**ECE 368 CISC-24 Team 2 Test Plan**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Instruction** | **Hex Input** | **RA Data** | **RB Data** | **MemA Data** | **MemB Data** | **Output Destination** | **Expected Result** | **Pass**  **Fail** |
| ADDI R0 123 | B8007B | 0 | NA | N/A | N/A | R0 | 123(7B) |  |
| ADDI R1 1 | B84001 | 0 | N/A | N/A | N/A | R1 | 1 |  |
| ADD R0 R1 | 800200 | 123 | 1 | N/A | N/A | R0 | 124(7C) |  |
| SUB R0 R1 | 880200 | 124 | 1 | N/A | N/A | R0 | 123(7B) |  |
| CLR R1 | 204000 | 1 | N/A | N/A | N/A | R1 | 0 |  |
| INC R0 | 280000 | 123 | N/A | N/A | N/A | R0 | 124(7C) |  |
| DEC R0 | 300000 | 124 | N/A | N/A | N/A | R0 | 123(7B) |  |
| SLL R0 x"B" | 40000B | 123 | N/A | N/A | N/A | R0 | 984(3D8) |  |
| SRL R0 1 | 480001 | 984 | N/A | N/A | N/A | R0 | 492(1EC) |  |
| NEG R0 | 380000 | 492 | N/A | N/A | N/A | R0 | -492(FE14) |  |
| MVS R0 R3 | 500400 | -492 | 0 | N/A | N/A | R3 | -492(FE14) |  |
| MSM R0 x"FF" | 6080FF | -492 | N/A | N/A | N/A | RAM[FF] | -492(FE14) |  |
| MMS R1 x"0" | 684000 | N/A | N/A | N/A | x"B8007B" | R1 | x"B8007B" |  |
| MVMI x"01" x"FF" | 5802FF | N/A | N/A | x"B84001" | N/A | RAM[FF] | x"B84001" |  |
| ADDI R0 494 | B801EE | -492 | N/A | N/A | N/A | R0 | 2 |  |
| ADDI R7 5 | B9C005 | 0 | N/A | N/A | N/A | R7 | 5 |  |
| ADD [R0] [R7] | 821E00 | N/A | N/A | x"800200" | x"280000" | R0 | x"A80200" |  |
| CLR R0 | 200000 | A80200 | N/A | N/A | N/A | R0 | 0 |  |
| JSR 1C | D0001C | N/A | N/A | N/A | N/A | RAM[1C] | PC = 1C |  |
| CLR R7 | 21C000 | 5 | N/A | N/A | N/A | R7 | 0 |  |
| SUBI R7 1 | C00001 | 0 | N/A | N/A | N/A | R7 | FFFF |  |
| BR 1001 02 | E48002 | N/A | N/A | N/A | N/A | RAM[1F or 20] | RAM[20] |  |
| CLR R7 | 21C000 | 5 | N/A | N/A | N/A | R7 | 0 |  |
| CLRS | F80000 | N/A | N/A | N/A | N/A | CPU\_CCR | 0 |  |
| BR 1001 02 | E48002 | N/A | N/A | N/A | N/A | RAM[22 or 23] | RAM[22] |  |
| ADDI R7 5 | B9C005 | 0 | N/A | N/A | N/A | R7 | 5 |  |
| ADDI R6+ 3 | BD8003 | 0+1 | N/A | N/A | N/A | R6 | 4 |  |
| ADD R6+ R7+ | 85AE00 | 4+1 | 5+1 | N/A | N/A | R6 | B |  |
| ADDI [R6]+ 1 | BF8001 | N/A | N/A | 6080FF +1 | N/A | R6 | x“608101” |  |
| ADDI R4 FF | B900FF | 0 | N/A | N/A | N/A | R4 | FF |  |
| ADDI R5 F | B9400F | 0 | N/A | N/A | N/A | R5 | F |  |
| AND R4 R5 | A10A00 | FF | F | N/A | N/A | R4 | F |  |
| OR [R4]+ R7 | AF0E00 | N/A | F | B9C005+1 | N/A | R4 |  |  |
| XOR R4 R5 | B10A00 | 000E01 | F | N/A | N/A | R4 |  |  |

