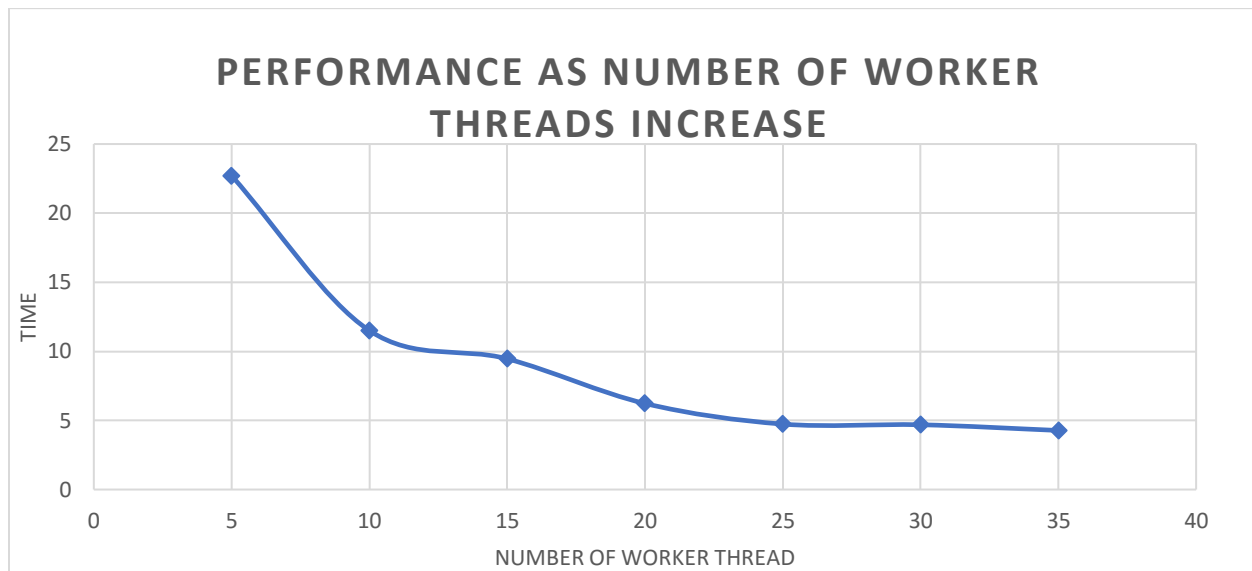


## Performance Analysis

Suqian Wang  
825009505

### Increasing the number of worker threads:

number of request per client	number of worker threads	buffer size	time(sec)	time(musec)	sec
10000	5	30	23	-291483	22.708517
10000	10	30	11	502544	11.502544
10000	15	30	9	458928	9.458928
10000	20	30	6	227089	6.227089
10000	25	30	5	-264964	4.735036
10000	30	30	5	-311885	4.688115
10000	35	30	4	275558	4.275558



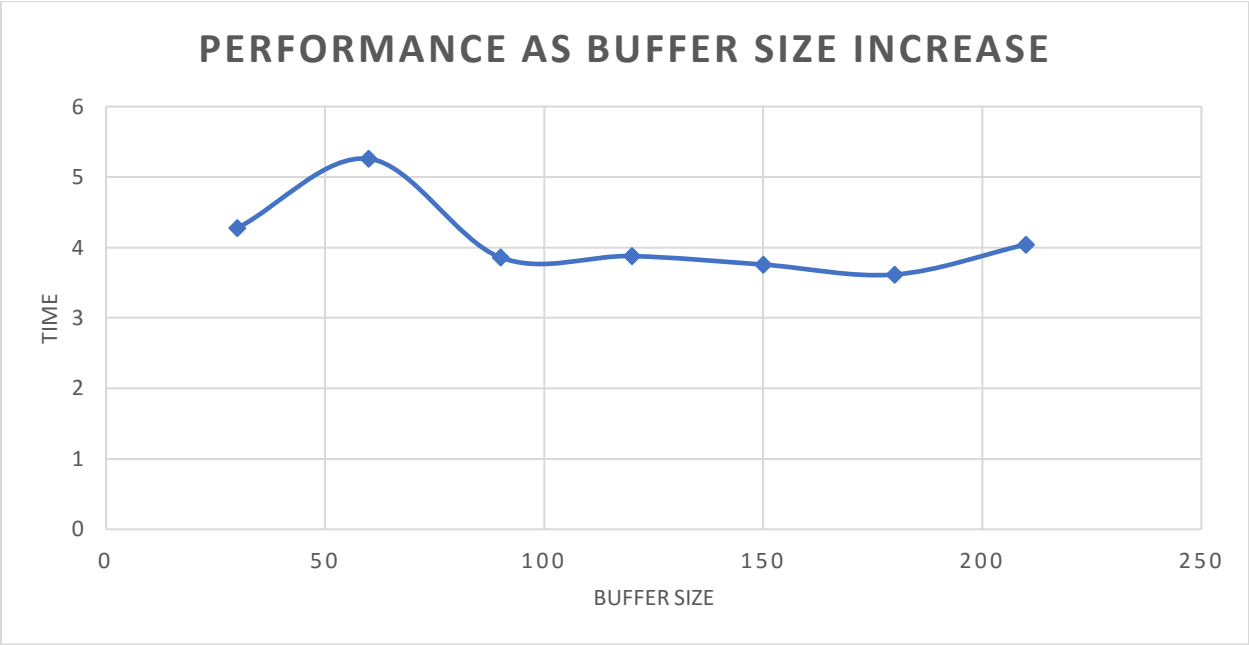
Increasing the number of worker threads improve the performance.

Depends on the operating system architecture, the performance reached a limit at about 25 worker threads.

### Increasing the buffer size:

number of request per client	number of worker threads	buffer size	time(sec)	time(musec)	sec
------------------------------------	--------------------------------	-------------	-----------	-------------	-----

10000	5	30	23	-291483	22.708517
10000	10	30	11	502544	11.502544
10000	15	30	9	458928	9.458928
10000	20	30	6	227089	6.227089
10000	25	30	5	-264964	4.735036
10000	30	30	5	-311885	4.688115
10000	35	30	4	275558	4.275558
10000	35	60	6	-741793	5.258207
10000	35	90	4	-141040	3.85896
10000	35	120	3	877700	3.8777
10000	35	150	4	-242849	3.757151
10000	35	180	4	-384280	3.61572
10000	35	210	4	43252	4.043252



Increasing the buffer size has no influence on performance.

Histogram

histogram	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
Joe Smith	1008	906	1039	1011	1037	1011	972	1021	989	1006
Jane Smith	954	1010	1054	969	1002	1048	937	1042	984	1000

John  
Smith            988    985    1005    986    973    1017    1025    982    1024    1015

