

Introduction



Chapter 1 introduces the general topic of operating systems and a handful of important concepts (multiprogramming, time sharing, distributed system, and so on). The purpose is to show why operating systems are what they are by showing how they developed. In operating systems, as in much of computer science, we are led to the present by the paths we took in the past, and we can better understand both the present and the future by understanding the past.

Additional work that might be considered is learning about the particular systems that the students will have access to at your institution. This is still just a general overview; as specific interfaces are considered in Chapter 3.

Exercises

1.12 In a multiprogramming and time-sharing system, many users share the system simultaneously. This situation can create security problems.

- What are two such problems?
- Can we ensure the same degree of security in a timeshared

1 Chapter 1 Introduction

- Workstations connected to servers
- Handheld computers

Answer

- Maintains memory and CPU resources, storage, network bandwidth
- Workstations memory and CPU resources
- Handheld computers: power consumption, memory resources

1.14 Under what circumstances would a user be better off using a time-sharing system rather than a PC, or a single-user workstation?

Answer

When there are few other users, the task is large, and the hardware is fast, time-sharing makes sense. The full power of the system can be brought to bear on the user's problem. The problem can be solved faster than on a personal computer. Another case occurs when lots of other users need resources at the same time.

A personal computer is best when the job is small enough to be executed reasonably on it and when performance is sufficient to execute the program to the user's satisfaction.

1.15 Describe the differences between symmetric and asymmetric multiprogramming. What are their advantages and one disadvantage of multiprogramming systems?

Answer

Symmetric multiprogramming treats all processors as equals, and I/O can be processed on any CPU. Asymmetric multiprogramming has one master CPU; remainder CPUs are slaves. The master distributes tasks among slaves, and I/O is usually done by the master only. Multiprogramming saves money by not duplicating power supplies, housings, and peripherals. They can execute programs more quickly and can have increased reliability. They are also more complex in both hardware and software than uniprocessor systems.

solution manual

Operating System Concepts 9th Edition Solution Manual

Raymond W. Turner



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50 °C so in order to convert an experimental measurement taken in Calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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