MARS SIMULATOR FOR ASSEMBLY

book + hw

Wed.

Download "MARS Simulator" from this website link:

http://courses.missouristate.edu/kenvollmar/mars/

click: "Download MARS 4.5 Software" (Aug. 2014)
after this is done, save the "MARS" software to a "icon" on the "Desktop" screen; then:

2. Download "java":

On the same "MARS" download page, I

click: "Download Java" (select the "Win 64" version Java to download)

3. Double click "MARS-j4" icon to start "MARS" simulator tool;

MARS SIMULATOR FOR ASSEMBLY

```
100 100 14
4. Create a new Assembly file:
   File->New->mars2.asm
5. Start typing the assembly file "mars2.asm":
        $t0, 28 < box 1 value
        $t1, 0x10010000 - mem address, base 16
        $t0, ($t1)
        $s0, $t0, $t0
        $s0, 20($t1)
        L1
   L1:
          add $s1, $s0, $t1
6. Save the file and run Assembly:
   File->Save->mars2.asm
   Run->Assemble
   click "Green light"
-What are the values in the registers: $t0, $t1, $s0, $s1?
```

-What is the address for "L1"? What is content stored inside the address 0x10010000? What is the address that the \$s0 save to?

MARS HOMEWORK

- - (4) What are the memory addresses that the \$50 and \$51 save to? 0×10010128 1

$$0 \times 100101 f0$$
 $400($\pm 1) = 0 \times 10010060$
 $0 \times 100101f0$