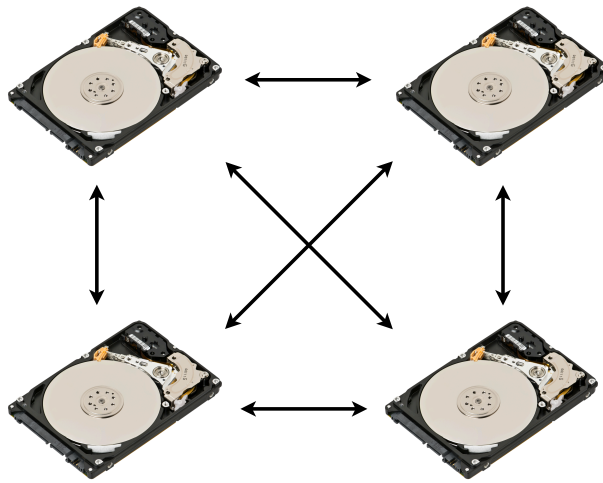
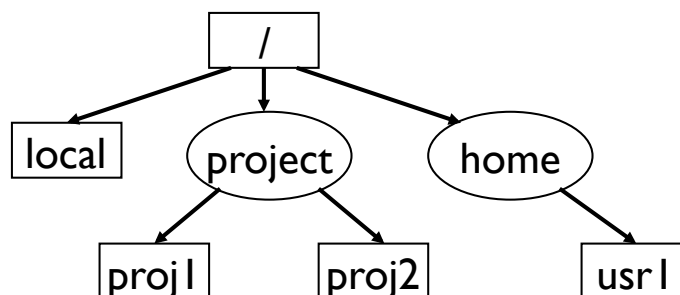


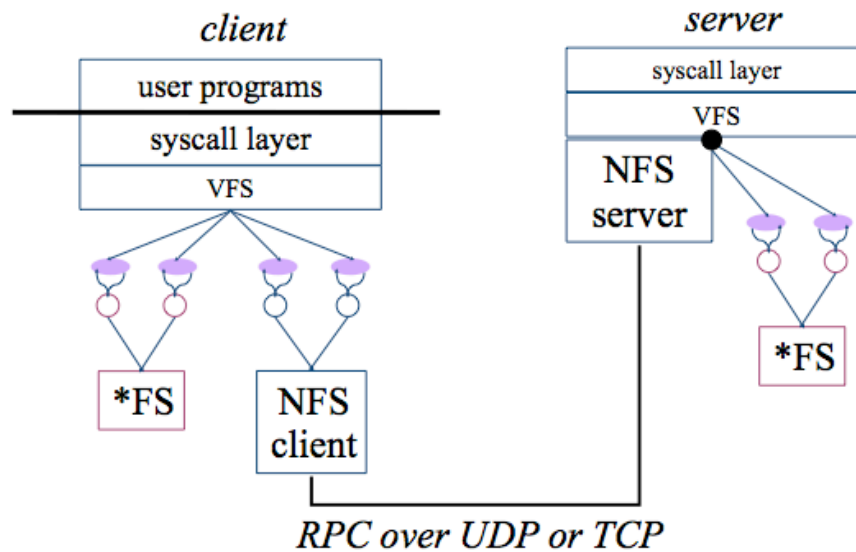
Distributed File Systems



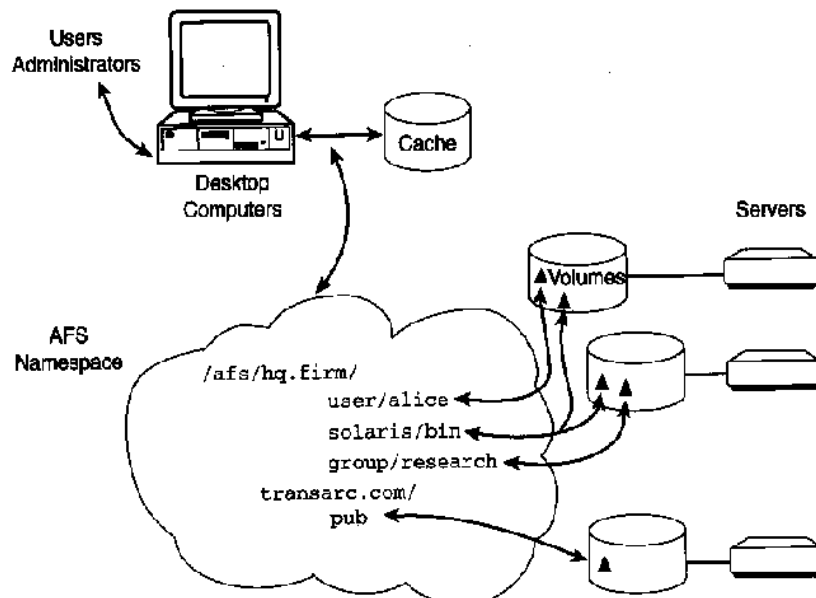
Naming: Mount Points



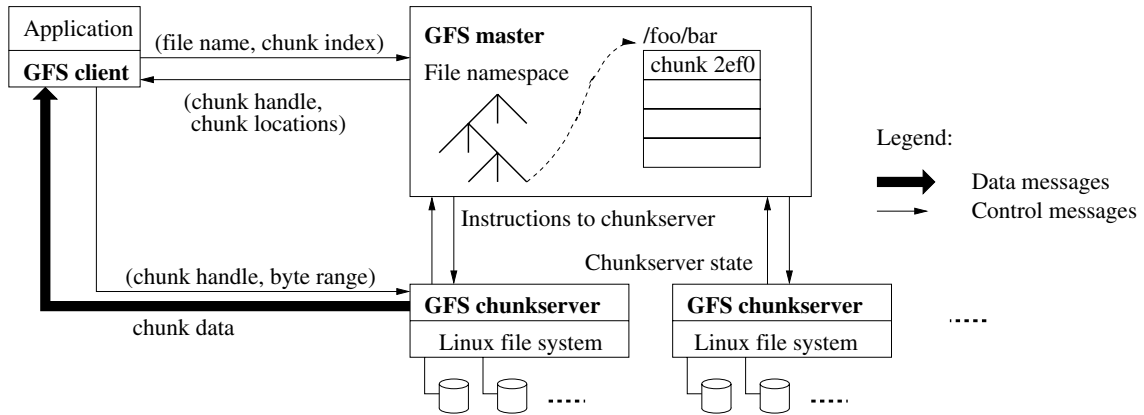
Network File System (NFS)



Andrew File System (AFS)



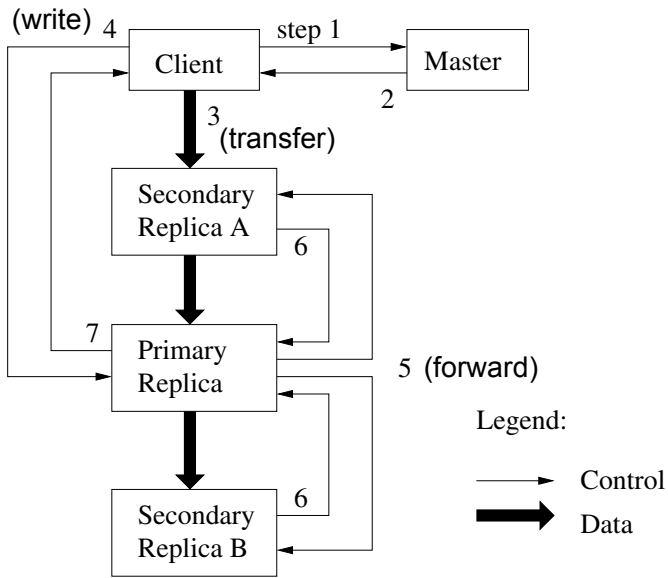
Google File System (GFS)



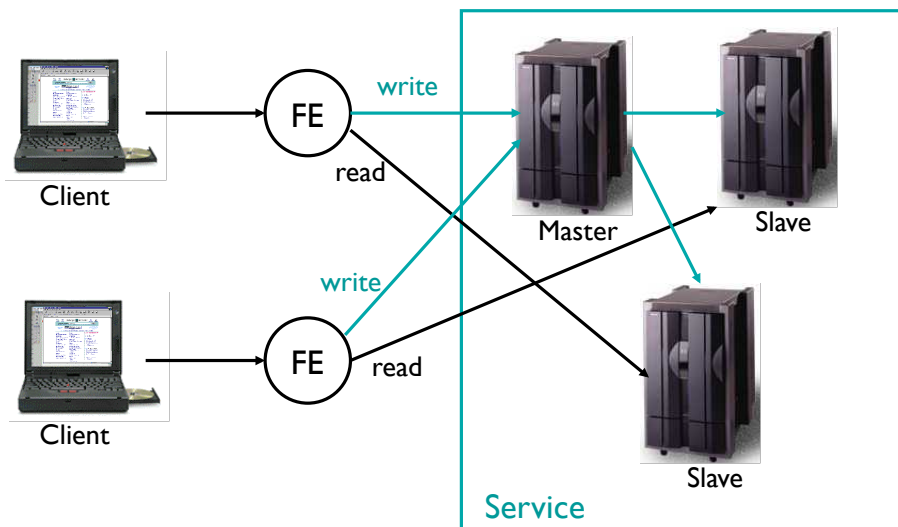
GFS Cluster Statistics (c. 2003)

Cluster	A	B
Chunkservers	342	227
Available disk space	72 TB	180 TB
Used disk space	55 TB	155 TB
Number of Files	735 k	737 k
Number of Dead files	22 k	232 k
Number of Chunks	992 k	1550 k
Metadata at chunkservers	13 GB	21 GB
Metadata at master	48 MB	60 MB

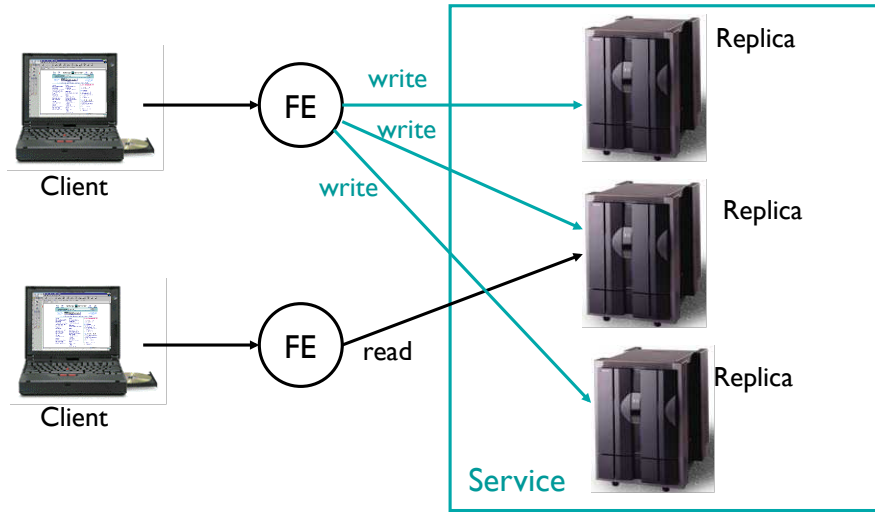
GFS Mutations



Passive Replication



Active Replication



Gossip Architecture

