Lecture0. Introduction

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Note Taking Area

Zoom or bilibili lives are both fine, but bilibili is better.
Homework would start at next week (week 1).

Course introduction

Goal: work for famous companies, to be a hacker or avoid to be hacked, and to do system research.

FAT32 can contain 8TB partition size and 4GB single file size.

System admin (who design systems) vs programmer.
Full stack: either very strong, or very weak.
C/C++ is required for this course, as well as DSAA.
Reference book: Operating System Concepts, Operating Systems Principles & Practice, 操作系统课程设计.
Read Linux kernel code after each class.

Try to be a contributor of Linux Kernel -> A+.

Assessment

Continuous Assessment: 50%. Class participation 20%, lab exercises 20%, project tutorial 10%.

- 10 lab assignments, and 2 points for each lab.
- Project 1: read some papers and give a hands-on tutorial.
- Project 2: build a system / storage system by a published paper.
  - PloarFS and PaxosStore, 4-5 per group, bonus for opening source.

Exam: 50%. Mid-term examination 20%, final examination 30%.

Acknowledgements

Notes and examples: Dr. Eric Lo's offering in CUHK, Dr. Ion Stoica in Berkeley, Dragon book course materials.
Google images, Stack overflow, Linux community.

Cue Column

Off topics

This is a tough course, no spoon-feeding. No cheating-sheet.
CUHK suggestion: don't take too many other courses when you take this course.
Exams cover EVERYTHING in this course.
Project gets more than 90, or lab gets more than 950 may get A+.
Attendance less than 8 / 10, project less than 86 may fail.
Average of 2 exams: 52.9 and 53.6 points.

Summary

1. Course introduction: references and special rules.
2. Assessment: 50% - 50%.