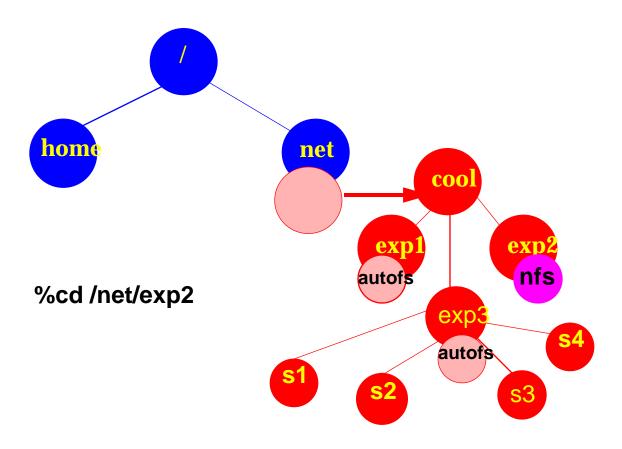
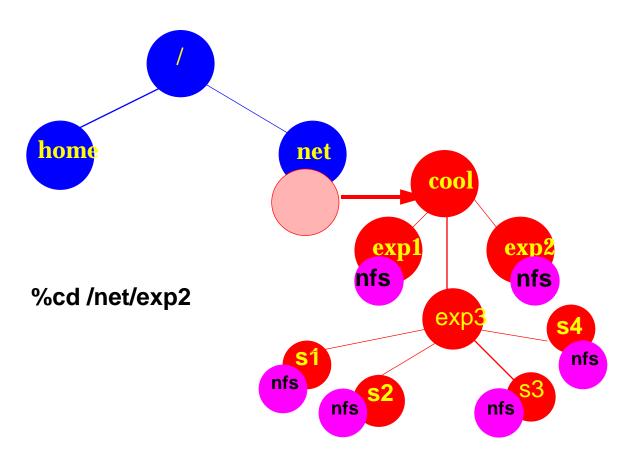
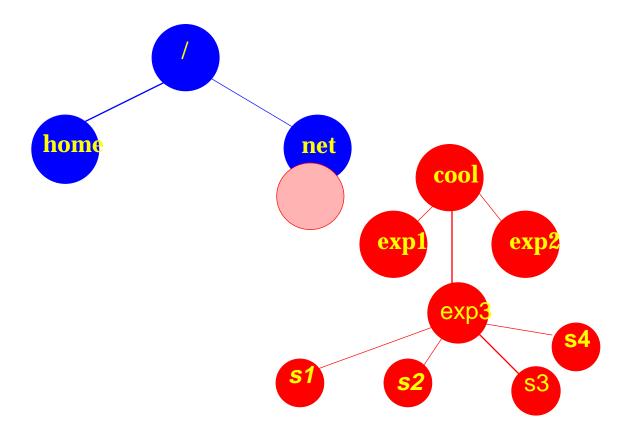
SUMMARY

- * Fully multithreaded automount daemon
- * Improved on-demand hiearchical mounting
- * Targetted for Solaris 2.6
- * Browsability is another neat feature









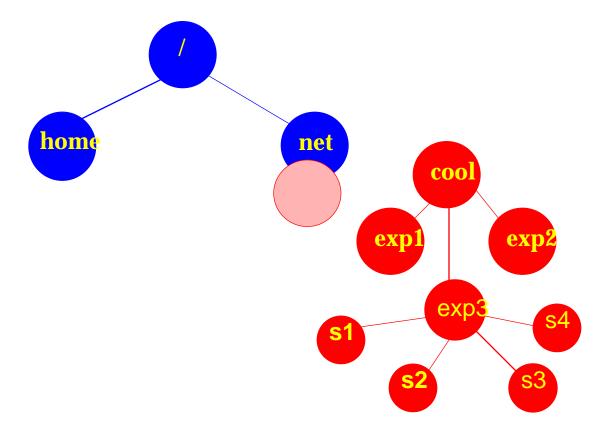
Objective

- Development of a fully multithreaded automount daemon
- Improved on-demand hieararchical mounting of filesystems

MT Automountd Design

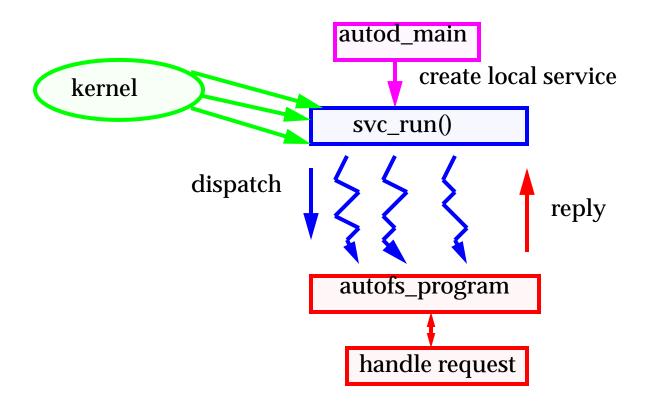
- Isolate major bottlenecks to MT automountd (giant locks)
- Design to deal with the bottleneck
 - eliminate the bottleneck?
 - reduce the granularity of locking?
 - other design optimizations
 - library interfaces are MT-safe
 - existing supposedly MT-safe code
- Rigorous code review







MT DAEMON MODEL





Automounter Issues

- Hierarchical Mounting of Filesystems
 - Server exporting a hierarchy of filesystems can cause mount storms

Example: server x exports 26 filesystems a-z client % cd /net/x/a

- daemon forces all mounts to take place up front!
- unnecessary mount storms
- Performance



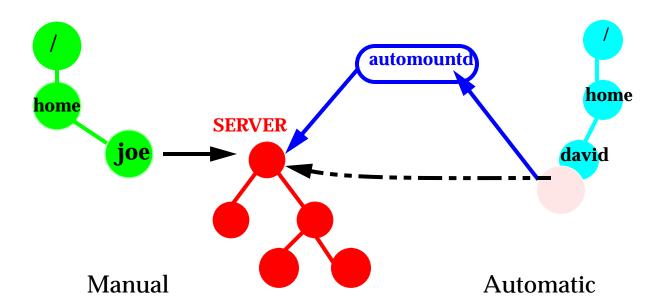
Automounter Issues

- Multithreading Issue
 - Daemon is not completely threaded
 - daemon hangs => system hangs
 example: mounting from dead server may => daemon hang
 recursive calls to daemon => daemon hang
 - Performance



Solaris Autofs Automounter

• automatic, on-demand mounting and unmounting of filesystems





SCOPE

- Overview, Motivation
- Design Issues
- Examples
- Summary



Objective

- Development of a fully multithreaded automount daemon
- Improved on-demand hieararchical mounting of filesystem



MT Automounter

Ashok Advani

