

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 | 0.626 | 10.486 | 4.748 | 2.413 |
| Memory(%) | 1.08 | 3.006 | 2.059 | 0.155 |
| Network Input (MB) | 0.454 | 1,094 | 541.148 | 12,599.64 |
| Network Output (MB) | 0.363 | 572.2 | 541.148 | 3,360.20 |
| Users # | 0 | 100 | 60.833 | 800.989 |
| Emit rate (transaction/sec) | 113 | 464 | 355.05 | 10,096.81 |
| Throughput (transaction/sec) | 113 | 464 | 355.05 | 10,096.81 |
| Latency (ms) | 0 | 238,218.007 | 836.033 | 180,516.1 |
| Error rate | 0 | 0 | 0 | 0 |

☰ Configuratio n

Platform:
Ethereum

Consensus:
Clique | Proof
of Authority

**Number of
Nodes:** 5

DataSize: 8

Receivers
Nodes: miner
1 , miner 2 ,
miner 3

2. Performance Metrics

Fig2.1. Number Of Users

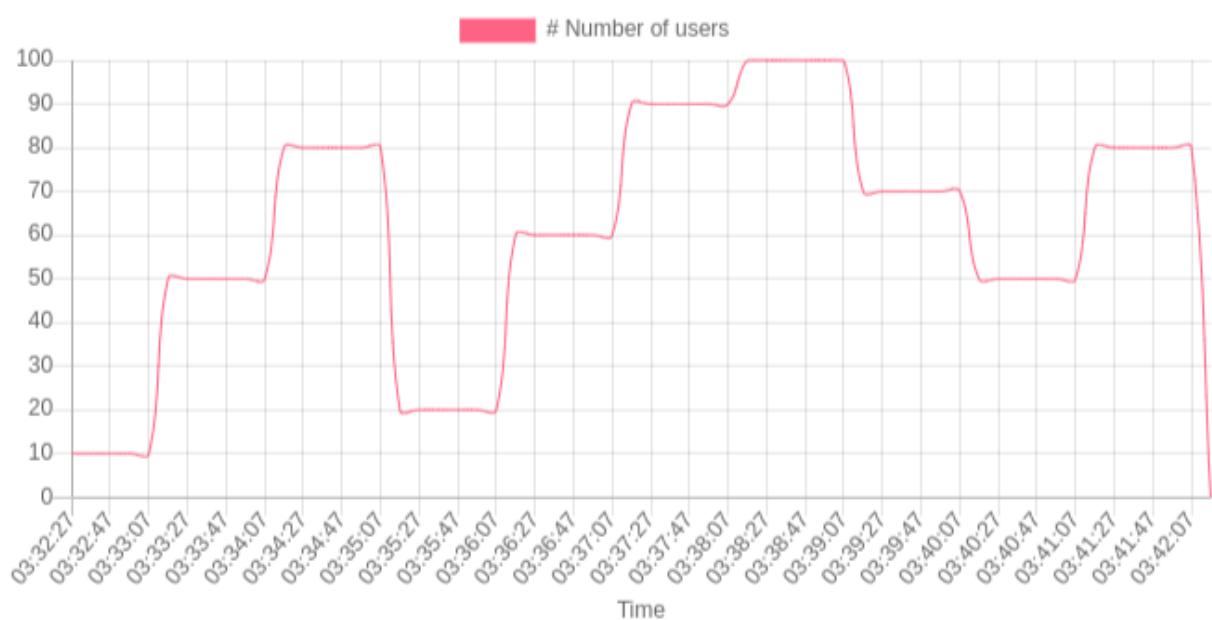
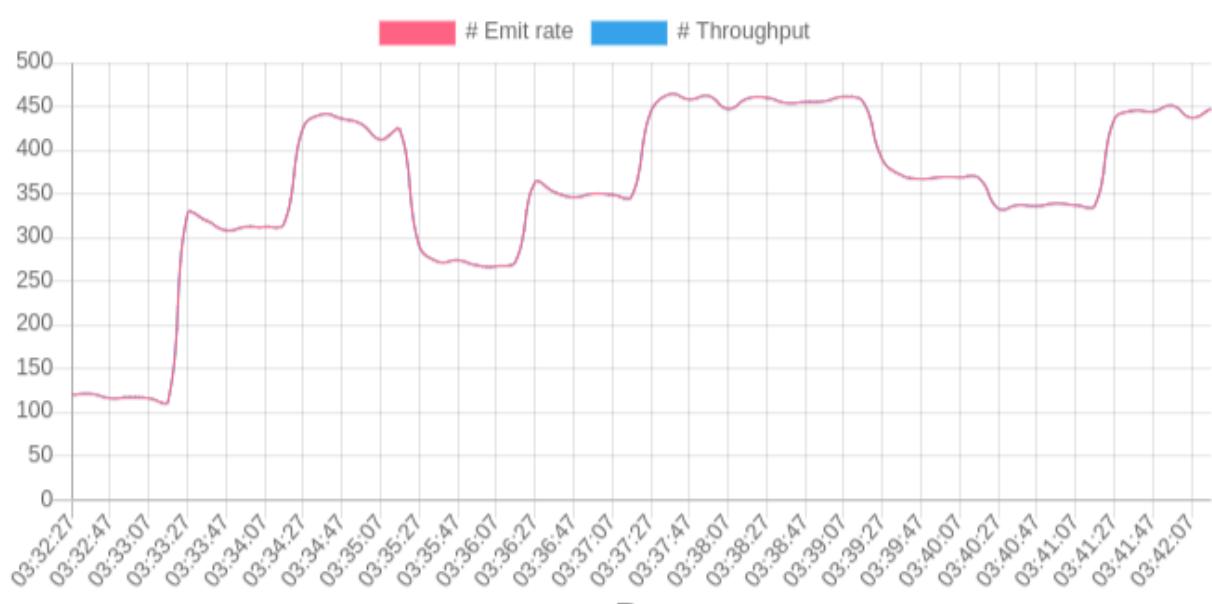


Fig2.2. Number Of Requests



Time

Fig2.3. Latency

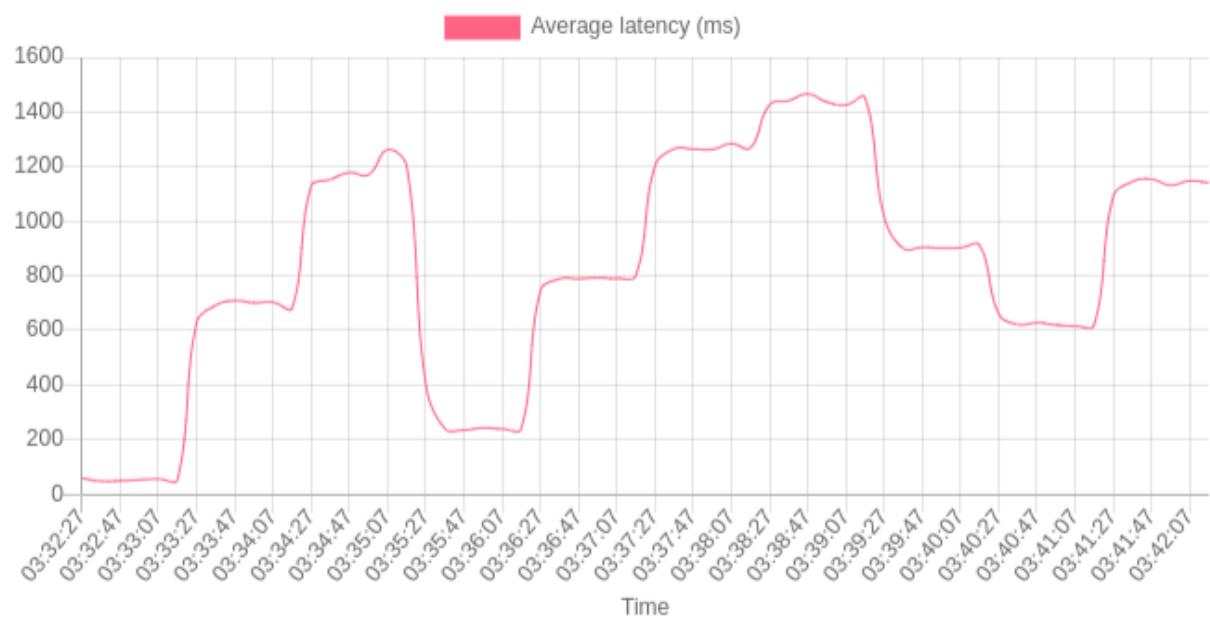
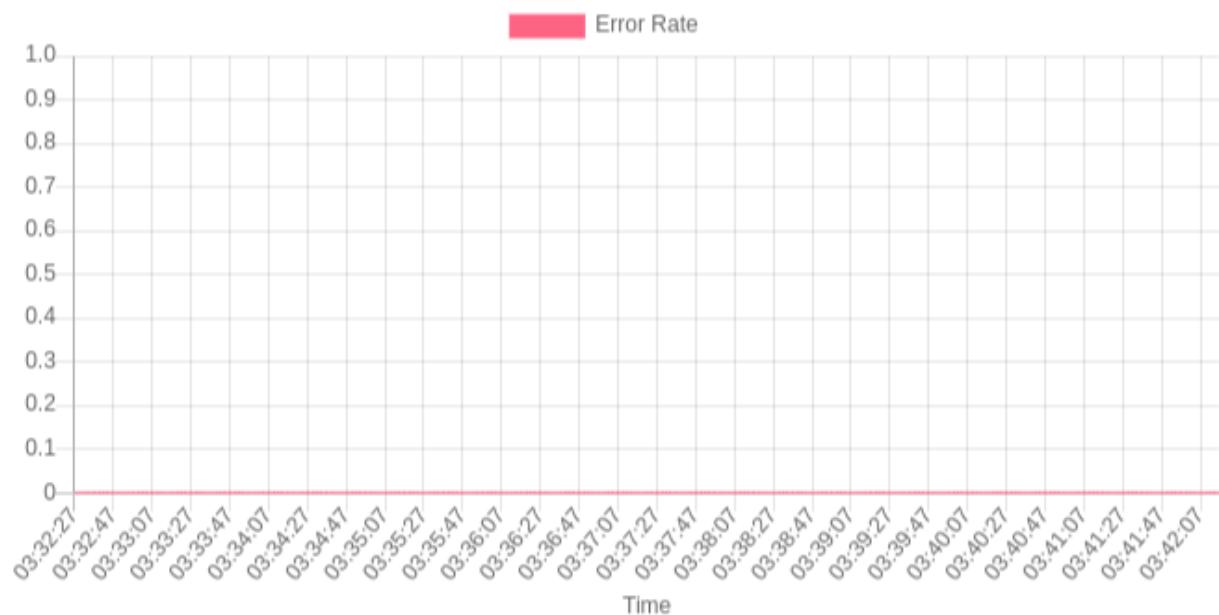


Fig2.4. Error Rate



3. Resource Utilization

Fig3.1. CPU Utilization (%)

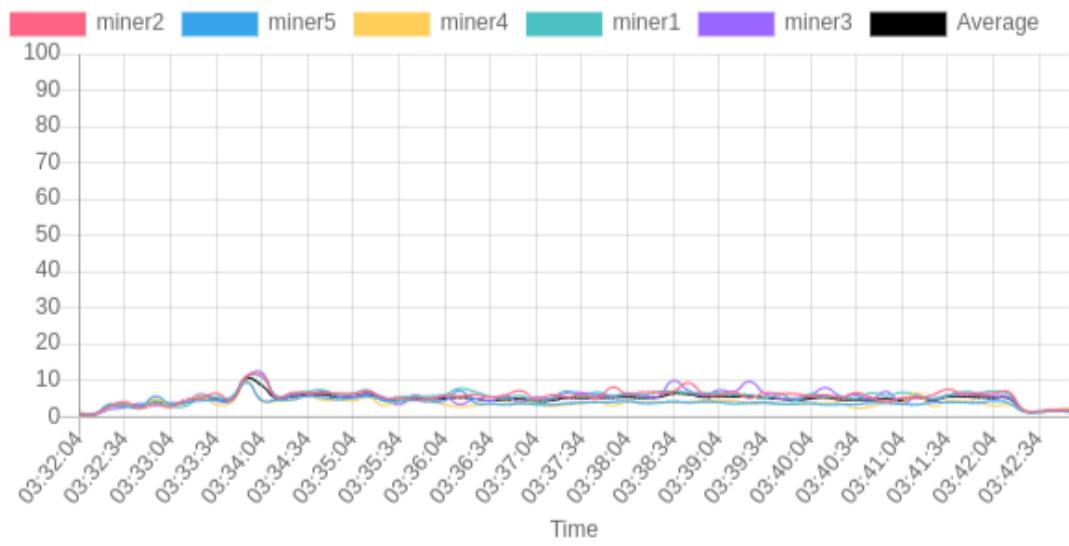


Fig3.2. Memory Utilization (%)

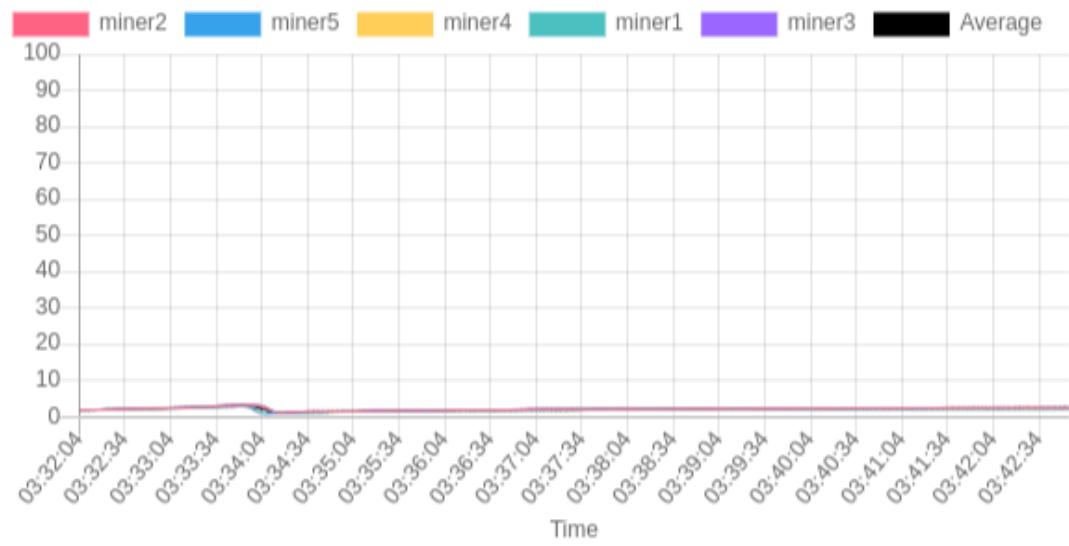


Fig3.3. Network Input (Bytes)



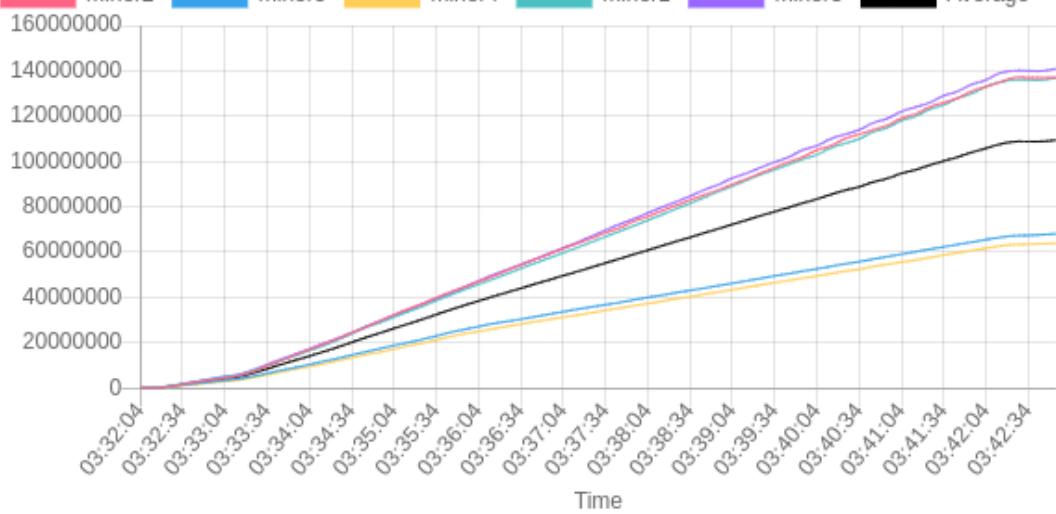
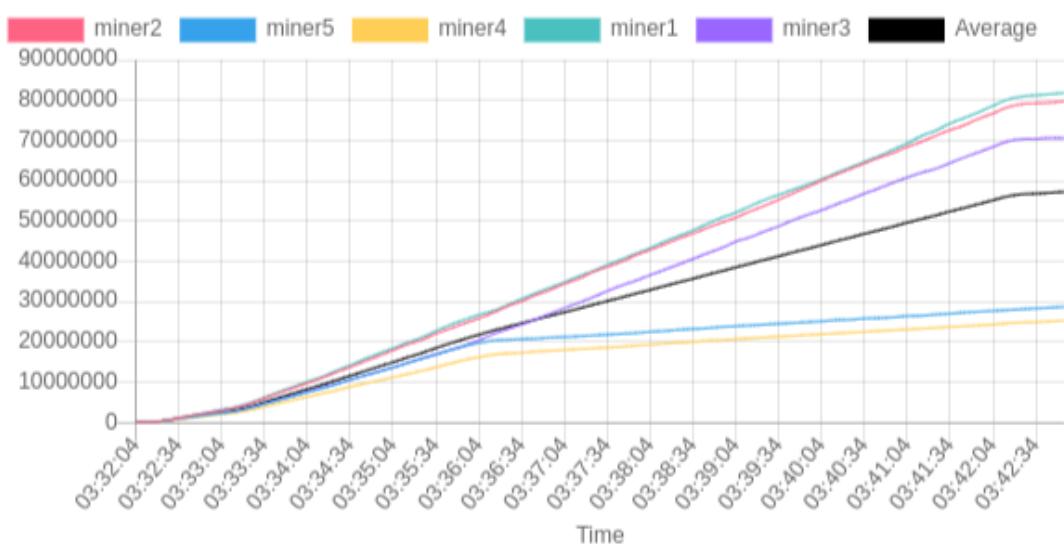


Fig3.4. Network Input Output (Bytes)



4. Comments