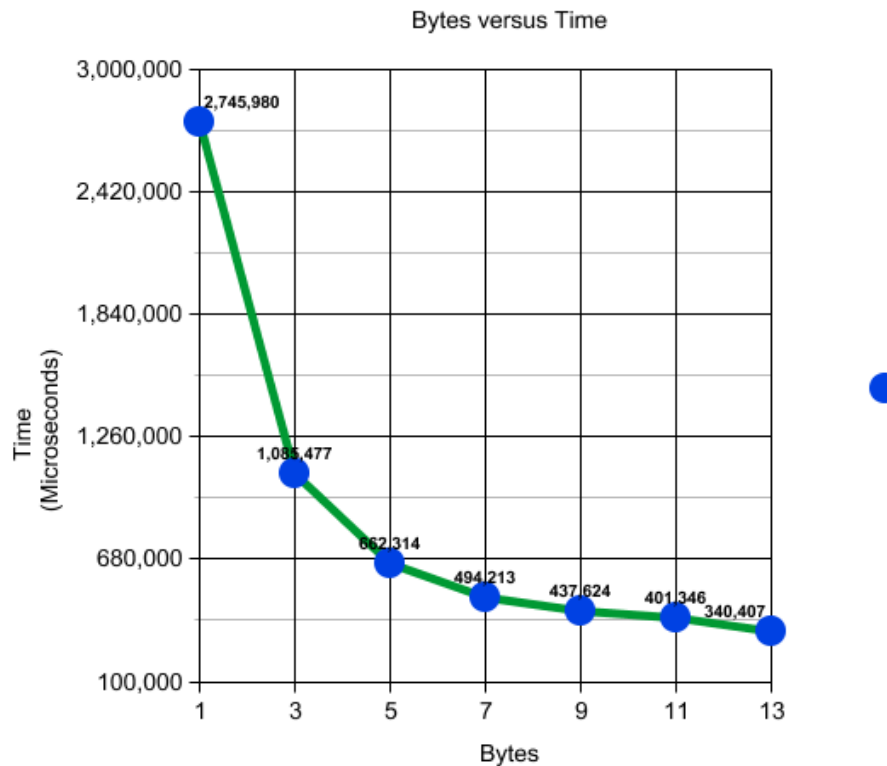Christopher Wood
3/25/19
Homework 4
COSC 4348

Systems Programming Homework 4

The graph above was created using a dummy file called "test.txt" which is 2.1 MBs. While running the experiment, the higher the bytes allowed for file transfer while using file descriptor, the time taken during the function began to decrease dramatically from 1 to 3 bytes. Since 1 byte was only allowing one character to transfer each time from the files, this took the maximum amount of time due to the size of the file being transferred. Once the program was able to use multiple bytes for transfer, the time began to decrease but not as significantly because each time multiple characters were being transferred at a time compared to the original one-byte transfer. In conclusion, the amount of time for file transfer using file descriptors decreases when the number of bytes in the buffer is increased, which allows more characters to be transferred between files at a time.