实验六 线下验收表

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| **序** **号** | **测试指令** | **x1 寄存器输出值** | **x3 寄存器输出值** | **x10 寄存器输出值** | **时钟周期数** |
| 1 | add | 0x00000010 | 0x00000026 | 0x00c0ffee | 458 |
| 2 | addi | 0x00000021 | 0x00000019 | 0x00c0ffee | 235 |
| 3 | and | 0x11111111 | 0x0000001b | 0x00c0ffee | 478 |
| 4 | andi | 0x00ff00ff | 0x0000000e | 0x00c0ffee | 191 |
| 5 | auipc | 0x00000000 | 0x00000003 | 0x00c0ffee | 52 |
| 6 | beq | 0x00000003 | 0x00000015 | 0x00c0ffee | 284 |
| 7 | bge | 0x00000003 | 0x00000018 | 0x00c0ffee | 302 |
| 8 | bgeu | 0x00000003 | 0x00000018 | 0x00c0ffee | 327 |
| 9 | blt | 0x00000003 | 0x00000015 | 0x00c0ffee | 284 |
| 10 | bltu | 0x00000003 | 0x00000015 | 0x00c0ffee | 309 |
| 11 | bne | 0x00000003 | 0x00000015 | 0x00c0ffee | 284 |
| 12 | jal | 0x00000003 | 0x00000003 | 0x00c0ffee | 48 |
| 13 | jalr | 0x00000000 | 0x00000007 | 0x00c0ffee | 108 |
| 14 | lb | 0x00002000 | 0x00000002 | 0x00c0ffee | 43 |
| 15 | lbu | 0x00002000 | 0x00000002 | 0x00c0ffee | 43 |
| 16 | lh | 0x00002000 | 0x00000002 | 0x00c0ffee | 43 |
| 17 | lhu | 0x00002000 | 0x00000002 | 0x00c0ffee | 43 |
| 18 | lui | 0xfffff800 | 0x00000006 | 0x00c0ffee | 58 |
| 19 | lw | 0x00002000 | 0x00000002 | 0x00c0ffee | 44 |
| 20 | or | 0x11111111 | 0x0000001b | 0x00c0ffee | 481 |
| 21 | ori | 0x00ff00ff | 0x0000000e | 0x00c0ffee | 198 |
| 22 | sb | 0x00002000 | 0x00000004 | 0x00c0ffee | 63 |
| 23 | sh | 0x00002000 | 0x00000004 | 0x00c0ffee | 65 |
| 24 | sll | 0x00000400 | 0x0000002b | 0x00c0ffee | 486 |
| 25 | slli | 0x00000021 | 0x00000019 | 0x00c0ffee | 234 |
| 26 | slt | 0x00000010 | 0x00000026 | 0x00c0ffee | 452 |
| 27 | slti | 0x00ff00ff | 0x00000019 | 0x00c0ffee | 230 |

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| --- | --- | --- | --- | --- | --- |
| 28 | sltiu | 0x00ff00ff | 0x00000019 | 0x00c0ffee | 230 |
| 29 | sltu | 0x00000010 | 0x00000026 | 0x00c0ffee | 452 |
| 30 | sra | 0x00000400 | 0x0000002b | 0x00c0ffee | 505 |
| 31 | srai | 0x00000021 | 0x00000019 | 0x00c0ffee | 249 |
| 32 | srl | 0x00000400 | 0x0000002b | 0x00c0ffee | 499 |
| 33 | srli | 0x00000021 | 0x00000019 | 0x00c0ffee | 243 |
| 34 | sub | 0x00000010 | 0x00000025 | 0x00c0ffee | 450 |
| 35 | sw | 0x12233001 | 0x00000017 | 0x00c0ffee | 483 |
| 36 | xor | 0x11111111 | 0x0000001b | 0x00c0ffee | 480 |
| 37 | xori | 0x00ff00ff | 0x0000000e | 0x00c0ffee | 200 |
|  |  | | | | |
|  | **C-Test C 语言测试程序执行结果** | | | | |
| 1 | b-sort.c | 指令存储器加载： b-sort-riscv32-npc.bin-logisim-inst.txt，  数据存储器分别加载 ： b-sort-riscv32-npc.bin-logisim-data0.txt ~ b-sort-riscv32-npc.bin- logisim-data3.txt | | | |
|  | 程序执行周期数：1348 | |  |  |  |
|  | 程序执行结果，数据存储器地址 M[0x90-0xDC]中的数据排列结果： | | | | |
|  | 0x18-0x24字节：  RAM3：fb 00 00 01 00 ff 08 00 fd 0e 00 00 00  RAM2：1f c1 00 01 00 01 c0 11 9f a0 00 00 00  RAM1：f0 20 05 01 80 01 05 26 f0 20 00 00 00  RAM0：ef 83 13 13 67 13 13 23 ef 23 6f 00 00 | | | | |
|  |  | | | | |
| 2 | q-sort.c | 指令存储器加载： q-sort-riscv32-npc.bin-logisim-inst.txt，  数据存储器分别加载 ： q-sort-riscv32-npc.bin-logisim-data0.txt ~ q-sort-riscv32-npc.bin- logisim-data3.txt | | | |
|  | 程序执行周期数：999 | |  |  |  |
|  | 程序执行结果，数据存储器地址 M[0x314-0x360]中的数据排列结果： | | | | |
|  | 0xc5-0xd8字节：  RAM3：00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 09 0b 53  RAM2：00 00 00 00 00 00 00 00 00 01 01 01 02 06 13 2d 5b 89 53 72  RAM1：00 00 00 00 03 05 1f 2a 4e 5f 86 d4 bf 1a d6 c6 8d 68 2b 4e  RAM0：00 32 46 aa e8 dc 40 f8 20 90 a0 c0 20 80 20 c0 80 00 80 00 | | | | |
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