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CSE 3666

Architecture Assignment 1

2/26/17

- | 1. | Address | Label | Instruction |
|----|------------------------------|-------|---------------------------|
| | [0040 002C] | | or \$t0, \$a0, \$zero |
| | Machine language: 0x00804025 | | |
| 2. | Address | Label | Instruction |
| | [0040 0030] | | sll \$t1, \$a1, 2 |
| | Machine language: 0x00054880 | | |
| 3. | Address | Label | Instruction |
| | [0040 0034] | | add \$t1, \$t0, \$t1 |
| | Machine Language: 0x01094820 | | |
| 4. | Address | Label | Instruction |
| | [0040 0038] | loop: | beq \$t0, \$t1, not_found |
| | Machine Language: 0x11090004 | | |
| 5. | Address | Label | Instruction |
| | [0040 003C] | | lw \$t2, 0 (\$t0) |
| | Machine Language: 0x8D0A0000 | | |
| 6. | Address | Label | Instruction |
| | [0040 0040] | | beq \$t2, \$a2, found |
| | Machine Language: 0x11460004 | | |
| 7. | Address | Label | Instruction |
| | [0040 0044] | | addi \$t0, \$t0, 4 |
| | Machine Language: 0x21080004 | | |
| 8. | Address | Label | Instruction |
| | [0040 0048] | | j loop |
| | Machine Language: 0x0810000E | | |

9.	Address	Label	Instruction
	[0040 004C]	not_found:	addi \$v0, \$zero, -1
	Machine Language: 0x2002FFFF		
10.	Address	Label	Instruction
	[0040 0050]		jr \$ra
	Machine Language: 0x03E00008		
11.	Address	Label	Instruction
	[0040 0054]	found:	sub \$v0, \$t0, \$a0
	Machine Language: 0x01041022		
12.	Address	Label	Instruction
	[0040 0058]		srl \$v0, \$v0, 2
	Machine Language: 0x00021082		
13.	Address	Label	Instruction
	[0040 005C]		jr \$ra
	Machine Language: 0x03E00008		