

# Computer Organization

## Exercise 1

### Perform the following:

```
# Install QtSpim on your computer from http://spimsimulator.sourceforge.net/
# Read QtSpim's documentation and on-line help
# Store the following assembly code in a file named Exercise_1.s
```

```
    .data
N:    .word 0x00000006
mask: .word 0x66666666

    .text
main: lw $s0, N
loop: add $s1, $s1, $s0
      addi $s0, $s0, -1
      bne $s0, $zero, loop
#
      lw $s2, mask
      and $s3, $s1, $s2
      or $s4, $s1, $s2
#
end: j end
```

```
# Run QtSpim and load Exercise_1.s
# Execute this assembly code by using QtSpim's single step function (F10)
# Stop when you reach the label "end"
# Copy the contents QtSpim's registers pane (top pane) and print it
```