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)

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
Figure 5: Integrated, Running time, Arbitrary Queries

Figure 6: Integrated, Running time, Range Queries
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