

# System Administration: Week 5 Notes

March 6, 2006

## 1 Review

Last week I went over the OSI model again, and went over some basics about Linux kernel.

## 2 File Systems

### 2.1 Meet the Players

A file system is a way to store and organize data

- zfs - file system used on Solaris 10, created to allow a basically unlimited number of files
- ext2/ext3 - Second/Third Extended File System, used by Linux
- jfs - Journalized File System, basically everything is written in a journal before changes are made
- gfs - Google file system
- winfs - Windows Future Storage, being developed by Windows right now, may or may not make it into Longhorn/Vista
- ntfs - New Technology File System, used by Windows - preceeds FAT
- fat - File Allocation Table

### 2.2 Useful Linux commands

- mount - mounts the filesystem
- /etc/mntab and /etc/fstab contain the information about the file systems currently mounted
- fsck checks the file system for errors

### 3 Apache

Apache is a free open-source HTTP Web Server for a lot of OSes: UNIX, Linux, Windows, etc.

- The most popular HTTP Web Server, beating out IIS by Microsoft and Sun Java Systems Services
- Part of LAMP (Linux, Apache, MySQL, PHP)
- Has confs files stored in `/etc/apache`