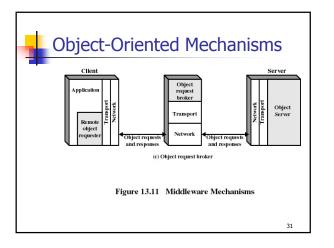
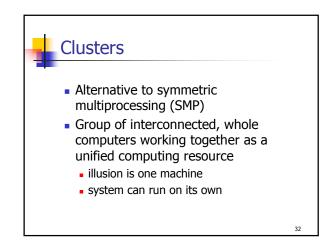
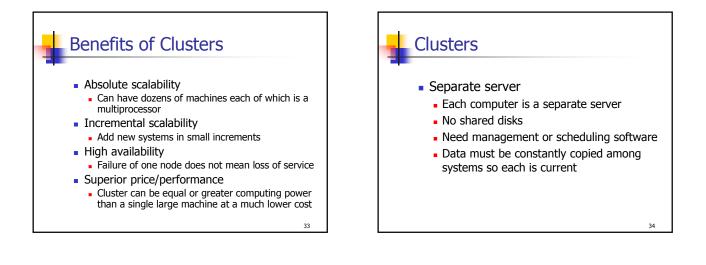


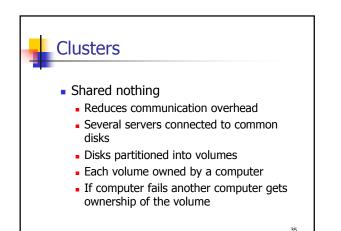
Synchronous versus Asynchronous

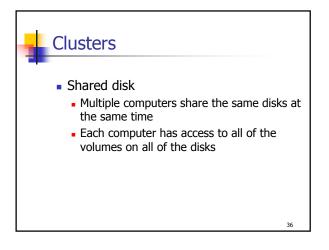
- Synchronous RPC
 - Behaves must like a subroutine call
- Asynchronous RPC
 - Does not block the caller
 - Enable a client to invoke a server repeatedly so that it has a number of requests in the pipeline at one time

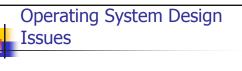




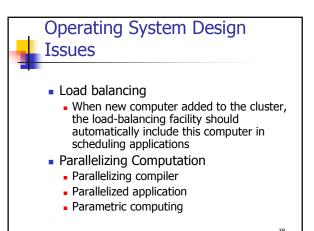


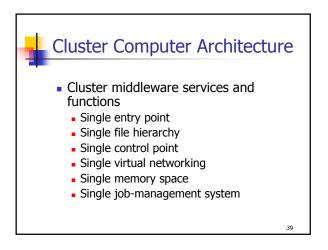


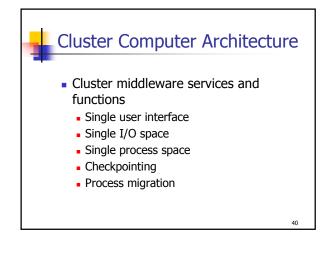


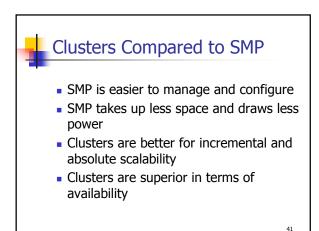


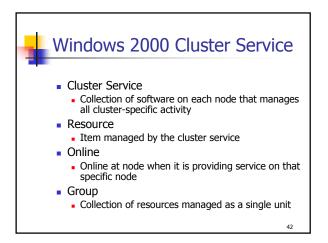
- Failure management
 - Highly available cluster offers a high probability that al resources will be in service
 - No guarantee about the state of partially executed transactions if failure occurs
 - Fault-tolerant cluster ensures that all resources are always available

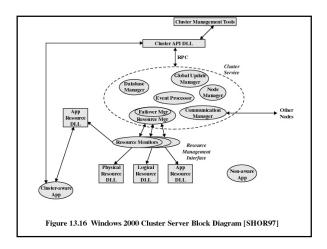


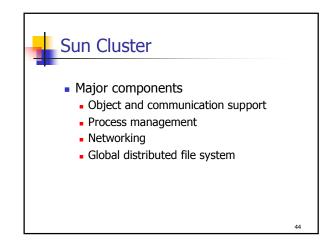


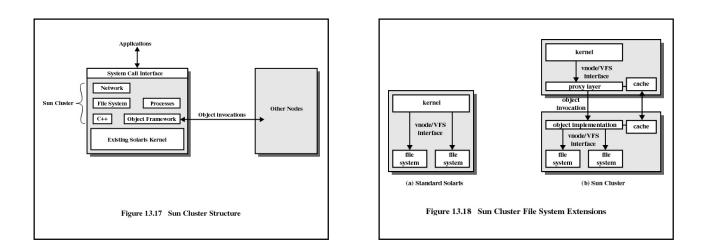


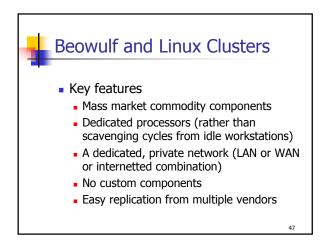












Beowulf and Linux Clusters Key features Scalable I/O A freely available software base

- Using freely available distribution computing tools with minimal changes
- Returning the design and improvements to the community

