

4 Chubby

Chubby is a distributed lock management system, which is used in different settings, such as to provide locks for the Google File System (GFS).

- a) You have learned that Chubby provides coarse grained locking. What does this mean? Why did the designers of Chubby choose this approach?
- b) Chubby can manage multiple locks, and it is able to store meta-data to each lock. Describe how these properties can be used to implement a reliable name-service.
- c) A Chubby cell typically contains 5 servers. What would be the effect of using a smaller or larger number of servers per cell?