Windows XP

Practice Exercises

22.1 What type of operating system is Windows XP? Describe two of its major features.

22.2 List the design goals of Windows XP. Describe two in detail.

22.3 Describe the booting process for a Windows XP system.

22.4 Describe the three main architectural layers of Windows XP.

22.5 What is the job of the object manager?

22.6 What types of services does the process manager provide? What is a local procedure call?

22.7 What are the responsibilities of the I/O manager?

22.8 Does Windows XP offer any user-mode processes that enable it to run programs developed for other operating systems? Describe two of these subsystems.

22.9 What types of networking does Windows XP support? How does Windows XP implement transport protocols? Describe two networking protocols.

22.10 How is the NTFS namespace organized? Describe.

22.11 How does NTFS handle data structures? How does NTFS recover from a system crash? What is guaranteed after a recovery takes place?

22.12 How does Windows XP allocate user memory?

22.13 Describe some of the ways an application can use memory via the Win32 API.