

Distributed Hash Tables

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November 13, 2016

Contents

1 Solution Overview

1.1 Constructing a Ring

Every node of the ring sends 500 queries for random keys. As we can see the figure ??, the number of hops is evenly distributed between 0 and 63 in a ring of size 64. This is as expected: Since the nodes are randomly distributed around the ring, and the search only takes place in a linear fashion, the search will have on average $n/2$ hops, and every possible number of hops from the minimum to the maximum will have the same chance of occurring.

