

## Insertion Sort – Ascending Initialization

- The 11 data points indicate an linear relationship  $O(n)$  between list length and sorting time. The linear trendline fits the data with an  $R^2$  value of .9999.
- Prediction for the time required for Insertion Sort to sort an ascending (pre-sorted) list of length 10,000,000,000:  
 $y(10000000000)=29.9997$  seconds

