

More Uses of Mutual Exclusion

- **Distributed File systems**
 - Locking of files and directories
- **Accessing objects** in a safe and consistent way
 - Ensure at most one server has access to object at any point of time
- **Server coordination**
 - Work partitioned across servers
 - Servers coordinate using locks
- **In industry**
 - Chubby is Google's locking service
 - Many cloud stacks use Apache Zookeeper for coordination among servers