

Document Description

This document is to illustrate rules of converting output of [kS1.py/kS2.py](#) to a table of time cost.

Target Table

-	S1 Server	S2 Server	Transmitted Data Size	Transmission Time
Distance Calculation				
Partitioning				
Updating Centroids				

Rules:

Here we use (row_index, col_index) to represent a empty cell in target table

1. (1,1) sum of [kS1:cal_dis,ciphertext_calculation_time]+
[kS1:cal_dis,ciphertext_sign_time]
2. (1,2) sum of [kS2:cal_dist_s2_time]
3. (1,3) sum of [kS1:cal_dis,send/receive size]
4. (1,4) sum of [kS1:cal_dis,socket_time]-(1,2)
5. (2,1) sum of [kS1:find_min_dist,l=[x],time]+[kS1:reassign time]
6. (2,2) sum of [kS2:find_min_dist,l=[x],time]
7. (2,3) sum of [kS1:find_min_dist,l=[x],send/receive size]
8. (2,4) sum of [kS1:find_min_dist,l=[x],socket_time]-[kS2:find_min_dist,l=[x],time]
9. (3,1) sum of [kS1:update_enc_center time]