Computer Networks A3

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1 Introduction

1.1 Algorithm:

- 1. Established socket connection with the server host.
- 2. Sent "SendSize" request through the socket.
- 3. Initially our offset is zero and each time we request chunks of 1448 bytes from the server.
- 4. when it cant receive the data from server it has a timeout of 0.1 seconds and sends request again until it receives.
- 5. As we receive the data we update the offset by 1448 bytes.
- 5. Now we store these data chunks in a hash table with Offset as a key and data chunk as its value.
- 6. At last we have combined the data chunks in the hash table by sorting the offset values as they may have unordered sequence.
- 7. Because of hash table we get the data according to the sequence numbers we desire which ensures the reliability of data.
- 8. Finally we converted the string into MD5 hash having in hexadecimal number system and sent to the server.

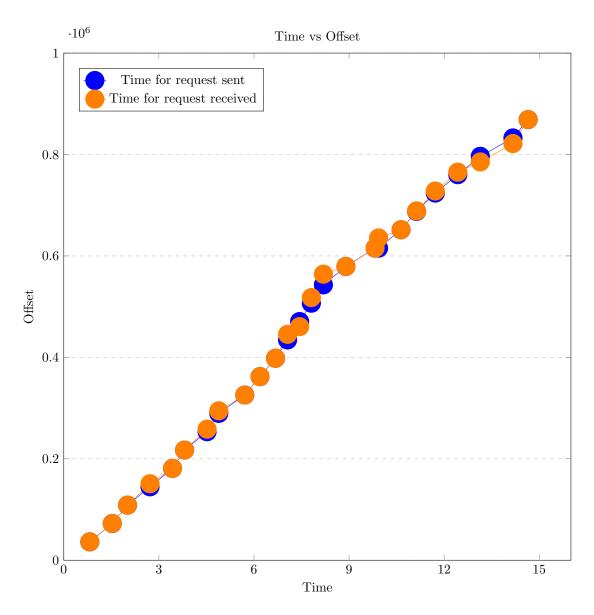


Figure 1: Time vs Offset (Requests) with local server

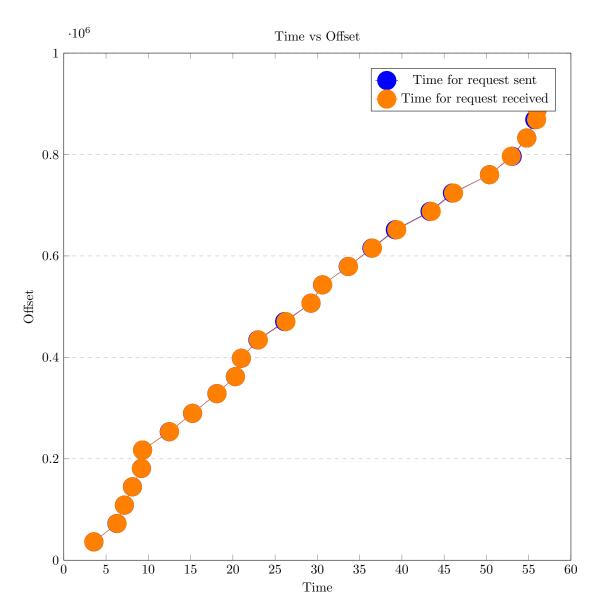


Figure 2: Time vs Offset (Requests) with other server