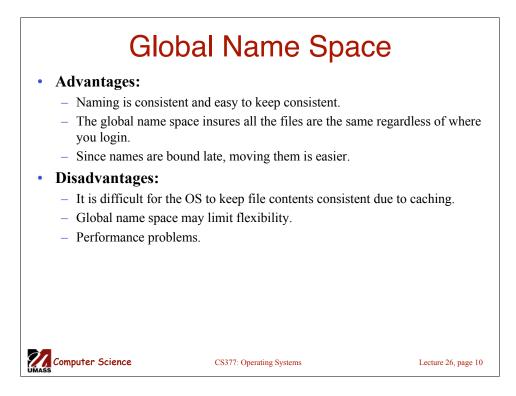


Naming Strategies: Global Name Space Single name space: CMU's Andrew and Berkeley's Sprite No matter which node you are on, the file names are the same. Set of workstation clients, and a set of dedicated file server machines. When a client starts up, it gets its file name structure from a server. As users access files, the server sends copies to the workstation and the workstation caches the files



Remote File Access and Caching

Once the user specifies a remote file, the OS can do the access either

- 1. remotely, on the server machine and then return the results using RPC (called *remote service*), or
- 2. can transfer the file (or part of the file) to the requesting host, and perform local accesses (called *caching*)

Caching Issues:

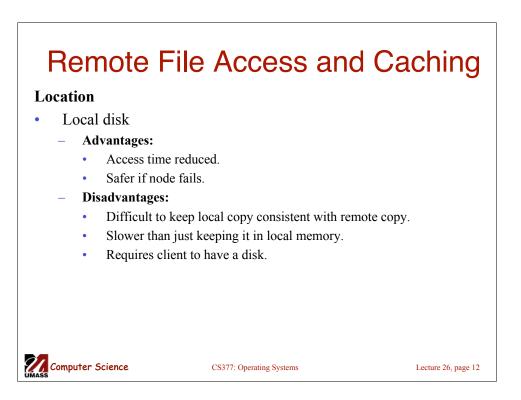
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- Where and when are file blocks cached?
- When are modifications propagated back to the remote file?

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• What happens if multiple clients cache the same file?



Remote File Access and Caching Location Local memory Advantages: Quick access time.

– Disadvantages:

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• Difficult to keep local copy consistent with remote copy.

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- Does not tolerate node failure well.
- Limited cache size.
- Works with diskless workstations.

