

Benchmark Name	Parameters	Successful	Failed
	RL		
DoNothing DoNothing	20	3	0
DoNothing DoNothing	40	3	0
DoNothing DoNothing	10	3	0
DoNothing DoNothing	5	3	0
KeyValue Set	20	3	0
KeyValue Set	40	3	0
KeyValue Set	10	3	0
KeyValue Set	5	3	0
KeyValue Get	20	0	3
KeyValue Get	40	0	3
KeyValue Get	10	0	3
KeyValue Get	5	0	3
BankingApp CreateAccount	20	3	0
BankingApp CreateAccount	40	3	0
BankingApp CreateAccount	10	3	0
BankingApp CreateAccount	5	3	0
BankingApp SendPayment	20	0	3
BankingApp SendPayment	40	0	3
BankingApp SendPayment	10	0	3
BankingApp SendPayment	5	0	3
BankingApp Balance	20	3	0
BankingApp Balance	40	0	3
BankingApp Balance	10	3	0
BankingApp Balance	5	3	0

Table 1. Corda Open Source - success statistics

Benchmark Name	Parameters	Successful	Failed
	RL		
DoNothing DoNothing	20	3	0
DoNothing DoNothing	40	3	0
DoNothing DoNothing	10	2	1
DoNothing DoNothing	5	3	0
KeyValue Set	20	3	0
KeyValue Set	40	3	0
KeyValue Set	10	3	0
KeyValue Set	5	3	0
KeyValue Get	20	3	0
KeyValue Get	40	3	0
KeyValue Get	10	3	0
KeyValue Get	5	3	0
BankingApp CreateAccount	20	3	0
BankingApp CreateAccount	40	3	0
BankingApp CreateAccount	10	3	0
BankingApp CreateAccount	5	3	0
BankingApp SendPayment	20	0	3
BankingApp SendPayment	40	0	3
BankingApp SendPayment	10	2	1
BankingApp SendPayment	5	3	0
BankingApp Balance	20	0	3
BankingApp Balance	40	0	3
BankingApp Balance	10	3	0
BankingApp Balance	5	3	0

Table 2. Corda Enterprise - success statistics

Benchmark Name	Parameters		Successful	Failed
	RL	BI		
DoNothing DoNothing	50	1	3	0
DoNothing DoNothing	50	2	3	0
DoNothing DoNothing	50	5	3	0
DoNothing DoNothing	50	10	3	0
DoNothing DoNothing	100	1	3	0
DoNothing DoNothing	100	2	3	0
DoNothing DoNothing	100	5	3	0
DoNothing DoNothing	100	10	3	0
DoNothing DoNothing	200	1	3	0
DoNothing DoNothing	200	2	3	0
DoNothing DoNothing	200	5	3	0
DoNothing DoNothing	200	10	0	3
DoNothing DoNothing	400	1	3	0
DoNothing DoNothing	400	2	3	0
DoNothing DoNothing	400	5	1	2
DoNothing DoNothing	400	10	1	2
KeyValue Set	50	1	3	0
KeyValue Set	50	2	3	0
KeyValue Set	50	5	3	0
KeyValue Set	50	10	3	0
KeyValue Set	100	1	3	0
KeyValue Set	100	2	3	0
KeyValue Set	100	5	3	0
KeyValue Set	100	10	2	1
KeyValue Set	200	1	3	0
KeyValue Set	200	2	3	0
KeyValue Set	200	5	3	0
KeyValue Set	200	10	2	1
KeyValue Set	400	1	3	0
KeyValue Set	400	2	2	1
KeyValue Set	400	5	2	1
KeyValue Set	400	10	0	3
KeyValue Get	50	1	3	0
KeyValue Get	50	2	3	0
KeyValue Get	50	5	3	0
KeyValue Get	50	10	3	0
KeyValue Get	100	1	3	0
KeyValue Get	100	2	3	0
KeyValue Get	100	5	3	0
KeyValue Get	100	10	3	0
KeyValue Get	200	1	3	0
KeyValue Get	200	2	3	0
KeyValue Get	200	5	3	0
KeyValue Get	200	10	3	0
KeyValue Get	400	1	3	0
KeyValue Get	400	2	3	0
KeyValue Get	400	5	3	0
KeyValue Get	400	10	3	0
BankingApp CreateAccount	50	1	3	0
BankingApp CreateAccount	50	2	3	0
BankingApp CreateAccount	50	5	3	0
BankingApp CreateAccount	50	10	3	0
BankingApp CreateAccount	100	1	3	0
BankingApp CreateAccount	100	2	3	0

BankingApp CreateAccount	100	5	3	0
BankingApp CreateAccount	100	10	1	2
BankingApp CreateAccount	200	1	3	0
BankingApp CreateAccount	200	2	3	0
BankingApp CreateAccount	200	5	3	0
BankingApp CreateAccount	200	10	2	1
BankingApp CreateAccount	400	1	3	0
BankingApp CreateAccount	400	2	3	0
BankingApp CreateAccount	400	5	2	1
BankingApp CreateAccount	400	10	1	2
BankingApp SendPayment	50	1	3	0
BankingApp SendPayment	50	2	3	0
BankingApp SendPayment	50	5	3	0
BankingApp SendPayment	50	10	3	0
BankingApp SendPayment	100	1	3	0
BankingApp SendPayment	100	2	3	0
BankingApp SendPayment	100	5	3	0
BankingApp SendPayment	100	10	3	0
BankingApp SendPayment	200	1	3	0
BankingApp SendPayment	200	2	3	0
BankingApp SendPayment	200	5	3	0
BankingApp SendPayment	200	10	3	0
BankingApp SendPayment	400	1	3	0
BankingApp SendPayment	400	2	3	0
BankingApp SendPayment	400	5	3	0
BankingApp SendPayment	400	10	3	0
BankingApp Balance	50	1	1	2
BankingApp Balance	50	2	1	2
BankingApp Balance	50	5	2	1
BankingApp Balance	50	10	3	0
BankingApp Balance	100	1	0	3
BankingApp Balance	100	2	0	3
BankingApp Balance	100	5	1	2
BankingApp Balance	100	10	3	0
BankingApp Balance	200	1	1	2
BankingApp Balance	200	2	0	3
BankingApp Balance	200	5	3	0
BankingApp Balance	200	10	3	0
BankingApp Balance	400	1	1	2
BankingApp Balance	400	2	0	3
BankingApp Balance	400	5	2	1
BankingApp Balance	400	10	3	0

Table 3. Graphene - success statistics

Benchmark Name	Parameters		Successful	Failed
	RL	MM		
DoNothing DoNothing	50	100	3	0
DoNothing DoNothing	50	500	3	0
DoNothing DoNothing	50	1000	3	0
DoNothing DoNothing	50	2000	3	0
DoNothing DoNothing	100	100	3	0
DoNothing DoNothing	100	500	3	0
DoNothing DoNothing	100	1000	3	0
DoNothing DoNothing	100	2000	3	0
DoNothing DoNothing	200	100	3	0
DoNothing DoNothing	200	500	3	0
DoNothing DoNothing	200	1000	3	0
DoNothing DoNothing	200	2000	3	0
DoNothing DoNothing	400	100	3	0
DoNothing DoNothing	400	500	3	0
DoNothing DoNothing	400	1000	3	0
DoNothing DoNothing	400	2000	3	0
KeyValue Set	50	100	3	0
KeyValue Set	50	500	3	0
KeyValue Set	50	1000	3	0
KeyValue Set	50	2000	3	0
KeyValue Set	100	100	3	0
KeyValue Set	100	500	3	0
KeyValue Set	100	1000	3	0
KeyValue Set	100	2000	3	0
KeyValue Set	200	100	3	0
KeyValue Set	200	500	3	0
KeyValue Set	200	1000	3	0
KeyValue Set	200	2000	3	0
KeyValue Set	400	100	3	0
KeyValue Set	400	500	3	0
KeyValue Set	400	1000	3	0
KeyValue Set	400	2000	3	0
KeyValue Get	50	100	3	0
KeyValue Get	50	500	3	0
KeyValue Get	50	1000	3	0
KeyValue Get	50	2000	3	0
KeyValue Get	100	100	3	0
KeyValue Get	100	500	3	0
KeyValue Get	100	1000	3	0
KeyValue Get	100	2000	3	0
KeyValue Get	200	100	3	0
KeyValue Get	200	500	3	0
KeyValue Get	200	1000	3	0
KeyValue Get	200	2000	3	0
KeyValue Get	400	100	3	0
KeyValue Get	400	500	3	0
KeyValue Get	400	1000	3	0
KeyValue Get	400	2000	3	0
BankingApp CreateAccount	50	100	2	1
BankingApp CreateAccount	50	500	3	0
BankingApp CreateAccount	50	1000	3	0
BankingApp CreateAccount	50	2000	3	0
BankingApp CreateAccount	100	100	3	0
BankingApp CreateAccount	100	500	2	1

BankingApp CreateAccount	100	1000	3	0
BankingApp CreateAccount	100	2000	3	0
BankingApp CreateAccount	200	100	3	0
BankingApp CreateAccount	200	500	3	0
BankingApp CreateAccount	200	1000	3	0
BankingApp CreateAccount	200	2000	3	0
BankingApp CreateAccount	400	100	3	0
BankingApp CreateAccount	400	500	3	0
BankingApp CreateAccount	400	1000	3	0
BankingApp CreateAccount	400	2000	2	1
BankingApp SendPayment	50	100	2	1
BankingApp SendPayment	50	500	3	0
BankingApp SendPayment	50	1000	3	0
BankingApp SendPayment	50	2000	3	0
BankingApp SendPayment	100	100	3	0
BankingApp SendPayment	100	500	2	1
BankingApp SendPayment	100	1000	3	0
BankingApp SendPayment	100	2000	3	0
BankingApp SendPayment	200	100	3	0
BankingApp SendPayment	200	500	3	0
BankingApp SendPayment	200	1000	3	0
BankingApp SendPayment	200	2000	3	0
BankingApp SendPayment	400	100	3	0
BankingApp SendPayment	400	500	3	0
BankingApp SendPayment	400	1000	3	0
BankingApp SendPayment	400	2000	2	1
BankingApp Balance	50	100	2	1
BankingApp Balance	50	500	3	0
BankingApp Balance	50	1000	3	0
BankingApp Balance	50	2000	3	0
BankingApp Balance	100	100	3	0
BankingApp Balance	100	500	2	1
BankingApp Balance	100	1000	3	0
BankingApp Balance	100	2000	2	1
BankingApp Balance	200	100	3	0
BankingApp Balance	200	500	3	0
BankingApp Balance	200	1000	3	0
BankingApp Balance	200	2000	3	0
BankingApp Balance	400	100	3	0
BankingApp Balance	400	500	3	0
BankingApp Balance	400	1000	3	0
BankingApp Balance	400	2000	2	1

Table 4. Hyperledger Fabric - success statistics

Benchmark Name	Parameters		Successful	Failed
	RL	BP		
DoNothing DoNothing	50	1	3	0
DoNothing DoNothing	50	2	3	0
DoNothing DoNothing	50	5	3	0
DoNothing DoNothing	50	10	3	0
DoNothing DoNothing	100	1	3	0
DoNothing DoNothing	100	2	3	0
DoNothing DoNothing	100	5	3	0
DoNothing DoNothing	100	10	2	1
DoNothing DoNothing	200	1	3	0
DoNothing DoNothing	200	2	3	0
DoNothing DoNothing	200	5	3	0
DoNothing DoNothing	200	10	3	0
DoNothing DoNothing	400	1	3	0
DoNothing DoNothing	400	2	3	0
DoNothing DoNothing	400	5	3	0
DoNothing DoNothing	400	10	3	0
KeyValue Set	50	1	3	0
KeyValue Set	50	2	3	0
KeyValue Set	50	5	3	0
KeyValue Set	50	10	3	0
KeyValue Set	100	1	3	0
KeyValue Set	100	2	3	0
KeyValue Set	100	5	3	0
KeyValue Set	100	10	3	0
KeyValue Set	200	1	3	0
KeyValue Set	200	2	3	0
KeyValue Set	200	5	3	0
KeyValue Set	200	10	3	0
KeyValue Set	400	1	2	1
KeyValue Set	400	2	3	0
KeyValue Set	400	5	3	0
KeyValue Set	400	10	3	0
KeyValue Get	50	1	3	0
KeyValue Get	50	2	3	0
KeyValue Get	50	5	3	0
KeyValue Get	50	10	3	0
KeyValue Get	100	1	0	3
KeyValue Get	100	2	0	3
KeyValue Get	100	5	3	0
KeyValue Get	100	10	2	1
KeyValue Get	200	1	0	3
KeyValue Get	200	2	0	3
KeyValue Get	200	5	3	0
KeyValue Get	200	10	3	0
KeyValue Get	400	1	0	3
KeyValue Get	400	2	0	3
KeyValue Get	400	5	3	0
KeyValue Get	400	10	3	0
BankingApp CreateAccount	50	1	3	0
BankingApp CreateAccount	50	2	3	0
BankingApp CreateAccount	50	5	3	0
BankingApp CreateAccount	50	10	3	0
BankingApp CreateAccount	100	1	3	0
BankingApp CreateAccount	100	2	3	0

BankingApp CreateAccount	100	5	3	0
BankingApp CreateAccount	100	10	3	0
BankingApp CreateAccount	200	1	3	0
BankingApp CreateAccount	200	2	3	0
BankingApp CreateAccount	200	5	3	0
BankingApp CreateAccount	200	10	3	0
BankingApp CreateAccount	400	1	3	0
BankingApp CreateAccount	400	2	3	0
BankingApp CreateAccount	400	5	3	0
BankingApp CreateAccount	400	10	3	0
BankingApp SendPayment	50	1	3	0
BankingApp SendPayment	50	2	3	0
BankingApp SendPayment	50	5	3	0
BankingApp SendPayment	50	10	3	0
BankingApp SendPayment	100	1	0	3
BankingApp SendPayment	100	2	0	3
BankingApp SendPayment	100	5	3	0
BankingApp SendPayment	100	10	3	0
BankingApp SendPayment	200	1	0	3
BankingApp SendPayment	200	2	0	3
BankingApp SendPayment	200	5	3	0
BankingApp SendPayment	200	10	3	0
BankingApp SendPayment	400	1	0	3
BankingApp SendPayment	400	2	0	3
BankingApp SendPayment	400	5	2	1
BankingApp SendPayment	400	10	3	0
BankingApp Balance	50	1	3	0
BankingApp Balance	50	2	3	0
BankingApp Balance	50	5	3	0
BankingApp Balance	50	10	3	0
BankingApp Balance	100	1	0	3
BankingApp Balance	100	2	0	3
BankingApp Balance	100	5	3	0
BankingApp Balance	100	10	3	0
BankingApp Balance	200	1	0	3
BankingApp Balance	200	2	0	3
BankingApp Balance	200	5	3	0
BankingApp Balance	200	10	3	0
BankingApp Balance	400	1	0	3
BankingApp Balance	400	2	0	3
BankingApp Balance	400	5	2	1
BankingApp Balance	400	10	3	0

Table 5. Quorum - success statistics

Benchmark Name	Parameters		Successful	Failed
	RL	PD		
DoNothing DoNothing	50	1	3	0
DoNothing DoNothing	50	2	3	0
DoNothing DoNothing	50	5	3	0
DoNothing DoNothing	50	10	3	0
DoNothing DoNothing	100	1	3	0
DoNothing DoNothing	100	2	3	0
DoNothing DoNothing	100	5	3	0
DoNothing DoNothing	100	10	3	0
DoNothing DoNothing	200	1	3	0
DoNothing DoNothing	200	2	3	0
DoNothing DoNothing	200	5	3	0
DoNothing DoNothing	200	10	2	1
DoNothing DoNothing	400	1	3	0
DoNothing DoNothing	400	2	3	0
DoNothing DoNothing	400	5	3	0
DoNothing DoNothing	400	10	3	0
KeyValue Set	50	1	3	0
KeyValue Set	50	2	3	0
KeyValue Set	50	5	3	0
KeyValue Set	50	10	3	0
KeyValue Set	100	1	3	0
KeyValue Set	100	2	3	0
KeyValue Set	100	5	3	0
KeyValue Set	100	10	3	0
KeyValue Set	200	1	3	0
KeyValue Set	200	2	3	0
KeyValue Set	200	5	2	1
KeyValue Set	200	10	3	0
KeyValue Set	400	1	3	0
KeyValue Set	400	2	3	0
KeyValue Set	400	5	3	0
KeyValue Set	400	10	3	0
KeyValue Get	50	1	3	0
KeyValue Get	50	2	3	0
KeyValue Get	50	5	3	0
KeyValue Get	50	10	3	0
KeyValue Get	100	1	3	0
KeyValue Get	100	2	3	0
KeyValue Get	100	5	3	0
KeyValue Get	100	10	3	0
KeyValue Get	200	1	0	3
KeyValue Get	200	2	0	3
KeyValue Get	200	5	0	3
KeyValue Get	200	10	0	3
KeyValue Get	400	1	0	3
KeyValue Get	400	2	1	2
KeyValue Get	400	5	0	3
KeyValue Get	400	10	0	3
BankingApp CreateAccount	50	1	3	0
BankingApp CreateAccount	50	2	3	0
BankingApp CreateAccount	50	5	3	0
BankingApp CreateAccount	50	10	3	0
BankingApp CreateAccount	100	1	3	0
BankingApp CreateAccount	100	2	3	0

BankingApp CreateAccount	100	5	3	0
BankingApp CreateAccount	100	10	3	0
BankingApp CreateAccount	200	1	3	0
BankingApp CreateAccount	200	2	3	0
BankingApp CreateAccount	200	5	3	0
BankingApp CreateAccount	200	10	3	0
BankingApp CreateAccount	400	1	3	0
BankingApp CreateAccount	400	2	3	0
BankingApp CreateAccount	400	5	3	0
BankingApp CreateAccount	400	10	3	0
BankingApp SendPayment	50	1	3	0
BankingApp SendPayment	50	2	3	0
BankingApp SendPayment	50	5	3	0
BankingApp SendPayment	50	10	3	0
BankingApp SendPayment	100	1	3	0
BankingApp SendPayment	100	2	3	0
BankingApp SendPayment	100	5	3	0
BankingApp SendPayment	100	10	3	0
BankingApp SendPayment	200	1	0	3
BankingApp SendPayment	200	2	0	3
BankingApp SendPayment	200	5	0	3
BankingApp SendPayment	200	10	0	3
BankingApp SendPayment	400	1	0	3
BankingApp SendPayment	400	2	0	3
BankingApp SendPayment	400	5	0	3
BankingApp SendPayment	400	10	0	3
BankingApp Balance	50	1	3	0
BankingApp Balance	50	2	3	0
BankingApp Balance	50	5	3	0
BankingApp Balance	50	10	3	0
BankingApp Balance	100	1	3	0
BankingApp Balance	100	2	3	0
BankingApp Balance	100	5	3	0
BankingApp Balance	100	10	3	0
BankingApp Balance	200	1	1	2
BankingApp Balance	200	2	0	3
BankingApp Balance	200	5	0	3
BankingApp Balance	200	10	1	2
BankingApp Balance	400	1	0	3
BankingApp Balance	400	2	0	3
BankingApp Balance	400	5	0	3
BankingApp Balance	400	10	0	3

Table 6. Hyperledger Sawtooth - success statistics

Benchmark Name	Parameters		Successful	Failed
	RL	BS		
DoNothing DoNothing	50	100	3	0
DoNothing DoNothing	50	500	3	0
DoNothing DoNothing	50	1000	3	0
DoNothing DoNothing	50	2000	3	0
DoNothing DoNothing	100	100	3	0
DoNothing DoNothing	100	500	3	0
DoNothing DoNothing	100	1000	3	0
DoNothing DoNothing	100	2000	3	0
DoNothing DoNothing	200	100	3	0
DoNothing DoNothing	200	500	3	0
DoNothing DoNothing	200	1000	3	0
DoNothing DoNothing	200	2000	3	0
DoNothing DoNothing	400	100	3	0
DoNothing DoNothing	400	500	3	0
DoNothing DoNothing	400	1000	3	0
DoNothing DoNothing	400	2000	3	0
KeyValue Set	50	100	3	0
KeyValue Set	50	500	3	0
KeyValue Set	50	1000	3	0
KeyValue Set	50	2000	3	0
KeyValue Set	100	100	3	0
KeyValue Set	100	500	3	0
KeyValue Set	100	1000	3	0
KeyValue Set	100	2000	3	0
KeyValue Set	200	100	3	0
KeyValue Set	200	500	3	0
KeyValue Set	200	1000	3	0
KeyValue Set	200	2000	3	0
KeyValue Set	400	100	3	0
KeyValue Set	400	500	3	0
KeyValue Set	400	1000	3	0
KeyValue Set	400	2000	3	0
KeyValue Get	50	100	3	0
KeyValue Get	50	500	3	0
KeyValue Get	50	1000	3	0
KeyValue Get	50	2000	3	0
KeyValue Get	100	100	3	0
KeyValue Get	100	500	3	0
KeyValue Get	100	1000	3	0
KeyValue Get	100	2000	3	0
KeyValue Get	200	100	3	0
KeyValue Get	200	500	3	0
KeyValue Get	200	1000	3	0
KeyValue Get	200	2000	3	0
KeyValue Get	400	100	3	0
KeyValue Get	400	500	3	0
KeyValue Get	400	1000	3	0
KeyValue Get	400	2000	3	0
BankingApp CreateAccount	50	100	3	0
BankingApp CreateAccount	50	500	3	0
BankingApp CreateAccount	50	1000	3	0
BankingApp CreateAccount	50	2000	3	0
BankingApp CreateAccount	100	100	3	0
BankingApp CreateAccount	100	500	3	0

BankingApp	CreateAccount	100	1000	3	0
BankingApp	CreateAccount	100	2000	3	0
BankingApp	CreateAccount	200	100	3	0
BankingApp	CreateAccount	200	500	3	0
BankingApp	CreateAccount	200	1000	3	0
BankingApp	CreateAccount	200	2000	3	0
BankingApp	CreateAccount	400	100	3	0
BankingApp	CreateAccount	400	500	3	0
BankingApp	CreateAccount	400	1000	3	0
BankingApp	CreateAccount	400	2000	3	0
BankingApp	SendPayment	50	100	3	0
BankingApp	SendPayment	50	500	3	0
BankingApp	SendPayment	50	1000	3	0
BankingApp	SendPayment	50	2000	3	0
BankingApp	SendPayment	100	100	3	0
BankingApp	SendPayment	100	500	3	0
BankingApp	SendPayment	100	1000	3	0
BankingApp	SendPayment	100	2000	3	0
BankingApp	SendPayment	200	100	3	0
BankingApp	SendPayment	200	500	3	0
BankingApp	SendPayment	200	1000	3	0
BankingApp	SendPayment	200	2000	3	0
BankingApp	SendPayment	400	100	3	0
BankingApp	SendPayment	400	500	3	0
BankingApp	SendPayment	400	1000	3	0
BankingApp	SendPayment	400	2000	3	0
BankingApp	Balance	50	100	3	0
BankingApp	Balance	50	500	3	0
BankingApp	Balance	50	1000	3	0
BankingApp	Balance	50	2000	3	0
BankingApp	Balance	100	100	3	0
BankingApp	Balance	100	500	3	0
BankingApp	Balance	100	1000	3	0
BankingApp	Balance	100	2000	3	0
BankingApp	Balance	200	100	3	0
BankingApp	Balance	200	500	3	0
BankingApp	Balance	200	1000	3	0
BankingApp	Balance	200	2000	3	0
BankingApp	Balance	400	100	3	0
BankingApp	Balance	400	500	3	0
BankingApp	Balance	400	1000	3	0
BankingApp	Balance	400	2000	3	0

Table 7. Diem - success statistics