

EXPERIMENT 5

TWO SITES, HETERO. DISKS, RANDOM DELAY+LOAD

speedChoicesServer1 = ['0.2', '0.5', '6.1', '8.3', '13.2'] (SSDs+HDDs)

speedChoicesServer2 = ['0.2', '0.5', '6.1', '8.3', '13.2'] (SSDs+HDDs)

delayPlusLoadChoices1 = ['2', '4', '6', '8', '10']

delayPlusLoadChoices2 = ['2', '4', '6', '8', '10']

EXECUTION TIME RATIO

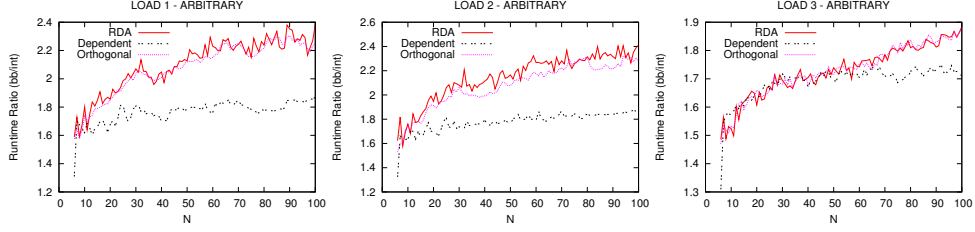


Figure 1: Execution Time Ratio, Arbitrary Queries

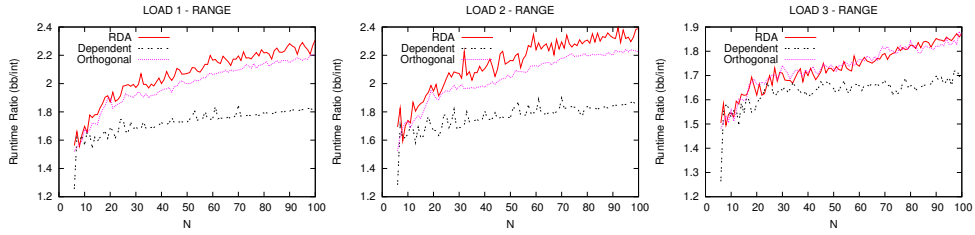


Figure 2: Execution Time Ratio, Range Queries

Push-relabel Black Box vs. Integrated

Black Box

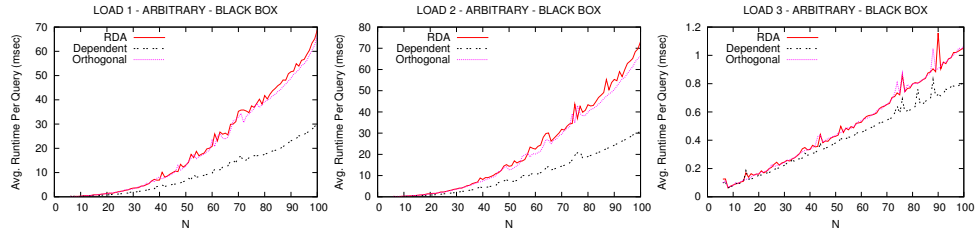


Figure 3: Black box, Running time, Arbitrary Queries

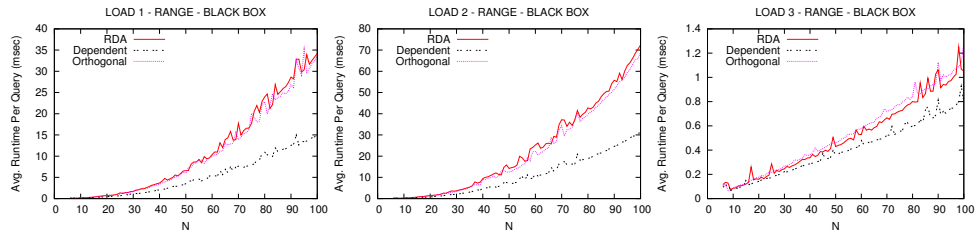


Figure 4: Black box, Running time, Range Queries

Integrated

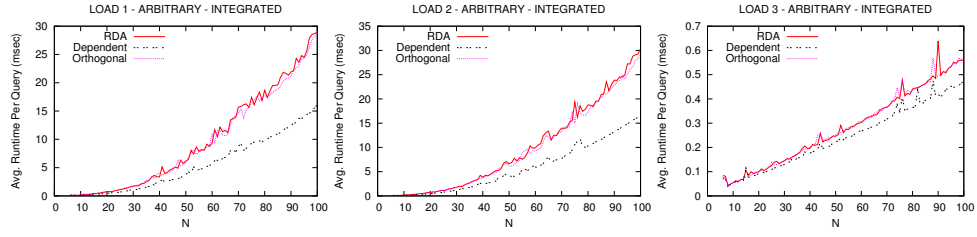


Figure 5: Integrated, Running time, Arbitrary Queries

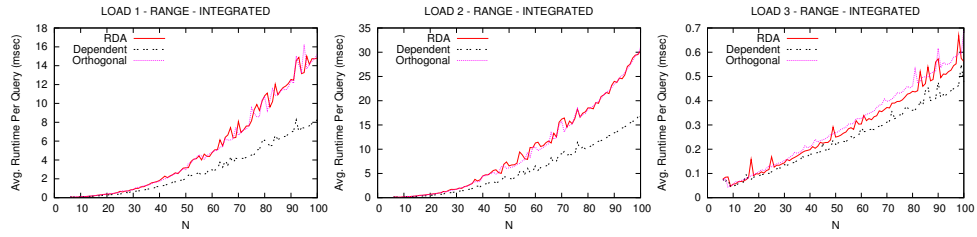


Figure 6: Integrated, Running time, Range Queries

Ford-Fulkerson vs. Push-relabel

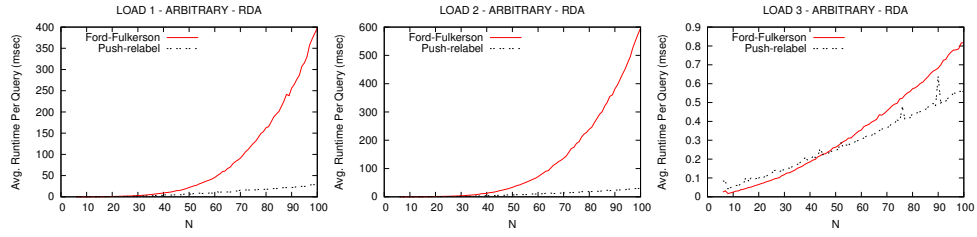


Figure 7: Running time, Arbitrary Queries, RDA

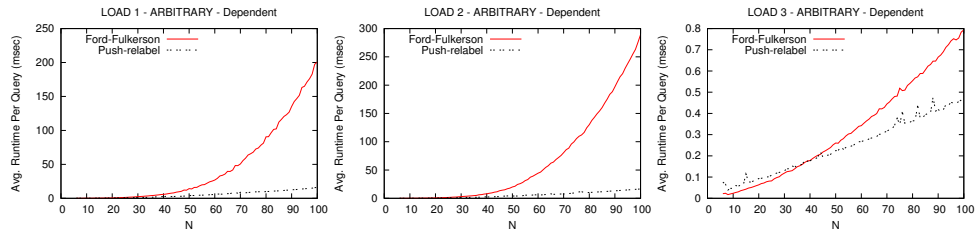


Figure 8: Running time, Arbitrary Queries, Dependent

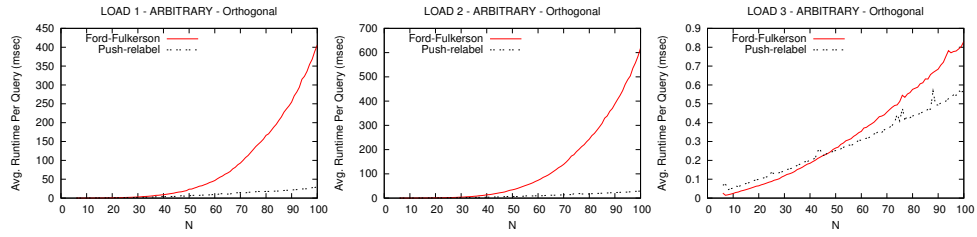


Figure 9: Running time, Arbitrary Queries, Orthogonal

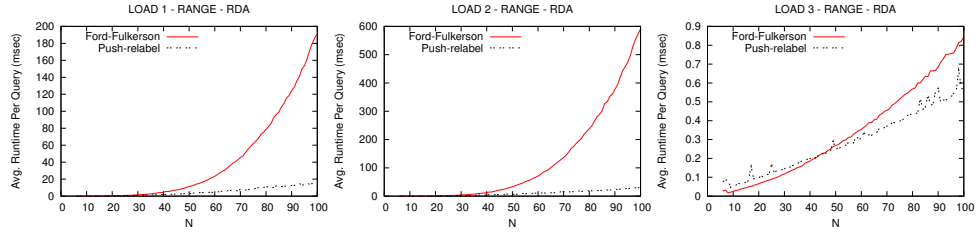


Figure 10: Running time, Range Queries, RDA

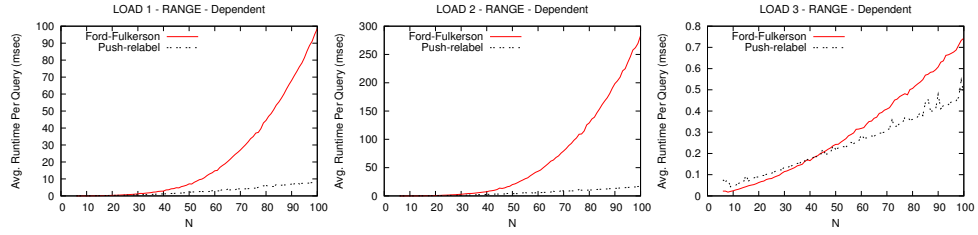


Figure 11: Running time, Range Queries, Dependent

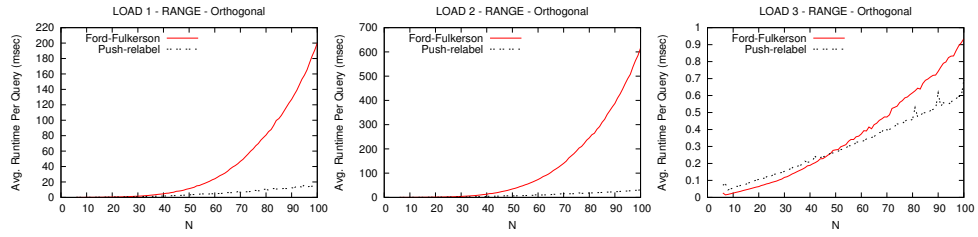


Figure 12: Running time, Range Queries, Orthogonal

Parallel vs. Sequential

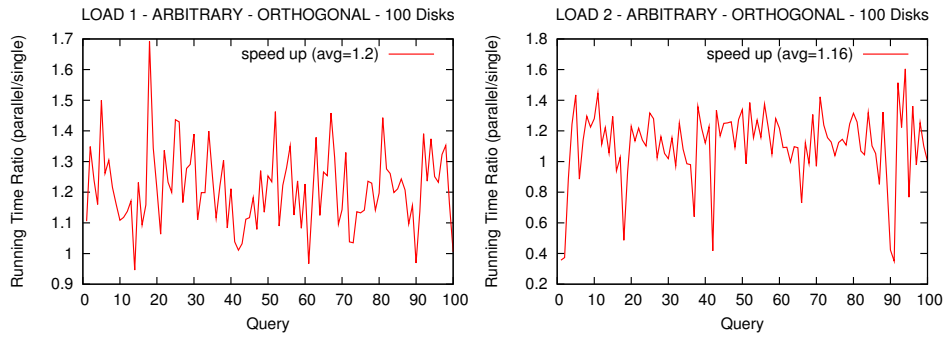


Figure 13: Speed-up for 2 Threads, Arbitrary Queries, Orthogonal, 100 Disks

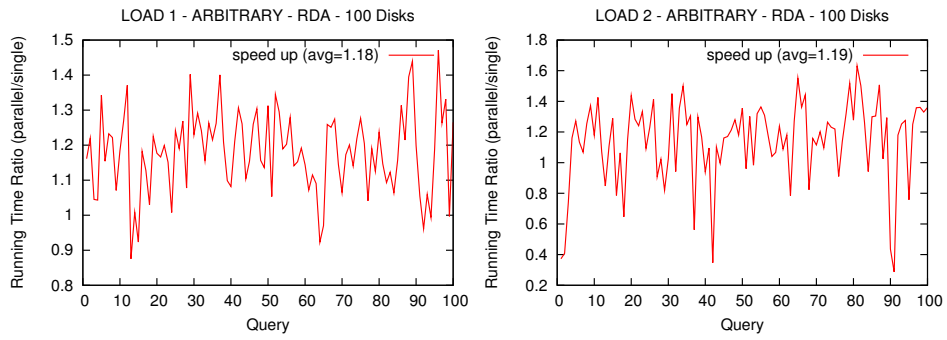


Figure 14: Speed-up for 2 Threads, Arbitrary Queries, RDA, 100 Disks

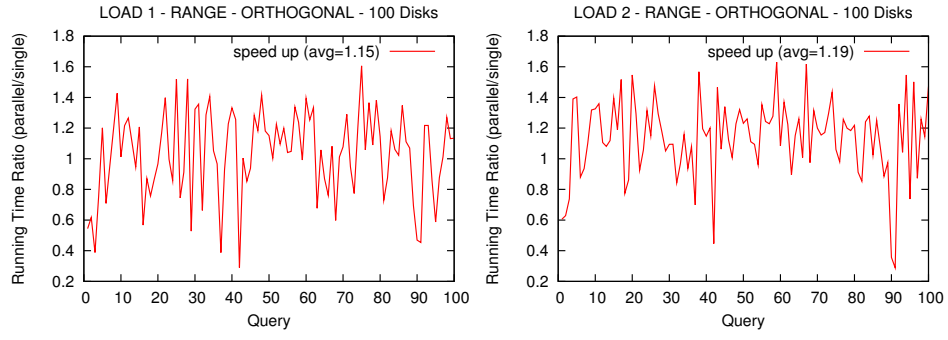


Figure 15: Speed-up for 2 Threads, Range Queries, Orthogonal, 100 Disks

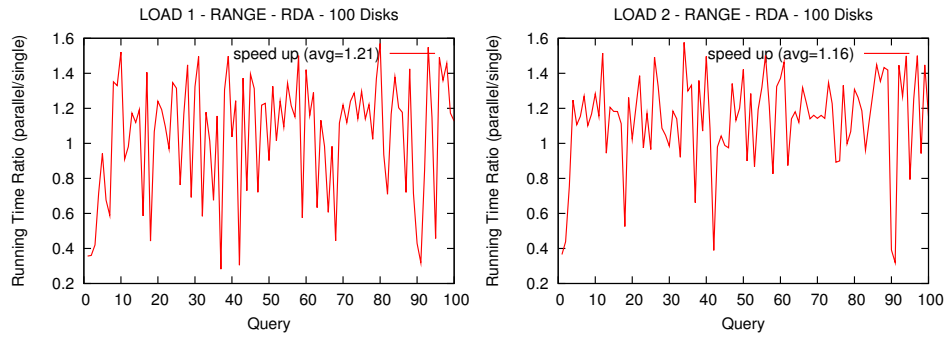


Figure 16: Speed-up for 2 Threads, Range Queries, RDA, 100 Disks