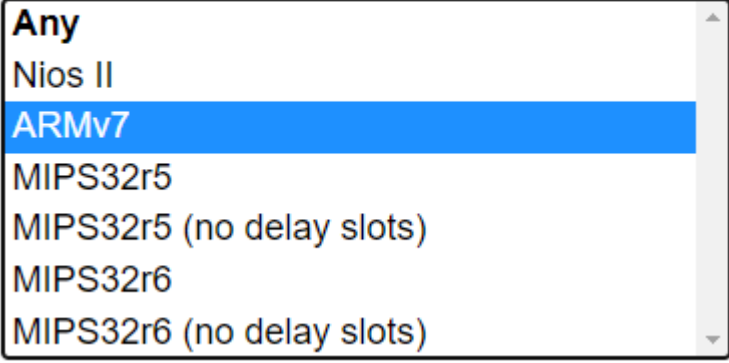


1. Go to website <https://cpulator.01xz.net/>
2. Choose ARMv7 Architecture

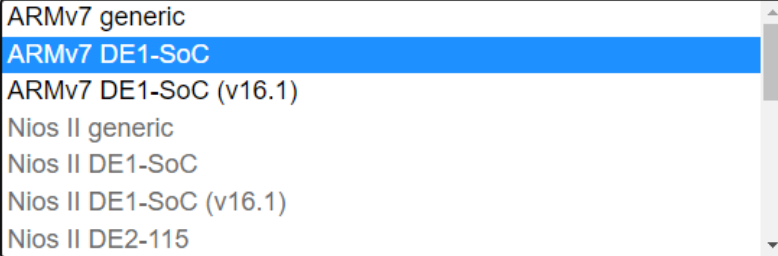
Architecture



A dropdown menu for selecting the architecture. The options are: Any, Nios II, ARMv7 (highlighted in blue), MIPS32r5, MIPS32r5 (no delay slots), MIPS32r6, and MIPS32r6 (no delay slots).

3. Select ARMv7 DE1-SoC system and click "GO"

System

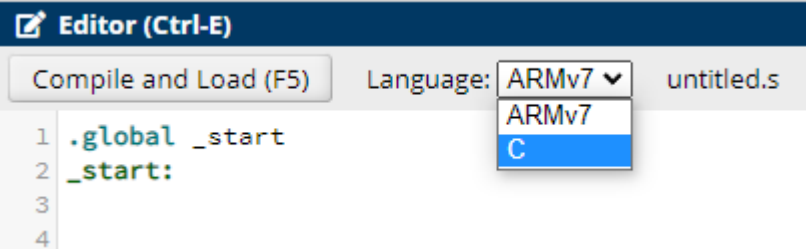


A dropdown menu for selecting the system. The options are: ARMv7 generic, ARMv7 DE1-SoC (highlighted in blue), ARMv7 DE1-SoC (v16.1), Nios II generic, Nios II DE1-SoC, Nios II DE1-SoC (v16.1), and Nios II DE2-115.

-de1soc

Go

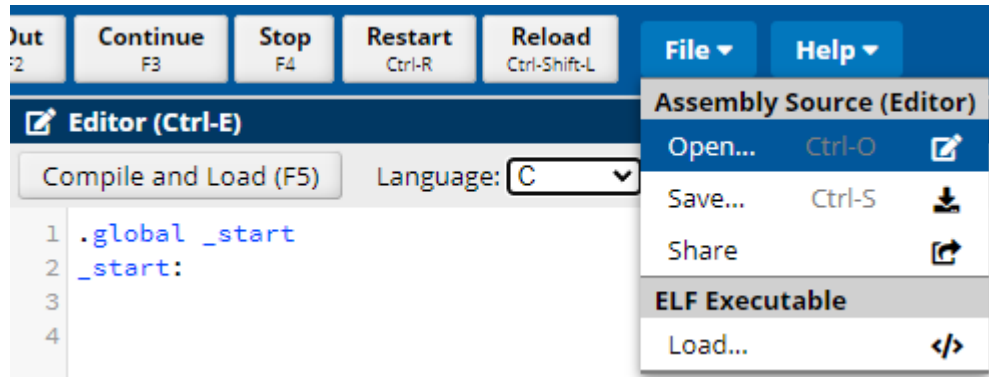
4. In the editor window, change the language to C



A screenshot of the editor window. The title bar says "Editor (Ctrl-E)". Below it is a toolbar with a button "Compile and Load (F5)" and a "Language:" dropdown menu. The dropdown menu is open, showing "ARMv7" (selected), "ARMv7", and "C". To the right of the dropdown is the text "untitled.s". Below the toolbar is a code editor with the following code:

```
1 .global _start
2 _start:
3
4
```

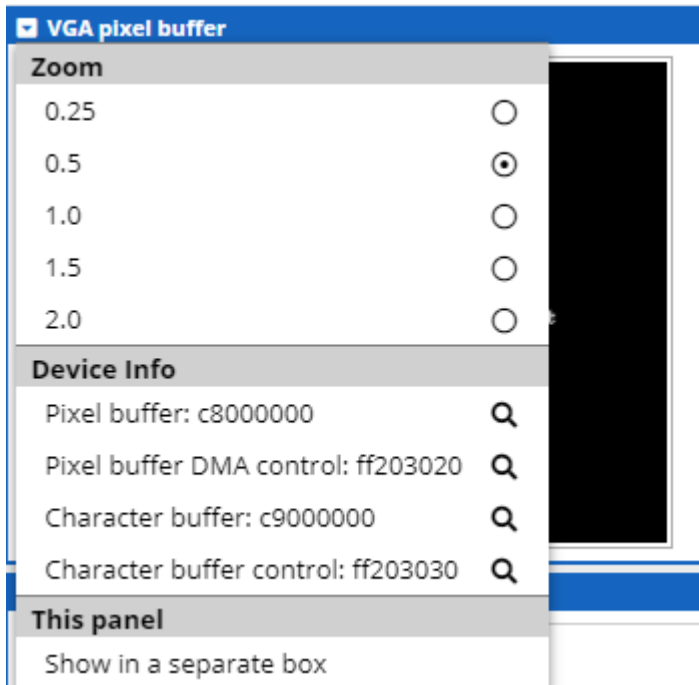
5. Now upload the C code file



6. Then click "Compile and load"
7. After the compilation is completed, click "Continue"
8. The program now is running



9. You can adjust VGA output



10. The Switches and Buttons are on the top of the Devices section

