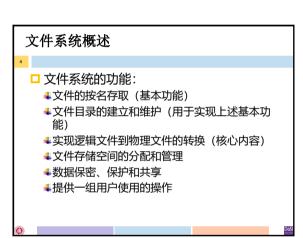




## 文件系统概述 文件系统出现的原因 \*用户直接操作和管理辅助存储器上信息(01二进制序列),繁琐复杂、易于出错、可靠性差 文件系统是操作系统中负责管理和存取信息的模块 \*统一管理用户和系统信息的存储、检索、更新、共享和保护 \*为用户提供一整套方便有效的文件使用和操作方法



大纲

□ 文件系统(FS)
□ 文件系统概述
□ 文件与目录
□ 文件的物理结构
□ 分布式文件系统(DFS)
□ Hadoop分布式文件系统(HDFS)

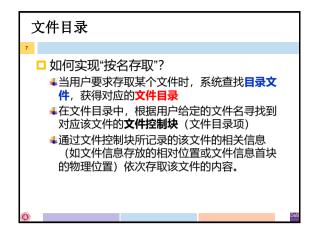
文件

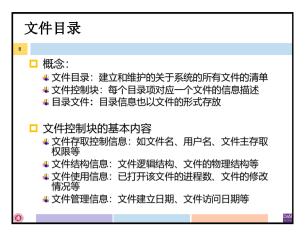
□ 文件

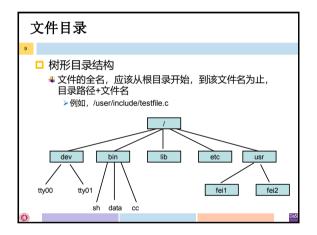
♣文件是由文件名字标识的一组信息的集合
♣各操作系统的文件命名规则略有不同

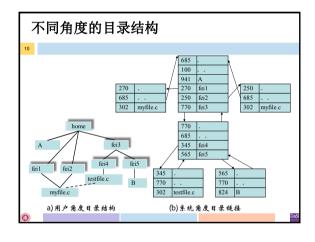
□ 实现按名存取的文件系统的优点
♣将用户从复杂的物理存储地址管理中解放出来
♣可方便地对文件提供各种安全、保密和保护措施

♣实现文件的共享(同名共享、异名共享)



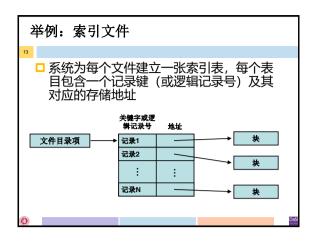




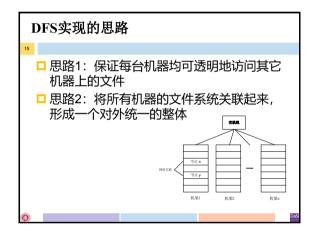


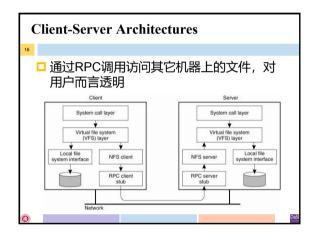


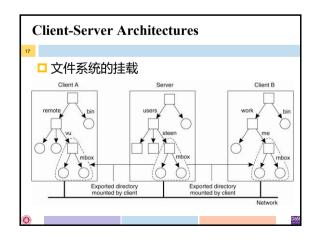


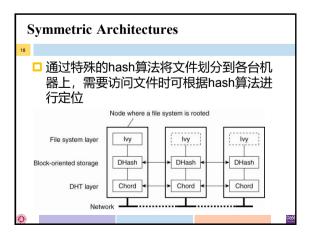


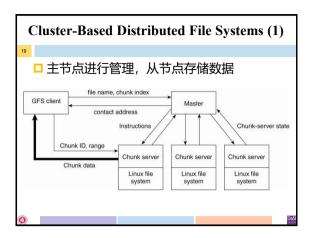


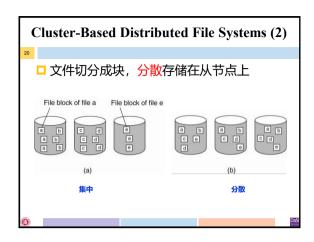




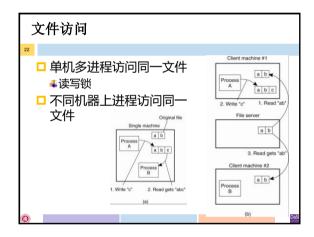


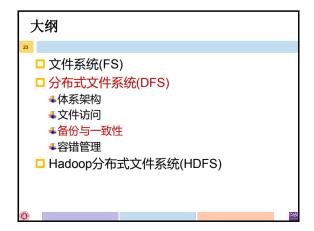


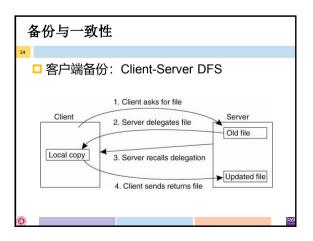


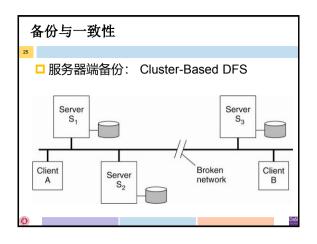






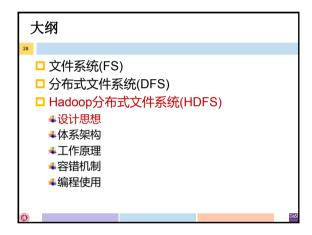




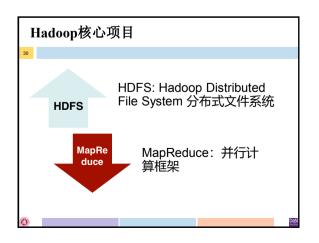




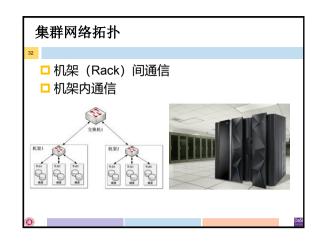


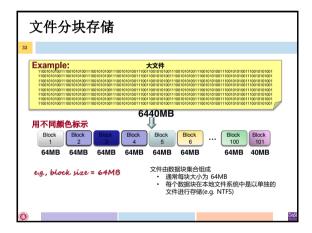


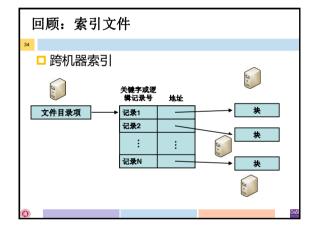


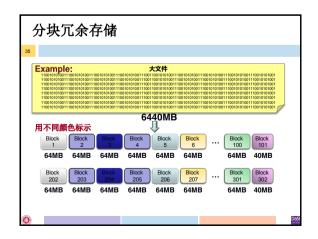




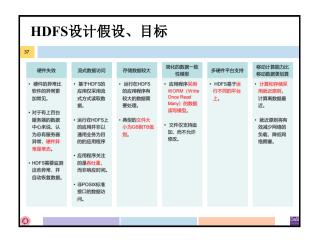


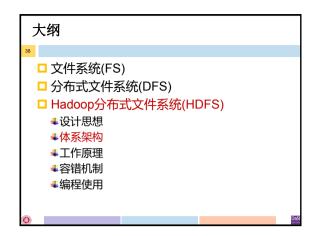


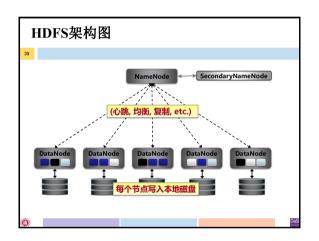


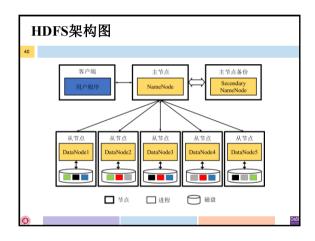


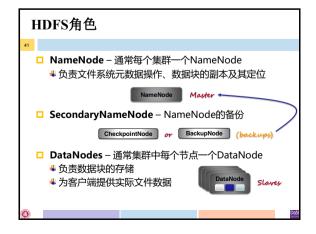


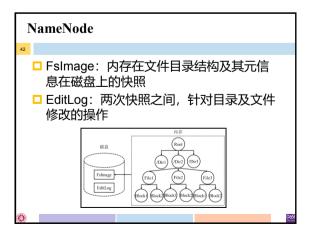


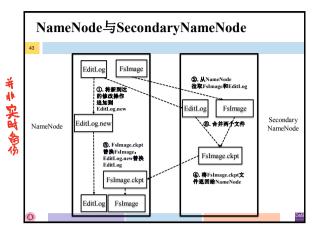


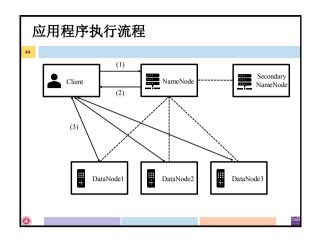


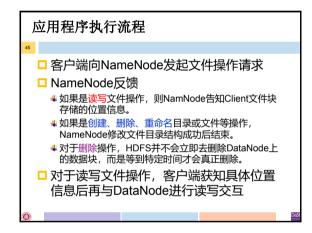


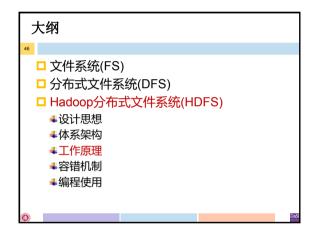


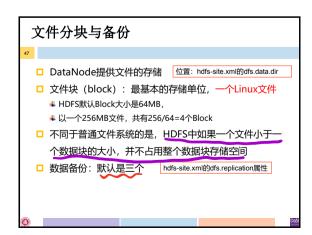


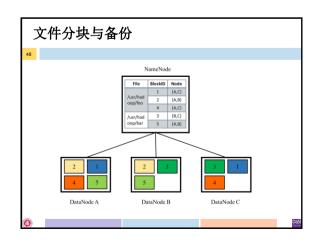


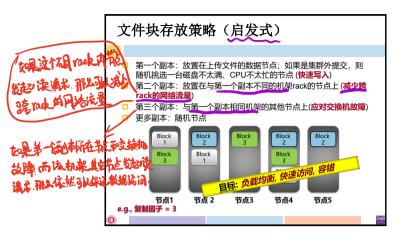


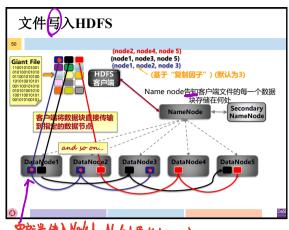


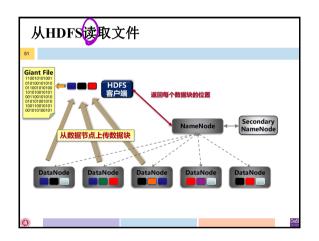


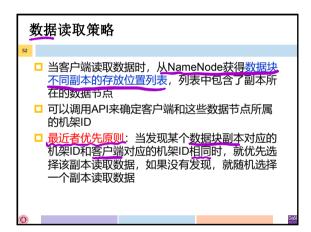




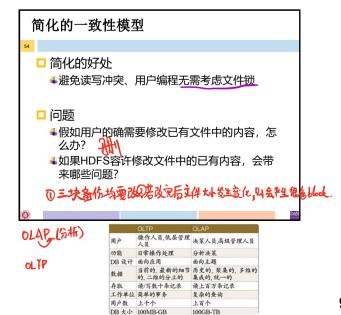






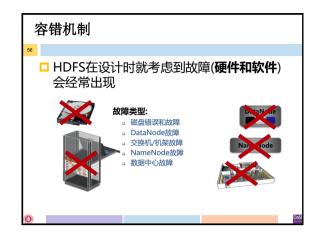


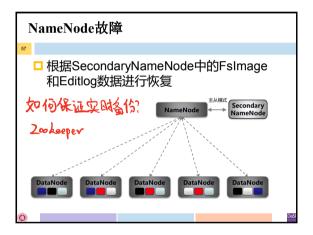
文件读写与一致性 图入后不得改变 □ "一次写入多次读取" ♣一个文件经过创建、写入和关闭后就不得改变 文件中的内容 **♣**已经写入到HDFS文件,仅容许在文件末尾追 加数据, 即append操作 **▲**当对一个文件进行写入操作时,包括文件的追 加操作, NameNode将拒绝其它针对该文件的 读、写请求 **▲**当对一个文件进行读取操作时,NameNode容 许其它针对该文件的读请求。

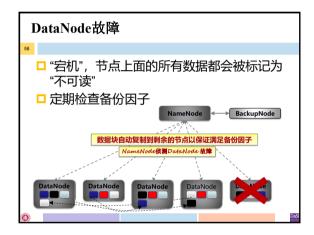


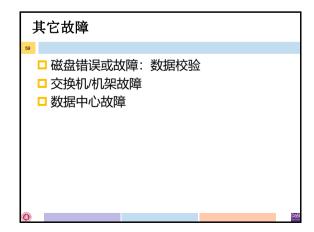
100GB-TB



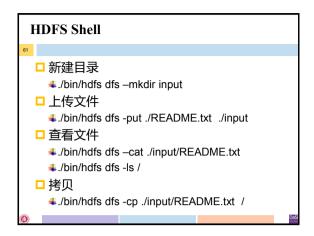


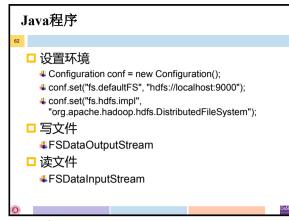












突践: 单机份济武.





