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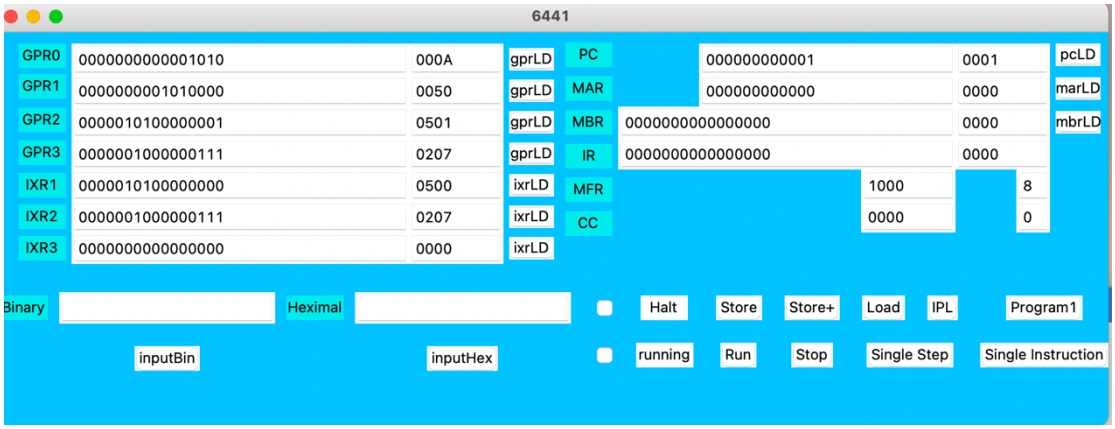

Input:
The user can input either a hexadecimal number or a binary number in the input panel.
Store:
Store the contents of the MBR register at the address specified by the contents of the MAR register.
Store+:
Perform a "Store" operation and increment the MAR register by one.
Load:
Load the memory contents of the address specified by the contents of the MAR register into the MBR register.
IPL:
Load “IPL.txt” .
Single Step:
Run a single stage (fetch/decode/execute).
Single Instruction:
Run one single instruction.
Run:
Run the emulator.
Stop:
Halt the machine by executing “halt” instruction
Program1:
This will load the contents of program1.txt for it to execute, the PC starts at 0x100.
Click Program1, then click run, the output of the Debug GUI interface displays the command being executed, Enter numbers in the console. Due to program problems, you need to click the console keyboard input button every time the Plz Input characters are printing on the

output. And finally the result is displayed in the Console Print of the IO GUI. The final result will be arranged vertically. If there is something you don't understand, please watch the demo video.

LD:

Click on LD to set its data to the data in input

Program2

This will load the contents of program 2.txt to execute, and the PC starts at 0x200.

Click "Program 2", then "Run" the output of the debug GUI interface will show the command being executed, enter a number in the console, a sentence in CR, and the desired word in the console. Program 2 will print the sentence in the console and require the user to enter a word. The paragraphs in the file are then searched into memory. The console prints out words, periods, and word numbers in sentences if it contains the word.