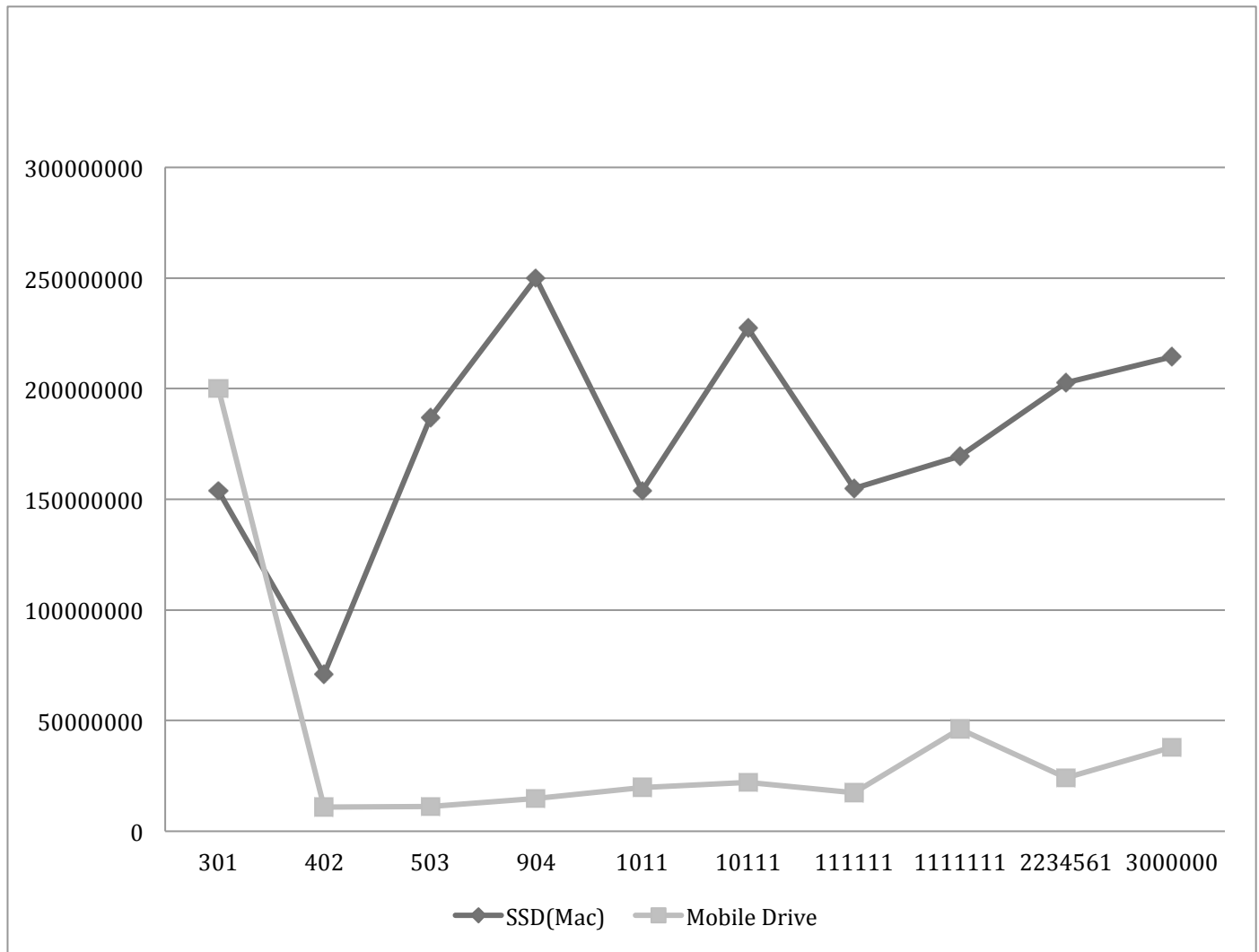


Disk I/O Report

PART I (Data Write I/O)

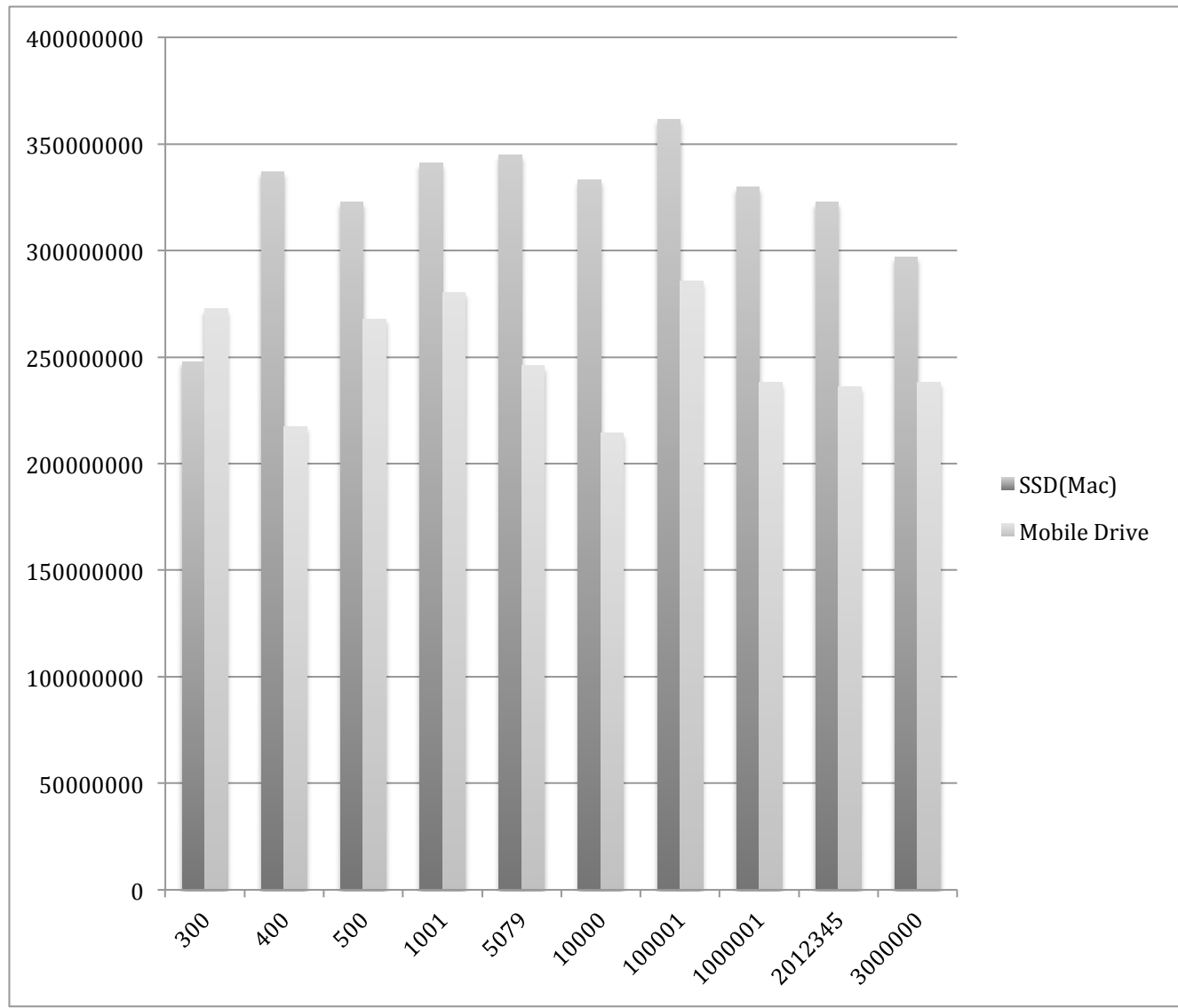
Write I/O Rate VS Block Size



- The first data (block size 301) for mobile drive is considered as an outlier, maybe writing to mobile drive at the beginning will be very fast but will get much slower later.
- Generally speaking, no matter for SSD (Mac) or mobile drive, the speed of data writing from memory to the drive has a positive direct relationship with block size (i.e., speed of write I/O from memory to drive is proportional to block size).
- SSD has a higher write I/O speed (rate) than the external mobile drive.

PART II (Data Read I/O)

Read I/O Rate VS Block Size



- SSD has a higher read I/O rate than mobile drive.
- The optimal block size of read I/O for both SSD and the mobile drive is around 100000 B.
- Unlike write I/O rate, there is no a clearly direct positive relationship between write rate and block size.