

Simulation of the Nomification of Independent Chord Rings

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Outline

- 1 Goals of Modeling and Simulation
 - Problem Space
 - Chord
- 2 Developed Models
- 3 Experiments and Results
- 4 Conclusion and Future Work

File Lookup

- Most important function of a decentralized Peer-to-Peer system.
- Need to discover which node in the network has a certain file.
- Need to do it efficiently.

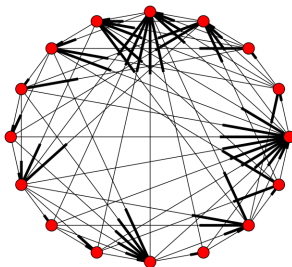
Hashing Protocols

- One of the best solutions for this task.
- Map nodes and files identifiers to keys.
- Nodes are responsible for files with keys that match some criteria,.
- Imposes an structure on the network.

What is Chord

- Arranges a network into a ring.
- Maximum 2^m nodes in the network.
- Nodes and filenames are hashed to create an m -bit key.

How Are Files Stored



- Arranges a network into a ring.
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How Are Files Retrieved

- Arranges a network into a ring.
- Maximum 2^m nodes in the network.
- Nodes and filenames are hashed to create an m -bit key.

How Is Churn Handled

- Arranges a network into a ring.
- Maximum 2^m nodes in the network.
- Nodes and filenames are hashed to create an m -bit key.

Make Titles Informative. Use Uppercase Letters.

Subtitles are optional.