

Computer Architecture Lab Assignment 3

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Building a RISC V Assembler

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How to run the code on your linux system:

- 1) Specify the testcase file name in the main function. There are 4 pre-existing testcase files, testcase-R.s, testcase-I.s, testcase-S.s, and testcase-BJU.s. To use a different testcase file, first save it in the code directory, and specify it in the main function as follows:

```
ifstream file("testcase-x.s")
```

- 2) To compile the code and generate the executable file, enter the following command on your terminal:

```
make
```

- 3) To execute the compiler program, enter the following command on your terminal:

```
./riscv_asm
```

- 4) The machine code output is obtained in the out.hex file.