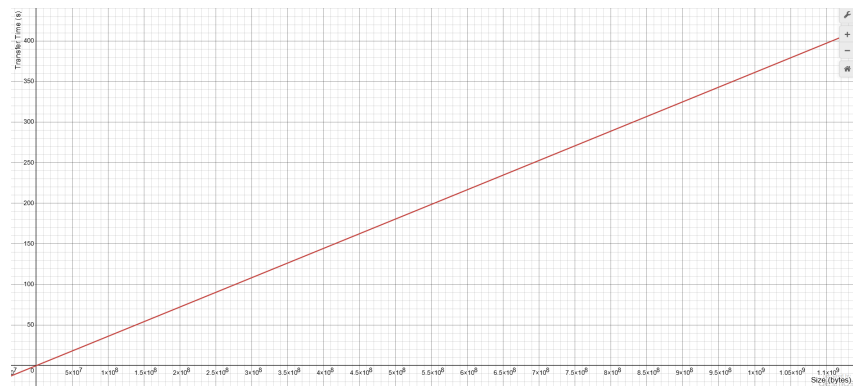


PA 1 Report:

1. Create files of varying sizes and record the time it takes to transfer them. Visualize the execution time vs file size. Does the trend make sense?

Size	Transfer Time (s)
1 byte	0.000582719
1 kilobyte	0.00107921
1 megabyte	0.359692
1 gigabyte	361.24



The pattern seen is that as size increases, so does transfer time, linearly. This makes sense because the algorithm chunks off segments and transfers them altogether. For a larger file, transfer time should (and does) increase linearly.

2. What is the main bottleneck that stops the code from transferring files faster? Describe in one or two sentences

The main bottleneck is the maximum chunk size. Increasing the maximum size of each data chunk would decrease the number of transferred chunks, speeding up the data transfer process.