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Our Previous System

- Windows 2000 Server
- Microsoft IIS 5.0
- ASP
- MS SQL Server 2000



Problems with the old system

- Reliability
- Security
- Interoperability with other products
- No support for Virtual Hosts
- No Secure Network File Access



Goals

- Set up student group websites
- Allow access to network files for faculty, staff, and student groups
- Move faculty webpages to their existing network storage folders
- Integrated directory support for authentication



NAMP

N(ovell) A(pache) M(ySQL) P(HP)



Novell

- Integration into existing eDirectory Infrastructure
- Integrated File Access Solutions
 - Integration into existing file storage (HDirs & RDirs)
 - NetStorage (Web based network file access)
- Novell Stability & Security

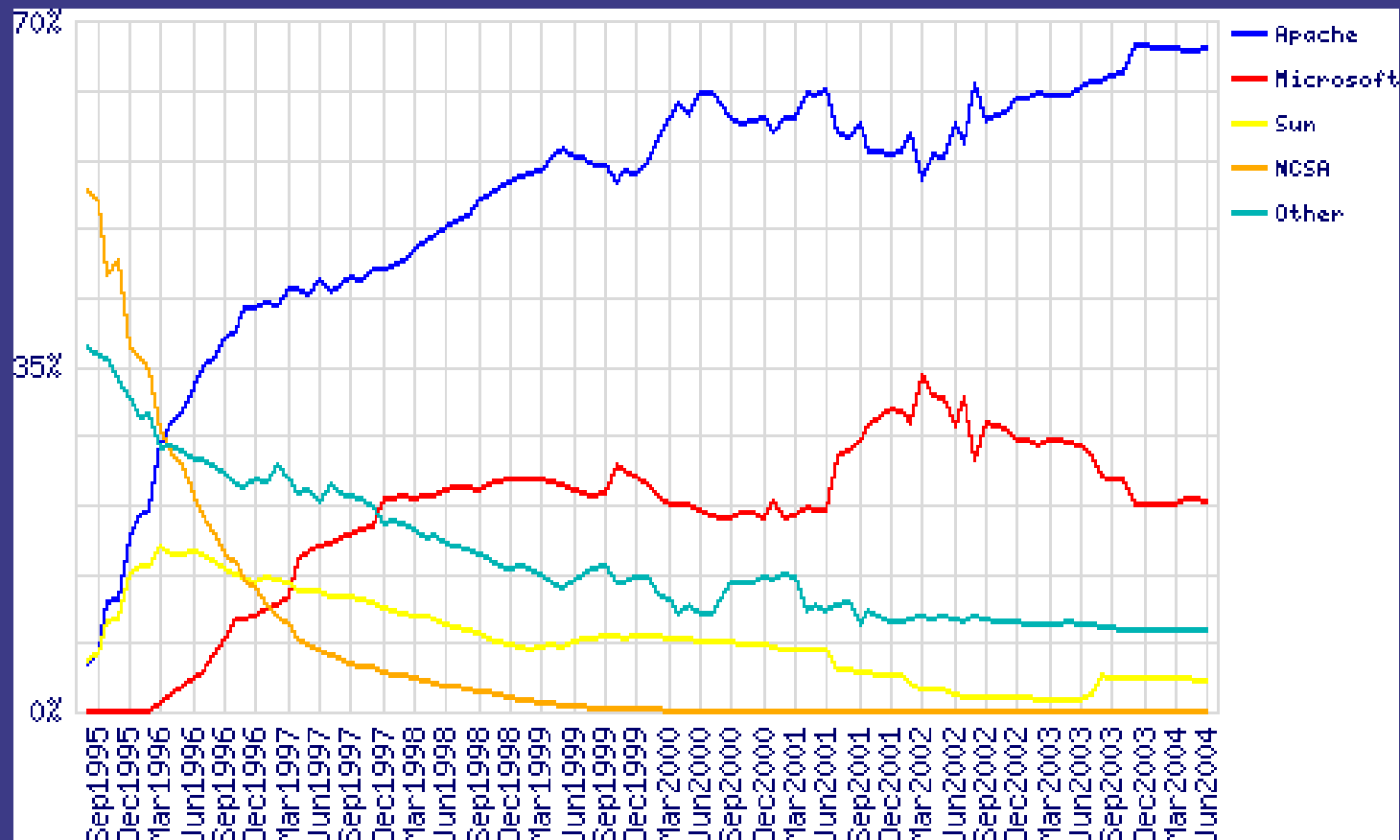


Apache

- Apache holds greater than 67% market share
- Support for virtual hosts
- Open Source
- Runs on any platform
- Faster
- More stable
- FREE!



Apache Market Share



Some Popular Web Pages Running Apache

- Novell
- Apple
- IBM
- CALI
- University of Washington
- University of Pittsburgh School of Law
- Netcraft



MySQL

- Open Source
- For our limited needs, much faster with less hardware
- When used with phpMyAdmin easily configurable
- Good documentation
- Well integrated with Apache and PHP



PHP

- Open Source
- Good and easily obtainable documentation
- More object oriented than ASP
- Runs on any platform
- Speed
- More robust features come standard



Trying for a Seamless Switch

- Install PHP on old server
- Port all ASP Code to PHP Code
- Build new server with NAMP
- Copy site over to new server for testing
- Relocate all faculty websites to their network home directory



Trying for a Seamless Switch...cont.

- Configure httpd.conf
 - Create Virtual Hosts
 - Use Console One to create SSL Cert.
 - Integration with NetStorage and Novell Admin Tools



Trying for a Seamless Switch...cont.

- Migrate Databases
- Create new search engine (phpDig)
- Set up RDirs for faculty pages
- Swap the IP'S and GO LIVE!



Discovering things we forgot about... the hard way

- Access Databases
 - User's interface for making changes
 - Problem solved using MyODBC
- Special Access
 - No more FTP
 - Had to educate users how to access their data



Other Problems...

- Bad Documentation
 - Running Apache in protected address space
 - Tough finding other success stories
- Playing the Version Game
 - Apache
 - RDirs - causing an abend



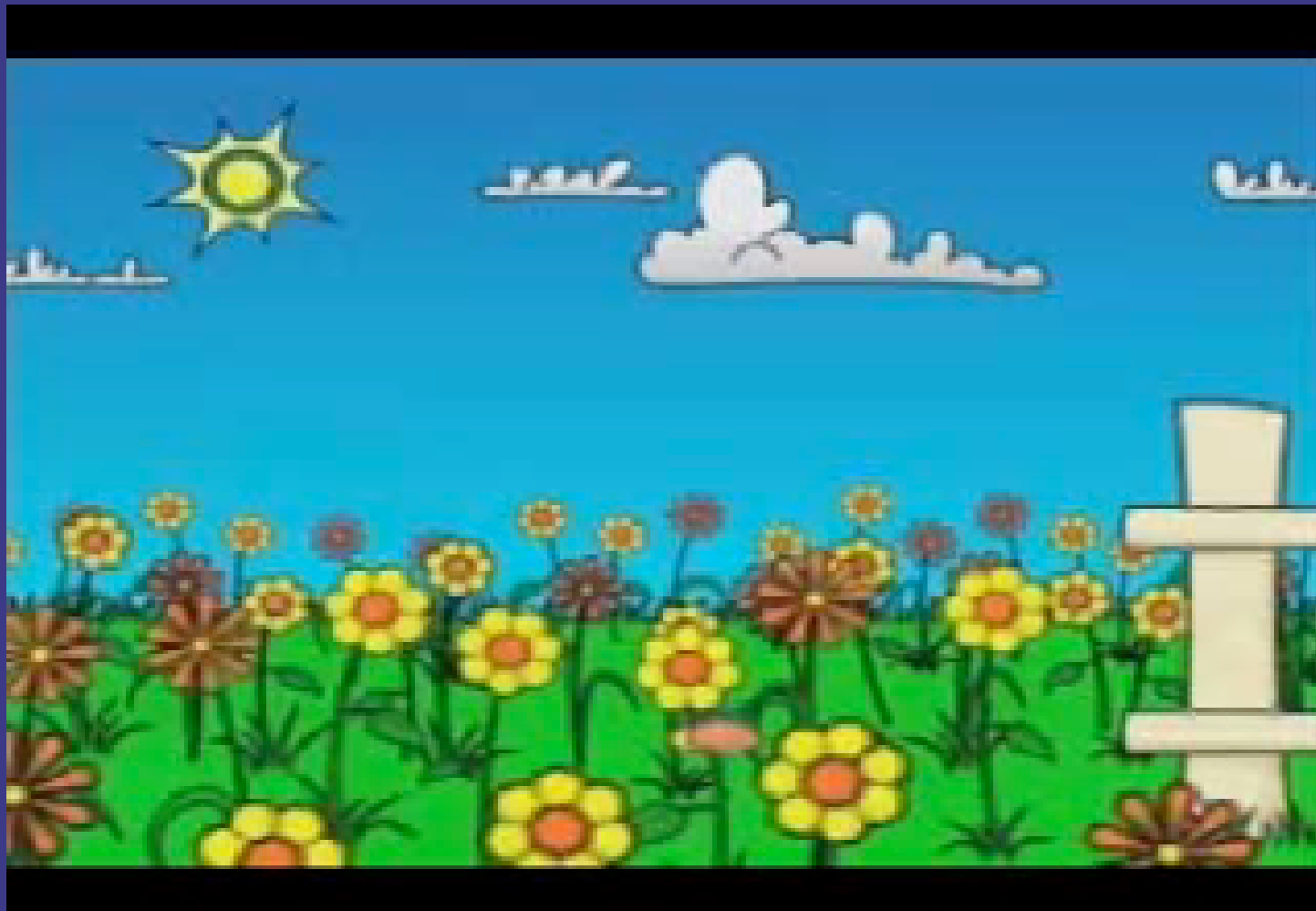
A Successful Migration

- We have been running NAMP in production now for 6 months, and everything is working well.

(<http://www.law.pitt.edu>)



A Successful Migration



Future Plans

- Migrate Microsoft Exchange Server to SuSE OpenExchange
- NNLS (Novell Nterprise Linux Services)

