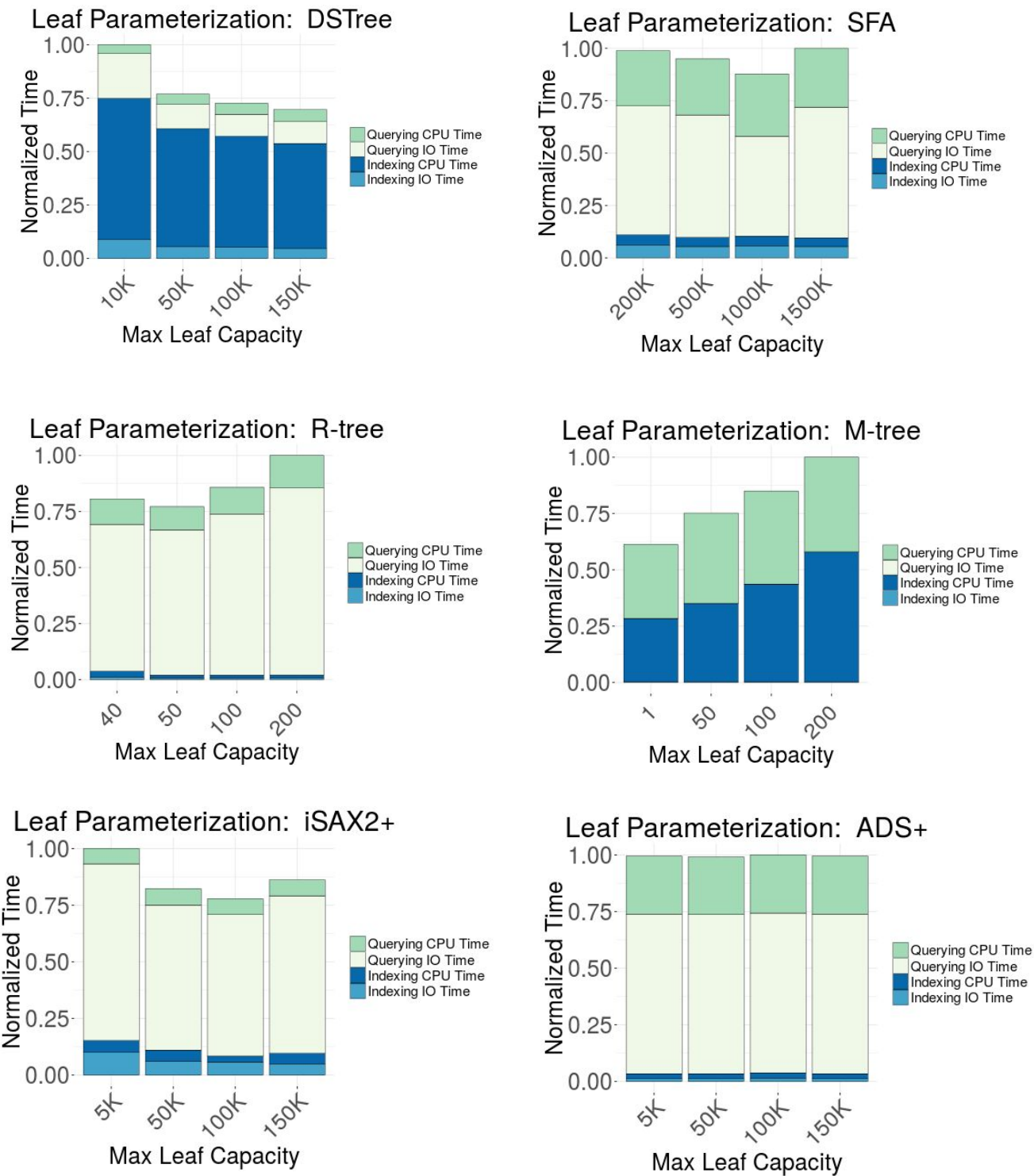
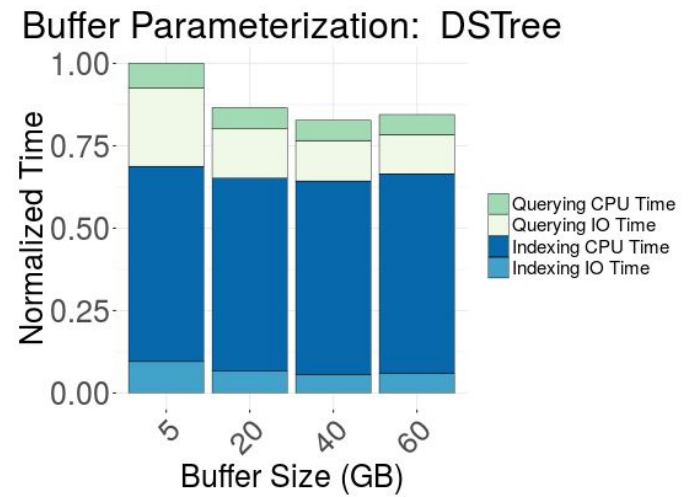
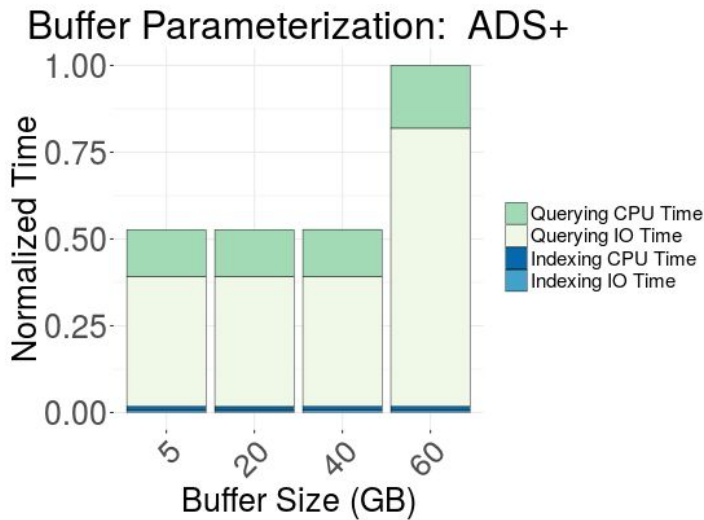
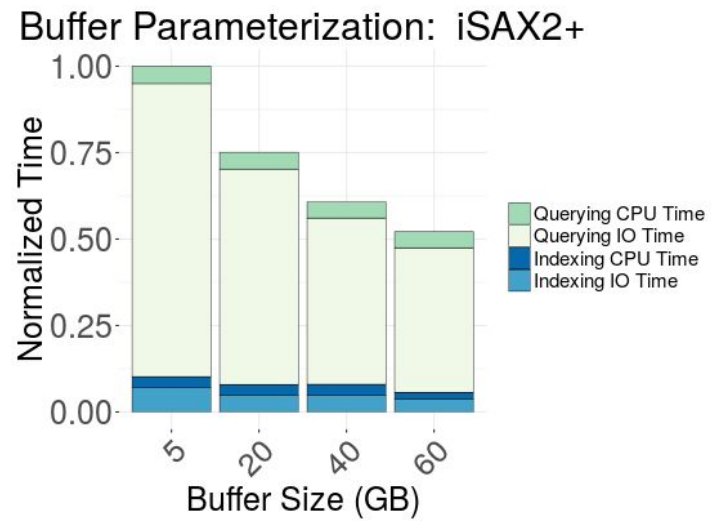
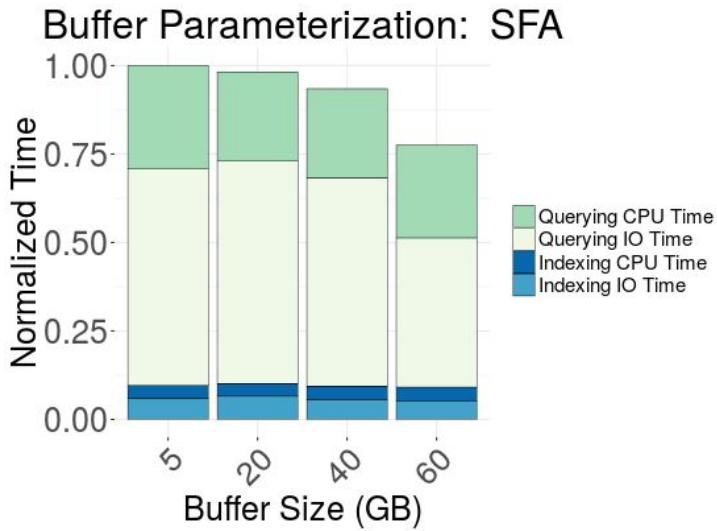


Leaf Size Parameterization

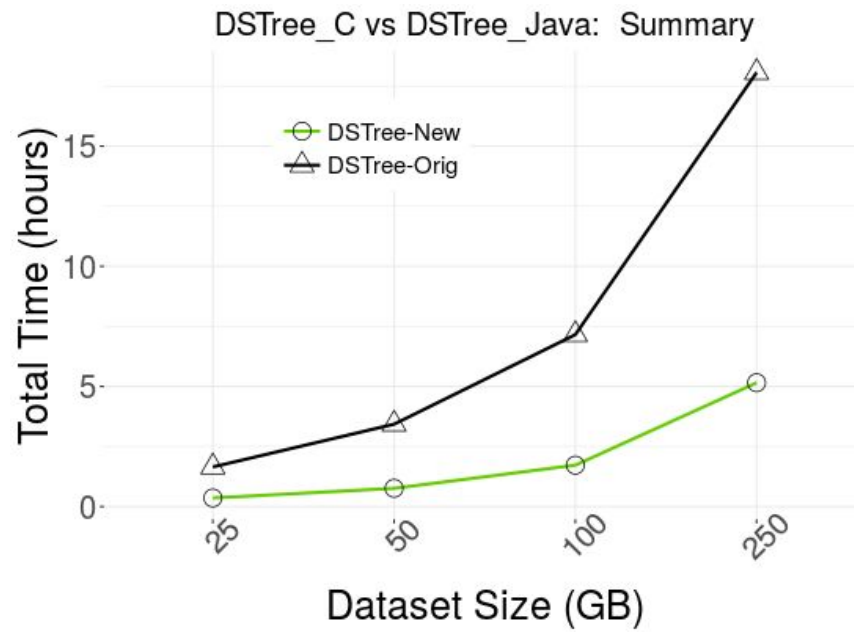


Buffer Size Parameterization

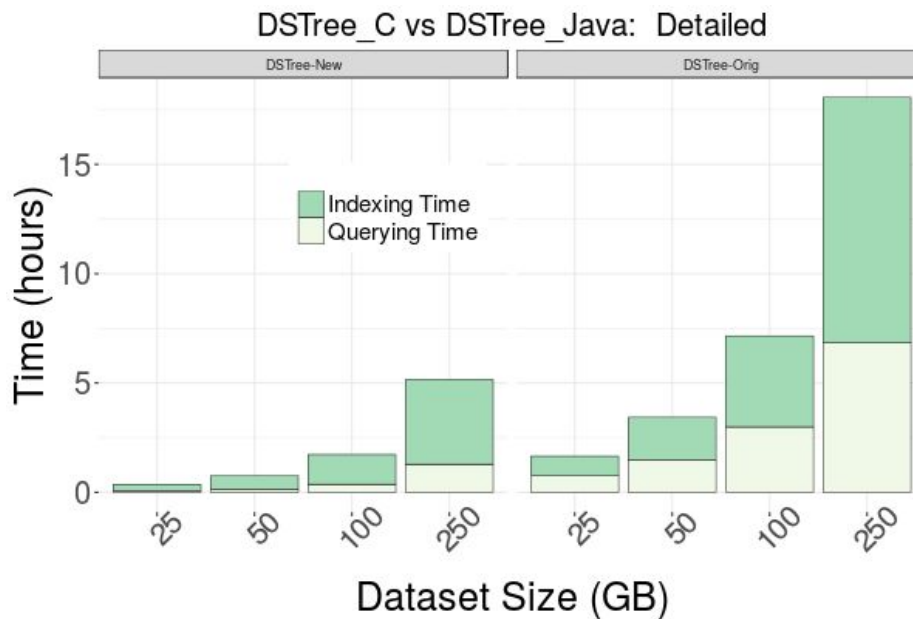


New DSTree Performance Improvements

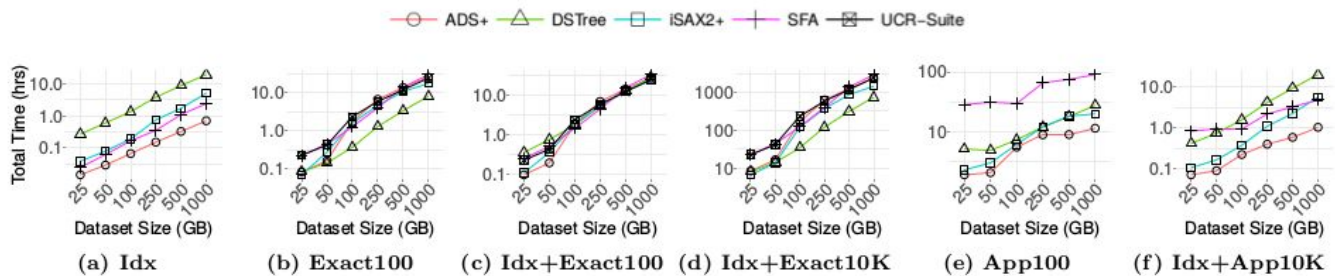
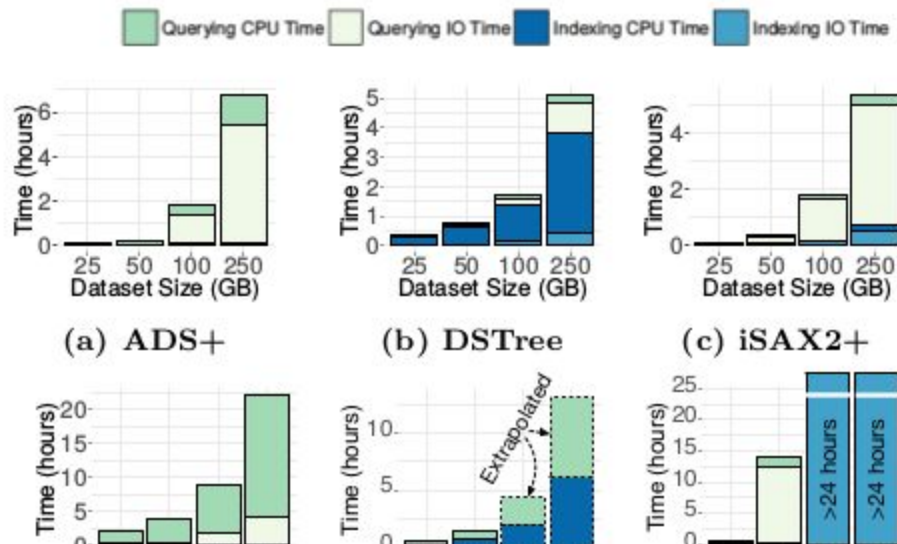
Combined Indexing and Querying Times



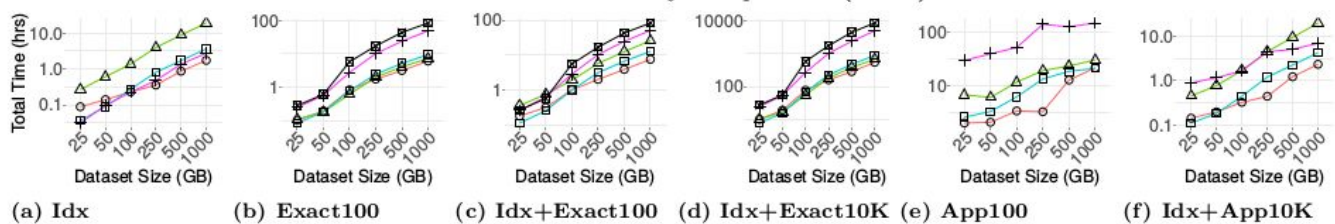
Detailed Indexing and Querying Times



Scalability and Search Efficiency vs. Datasize

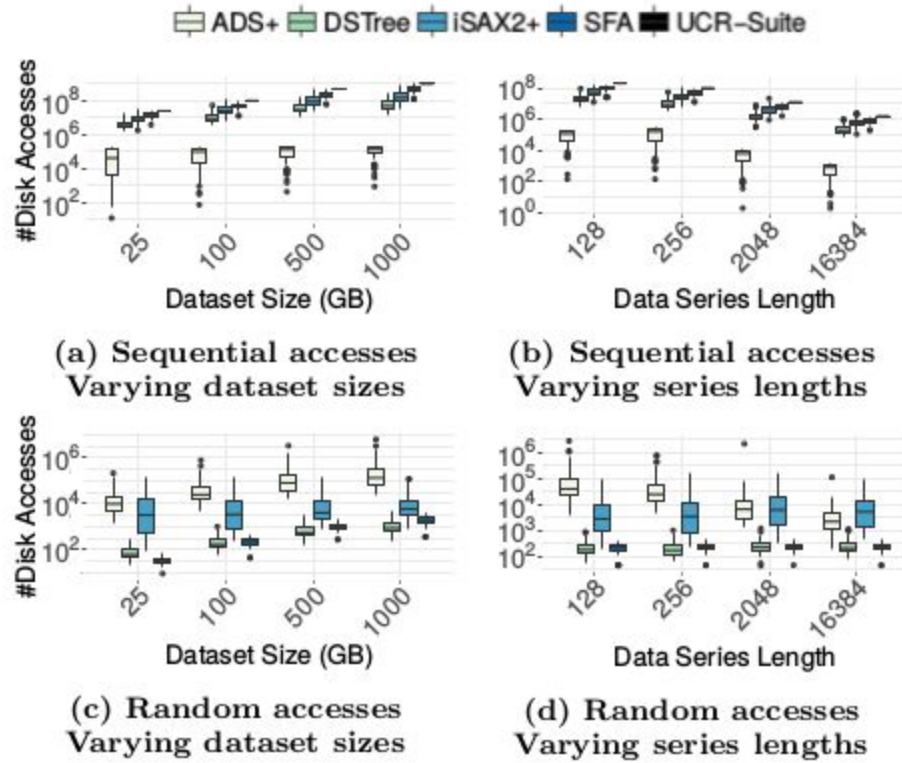


Scalability comparison (HDD)

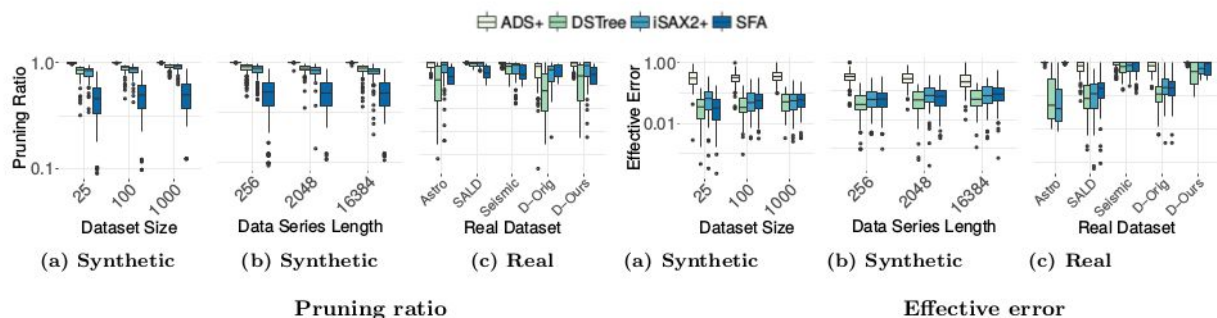


Scalability comparison (SSD)

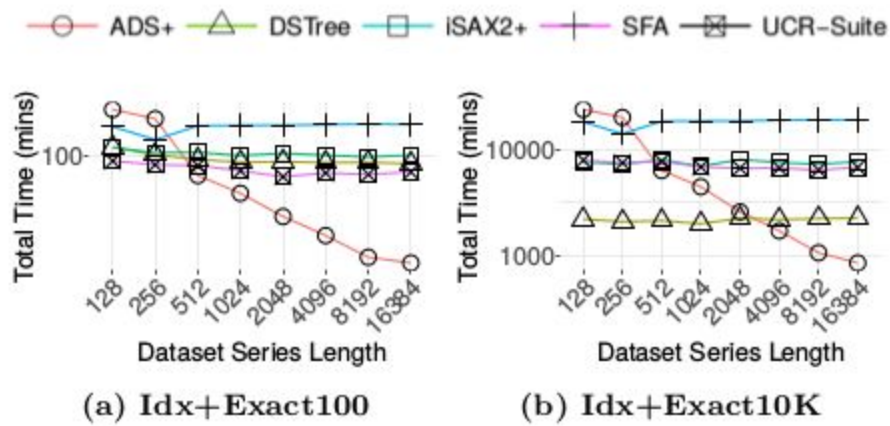
Comparison of Disk Accesses



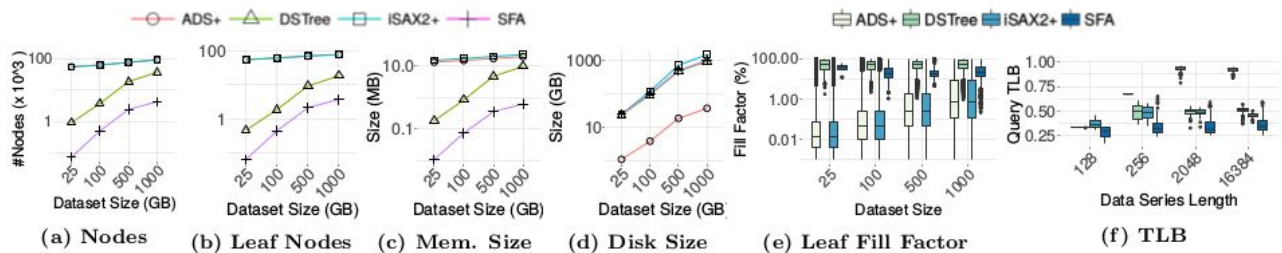
Comparison of Pruning and Effective Error



Scalability and Search Efficiency vs. Length

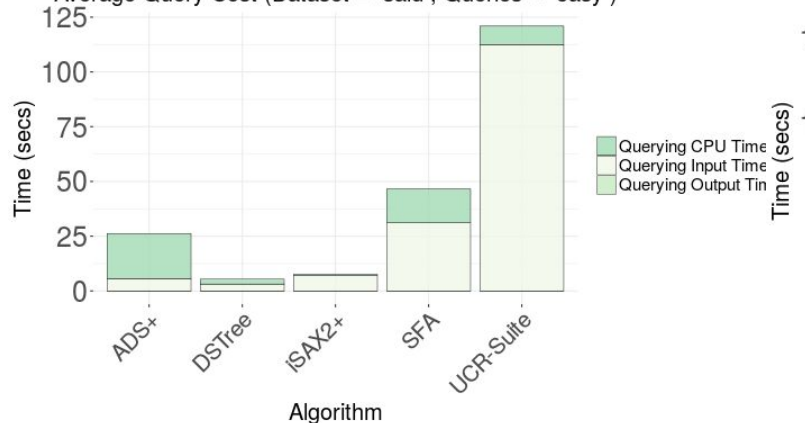


Memory/Disk Footprint + TLB

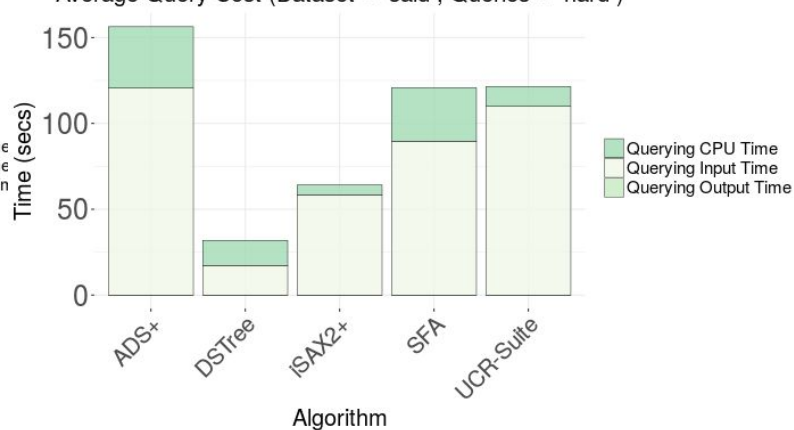


Real Data Experiments-Average Query Time-HDD

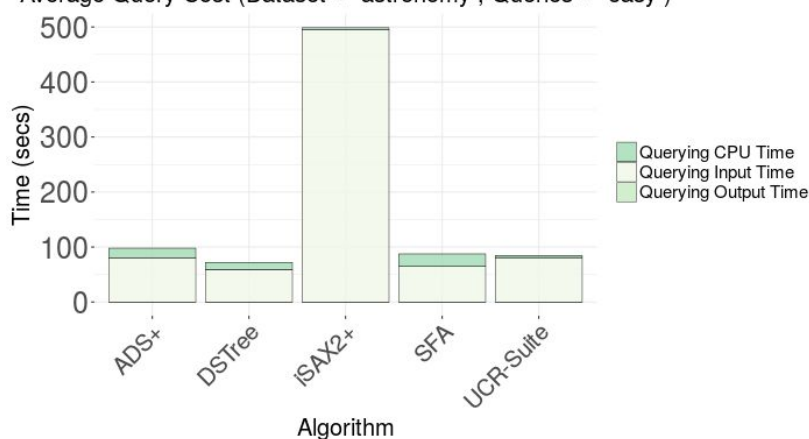
Average Query Cost (Dataset = sald , Queries = easy)



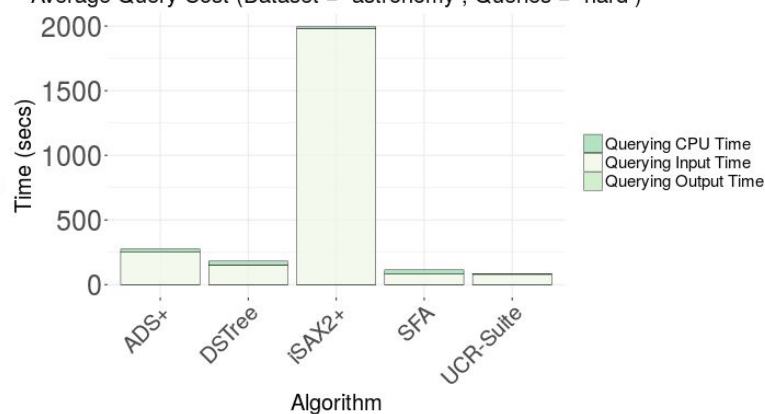
Average Query Cost (Dataset = sald , Queries = hard)



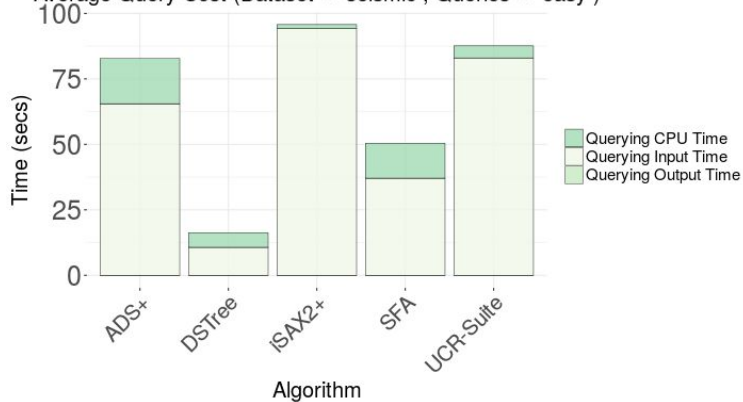
Average Query Cost (Dataset = astronomy , Queries = easy)



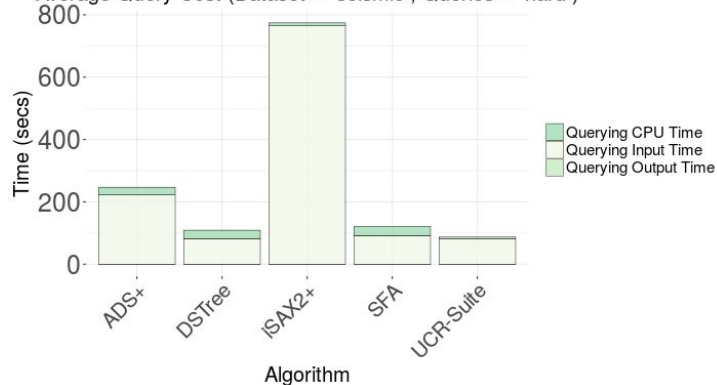
Average Query Cost (Dataset = astronomy , Queries = hard)

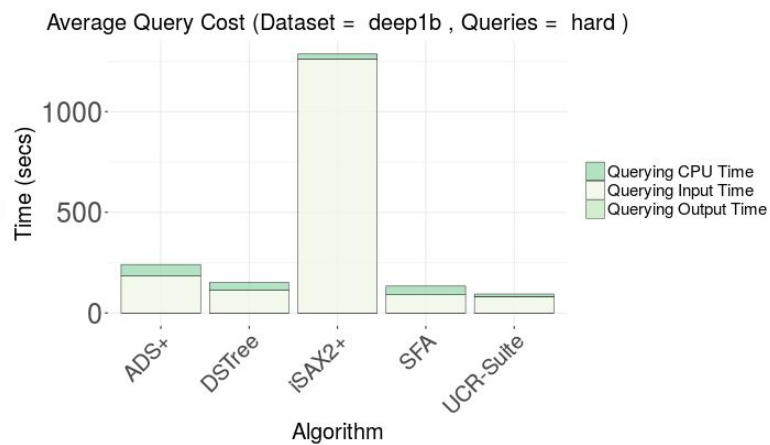
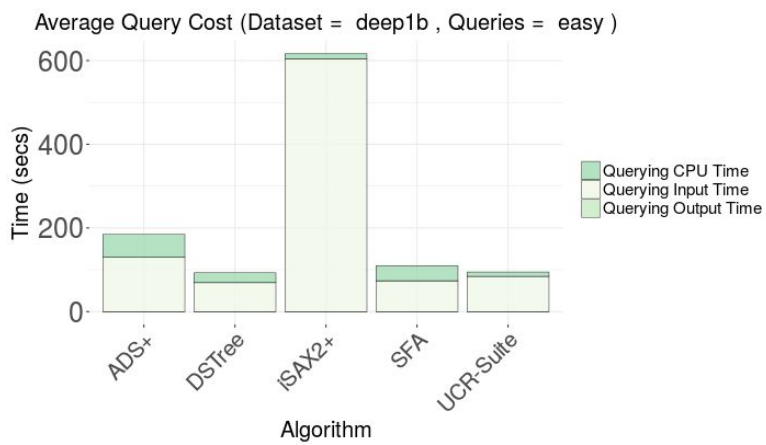


Average Query Cost (Dataset = seismic , Queries = easy)



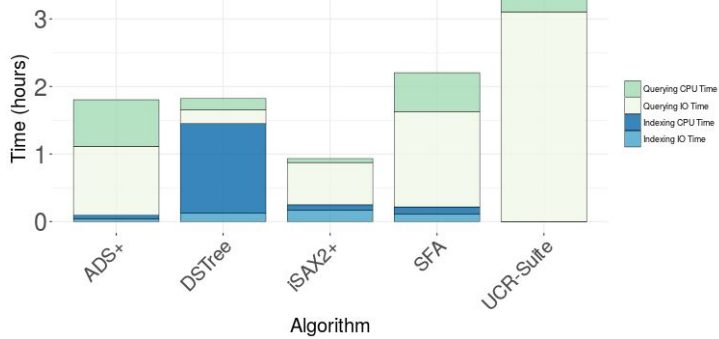
Average Query Cost (Dataset = seismic , Queries = hard)



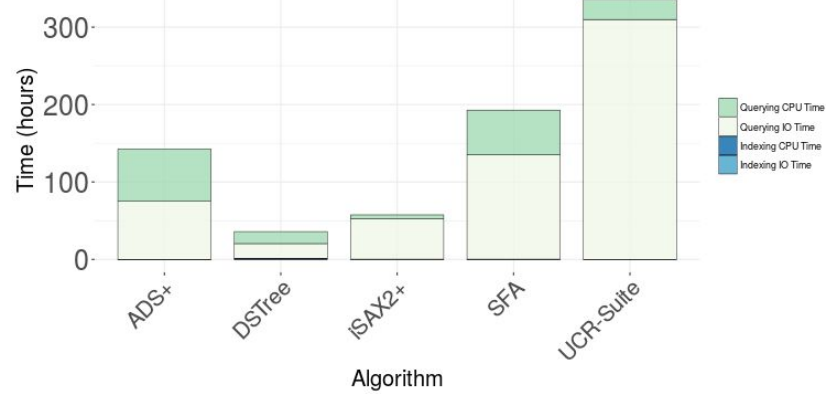


Real Data Experiments-Total Workload Time-HDD

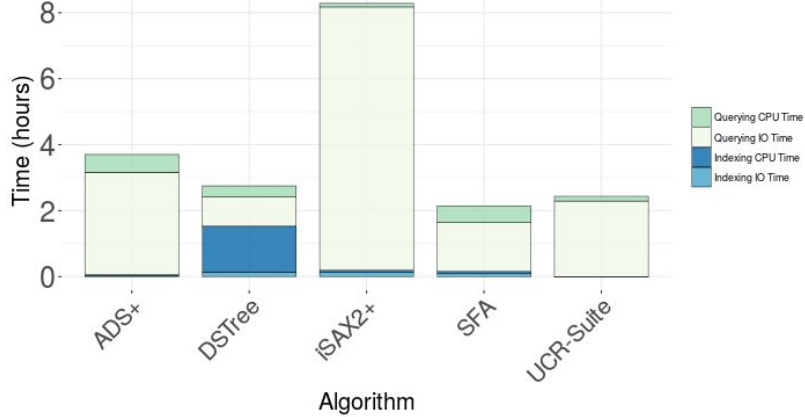
Indexing and Querying Cost (Dataset = sald , Real Queries = 100)



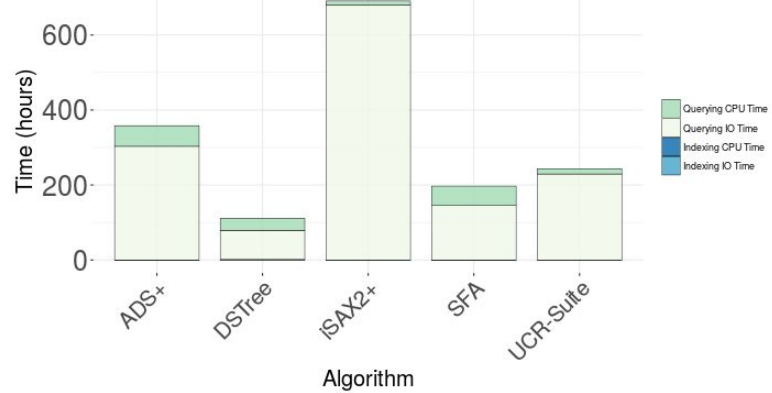
Indexing and Querying Cost (Dataset = sald , Real Queries = 10000)



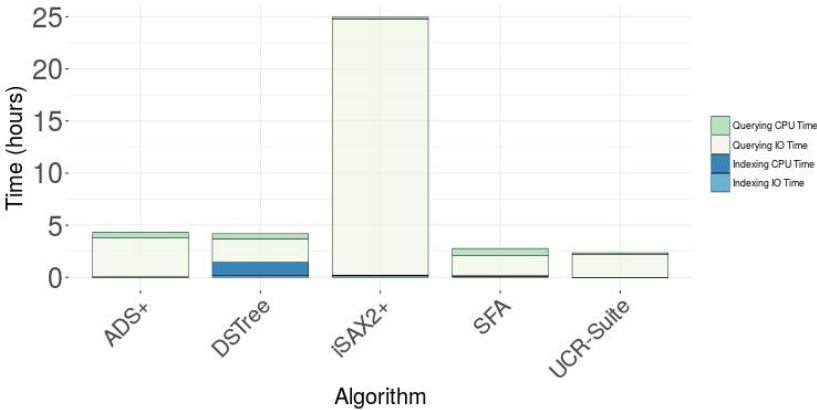
Indexing and Querying Cost (Dataset = seismic , Queries = 100)



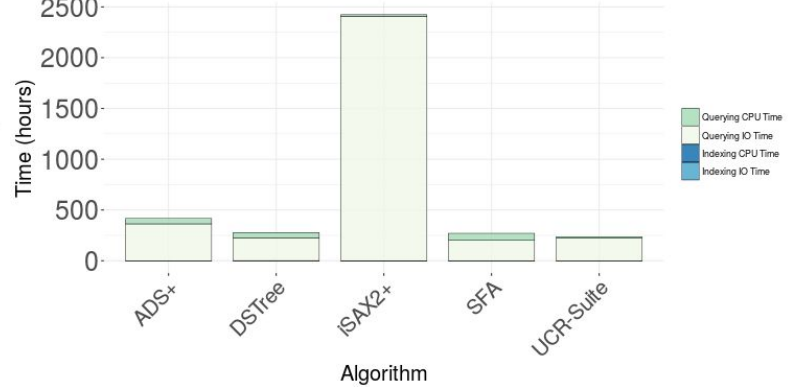
Indexing and Querying Cost (Dataset = seismic , Queries = 10000)



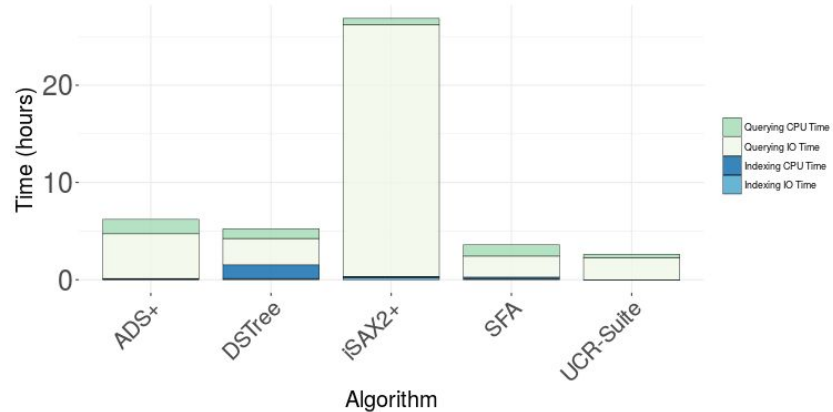
Indexing and Querying Cost (Dataset = astronomy , Queries = 100)



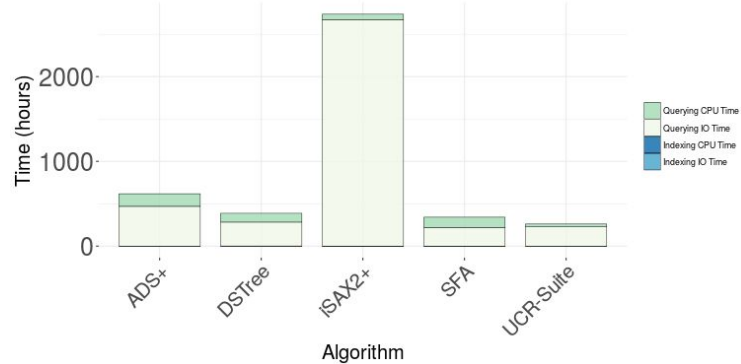
Indexing and Querying Cost (Dataset = astronomy , Queries = 10000)



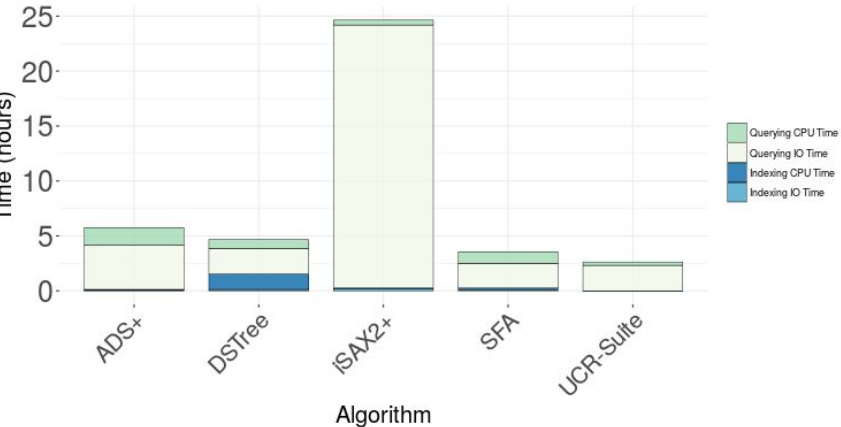
Indexing and Querying Cost (Dataset = deep1b , Real Queries = 100)



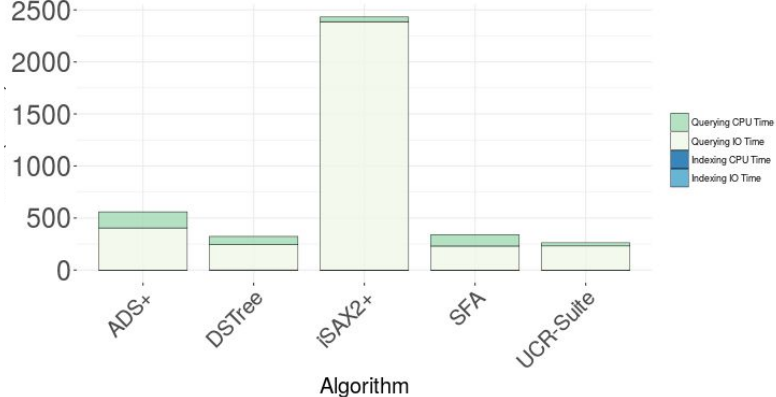
Indexing and Querying Cost (Dataset = deep1b , Real Queries = 10000)



Indexing and Querying Cost (Dataset = deep1b , Our Queries = 100)

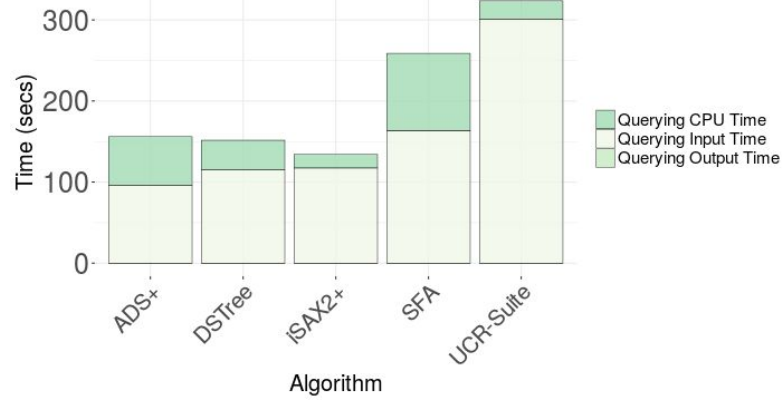


Indexing and Querying Cost (Dataset = deep1b , Our Queries = 10000)

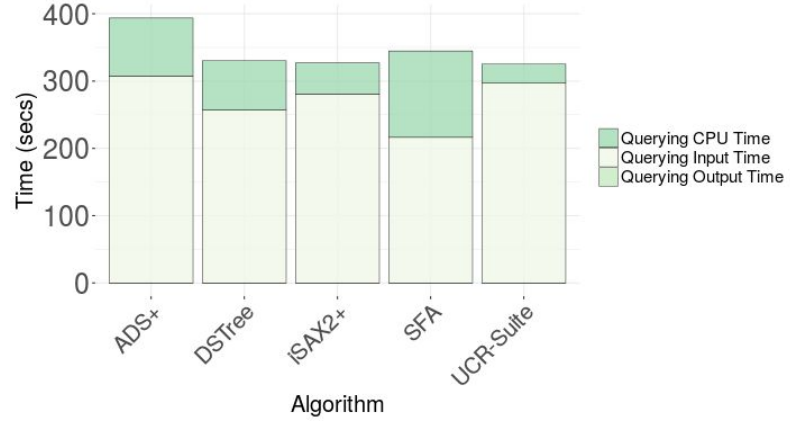


Real Data Experiments-Average Query Time-SSD

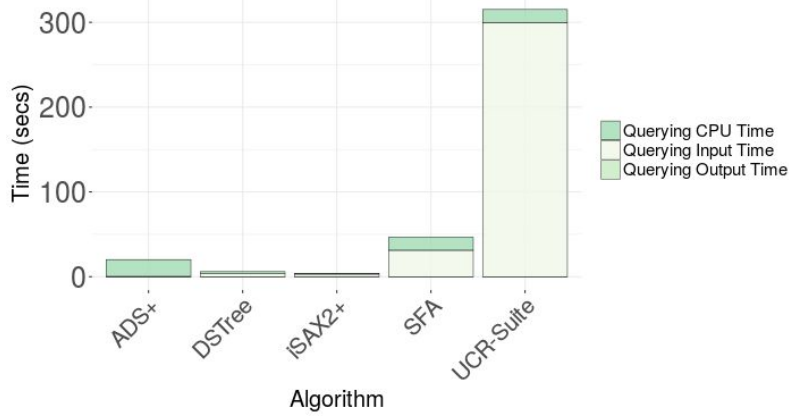
Average Query Cost (Dataset = deep1b , Queries = easy)



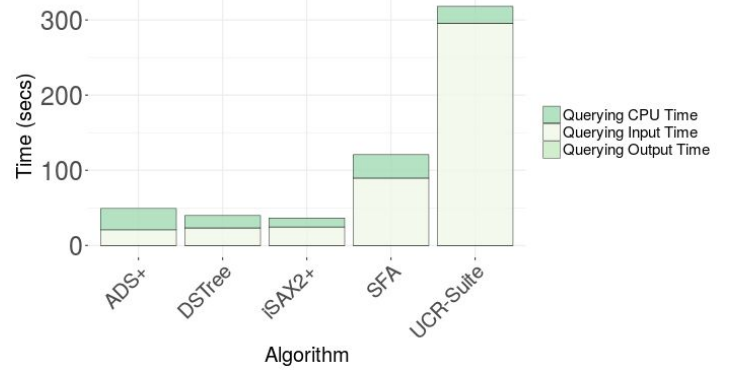
Average Query Cost (Dataset = deep1b , Queries = hard)



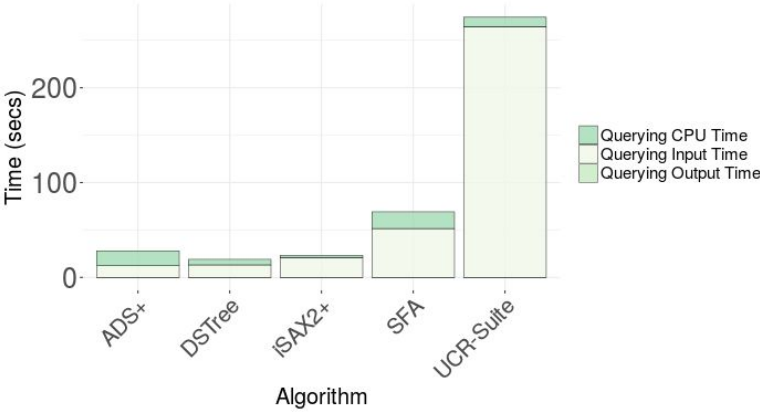
Average Query Cost (Dataset = sald , Queries = easy)



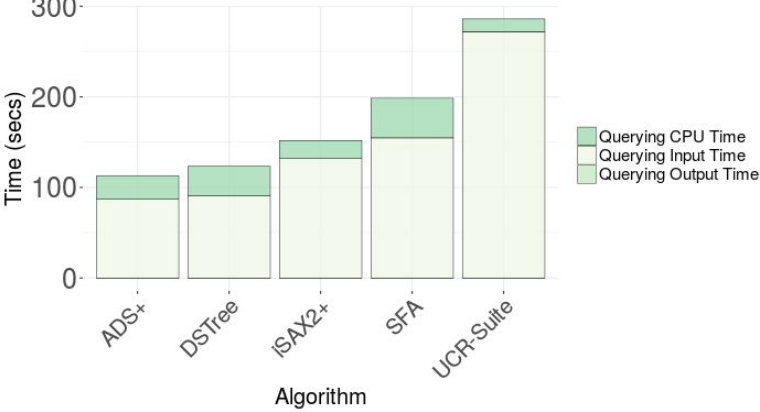
Average Query Cost (Dataset = sald , Queries = hard)



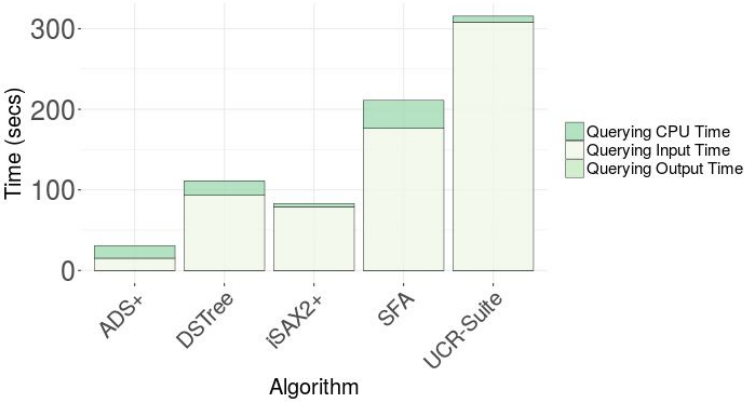
Average Query Cost (Dataset = seismic , Queries = easy)



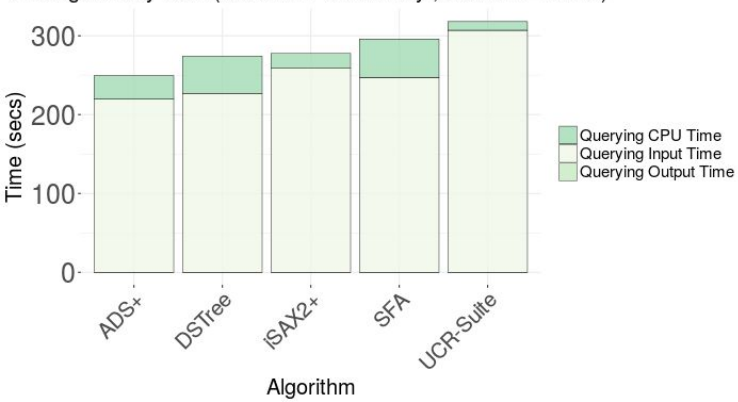
Average Query Cost (Dataset = seismic , Queries = hard)



Average Query Cost (Dataset = astronomy , Queries = easy)



Average Query Cost (Dataset = astronomy , Queries = hard)



Real Data Experiments-Total Workload Time-SSD

