Gene Sequences (N = 1 Million+)
Select Reference
Reference Sequence Set (M = 100K)
Twister Iterative MapReduce
Pairwise Alignment & Distance Calculation
O(MxM)
Distance Matrix
512 286 164 67
788 62 40 343
34 608 486 389
887 661 539 22
N - M Sequence Set (900K)
Twister Iterative MapReduce
Interpolative MDS with Pairwise Distance Calculation
O(Mx(N-M))
Reference Coordinates
x, y, z
Twister Iterative MapReduce
Multi-Dimensional Scaling (MDS)
O(MxM)
N - M Coordinates
x, y, z
Visualization
3D Plot