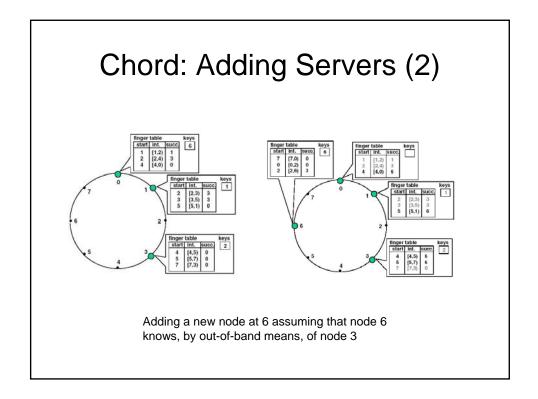
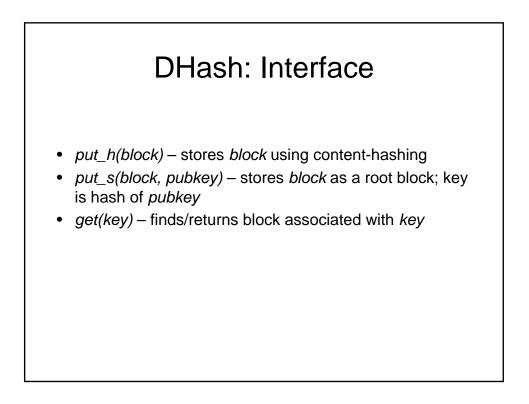


Chord: Adding Servers (1) Two Invariants maintained: • Successor information is correct • Successor(k) is responsible for key k Steps: 1. By out-of-band means, locate an existing server, n 2. Update tables Update successor/predecessor links ٠ Creates finger tables for new server • Update other server's finger tables ٠ 3. Redistribute responsibility for keys to n from its successor Call higher (DHash) layer •





DHash: replication

- · Places replicas on k servers following successor
- Note: each Chord server maintains a list of r immediate successors. By keeping r >= k, it is easy for DHash to determine replica locations
- Existence of replicas eases reallocation when node leaves the system
- By fetching the successor list from Chord, the DHash layer can select the most efficient node from which to access a replica of a desired block

