After several days of testing and complete rewrites of the program I found the solution. The Array List is by far the fastest data reading method; however it is the slowest method when it comes to comparing data to another Array list. HashSet comes in second as it spends time sorting the data unlike TreeSet. The Array list yields many more results as it does sort or remove duplicate entries. For this reason Array List has a substantial amount of extra data to scan. TreeSets are much faster as they remove duplicate entries however they lose some efficiency since it does not sort the data. HashSets are far faster as they sort the data, therefore optimizing the searching prosses. I would choose TreeSet over HashSet as the TreeSet keeps the order integrity. The data is the same in both Sets as they are not thread safe however the HashSet does not retain the original order of the data entries. Running the test yields progressively faster times each run as the data forms a pattern for recalling the data from cache instead of reprocessing the data. All three methods can enjoy significantly faster results from running synchronized threads that processes the data in chunks.