Advanced Topics in Operating Systems

Instructor: Zonghua Gu

Logistics

Time: Wed 18:30-20:05pm

Location: Cao Guangbiao West Building 202

Instructor: Zonghua Gu

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Website:

http://www.cs.zju.edu.cn/people/zgu/OS/

Grading Scheme

- Final Exam: 50%
 - Covers PPTs on the website
 - Does not include the papers and videos.
- Project: 50%
 - Each group of 1-3 students
 - I will post some suggested ideas
 - You can also propose your own project idea
 - Can be based on your own thesis topic, as long as it is related to course content
 - Must be approved by me
 - Project report due in final exam week. Minimum 4 pages, in English or Chinese. Do not send me source code.
 - Most students get full 50 points [©]
- 本课程不点名, 凭个人兴趣上课, 上课提问回答不计分。

Course Topics

- No textbook.
- I will introduce the latest research papers, and give you an overview of the recent research progress on the following topics (tentative):
 - Multicore Architecture
 - Multicore OS
 - Multicore Scheduling & Synchronization
 - GPU Resource Management
 - Security: Android, Browser
 - **—** ...
- The course objective is to give a broad overview of the state of the art, instead of digging deep into any specific topic.

Teaching Method

- I will sometimes play and discuss some videos in class, mainly talks from computer systems conferences from USENIX, ACM/IEEE.
- The videos will be put online, along with the slides