

Virtual Memory



Practice Exercises

- 9.1 Under what circumstances do page faults occur? Describe the actions taken by the operating system when a page fault occurs.

Answer:

A page fault occurs when an access to a page that has not been brought into main memory takes place. The operating system verifies the memory access, aborting the program if it is invalid. If it is valid, a free frame is located and I/O is requested to read the needed page into the free frame. Upon completion of I/O, the process table and page table are updated and the instruction is restarted.

- 9.2 Assume that you have a page-reference string for a process with m frames (initially all empty). The page-reference string has length p ; n distinct page numbers occur in it. Answer these questions for any page-replacement algorithm:

- What is a lower bound on the number of page faults?
- What is an upper bound on the number of page faults?

Answer:

- n
- p

- 9.3 Consider the page table shown in Figure 9.30 for a system with 12-bit virtual and physical addresses and with 256-byte pages. The list of free page frames is D, E, F (that is, D is at the head of the list, E is second, and F is last).

Convert the following virtual addresses to their equivalent physical addresses in hexadecimal. All numbers are given in hexadecimal. (A dash for a page frame indicates that the page is not in memory.)

- 9EF
- 111

Operating Systems Concepts Solutions Manual

L Reisser



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