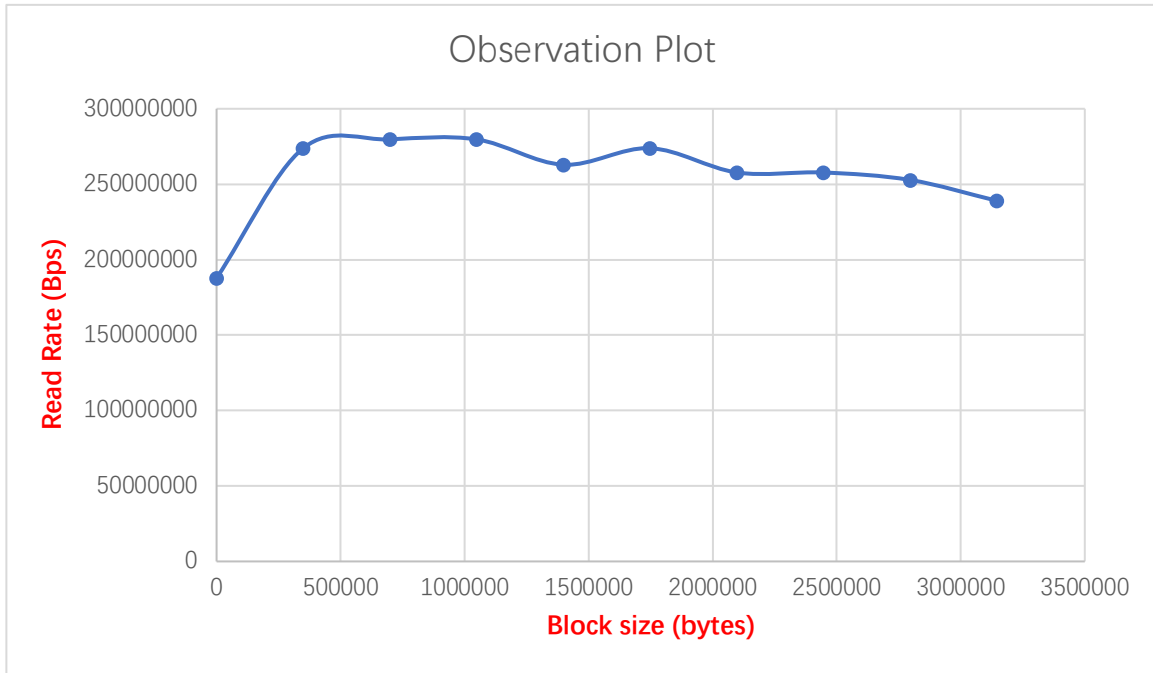


Report for part1.2: get_histogram:

Total bytes written: 10000000 Bytes

Script name: get_histogram.sh

1)



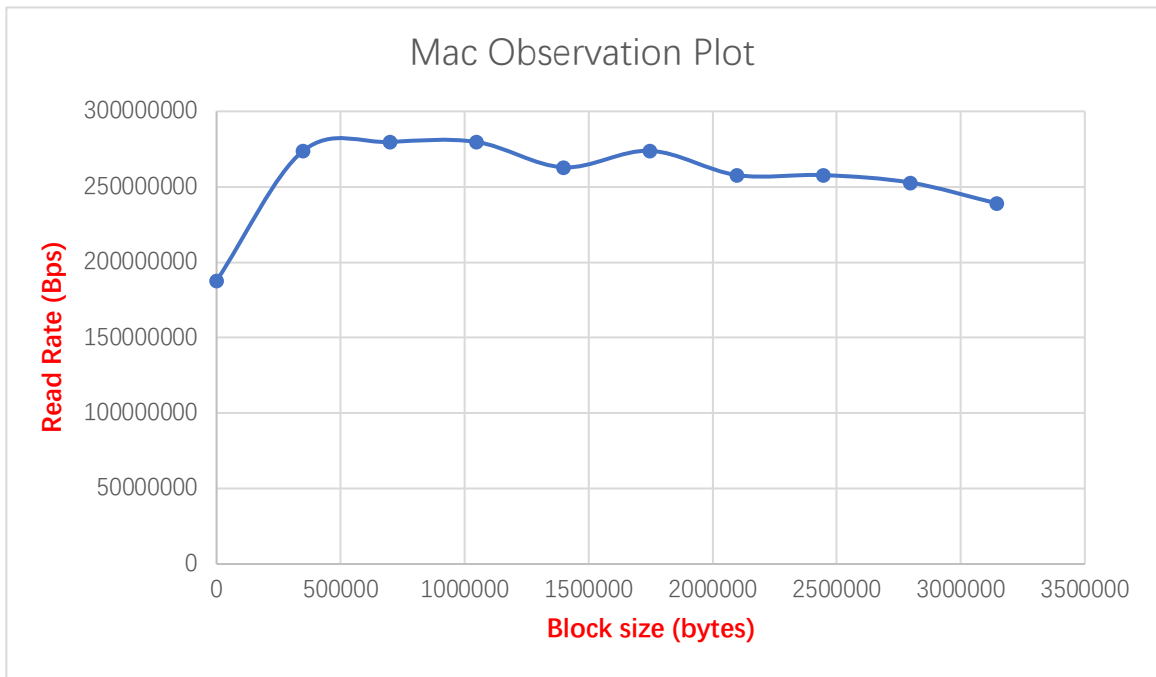
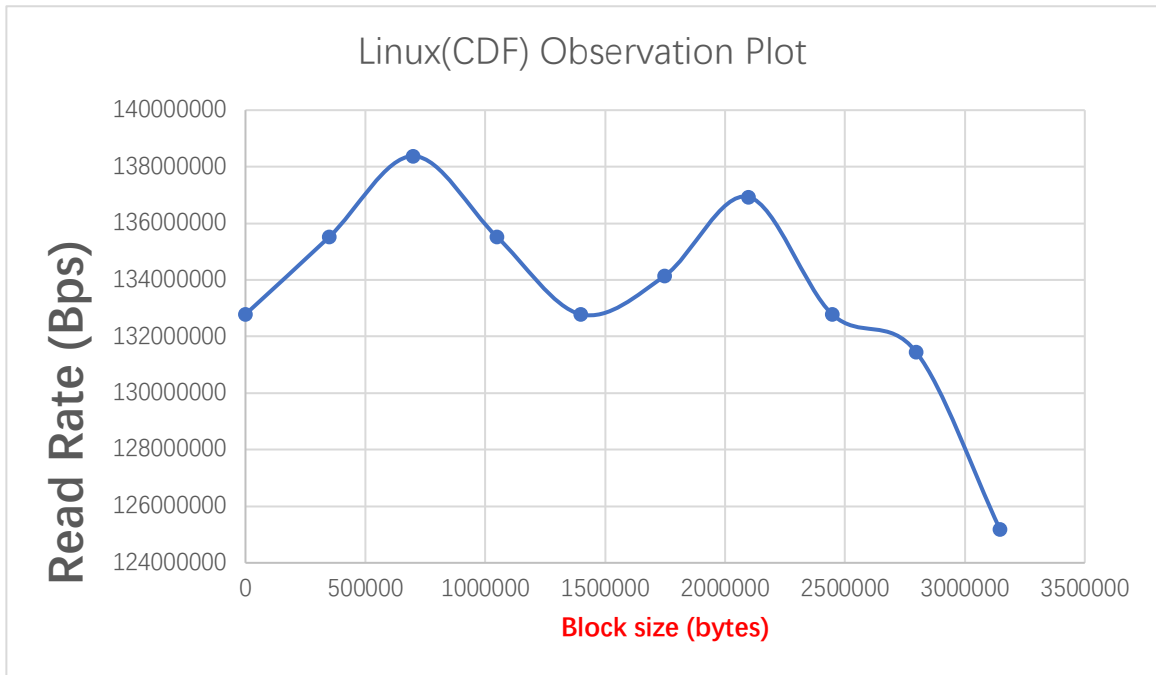
Simple explanation:

Small block size like 100B will have a low read rate as it will take many loops to finish reading the whole document. Large block size will have a lower read rate since it takes time to fill the larger buffer.

2)

The optimal block size for read might depends on the types of disk, hard drive, etc. And, it can be affected by the total bytes needed to write as well. From the above experiment, 70kB is the optimal block size since it mostly takes the less time to finish the read.

3)



Comparison:

Mac (macbook pro) seems to have a higher read rate than cdf machine. It can be caused by different hard disk. The optimal writing block size is still 70kb in both medium. And greater black size can possibly slow down the reading rate.