

Symphony

USITS, 10 March 2003

Acknowledgement

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DHTs: The Big	Picture
Load Balance "How do we splice the hash table evenly?" Nodes choose their ID in the hash space uniformly at random".	
Deterministic 🔸	Plishment te with small state per node?" (Pastry/ Tapestry) (Symphony)
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Spectrum of DHT Protocols				S
	Protocol	#links	latency	
Deterministic Topology	CAN Chord	O(log n) O(log n)	O(log n) O(log n)	
Partly Randomized Topology	Viceroy Tapestry Pastry	O(1) O(log n) O(log n)	O(log n) O(log n) O(log n)	
Completely Randomized Topology	Symphony	2k+2	O((log ² n)/k))
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