Computer Science 222: Succincter

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Professor Mitzenmacher

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Final Project

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1 Abstract

Using Mihai Patrascu's 2008 paper "Succincter", we implement a way to store trits (trinary values) within 1.05% of the ideal space of $n * log_2(3)$ while having lookup in $O(t)$ time, where t is the depth of our data structure. We find that this is both a fast and space efficient data structure with room for extension past simply storing trits.

2 Introduction

There are few effective methods for storing trits

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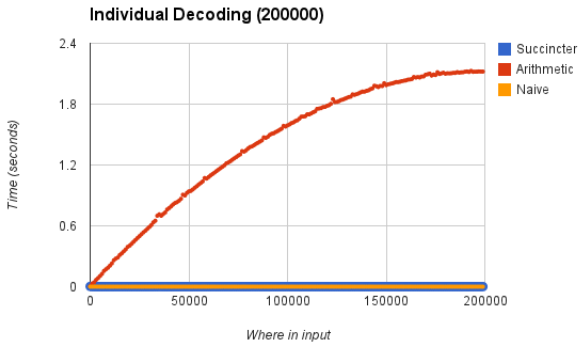
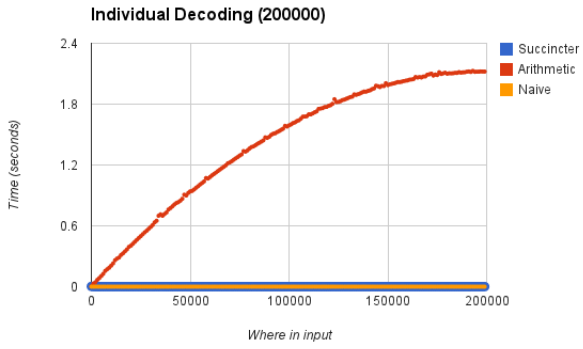
3 Implementation

4 Results and Analysis





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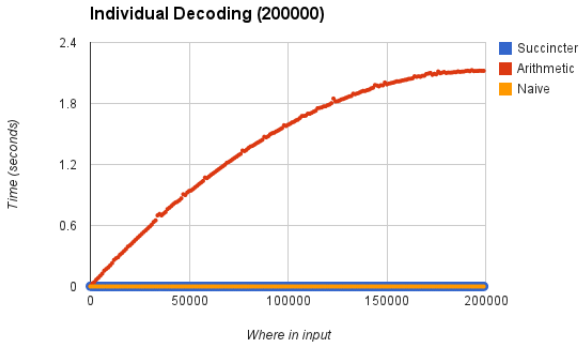

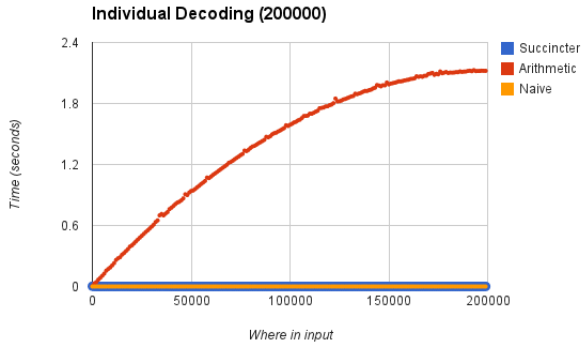

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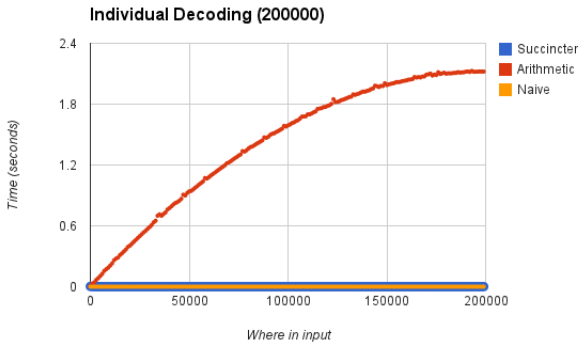

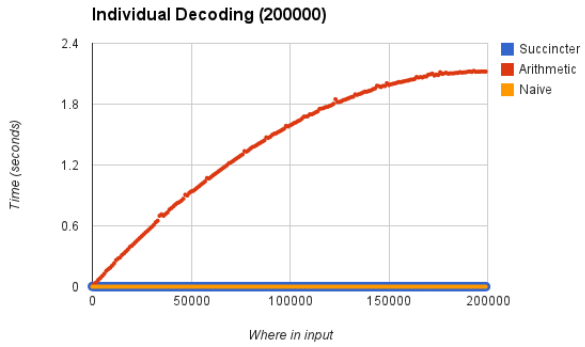

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Conclusion

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Appendix