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| --- | --- | --- |
| Instruction number | Instruction | Hex |
| 000001 | set r1, 0x55 | 0Xe155 |
| 000002 | sset r1, 0x12 | 0Xe912 |
| 000003 | sset r1, 0x10 | 0Xe910 |
| 000004 | sset r1, 0x20 | 0Xe920 |
| 000005 | sset r1, 0x00 | 0Xe900 |
| 000006 | set r6, 0x22 | 0Xe622 |
| 000007 | sset r6, 0x06 | 0Xee06 |
| 000008 | sset r6, 0x02 | 0Xee02 |
| 000009 | sset r6, 0x11 | 0Xee11 |
| 00000a | eqv r3, r6, r1 | 0X03c7 |
| 00000b | sub r0,r0,r0 | 0X0801 |
| 00000c | lw r1, 0(r0) | 0X8100 |
| 00000d | lw r2, 1(r0) | 0X8201 |
| 00000e | lw r3, 2(r0) | 0X8302 |
| 00000f | addi r4, r4, 10 | 0X448a |
| 000010 | sub r4,r4,r4 | 0X0c91 |
| 000011 | add r4,r2,r4 | 0X0c50 |
| 000012 | slt r5,r2,r3 | 0X0d4e |
| 000013 | beq r5,r0,2 | 0X7502 |
| 000014 | add r2,r1,r2 | 0X0a28 |
| 000015 | beq r0,r0,-5 | 0X701b |
| 000016 | sw r4, 0(r0) | 0X8c00 |
| 000017 | jal func | 0Xf806 |
| 000018 | ror r6, r6, 8 | 0X6ec8 |
| 000019 | lw r4, 1(r0) | 0X8401 |
| 00001a | lw r5, 2(r0) | 0X8502 |
| 00001b | add r6, r6, r5 | 0X0ed4 |
| 00001c | beq r0,r0,-1 | 0X701f |
| 00001d | func: sub r0,r0,r0 | 0X0801 |
| 00001e | lw r1, 0(r0) | 0X8100 |
| 00001f | lw r2, 0(r1) | 0X8220 |
| 000020 | lw r3, 1(r1) | 0X8321 |
| 000021 | and r4,r2,r3 | 0X044c |
| 000022 | or r5, r2, r3 | 0X054d |
| 000023 | sw r4, 1(r0) | 0X8c01 |
| 000024 | sw r5, 2(r0) | 0X8d02 |
| 000025 | jr r7 | 0Xd701 |

Output

R0= 0x00000000

R1= 0x00000001

R2= 0x0000000a

R3= 0x0000000a

R4= 0x00000037

R5= 0x00000000

R6= 0x22060211

R7= 0x00000017

|  |  |
| --- | --- |
| Memory address | Value |
| 0x00000000 | 0x00000037 |
| 0x00000001 | 0x00000037 |
| 0x00000055 | 0x430a1f9b |
| 0x00000056 | 0x728cd2e3 |