## Quick Sort – Ascending Initialization

- The 11 data points indicate an O(n²) relationship between list length and sorting time. The relation between length of list and time can be modeled by .000000000823\*n²-.000003\*n+.197
- Prediction for the time required for Merge Sort to sort an ascending (pre-sorted) list of length 10,000,000: y(10000000)=82270.197 seconds or 22.85 hours

