

Customized Virtual File System

This Project is used to emulate all functionalities Provided by File System

Platform Required

Windows NT platform OR Linux Distributions

Architecture Required

Intel 32bit Processor

User Interface

Command User Interface

SDK Used

None

Technology Used

System Programming Using C and C++

About Virtual File System

- In this project, I emulate all data structures which are used by operating system to manage File system oriented tasks.
- As the name suggest its virtual because, I maintain all records in Primary storage.
- In this project, I create all data structures which required for File Subsystems as Incore Inode Table, File Table, UAREA, User File Descriptor Table, Super block, Disk Inode List Block, Data Block, Boot Block etc.
- I provide all implementations of necessary system calls and commands of File subsystem as Open, Close, Read, Write, Create, RM, LS, Stat, Fstat etc.
- While providing the implementations of all above functionality we use our own data structures by referring Algorithms of UNIX operating system.
- By using this project, I can get overview of UFS (UNIX File System) on any platform.