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My courses
COP 4338 - Programming III (Section U01)
All courses ...

Weekly outline

News forum
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Course syllabus

22 August - 28 August

8/23 (Tuesday): course introduction.
8/25 (Thursday): editing and compiling source code.
today's source code: multifiles.tar.gz

29 August - 4 September

8/30 (Tuesday): basic C.
Today's source code: wc.tar.gz
9/1 (Thursday): introduction to pointers.
We continued with the wc example (from last time).
Today's source code: addresses.tar.gz.

5 September - 11 September

9/6 (Tuesday): continue with pointers and arrays.
Homework 1 (due at 23:55 on 9/15; extended to 23:55 on 9/19)
9/8 (Thursday): we hope we could finish pointers and arrays today.
Today's source code is also included addresses.tar.gz (we updated it to add two more examples).

12 September - 18 September

9/13 (Tuesday): more on pointers, pointers and pointers...

Latest News
Add a new topic...

2 Dec, 11:29
Jason Liu
unrelated topic: lost watch more...

22 Nov, 15:31
Jason Liu
summer internship opportunity more...

17 Nov, 23:18
Jason Liu
homework 6 is posted on moodle. more...

26 Oct, 16:39
Jason Liu
tomorrow's class more...

25 Oct, 17:56
Jason Liu
Another Sad News more...

Older topics ...

Upcoming Events
There are no upcoming events

Go to calendar...
New Event...

Recent Activity
Activity since Monday, 23 January 2012, 12:55 AM
Full report of recent activity...

Nothing new since your last login

9/15 (Thursday): multi-dimensional arrays, function pointers, memory allocation, program structure...

We still use the example code from previous lecture.

19 September - 25 September

9/20 (Tuesday): variable scope, memory map, and structs.

Today's source code: structs.tar.gz

9/22 (Thursday): structs and deque example.

Today's source code: deque.tar.gz

Homework 2 (due at 23:55 on 10/3)

26 September - 2 October

9/27 (Tuesday): everything about files.

9/29 (Thursday): Finish up file I/O.

Today's source code: filecopy.tar.gz

3 October - 9 October

10/4 (Tuesday): introduction to processes.

Today's examples: processes.tar.gz.

10/6 (Thursday): continue with processes.

Tuesday's processes example has been updated.

10 October - 16 October

10/11 (Tuesday): dup and dup2.

Tutorial: Unix multi-process programming and inter-process communications (IPC)

Homework 3 (due at 23:55 on 10/24)

Last week's processes example has been updated to include mysort.c.

10/13 (Thursday): we discuss solutions to programming assignment 3.

A preliminary version of the program that works for pipes, but not redirects.

17 October - 23 October

10/18 (Tuesday): programming with pthreads.

Today's hands-on example: pthread helloworld.

POSIX threads programming (a tutorial by Blaise Barney at Lawrence Livermore National Laboratory)

10/20 (Thursday): thread synchronization: mutual exclusion.

Today's hands-on example: bank.c.

24 October - 30 October

10/25 (Tuesday): Continue with thread synchronization: conditional variables.

10/27 (Thursday): Review of homework assignment and GDB.

Homework 4 (due at 23:55 on 11/7)

GDB tutorial (from http://www.eecs.umich.edu/~sugih/pointers/summary.html)

GDB tutorial - A Walkthrough with Examples (by Samuel Huang at UMD)

31 October - 6 November

11/1 (Tuesday): Inter-process communication (IPC): message queue (by Rong Rong)

11/3 (Thursday): Inter-process communication (IPC): shared memory (by Rong Rong).

Also, inter-process communication (IPC): semaphore (by Rong Rong).

Hands-on code: message queue.

Hands-on code: shared memory.

Hands-on code: semaphore.

7 November - 13 November

11/8 (Tuesday): Review homework assignment and learn about GDB.

Today's lecture note.

Homework 5 (due at 23:55 on 11/16); the deadline is extended to 11/21 23:55)

A diagram showing block-wise matrix multiplication.

Source code for the homework: matmult.tar.gz.

11/10 (Thursday): We discuss homework 5 today.

14 November - 20 November

11/15 (Tuesday): programming with MPI.

Hands-on source code for the circuit satisfiability problem.

Information about SCIS starscream cluster for MPI programming.

MPI tutorial at Lawrence Livermore National Laboratory (LLNL).

11/17 (Thursday): a walk-through of MPI.

Homework 6 (due at 23:55 on 12/1; note that this is a hard deadline, no late submissions allowed)

Text files for your program: Moby Dick, War and Peace.

21 November - 27 November

11/22 (Tuesday): We start the topic on network socket programming.

Socket programming tutorial

Hands-on code for today: socket.tar.gz

Beej's Guide to Network Programming -- Using Internet Sockets

11/24 (Thursday): **HAPPY THANKSGIVING**. No class today.

28 November - 4 December

11/29 (Tuesday): We continued with the discussion on socket programming.

12/1 (Thursday): static and shared libraries.

Hands-on example for today: makelib.tar.gz.

5 December - 11 December

Final Exam Week. We are done!

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