

Why do we need operating systems?



Why learning about operating systems

- An exciting time for building operating systems
New hardware, smart devices, self-driving cars, data centers, etc.
Facing OS issues in performance, battery life, security, isolation
- Pervasive principles for systems in general
Caching, concurrency, memory management, I/O, protection
- Understand what you use
System software tends to be mysterious
Understanding OS makes you a more effective programmer
- Complex software systems
Many of you will go on to work on large software projects
OSes serve as examples of an evolution of complex systems