**CMPE140 – Laboratory Assignment 2 Test Log**

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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 location 80 and 84.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Adr | Expected Machine Code | Actual Machine Code | PC | Registers | | | | | Memory Content | |
| $v0 | $v1 | $a0 | $a1 | $a3 | [80] | [84] |
| 00 | 20020005 | 0x20020005 | 00004 | 00000005 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | 2003000c | 0x2003000C | 00008 | 00000005 | 0000000C | 0 | 0 | 0 | 0 | 0 |
| 08 | 2067fff7 | 0x2067FFF7 | 0000C | 00000005 | 0000000C | 0 | 0 | 00000003 | 0 | 0 |
| 0c | 00e22025 | 0x00E22025 | 00010 | 00000005 | 00000005 | 00000007 | 0 | 00000003 | 0 | 0 |
| 10 | 00642824 | 0x00642824 | 00014 | 00000005 | 0000000C | 00000007 | 00000004 | 00000003 | 0 | 0 |
| 14 | 00a42820 | 0x00A42820 | 00018 | 00000005 | 0000000C | 00000007 | 0000000B | 00000003 | 0 | 0 |
| 18 | 10a7000a | 0x10E5000A | 0001C | 00000005 | 0000000C | 00000007 | 0000000B | 00000003 | 0 | 0 |
| 1c | 0064202a | 0x0064202A | 00020 | 00000005 | 0000000C | 00000000 | 0000000B | 00000003 | 0 | 0 |
| 20 | 10800001 | 0x10040001 | 00028 | 00000005 | 0000000C | 00000000 | 0000000B | 00000003 | 0 | 0 |
| 24 | 20050000 | - | - | - | - | - | - | - | - | - |
| 28 | 00e2202a | 0x00E2202A | 0002C | 00000005 | 0000000C | 00000001 | 0000000B | 00000003 | 0 | 0 |
| 2c | 00853820 | 0x00853820 | 00030 | 00000005 | 0000000C | 00000001 | 0000000B | 0000000C | 0 | 0 |
| 30 | 00e23822 | 0x00E23822 | 00034 | 00000005 | 0000000C | 00000001 | 0000000B | 00000007 | 0 | 0 |
| 34 | ac670044 | 0xAC670044 | 00038 | 00000005 | 0000000C | 00000001 | 0000000B | 00000007 | 0 | 0 |
| 38 | 8c020050 | 0x8C020050 | 0003C | 00000007 | 0000000C | 00000001 | 0000000B | 00000007 | 7 | 0 |
| 3c | 08000011 | 0x08000011 | 00044 | 00000007 | 0000000C | 00000001 | 0000000B | 00000007 | 7 | 0 |
| 40 | 20020001 | - | - | - | - | - | - | - | - | - |
| 44 | ac020054 | 0xAC020054 | 00048 | 00000007 | 0000000C | 00000001 | 0000000B | 00000007 | 7 | 7 |
| 48 | 08000000 | 0x08000000 | 00000 | 00000007 | 0000000C | 00000001 | 0000000B | 00000007 | 7 | 7 |