The Mic-1 Simulator

The Data Path

Contents of the method area (Hex)

Current register values (in Hex)

Contents of the constant pool area (Hex)

Contents of the stack area (Hex)
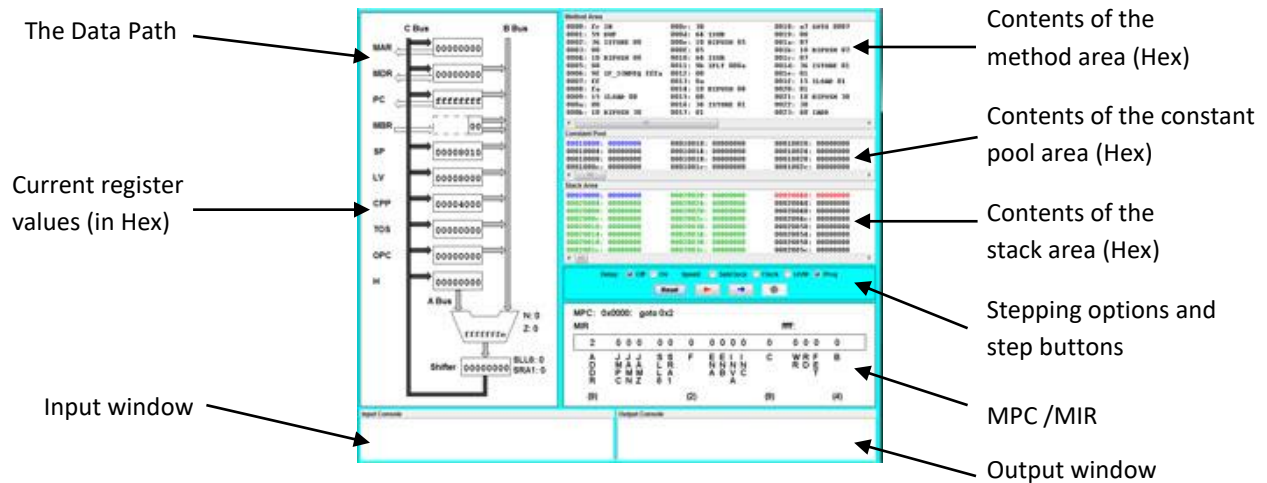
Stepping options and step buttons

Input window

MPC /MIR

Output window

How to use the simulator

- Write your ISA level program using the IJVM instructions listed in Figure 4.11. Type the source into a text file using a text editor. Give it a '.jas' extension.

- Load and assemble your program in the simulator using 'File -> Assemble / Load JAS file.'

- Select the stepping option for your run mode:
    - Prog: runs the entire program from beginning to end.
    - IJVM: runs the program pausing at every IJVM instruction.
    - Clock: runs the program by pausing at each microinstruction (see Figure 4.17)
    - Subclock: pauses at each subcycle of the clock cycle shown Figure 4.3.

- Run your program by clicking the right arrow button.

- The current IJVM instruction will be highlighted in the method area. The contents of the stack area as well as the constant pool will be displayed in their corresponding windows. If you choose the clock stepping option, you may view the current microinstruction being executed.