

# Introduction

Andrei Pitiş

Advanced Operating Systems

October 5, 2011

The Team

Lecture

Project

Grading

Resources & Information

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Resources & Information

- ▶ Andrei Pitiş (andrei.pitis@cs.pub.ro)
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1. Booting
2. Fast Userspace Mutex
3. Read-Copy-Update
4. Locking vs. Transactional Memory
5. Exploiting Concurrency Vulnerabilities in System Call Wrappers
6. User-mode Linux
7. Xen and the Art of Virtualization
8. Power Management
9. TCP & CRC Checksum
10. Pointer Tainting
11. Distributed File Systems

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Lecture

**Project**

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- ▶ Learn about research tools and methods
- ▶ Choose a team (2-4 students)
- ▶ Propose a project (systems domain)
- ▶ Develop the project and obtain results
- ▶ Present the results
- ▶ Write a paper
- ▶ Submit the paper to a conference/journal
- ▶ Review other papers



The Team

Lecture

Project

**Grading**

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- ▶ 5 points Lecture & Final Exam + 5.5 points Project
- ▶ Lecture & Final Exam:
  - ▶ 4 points - Final Exam
    - ▶ open book
    - ▶ 11 or 12 tasks (one for each lecture) - only 9 tasks are graded
    - ▶ 1/10 starting grade
    - ▶ 60 minutes
  - ▶ 1 point - Small tests at the end of each lecture
  - ▶ A “positive” rounding may be applied to students active at various lectures

- ▶ Project:
  - ▶ Activity during the semester:
    - ▶ 0.5 points - Assignment (week 2)
    - ▶ 0.5 points - Project proposal (week 2)
    - ▶ 0.5 points - Half semester presentation (week 8)
    - ▶ 1.0 point - Final Presentation (week 14)
  - ▶ 2.0 points - Paper
  - ▶ 0.5 points - Peer review of other projects
  - ▶ 0.5 points - Bonus if you submit your paper to a conference/journal

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`http://elf.cs.pub.ro/soa`