | X”00000004” | X”00000014” | X”00000008” | X”00000008” |  |  |
| 11 | SUB $8, $7, $6 | X”00E64010” | X”00000030” | X”00000008” | X”00000005” | X”00004010” | X”00000003” | X”00000000” | X”00000003” |  |  |
| 12 | BNE $8, $4, 4 | X”09040004” | X”00000034” | X”00000003” | X”00000003” | X”00000004” | X”00000000” | X”00000000” | X”00000000” | X”00000044” |  |
| 13 | ADDI $10, $0, 1 | X”800A0001” | X”00000038” | X”00000000” | X”00000000” | X”00000001” | X”00000001” | X”00000000” | X”00000001” |  |  |
| 14 | ADDI $5, $5, 4 | X”80A50004” | X”0000003C” | X”00000010” | X”00000010” | X”00000004” | X”00000014” | X”00000008” | X”00000014” |  |  |
| 15 | ADDI $1, $1, 1 | X”80210001” | X”00000040” | X”00000002” | X”00000002” | X”00000001” | X”00000003” | X”00000000” | X”00000003” |  |  |
| 16 | J 8 | X”A8000008” | X”00000044” | X”00000000” | X”00000000” | X”00000008” | X”00000000” | X”00000000” | X”00000000” |  | X”00000020” |
| 17 | SW $10, 0($0) | X”200A0000” | X”0000004C” | X”00000000” | X”00000001” | X”00000000” | X”00000000” | X”00000000” | X”00000000” |  |  |