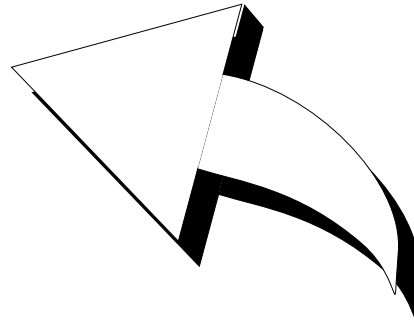
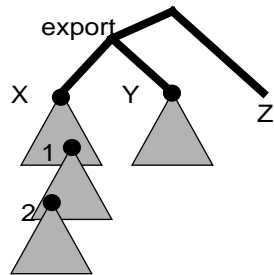


# NFS Server Namespace

**Brent Callaghan**

# Snapshot Browsing

/net/server

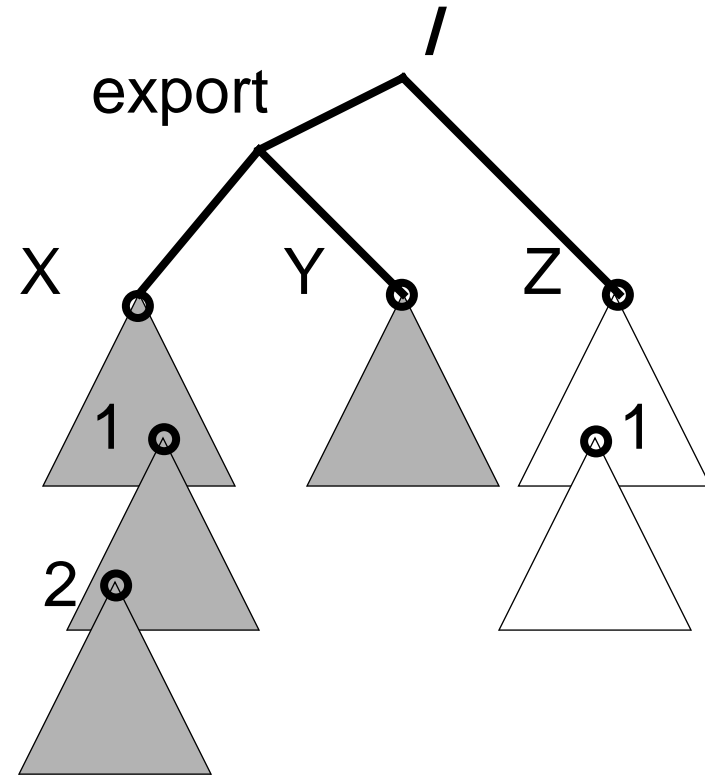


## Export List

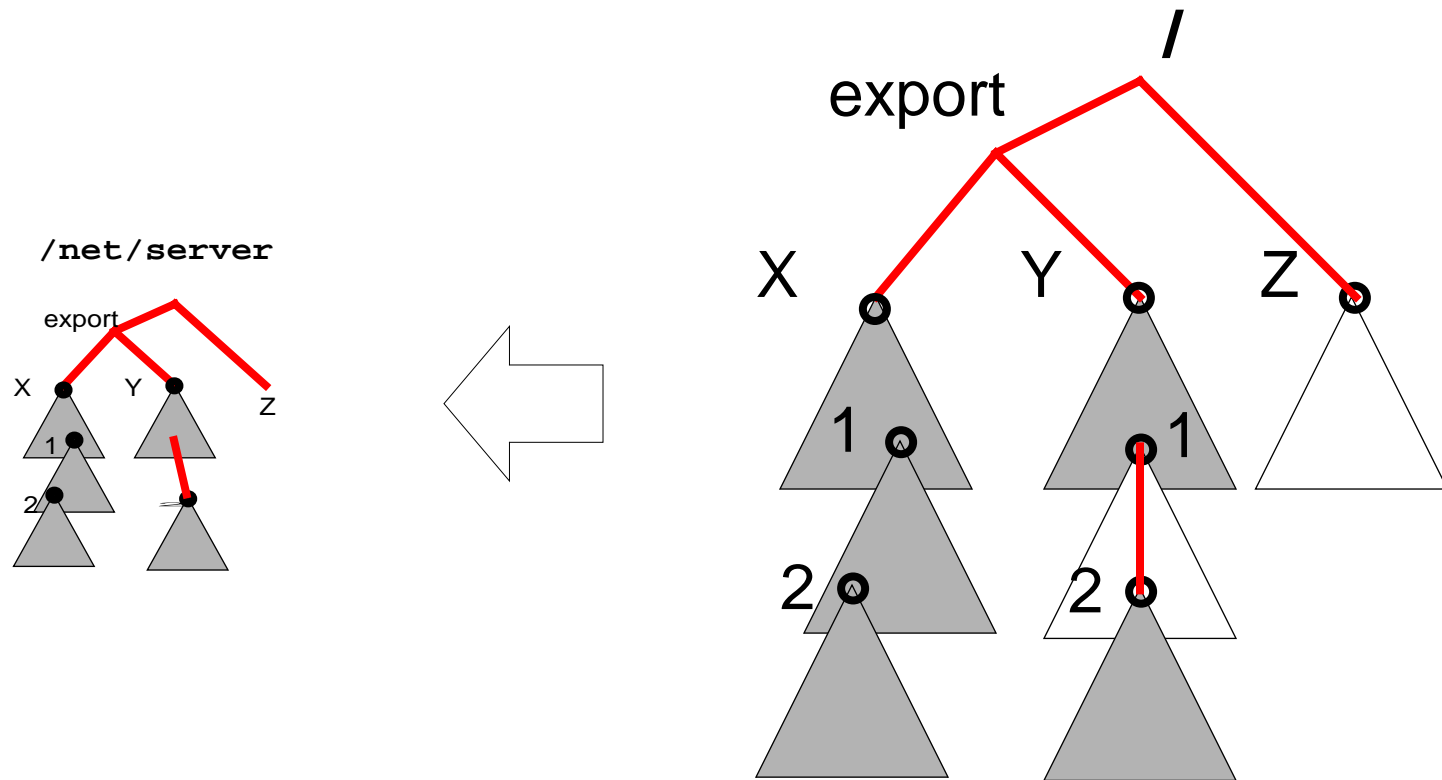
```

/export /X
/export /X/1
/export /X/1/2
/export /Y

```



# Dynamic Browsing



# Server Requirements

- **Pseudo filesystem**
  - **Links exported directories into single namespace**
  - **Browsable via READDIR & LOOKUP**
  - **PUTROOTFH filehandle identifies root**
  - **Volatile filehandles**
  - **Multiple roots (disk letters) subdirs of single root**
- **LOOKUP crosses mountpoints**
  - **Clients detect with fsid change**
  - **Client-side mounts on-the-fly**