

TPS Activity 1

1. MARS - MIPS Assembler and Runtime Simulator

4. A. default

use the menu-bar File...Open or the Open icon to open Fibonacci.asm in the folder.

Click on the assemble button

Click on the green “run” button

No, you cannot run a program before assembling it

By clicking on the green “run” button with 1 on it

By clicking on the green “reset” button first and then the run button

TPS Activity 2

The .data directive gets global variable to use.

The .word directive declares the size of storage for the .data member.

The .text directive is where the code goes starting with main.

beq \$t3, \$0, finish means jump to the finish instructions ahead from beq if \$t3 == \$0

Line 15 jumps to the calculated address

To set a breakpoint, click on the execute tab, then go to the line you want to set a breakpoint and click on the box that sets the breakpoint.

After stopping at a breakpoint, to step through the code, press the green play button with a 1 at the top to step through one line at a time.

Look at the right side of the MARS gui and you can change the value of a register by finding the register you want to change, and change the value.

0x1001000, the 13th fibonacci number is 233.

A syscall instruction is used for system services that reads the number in \$v0. The value 1 in \$v0 is used to print the value in \$a0. The value 10 in \$v0 will exit and terminate execution.

