Number of Clients/Number of Rank 1 Client’s Followers = 2

The column of time is that the system needs to reduce CPU using rate to stable rate (Showing in CPU column). Time is displayed in second.

|  |  |  |
| --- | --- | --- |
| User | Time | CPU |
| 5000 | 5 | 0.5 |
| 10000 | 8.5 | 1 |
| 15000 | 20 | 3 |
| 20000 | 38 | 4 |
| 25000 | 89 | 5 |
| 30000 | 258 | 6 |
| 40000 | 1440 | 10 |

O(n3) + O((mn)2) is the time. N is the number of clients, m is the number of rank 1 client’s followers. When n and m are small, time is mainly influenced by n^3. Then n and m increase, time is mainly influenced by (mn)^2.