**CMPE140 – Laboratory Assignment 6 Test Log**

**Student Names: 1) \_\_\_**William Major**\_\_\_ 2)** \_\_\_Austin Tran\_\_\_

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Using the debounced manual clock, single step through the execution of the given MIPS instructions, observe and record the following values in the test log table below:

* the actual machine code of each instruction executed
* contents of the program counter (PC) and the relevant registers
* contents of memory at location 80 and 84.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Adr | Expected Machine Code | Actual Machine Code | PC | Registers | | | | | Memory Content | |
| $v0 | $v1 | $a0 | $a1 | $a3 | [80] | [84] |
| 00 | 20020005 | 20020005 | 3000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | 2003000c | 2003000c | 3004 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08 | 2067fff7 | 2067fff7 | 3008 | 5 | C | 0 | 0 | 0 | 0 | 0 |
| 0c | 00e22025 | 00e22025 | 300c | 5 | C | 0 | 0 | 3 | 0 | 0 |
| 10 | 00642824 | 00642824 | 3010 | 5 | C | 7 | 0 | 3 | 0 | 0 |
| 14 | 00a42820 | 00a42820 | 3014 | 5 | C | 7 | 4 | 3 | 0 | 0 |
| 18 | 10a7000a | 10a7000a | 3018 | 5 | C | 7 | B | 3 | 0 | 0 |
| 1c | 0064202a | 0064202a | 301c | 5 | C | 7 | B | 3 | 0 | 0 |
| 20 | 10800001 | 10800001 | 3020 | 5 | C | 0 | B | 3 | 0 | 0 |
| 24 | 20050000 | 20050000 |  |  |  |  |  |  |  |  |
| 28 | 00e2202a | 00e2202a | 3028 | 5 | C | 0 | B | 3 | 0 | 0 |
| 2c | 00853820 | 00853820 | 302c | 5 | C | 1 | B | 3 | 0 | 0 |
| 30 | 00e23822 | 00e23822 | 3030 | 5 | C | 1 | B | C | 0 | 0 |
| 34 | ac670044 | ac670044 | 3034 | 5 | C | 1 | B | 7 | 0 | 0 |
| 38 | 8c020050 | 8c020050 | 3038 | 5 | C | 1 | B | 7 | 7 | 0 |
| 3c | 08000011 | 08000011 | 303c | 7 | C | 1 | B | 7 | 7 | 0 |
| 40 | 20020001 | 20020001 |  |  |  |  |  |  |  |  |
| 44 | ac020054 | ac020054 | 3044 | 7 | C | 1 | B | 7 | 7 | 0 |
| 48 | 08000c00 | 08000c00 | 3048 | 7 | C | 1 | B | 7 | 7 | 7 |