Zachary Mietzner Dr. Jeffrey

1. *Using default hash functions, what worked best for unsinged keys: Linear, Quadratic, or Chaining?*

Using the default hash functions, the best implementation for unsigned keys is Chaining. Although Chaining had a lower average number of successful probes, the average unsuccessful probes was also low meaning that it had better success when working through the hash table than linear and quadratic probing did. Chaining had the least experimental error.

1. *Using default hash functions, what worked best for string keys: Linear, Quadratic, or Chaining?*

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1. *Using my hash functions, what worked best for unsigned keys: Linear, Quadratic, or Chaining?*

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1. *Using my hash functions, what worked best for string keys: Linear, Quadratic, or Chaining?*

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1. *Did you notice any tests taking longer than the other tests? Which ones? Why?*

One test that seem to take longer than others is the chaining method. Although chaining is also the best method as seen in the results, it is also the most time consuming. It is most time consuming because chaining uses linked lists. Using linked lists requires more memory which means a longer runtime for the chaining tests. While chaining being more efficient when it comes to results, it is not efficient when it comes to time.