

Operating Systems and Systems Programming

CS162 Teaching Staff

Who am I?

Prashanth Mohan

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Office Hours: 11-12pm Tu W at 411 Soda Hall

Research:

Data Security

Tech for Sustainability

More administtrivia...

- Register on Piazza!
- User accounts
- Project teams to be formed by 1/23 11:59 PM
- Finalize preference of discussion sections (give at least 2 choices)
- **All project members MUST attend same discussion section!!**

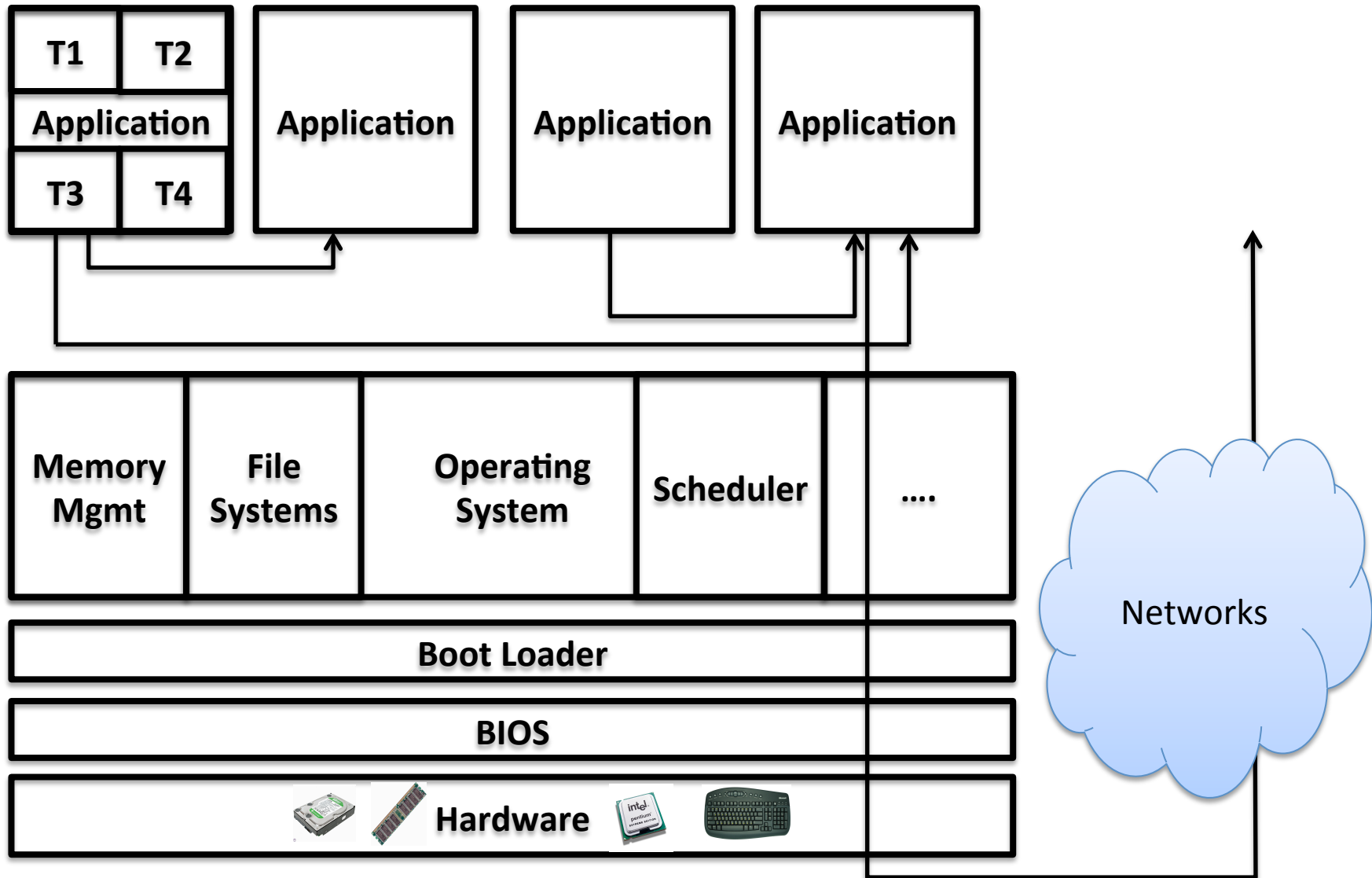
Project Goals

- Learn to work in teams
- Use good engineering practices
 - Version control, collaboration
 - Requirements specification
 - Design Document
 - Implementation
 - Testing
 - [Performance, reliability, ...] analysis
- Understand lecture concepts at the implementation level

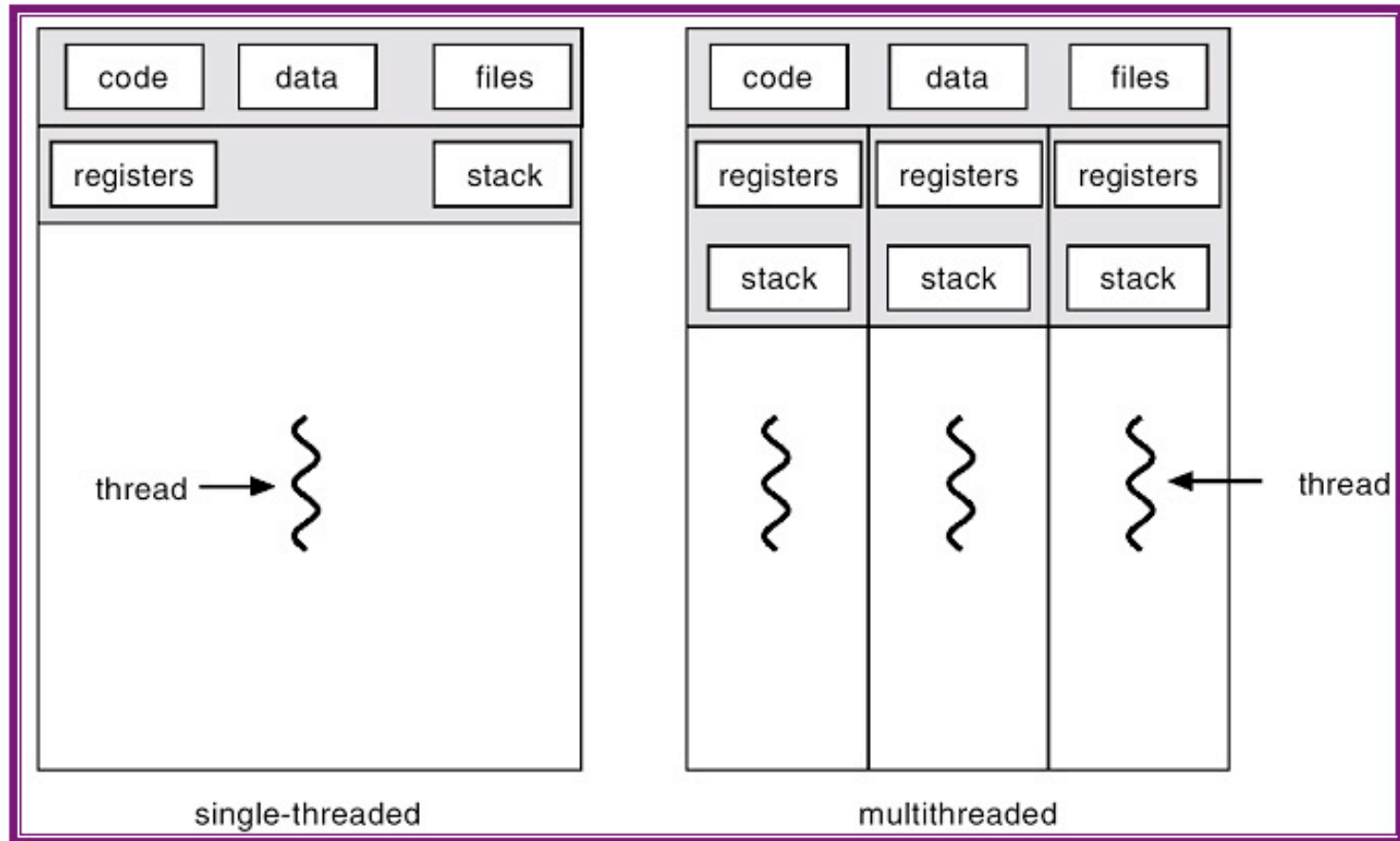
Good Project Lifetime

- Day 0: Project released on course webpage
- Day 1 - 13: Team meets, discusses and breaks up work on design and necessary prototyping
- Day 14: Final design document due
 - Team reviews the document with TA
- Day 15: Implementation begins
- Day 20: Implementation is finished. Team switches to writing test cases. Design doc has been updated to reflect the implementation.
- Day 21: Iteration and performance analysis.
- Day 23: Team puts finishing touches on write up and gets to bed early.

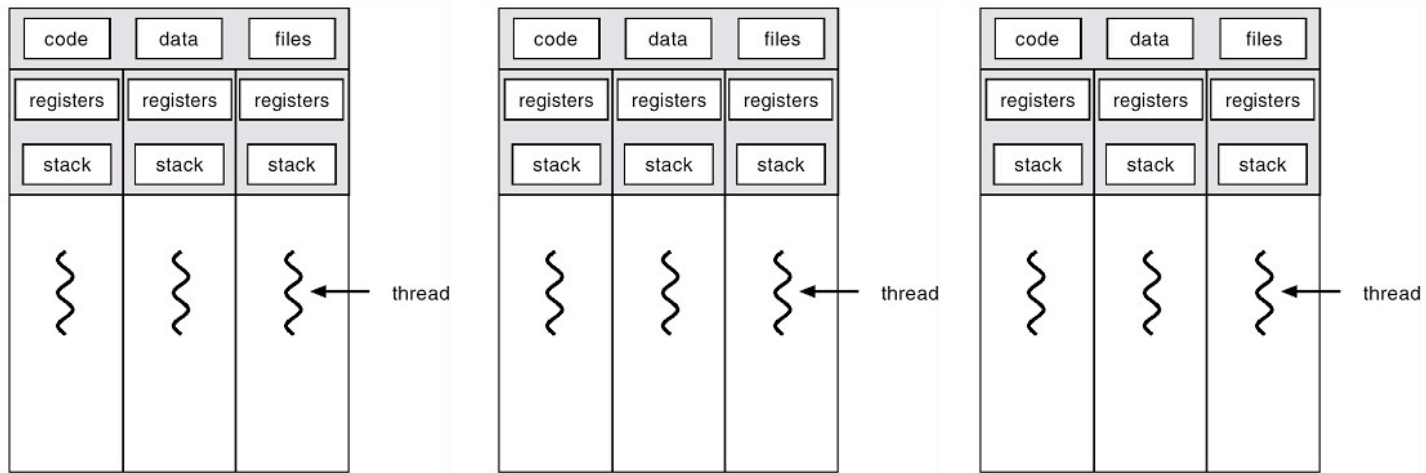
A computer boot sequence



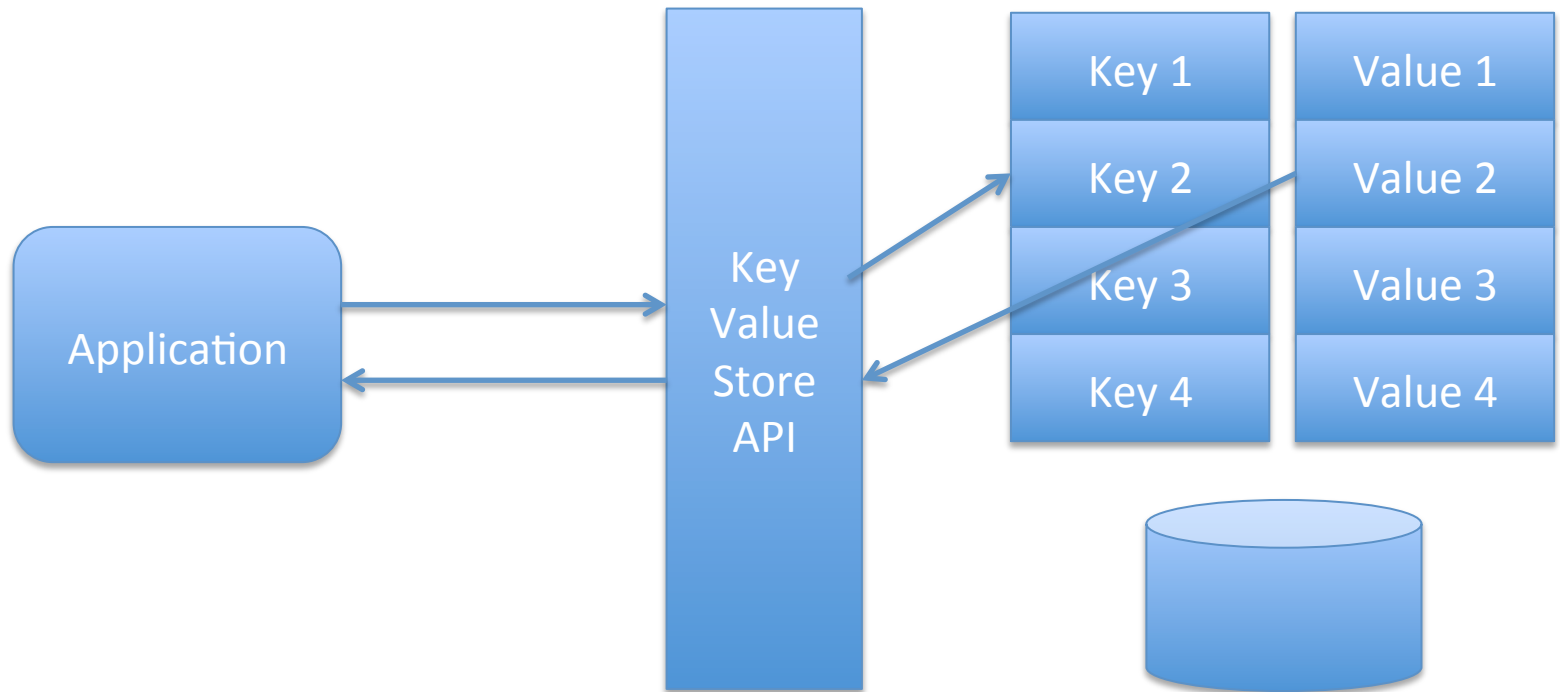
Project 1: Thread Programming



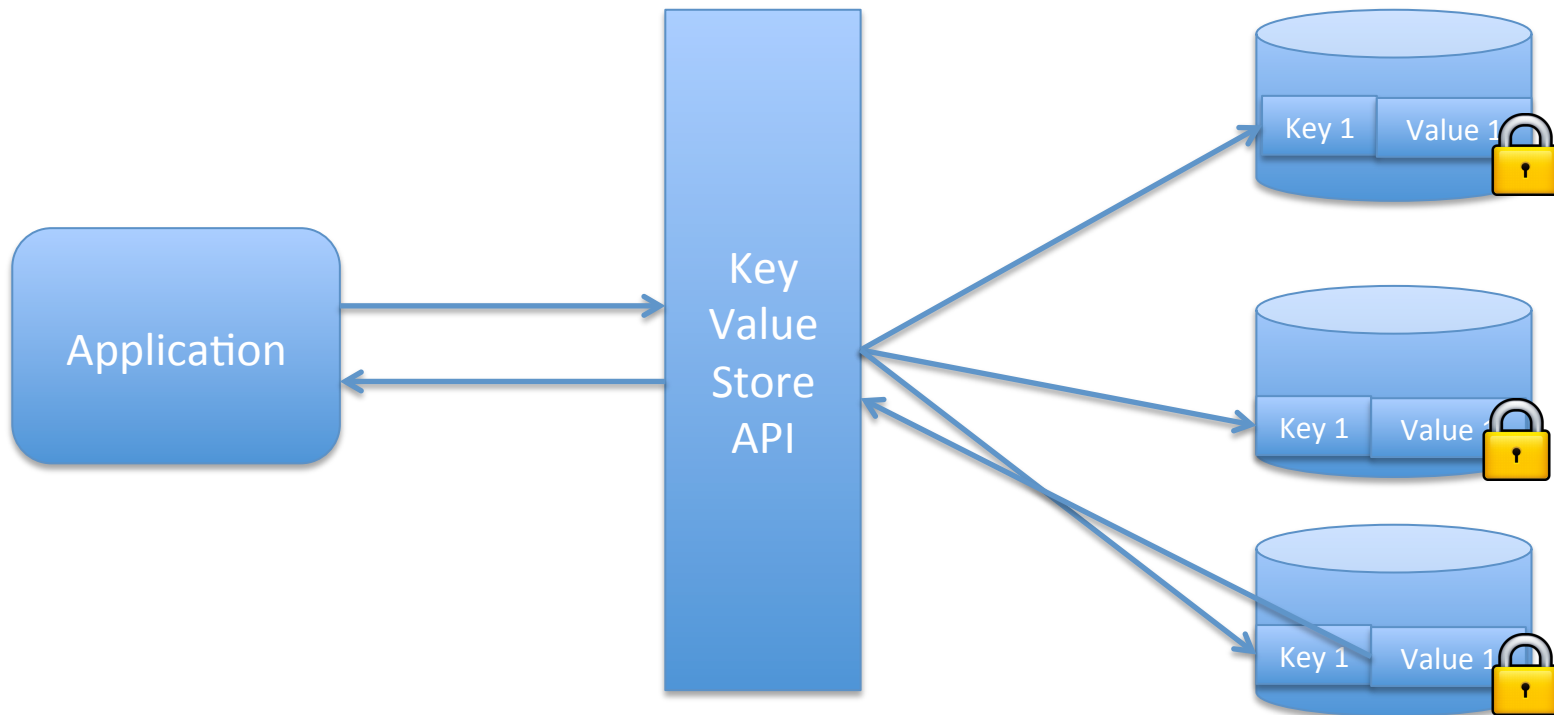
Project 2: Multiprogramming



Project 3: Key Value Store



Project 4: Distributed KV Store



Questions about the course...

What is a System?

A set of “things” **working together**
as parts of a “mechanism” or an
interconnecting network.