

BlockCom pass Report

Dec 7, 2021

■ Description

This report presents the results of running the *BlockCompass* workload that performs simple insert action to a Blockchain Network. The observed metrics are resource consumption metrics (CPU, Memory, Network Input and Network Output) and performance metrics (latency, emit rate, throughput and error rate).

1. Summary

#	Minimum	Maximum	Mean	Variation
CPU Utilization	0.574	16.13	7.947	9.898
Memory(%)	1.822	3.482	2.403	0.131
Network Input (MB)	0.494	2,438	1,243.73	70,018,55
Network Output (MB)	0.404	1,235	1,243.73	17,414,91
Users #	0	100	60.833	800.989
Emit rate (transaction/sec)	125	973	698.967	65,924.16
Throughput (transaction/sec)	125	973	698.967	65,924.16
Latency (ms)	0	32,557.221	204.088	28,127.49
Error rate	0	0	0	0

■ Configuration

Platform:
Ethereum

Consensus:
Clique | Proof of Authority

Number of Nodes: 5

DataSize: 5

Receivers
Nodes: miner 1 , miner 2 , miner 3

2. Performance Metrics

Fig2.1. Number Of Users

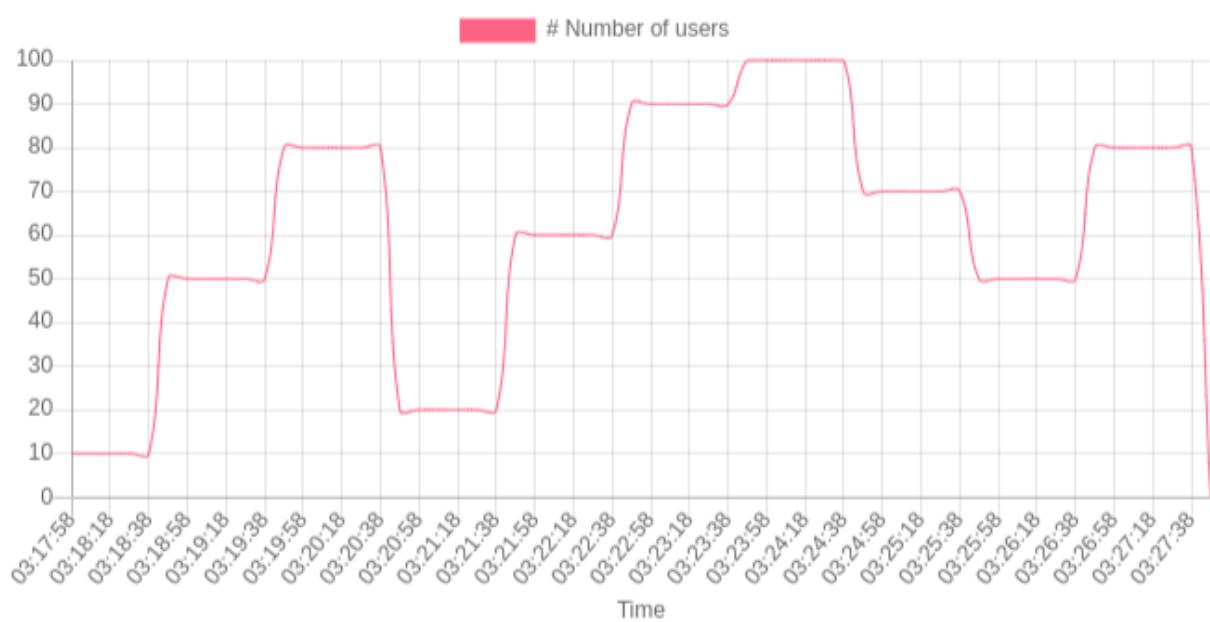
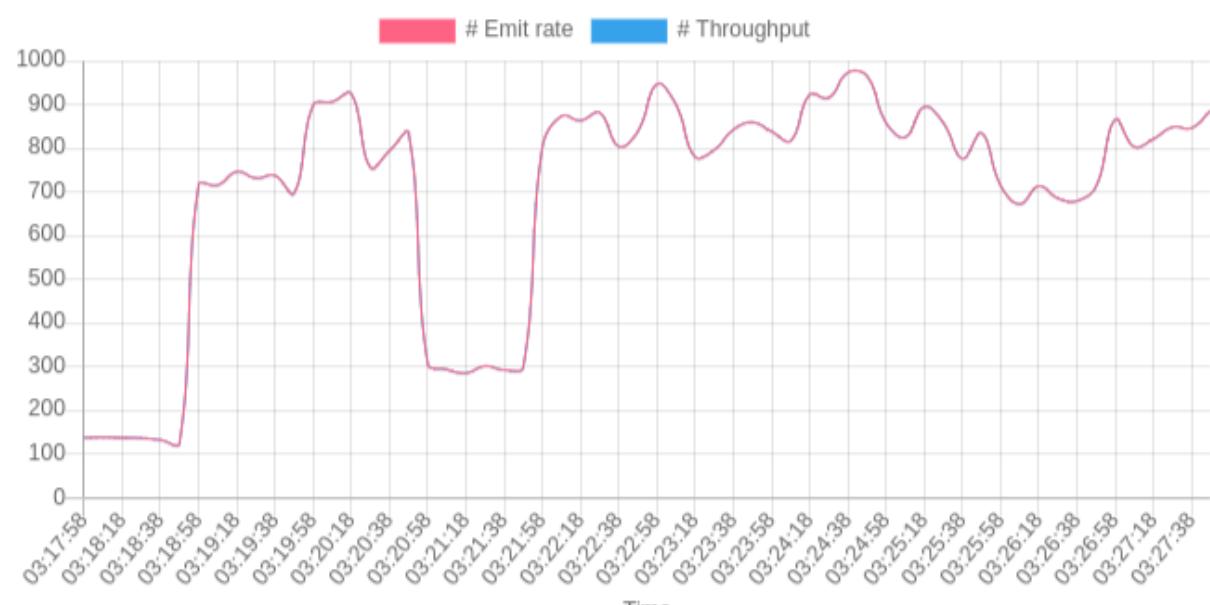


Fig2.2. Number Of Requests



Time

Fig2.3. Latency

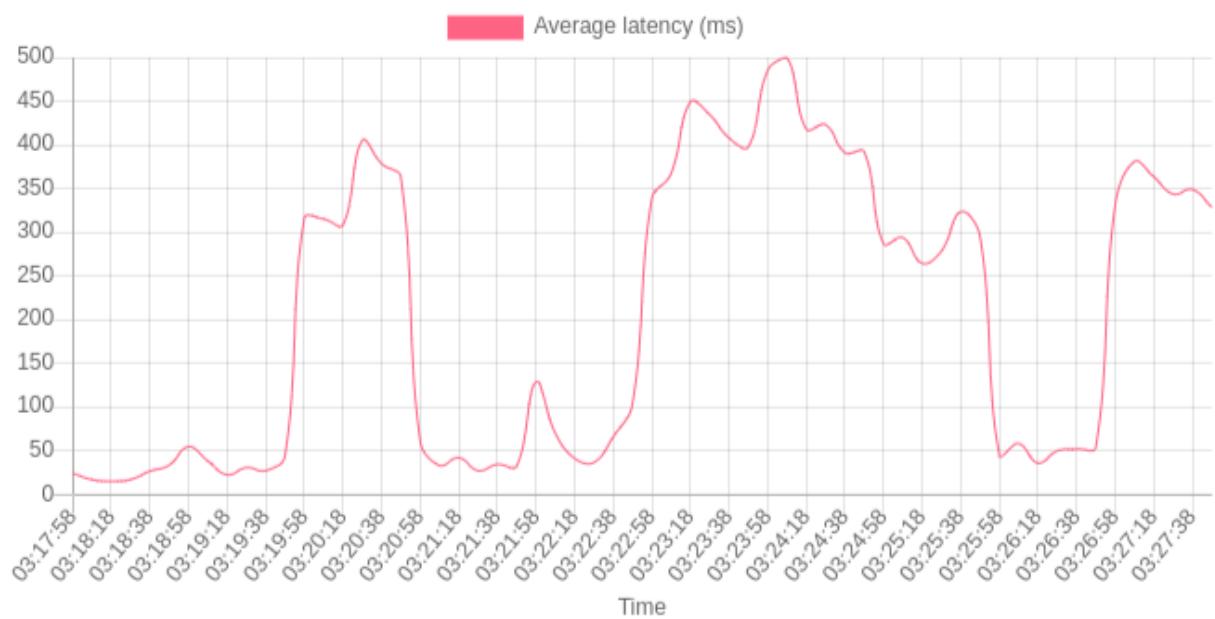
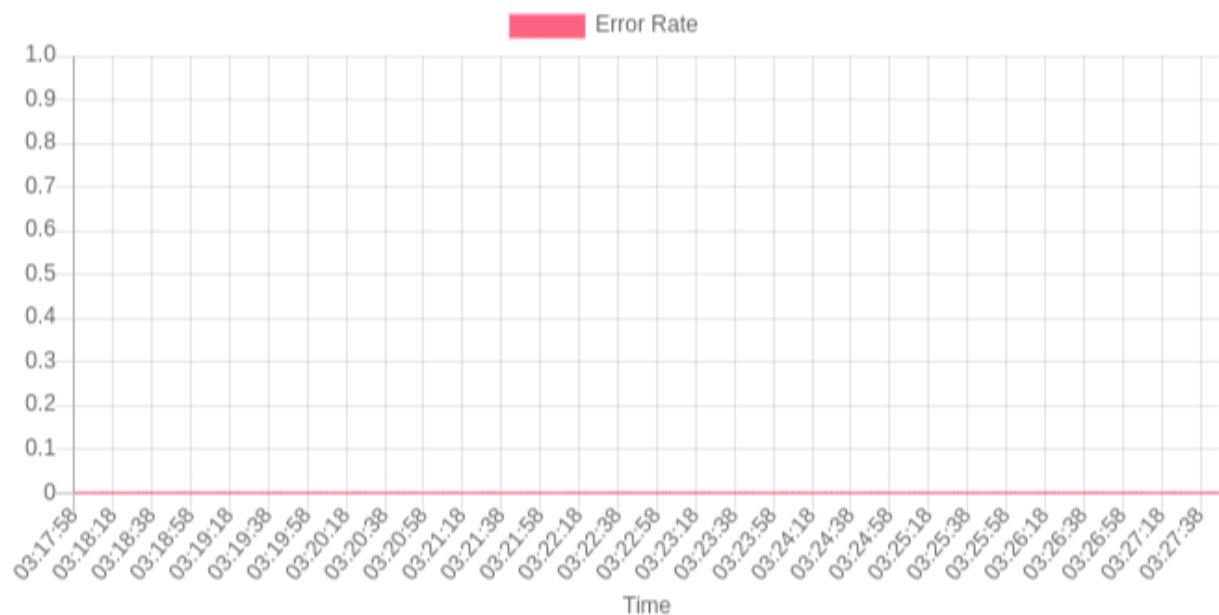


Fig2.4. Error Rate



3. Resource Utilization

Fig3.1. CPU Utilization (%)

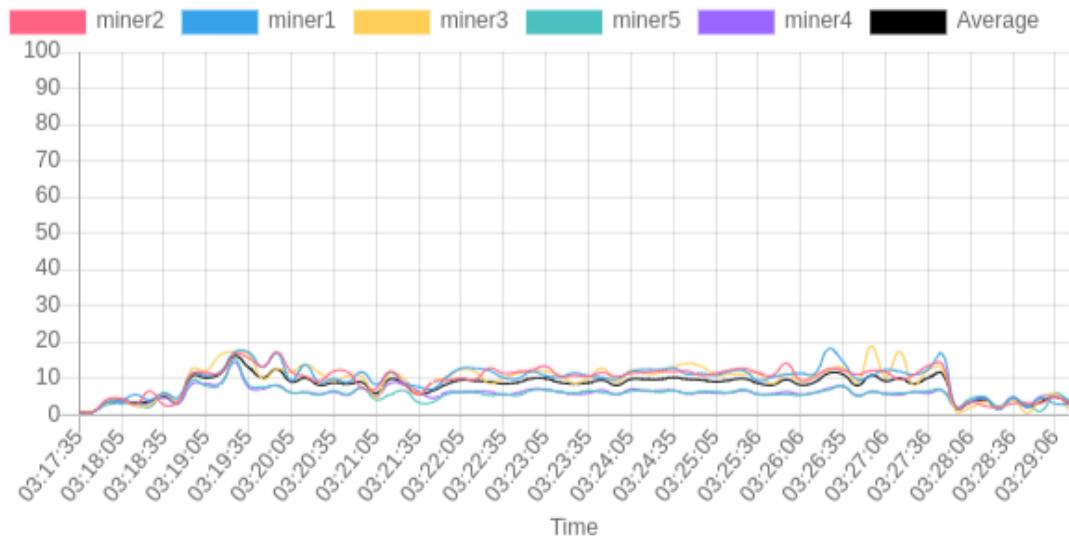


Fig3.2. Memory Utilization (%)

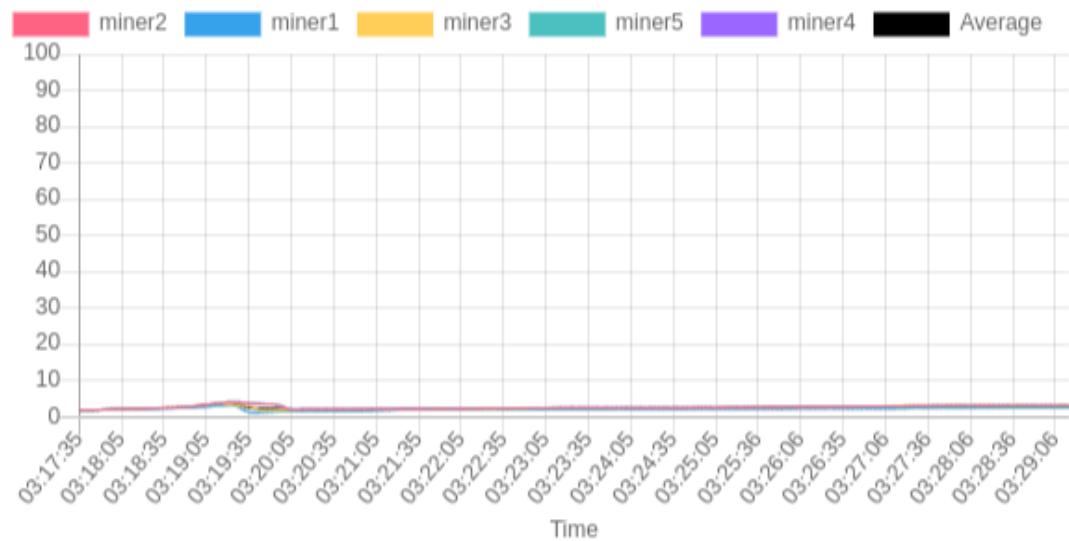


Fig3.3. Network Input (Bytes)



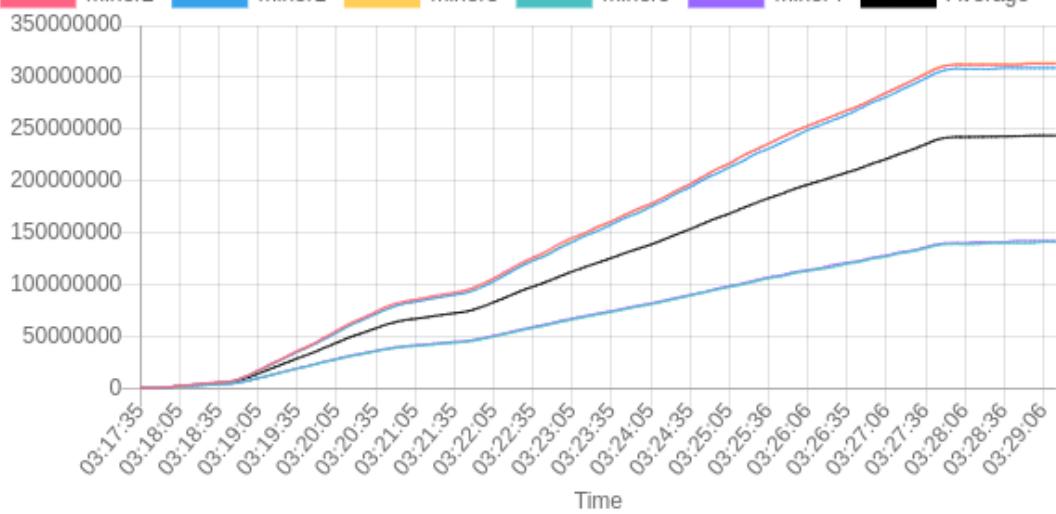
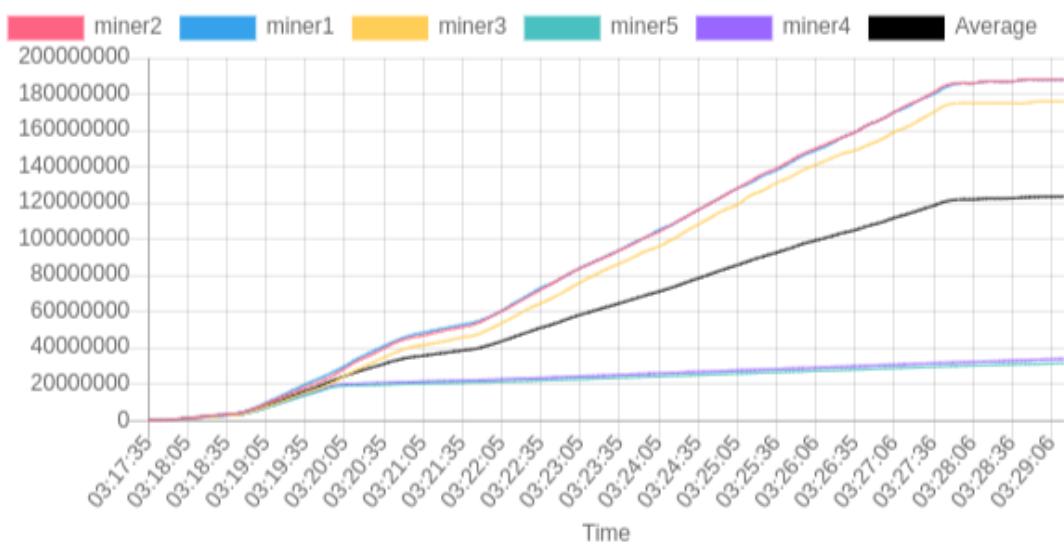


Fig3.4. Network Input Output (Bytes)



4. Comments