## Quick Sort – Ascending Initialization

- The 11 data points indicate an O(n log<sub>2</sub> n) relationship between list length and sorting time. The relation between length of list and time can be modeled by n\*log<sub>2</sub>(n)/660939165.693
- Prediction for the time required for Quick Sort to sort an ascending (pre-sorted) list of length 10,000,000,000: y(1000000000)=502.61 seconds or 8.38 minutes

