#### automount

The Kernel-assisted Automounter Nalin Dahyabhai 17 March 1998

# Theory of Operation

- Access to path under automounter-controlled directory is flagged by kernel.
- Kernel notifies automounter.
- Automounter looks up filesystem (map) using name of path and mounts it.
- Automounter returns success code to kernel.
- After inactivity, automounter unmounts fs.

# Known Map Sources and Maps

- Map file
- NIS
- hesiod

## Map formats understood by autofs

- Hesiod (filsys) entries
- Sun automounter map format

# Sample Sun Maps

```
kernel -fstype=nfs,ro ftp.kernel.org:/pub
linux -fstype=afs,ro :/afs/eos/project/linux
wfw -fstype=smbfs,ro ://smbserver/share
hda1 -fstype=ext2,rw :/dev/hda1
```

### Internal Code Organization

- Lookup module looks up map using its own source, then calls
- Parser module extracts generic mounting information from map, then calls
- Mounter module does the work of mounting the filesystem
- Unmounting handled by automounter.

### Where to get it.

- Red Hat 5.0
- ftp://ftp.kernel.org/pub/Linux/daemons