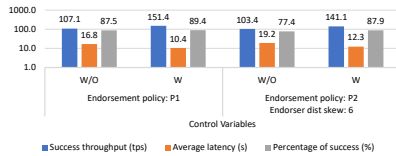
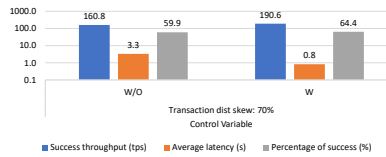


**Table 4: Experiments with the synthetic workload**

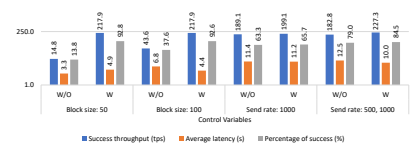
Experiment Number	Control variable	Value	Optimizations recommended
1	Endorsement Policy	P1	Endorser restructure Activity reordering
2	Endorsement Policy / Endorser dist skew	P2 / 6	Endorser restructure Activity reordering
3	Endorsement Policy	P3	Transaction rate control Activity reordering
4	No: of orgs	2	Activity reordering
5	No: of orgs	4	Transaction rate control
6	Workload	Uniform	Activity reordering
7	Workload	Read-heavy	Activity reordering
8	Workload	Update-heavy	Transaction rate control
9	Workload	Insert-heavy	Activity reordering
10	Workload	RangeRead-heavy	Activity reordering
11	Key distribution	0	Activity reordering
12	Key distribution	2	Transaction rate control Activity reordering Smart contract partition
13	Block size	50	Block size adaption Activity reordering
14	Block size	100	Block size adaption Activity reordering
15	Block size	300	Transaction rate control Activity reordering
16	Block size	500	Transaction rate control Activity reordering
17	Block size	1000	Transaction rate control Activity reordering
18	Send rate	50	Activity reordering
19	Send rate	100	Activity reordering
20	Send rate	300	Activity reordering
21	Send rate	500	Transaction rate control Activity reordering
22	Send rate	1000	Block size adaption Transaction rate control Activity reordering
23	Send rate	500, 1000	Block size adaption Transaction rate control Activity reordering
24	Transaction distribution	70%	Transaction rate control Activity reordering Client resource boost



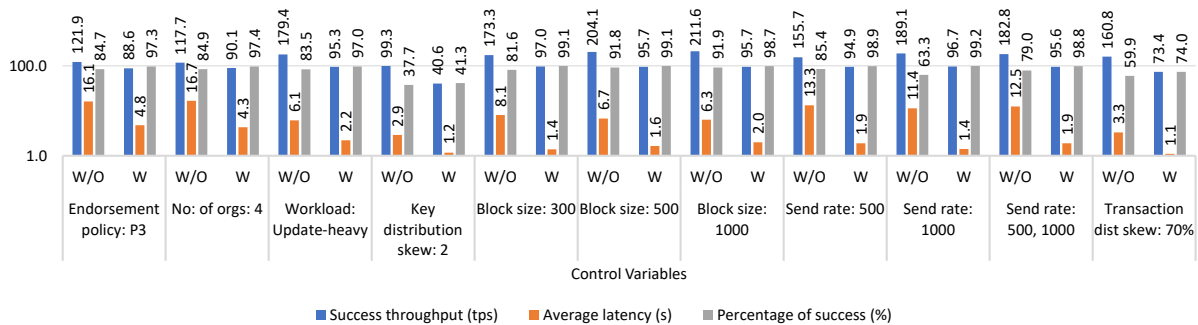
**Figure 19: Performance without and with endorsement policy optimization**



**Figure 20: Performance without and with client resource boost**



**Figure 21: Performance without and with block size optimization**



**Figure 22: Performance without and with transaction rate control optimization**

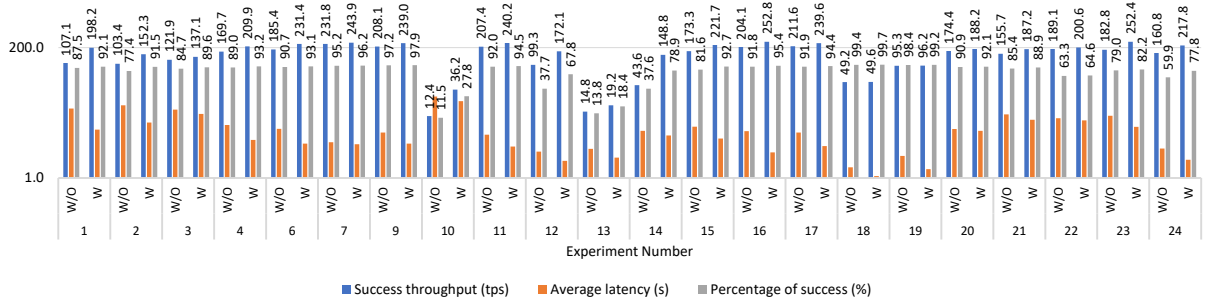


Figure 23: Performance without and with transaction reordering optimization

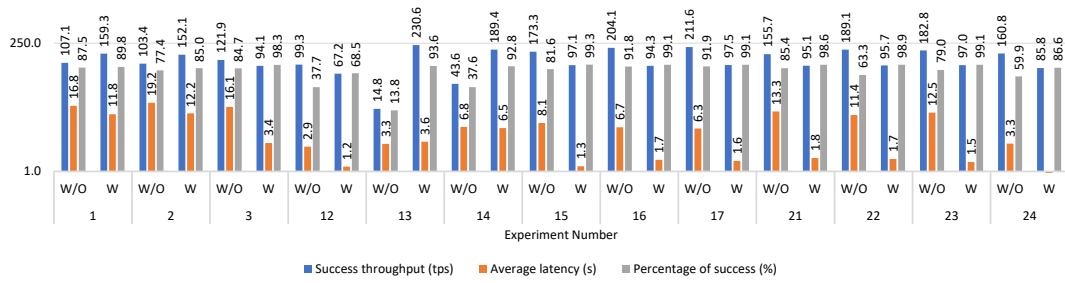


Figure 24: Performance without and with all recommended optimizations