

## Performance Modeling - RISC-V processor

This will be an INDIVIDUAL project

程序代写代做 CS编程辅导

### Phase 1: (Due November 7th 11:59PM)

- 1) Draw the schema processor and fill in your code in the provided file to run the simulator.
- 2) Measure and report execution cycles, and Instructions per cycle by adding performance monitor. Make sure you output these values to a file.
- 3) What optimizations or features can be added to improve performance? (Extra credit)



Your code will be tested against 10 test cases. 3 of which will be released 5 days prior to your submission. (2nd November)

WeChat: cstutorcs

### Notes:

## Assignment Project Exam Help

1. Please modify the existing code to use the correct way to handle folder paths. (Use `os.path.join()` instead of hardcoding OS dependent forward/back slashes).
2. You'll only submit a zipped folder named `netID.zip`

Email: [tutorcs@163.com](mailto:tutorcs@163.com)

Make sure you follow the folder structure shown below.

Your code will be in one folder named `netID` with an entry point file (`main.py` or `main.cpp`).

There'll be a second folder called `input/` with each subfolder named `testcase0/`, `testcase1`, etc., and each of these test cases will contain 2 files, `imem.txt` and `dmem.txt`.

https://tutorcs.com

After running your code, a third folder should be created as an output folder with the name `output_netID/` with subfolders named `testcase0/`, `testcase1`. Each subfolder must contain 4 files: `PerformanceMetrics_Result.txt`, `SS_DMEMResult.txt`, `SS_RFResult.txt`, `StateResult_SS.txt`.

3. A sample test case is already on brightspace under the project section.

```

Project root
|
|_ input/
|   |_ testcase0
|       |_ imem.txt
|       |_ dmem.txt
|   |_ tes
|   |_ tes
|   |_ tes
|
|_ netID/
|   |_ main.py (or) main.cpp
|   |_ additional_folders_and_files
|   |_ README (in case there's anything you want to mention about your code/dependencies)
|
|_ output_netID/
|   |_ testcase0
|       |_ PerformanceMetrics_Result.txt
|       |_ SS_DMEMResult.txt
|       |_ SS_RFResult.txt
|       |_ StateResult_SS.txt
|   |_ testcase1
|       |_ PerformanceMetrics_Result.txt
|       |_ SS_DMEMResult.txt
|       |_ SS_RFResult.txt
|       |_ StateResult_SS.txt

```

**程序代写代做 CS编程辅导**



**WeChat: cstutorcs**



**Assignment Project Exam Help**

**Email: tutorcs@163.com**

**QQ: 749389476**

**<https://tutorcs.com>**

Solve with your folder structure as:

Name	Status	Date modified	Type
input		11/1/2023 5:43 PM	File folder
netid		11/1/2023 5:48 PM	File folder

After running

```
$ python3 netid/main.py
```

The expected output folder structure should be as follows:

Name	Status	Date modified	Type
input	程序代写代做CS编程辅导	11/1/2023 5:43 PM	File folder
netid		11/1/2023 5:48 PM	File folder
output_netid		11/1/2023 5:54 PM	File folder



You will be submitting your assignment, and the PDF report along with it on brightspace.  
Do not upload the input file.

WeChat: cstutorcs

Assignment Project Exam Help

Email: [tutorcs@163.com](mailto:tutorcs@163.com)

QQ: 749389476

<https://tutorcs.com>