

UNIT III – MEMORY MANAGEMENT – SUMMARY



Main memory Management

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- A detailed description of various ways of organizing memory hardware
- Discussed various memory-management techniques, including paging and segmentation
 - ▣ Page tables, Trap, Segment tables, Shared pages
- A detailed description of the Intel Pentium, which supports both pure segmentation and segmentation with paging
 - ▣ IA- 32 bit architecture

Virtual Memory Management

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- Discussed the benefits of a virtual memory system
- Concepts of demand paging, page-replacement algorithms, and allocation of page frames
 - ▣ Copy-on-write
 - ▣ FIFO, Optimal and LRU algorithms
 - ▣ Counting algorithms
- Discussed the principle of the working-set model
 - ▣ Thrashing and Frame allocation
- The relationship between shared memory and memory-mapped files
- Explored how kernel memory is managed