AFS: ANDREW FILE SYSTEM

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Andrew File System (AFS)

- Stateful
- Single name space
 - Same name anywhere
- · Local file caching
 - On workstation disks
 - For long periods of time
 - Originally whole files, now 64K file chunks.

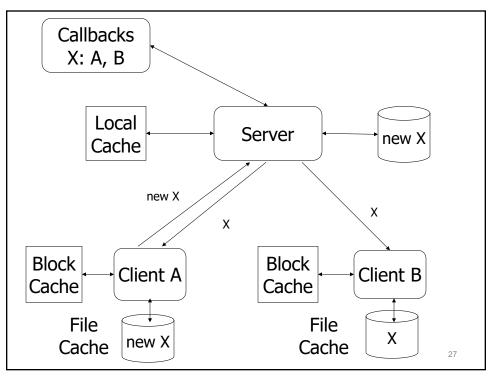
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Andrew File System (AFS)

- Callbacks on server record clients
 - Poll clients on crash+recovery
- Write-through on close
 - Server updated only on close
 - Server informs other clients
 - Clients fetch new version on next open
- Session semantics
- Cache files on local disk

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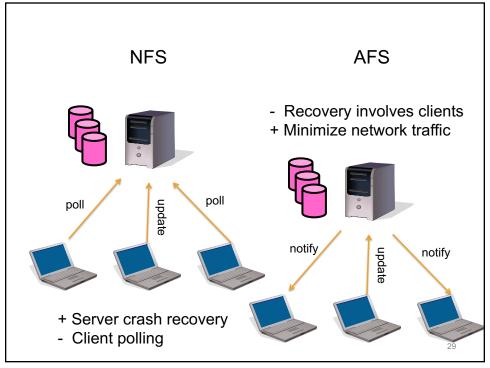
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Andrew File System (AFS)

- Reduce message traffic.
 - All operations performed locally
 - No client polling
- On file open()
 - Fetch new copy if callback was received
 - Otherwise use locally-cached copy
- Server crashes
 - Transparent to client if file is locally cached
 - Server must contact clients to find state of files

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