ECE3520 Lab Session 3:

Using AVR Studio

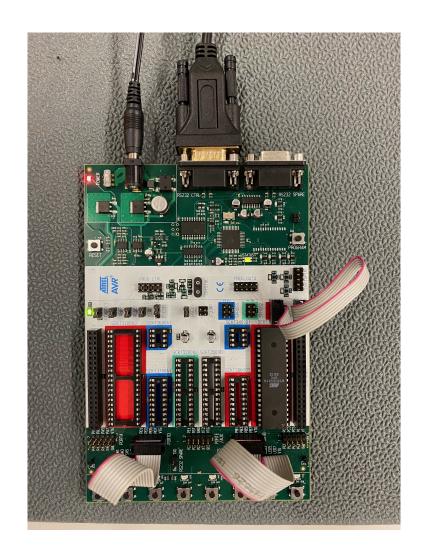
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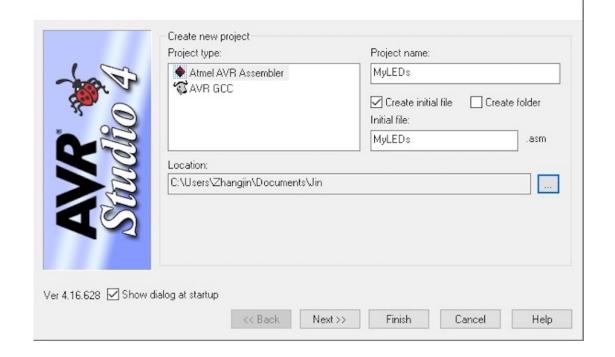
Step-1: Configure Experiment

- Configure STK500 as experiment 1
- Open AVR Studio as experiment 2
- Turn on the power of STK500



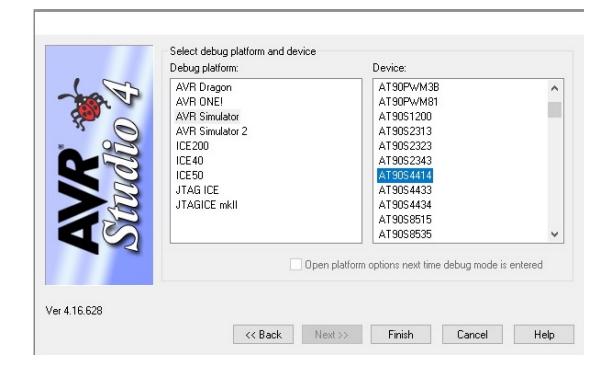
Step-2: Create Assembler Project

- Open New Project dialog box (Project->New Project)
- Create a new AVR Assembler project
- Select Atmel AVR Assembler
- Name project as MyLEDs



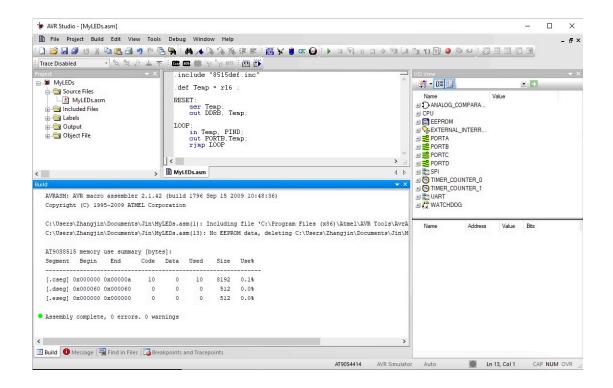
Step-3: Select Platform and Device

- Click Next and select AVR Simulator
- Select AT90S4414 in Device box
- Click Finish



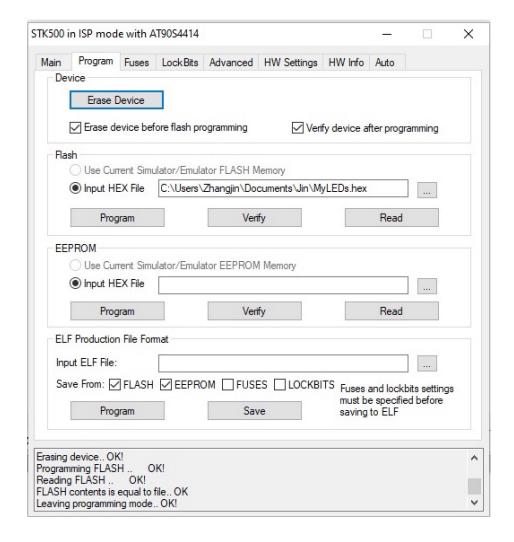
Step-4: Build Program

- Maximize the editor window
- Type in the following assembly program
- Save and assemble the program (Build->Build)
- Make sure no errors or warnings



Step-5: Download Hex Program

- Click AVR button on toolbar as did in Experiment 2
- Open STK500 Programmer
- Open Program tab, and select MyLEDs.hex file (in your source directory) for input Hex file
- Erase device before flash programming
- Press 'Program' button in Flash section



Step-6: Test and Observe

- Press switches on STK500 board
- Observe patterns of LED blink

