**In-depth Observational Assessment:**

* All Functions Disabled
  + Remarkable speed-up in file transfer speed, reaching as low as 0µs.
  + The server exhibited more traces than the client, with no observed errors.
  + No errors were observed.
  + Slight slowness (approximately 4.01ms) on the server side during file receipt.
* All Functions Enabled
  + Noticeable slowness due to rate limiting, compression, and decompression on the server side, resulting in speeds averaging >3ms.
  + Balanced file transfer process overall.
  + No errors were observed.
* Compression & Chunking Disabled
  + File transfer speed averaged 5ms, indicating some slowness due to rate limiting on the server end.
  + Larger files experienced latency from the client side due to the absence of chunking and compression, adversely affecting performance.
  + No errors were observed.
* Compression Disabled
  + Larger files took an average time of 2-3ms, while smaller ones were transferred in microseconds.
  + No errors were observed.
* Chunking Disabled
  + File transfer speed was impacted, particularly with larger files, due to the absence of chunking.
  + Latency from the client side was notable, affecting overall performance.
  + No errors were observed.
* Chunking & Rate Limiting Disabled
  + Absence of small files due to effective compression.
  + File transfer took 5ms on average.
  + File receipt took 3ms on average.
  + No errors were observed.
* Compression & Rate Limiting Disabled
  + Faster file receipt was observed as files were broken into variable chunks.
  + Slowness on the client side due to the chunking process.
  + No errors were observed.
* Rate Limiting Disabled
  + Overall, files were being transferred at remarkable speeds in microseconds.
  + The client experienced slowness due to chunking and compression.
  + The server received the files on an average of 2ms.
  + No errors reported