StorHouse® ---

Active Archive VLDB 99





Problem Statements

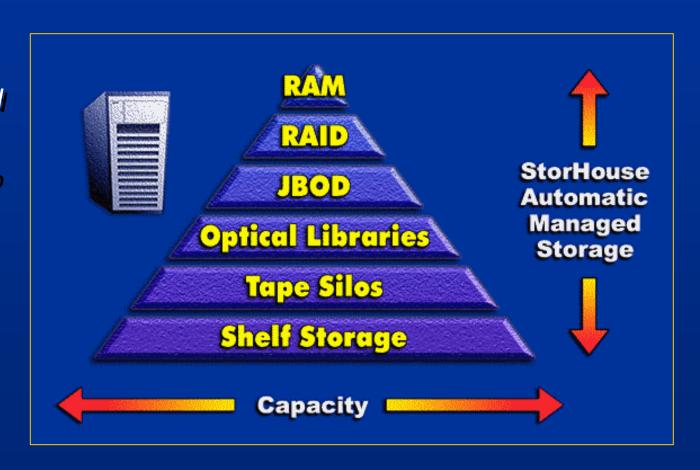
- The total cost of disk storage limits the amount of data retained
- Some data retained for accessing that has an access rate that begs for more cost effective storage than disk
- Retaining infrequently accessed data impacts performance to all data
- Data is archived to insure against loss





FileTek's Active Archive

FileTek
Developed
an Active
Archive to
Address
the
Problem:







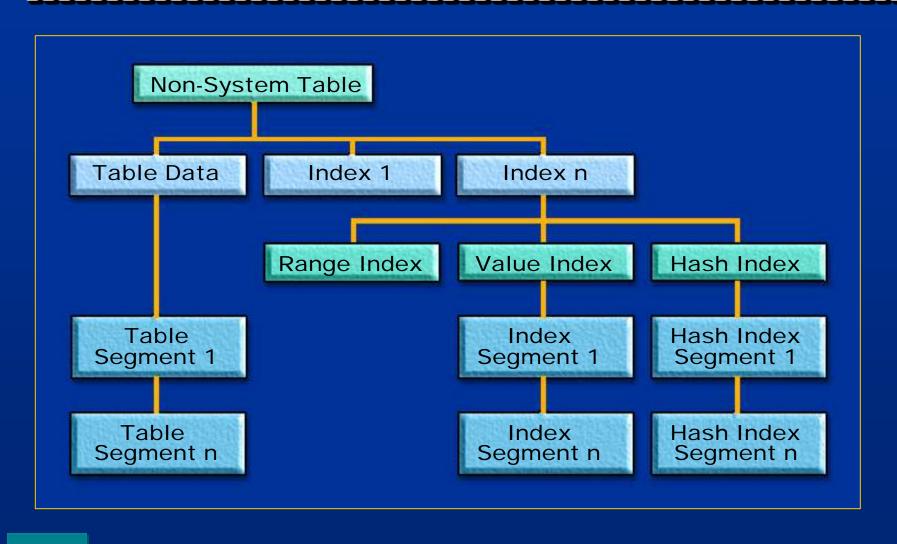
Product Overview

- Combines hierarchy of storage and RDBMS
- Uses direct access to secondary storage
- Orders access to serial devices (magnetic tape) for one pass operation
- Orders use of removable volumes for single mount per volume operation
- Optimum use of high speed search or full scan on a row access basis





Data Structure



FileTek



Data Duplexing Protects Against

- Robotic library failures
- Unreadable media
- Non-shareable characteristics of tape
- Non-optimum use of medium





Other Requirements

- Terabytes of inexpensive disk in a persistent cache
- High system availability (>99.9%)
- Automated system management to minimize administrative cost
- Disaster recovery support





Tape Storage -

StorageTek 9840 and IBM Magstar Define New Generation:

- Fast access Average mount, load, position and read of first record in less than 20 seconds
- Average search of less than 12 seconds
- Transfer rates with typical compression approaching 20 MB/Second
- Compressed volume capacity exceeding 20 Gbytes





Tape Storage -

StorageTek 9840 and IBM Magstar Define New Generation:

(continued)

- Capacity and transfer rate improve at rates equivalent to magnetic disk
- Library capacity will soon reach Pbytes
- LTO and Super DLT to arrive soon
- Cost from 1/10th to 1/100th of magnetic disk depending on library sizes





Optical Storage

- Has direct access performance advantage over tape (Sub-second versus 10+ seconds)
- Has not maintained cost advantage versus magnetic disk and tape to justify wide use
- Multi-layer technology from Lucent and/or Siros may enable a new generation
- DVD volumes may lead to competitive costs (no more than double tape)
- Now in a wait and see mode



