

Tagfs - Tag based file system implementation in Linux

Project Proposal, SOA/OS – Autumn 2010

Index terms: File systems

Keywords: linux, kernel, fs

Team size: 4

1 Project Description

File systems are an integral part of every operating system. Because of the high capacity of modern hard drives file systems need a better way of organizing and accessing files.

The project implements a tag based filesystem in linux. This will contain components for tagging files with tags and browsing by tags.

2 Objectives

This project aims to implement a software application that will meet the following requirements:

- Assigning multiple tags to files
- Searching for files based on tags
- Browsing the files using existing user space utilities

3 Bibliography

- Stephan Bloehdorn and Max Volkel, Tagfs-tag semantics for hierarchical file systems,
- Yuan-Liang Tai¹, Shang-Rong Tsai, Guang-Hung Huang, Chia-Ming Lee, Lian-Jou Tsai, Kuo-Feng Ssu and Shou-Jen Wey, A Label-Based File System

4 Prerequisites

Linux, kernel, file systems