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ISA:

**C code :**

```
For( i=0; i<x; i++ )
```

```
    Sum = Sum + 2i;
```

**Mips Code :**

```
Lw $t0, 0($zero)
```

```
add $t1, #zero, $ zero
```

```
add $t2,$ zero, $zero
```

```
L1 : beq $t1, $t0
```

```
add $t2, $t2, $t1
```

```
add $t2, $t2, $t1
```

```
beq $zero, $zero
```

```
L2 : Sw $t2, 1($zero)
```

**ISA format :**

**000 = AND**

**001 = OR**

**010 = ADD**

**011 = Subtract**

**\$Zero = 00, \$t0 = 01, \$t1= 10, \$t2 = 11**

**Op RD RS RT = HEX conversion**

0011 01 00 00 = 0d0

0000 10 00 00 = 020

0000 11 00 00 = 030

1000 10 01 10 = 226

0000 11 11 10 = 03e

0000 11 11 10 = 03e

1111 10 10 01 = 3e9

1000 00 00 11 = 103

1011 11 11 00 = 2fc

**Operations = op\_code**

R-Format = 0000

I-Format = 1111

Lode (Lw) = 0011

Store (Sw) = 1011

Beq1 = 0100

Beq 2 = 1000

Project:

