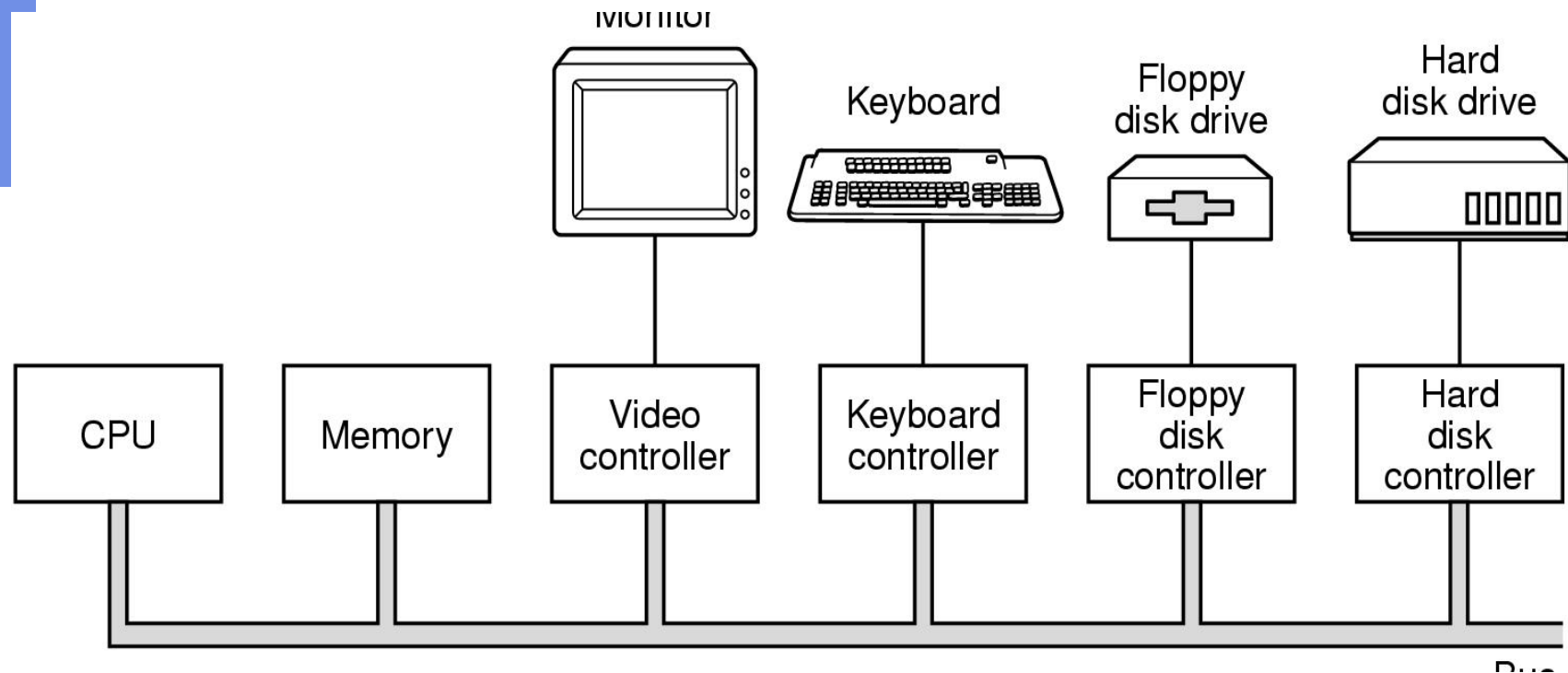
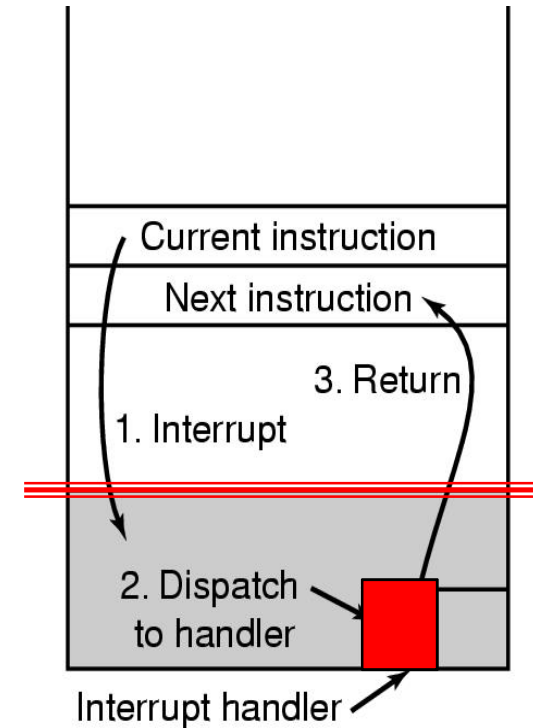
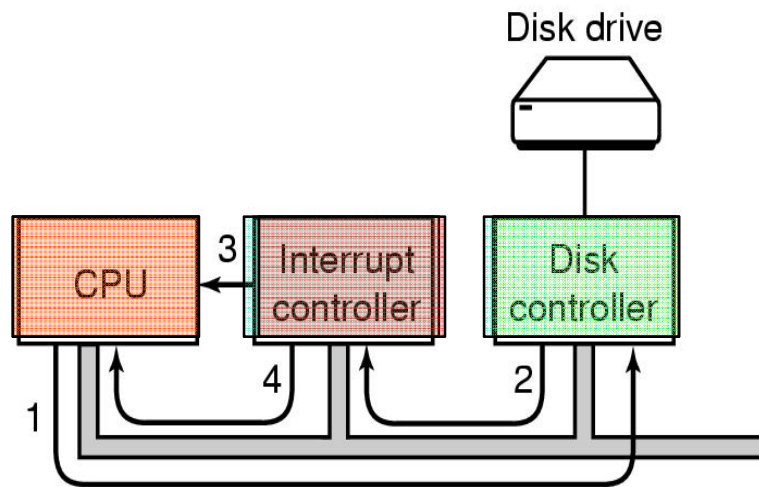


HW Review



- Major components of a simple PC
- Hint: This kind of computer is not the only one, we have to install an efficient OS upon

HW Review (3)



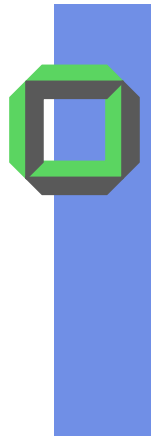
- (a) Steps in starting an I/O device and getting interrupt
- (b) How the CPU is interrupted



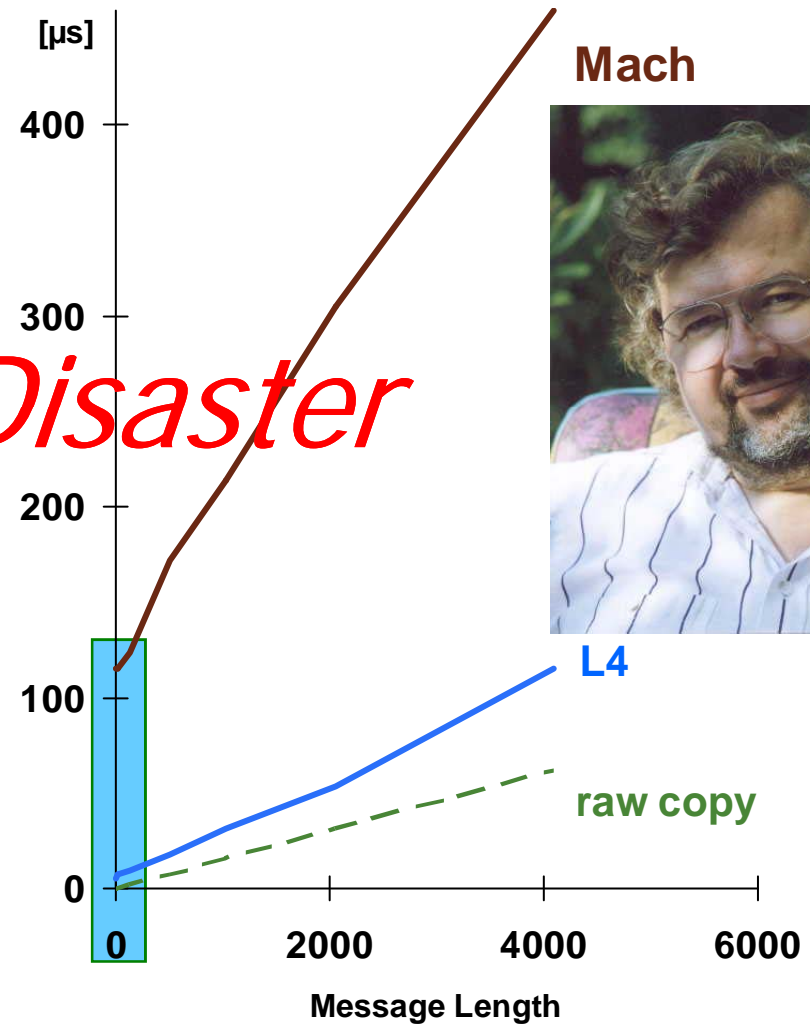
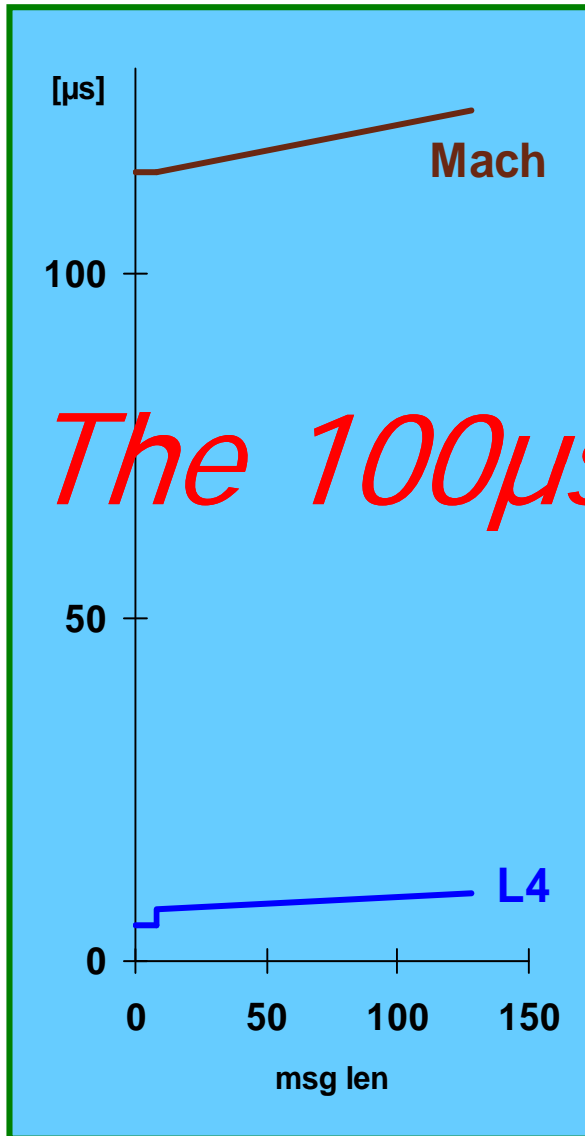
The OS Zoo

- Mainframe OS
- Server OS
- Multiprocessor OS
- PC OS
- Real-time OS
- Embedded OS
- Smart Card OS

Some of these types of OS have a very limited RAM and run only few activities. However, these dedicated systems form the majority of all systems in the world



IPC Costs (Intel 486, 50 MHz)





Summary

- \exists common requirements, e.g. **separate activities** (comparable to car standard: “**four wheel car**”)
- Some **specific** requirements, e.g. deadlines in real-time systems (comparable to **ABS**-enabled cars)

Primary goal of this course:

- Focus on **common principles, policies, and mechanisms**
- Occasionally, we will study some **specific solutions**