

Exam Review (preview)

15-213/18-213: Introduction to Computer Systems
28th (and last) Lecture, 30 April 2015

Instructors:

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Today

- Final Exam

Final Exam (online)

- Please go to GHC 5205. If it is full, you may be redirected to GHC 3000, GHC 4301, or WeH 4207
- 5/4/15 – 5/7/15, 10am – 10pm
- Everything from lecture, the book and labs is fair game...
- Closed-Book, 2 double-sided notes page
- Sign up link is up:
<https://www.ugrad.cs.cmu.edu/examreservation/>

Final Topics (from mid-term)

- **Assembly Code**
 - Assembly to C translation
 - Stack management
- **Structure Alignment**
- **Ints, Floats**
- **Cache**

Final Topics (new)

- **Process Control**
- **Signals**
- **File I/O**
- **Memory Layout**
- **Virtual Memory**
- **Dynamic Memory**

Final Topics (new)

■ Concurrency + Thread Safety

- Reader / Writer Locks, mutex, semaphore
- Starvation, deadlock
- What makes a function thread-safe vs unsafe?

■ Networking

- Understand notion of sockets and ports

Summary

- Exam

- Don't forget to do the course evaluation

- Next Time:

- There is no next time 😞