

UNIT IV – STORAGE MANAGEMENT – SUMMARY



Summary

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□ Basic File Concepts

- ▣ What is a file ?
- ▣ Discussed the attributes of a file, types, organization and internal structure
- ▣ Access methods – Sequential and Direct
- ▣ Directory structure

□ Function of file systems

- ▣ Interfaces to file systems
- ▣ Discussed file-system design tradeoffs, including access methods, file sharing, file locking, and directory structures
- ▣ Explored file-system protection

Summary

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□ File System Implementation

- ▣ The in- memory data structures needed for implementing any filesystem were discussed
 - Open File table, System-wide table

□ Directory Organization

- ▣ Details of implementing local file systems and directory structures
- ▣ Block allocation and free-block algorithms and trade-offs
 - Continuous allocation, Linked allocation and Indexed allocation strategies
- ▣ Directory organization structures – Single, Hierarchical, Acyclic graph were discussed

Summary

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□ I/O Systems

- ▣ Explored the structure of an operating system's I/O subsystem
- ▣ Discussed the principles of I/O hardware and its complexity
- ▣ Provided details of the performance aspects of I/O hardware and software