Write-Once File System

George Bernard

Nick Lockett

Ryan St. Pierre

Matthew Wu

Product Summary

Write-Once Filesystem

- ❖ Mastering utility
  - ➢ .iso format
  - ➢ Proprietary format
- ❖ Mounting utility
  - ➢ Real-time access

Resources Required

❖ No hardware components

❖ Linux development environment

❖ Development time

Baseline Success Criteria

❖ Functional correctness (i.e. it works).

❖ Completing milestones in a timely manner.

❖ Space and time efficiency of the file system.

❖ Extremely successful if we implement one to two 'stretch goals'

Stretch Goals

❖ Error detection or correction

    ➢ Prevent build up of latent faults on older data

❖ Compression

❖ A GUI front-end

    ➢ Seamless use by novices

❖ A **tree** command

    ➢ Quickly viewing directory structure

Major Risks and Challenges

❖ Development time is hard to set

❖ Demanding space efficiency

❖ Difficult to deliver partially finished work at the end of the semester.

❖ Mastering a standard filesystem tradeoff to be decided early.

➢ Standardized file system image format it would make our project easier to test

➢ Using a standardized format may limit our freedom to add complex new features