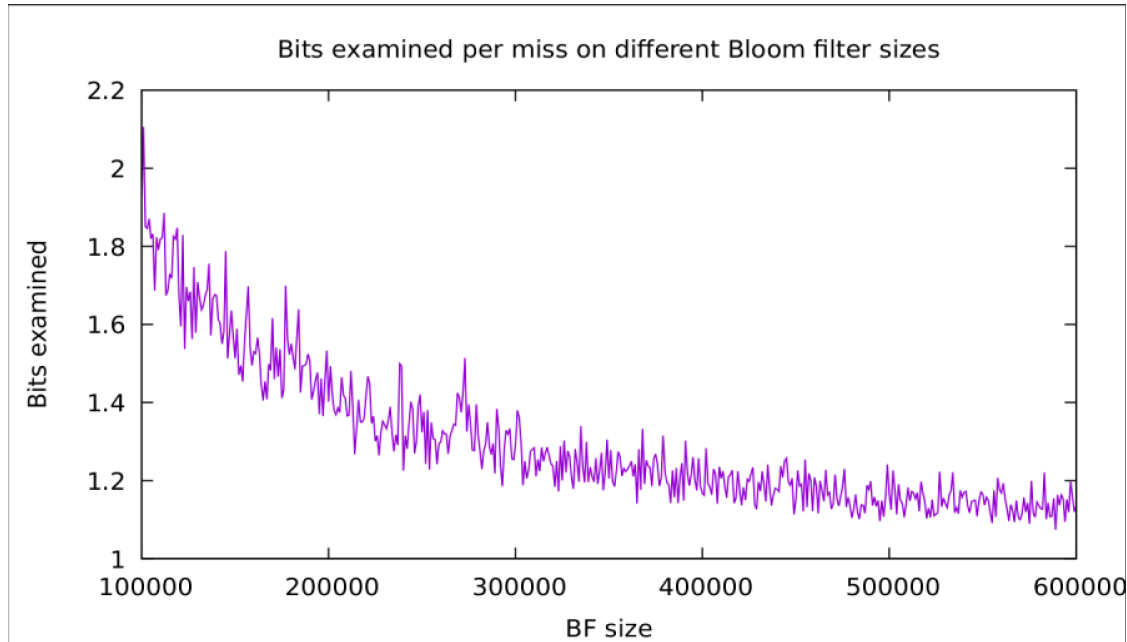


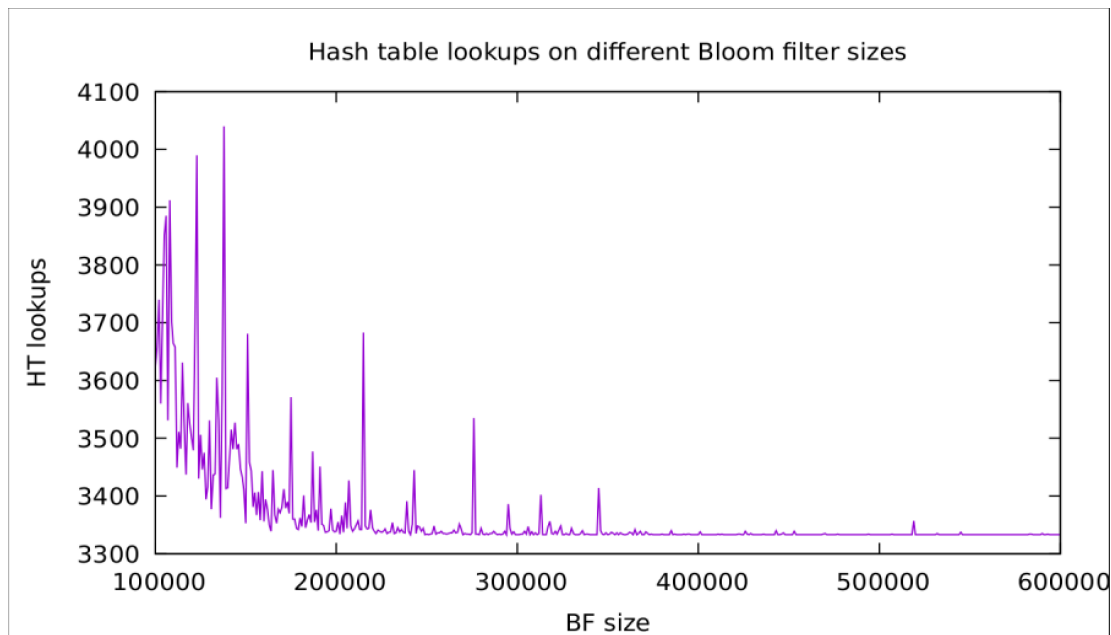
Assignment 6 Writeup

How does the number of Bloom filter bits examined per miss vary (for the same input) as the Bloom filter varies in size?



The number of bits examined per miss decreases as the Bloom filter's size increases.

How does changing the Bloom filter size affect the number of lookups performed in the hash table?



Increasing the Bloom Filter's size decreases the number of lookups performed in the hash table.

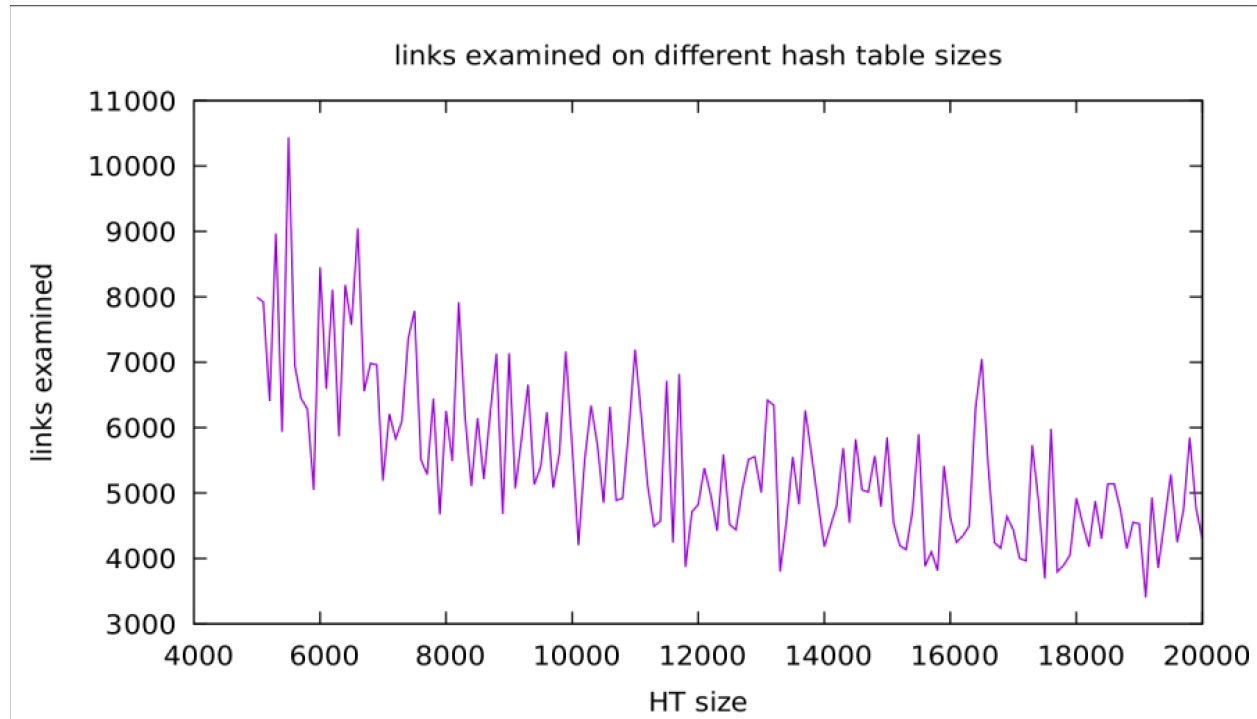
How does the number of links followed without the move-to-front rule compare to the number followed with the move-to-front rule?

With MTF: **ht probes: 3364**

Without MTF: **ht probes: 5698**

The number of links goes down with the move-to-front rule.

How does the number of links examined vary as the size of the hash table varies? What does this say about setting the size of the hash table when using a chained hash table?



As the size of the hash table increases the number of links examined decreases. This shows that increasing the size of the hash table when using a chained hash table reduces the amount of links that will have to be passed through.