

CS 475: Parallel Programming

Computer Science Department

Fall 2016

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Parallel programming is becoming increasingly critical for computer scientists/engineers. All new machines are now parallel. There is already a movement suggesting that all students be taught parallel programming in the introductory courses, sequential programming being viewed as a special case. However, parallel programming is not easy. For current CPUs, it requires awareness of the multicore architecture, the cache hierarchy, and in some cases, the vector floating point capabilities

This course will teach you the basic concepts of designing, writing, debugging, and analyzing parallel programs. It covers the two main paradigms: shared memory, and message passing. We will also examine a number of parallel algorithms for a range of problems.

Instructor:

[Sanjay Rajopadhye](#)

Office: 340 CS Building

Office Hours: Tue, Thur: 10:00-11:00 AM

Email: cs475@cs.colostate.edu

GTA:

Swetha Varadarajan

Office: 335 CS Building

Office Hours: (In Lab 120) Mon:9:00-11:00,Tue:3:00-5:00

Email: cs475@cs.colostate.edu

Lecture Time and Place:

12:30-1:45, Tue, Thur, CSB Room 130

Recitation 1 Time and Place:

8:00-9:40, Thur, CSB 225

Recitation 2 Time and Place:

5:00-6:40, Thur, CSB 225

Click the "Guest" link

News:

[Some guidance on reports](#)

Welcome to cs475 and cs475 SL

First day of class is Tuesday, August 23, 2016

Session Time 13:00:00

Client IP: 172.16.124.243

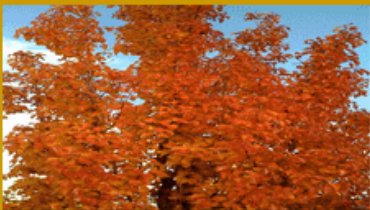
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CS Login:

CS Password:

2. Fill in the details

For undergraduates, your login should match your EID that you use to access RamPoint, RamWeb, etc.

Session Time 26 Secs.
Originating IP 76.120.124.243
User: Guest

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You are logged in as CS475 Instructor

[Logout](#)

3. Click the Checkin Tab

Session Time 0 Secs.
Originating IP 76.120.124.243
User: *Instructor*

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SERVER TIME



PA1.1: PA1 Phase 1

OPEN

**4. Click the OPEN for PA1.1 or PA1.2 or PA1.R
(whichever you are submitting)**



PA1.2: PA1 Phase 2

OPEN



PA1.R: PA1 Report

OPEN

Session Time 79 Secs.

Originating IP 76.120.124.243

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PA1.1: PA1 Phase 1 [CLOSE](#)

Posted Date: Monday, 08-29-2016 @ 17:00

Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Cannot find submission!

Submission Status: Absent	REVIEW
BROWSE... PA1.1.TAR	SUBMIT
Preliminary Testing: Not Tested	DETAILS
Final Grade: Not Graded	DETAILS

5. Browse for your appropriate tar file and SUBMIT

PA1.2: PA1 Phase 2 [OPEN](#)

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SERVER TIME

By submitting this code I confirm that I have not given, received, or used unauthorized assistance!

6. Confirm the honor pledge

OK

PA1.1: PA1 Phase 1 **CLOSED**

Posted Date: Monday, 08-29-2016 @ 23:59

Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Cannot find submission!

Submission Status: Absent

REVIEW

BROWSE... PA1.1.TAR

SUBMIT

Preliminary Testing: Not Tested

DETAILS


Final Grade: Not Graded

DETAILS

PA1.2: PA1 Phase 2 **OPEN**



SERVER TIME

 **PA1.1: PA1 Phase 1** [CLOSE](#)

Posted Date: Monday, 08-29-2016 @ 17:00

Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Current submission: Thursday, 09-08-2016 @ 02:38

Submission Status: Present	REVIEW
BROWSE... NO FILE SELECTED.	SUBMIT
Preliminary Testing: Pending	DETAILS
Final Grade: Not Graded	DETAILS

7. You can notice the "Green Tick" indicating that your submission is Present. You can see the "Preliminary Testing" is pending.

If you submit a file with different name, the submission will not be accepted and a prompt will ask you to re-submit.

 **PA1.2: PA1 Phase 2** [OPEN](#)

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You are logged in as CS475 Instructor

[Logout](#)

8. Preliminary testing takes about 2-3 minutes. So, allow 3-5 minutes between successive submissions so as not to over-load the server. You have to **logout and login again to view your score on Preliminary Testing.**

Session Time 488 Secs.

Originating IP 76.120.124.243

User: Instructor

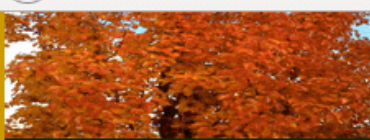
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**In order to logout, click your user name.
This screen will appear**



SERVER TIME

PA1.1: PA1 Phase 1 [CLOSE](#)

Posted Date: Monday, 08-29-2016 @ 17:00

Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Current submission: Thursday, 09-08-2016 @ 02:43

Submission Status: Present

[BROWSE...](#) NO FILE SELECTED.

Preliminary Testing: 0 / 5

Final Grade: Not Graded

- [REVIEW](#)
- [SUBMIT](#)
- [DETAILS](#)
- [DETAILS](#)

9. You get an ! mark if your Preliminary Testing fails. You can click DETAILS to verify what went wrong and submit again.

PA1.2: PA1 Phase 2 [OPEN](#)

PA1.1: PA1 Phase 1 [CLOSE](#)

Posted Date: Monday, 08-29-2016 @ 17:00

Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Current submission: Thursday, 09-08-2016 @ 02:43

Submission Status: Present	REVIEW
BROWSE... NO FILE SELECTED.	SUBMIT
Preliminary Testing: 0 / 5	DETAILS
Final Grade: Not Graded	DETAILS

10. Sample Error in my submission

Preliminary Testing:

```
testCompile Score: 0 / 1
```

```
-----  
TEST: testJacobi1D CMD LINE: ./jacobi_1D 4000 200000 | sed 's/time.*$//'
```

```
The cmd line is: timeout 500s ./jacobi_1D 4000 200000 | sed 's/time.*$//'
```

Your Output/Master Output:


```
timeout: failed to run command './jacobi_1D': No such file or directory
```

CS 475 Checkin - Mozilla Firefox

CS 475 Checkin

https://www.cs.colostate.edu/~cs475/f16/home_checkin.php#form1:PA1.1

SERVER TIME

 **PA1.1: PA1 Phase 1** [CLOSE](#)


Posted Date: Monday, 08-29-2016 @ 17:00


Due Date: Sunday, 09-11-2016 @ 23:59

Late Deadline: Sunday, 09-11-2016 @ 23:59

Current submission: Thursday, 09-08-2016 @ 03:15

Submission Status: Present	REVIEW
BROWSE... NO FILE SELECTED.	SUBMIT
Preliminary Testing: 5 / 5	DETAILS
Final Grade: Not Graded	DETAILS

 **PA1.2: PA1 Phase 2** [OPEN](#)

 **PA1.R: PA1 Report** [OPEN](#)

11. You need to pass the Preliminary testing by the end of Late Deadline. After which you won't get any chance to re-submit your assignment.

If you fail the Preliminary test, your code will not pass final testing and you will get a zero in the assignment.

So, submit your code well before the dead-line and make sure to pass the Prelims.

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[SERVER TIME](#)

12. You can verify the time by clicking "SERVER TIME" and you get a window on your right



PA1.1: PA1 Phase 1

[OPEN](#)



PA1.2: PA1 Phase 2

[OPEN](#)



PA1.R: PA1 Report

[OPEN](#)

www.cs.colostate.edu says:

Server Time: Thursday, 09-08-2016 @ 03:59

OK

e

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