HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

Caliper report

Summary of performance metrics

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash	910	0	15.1	0.60	0.12	0.38	15.0
insert-data-hash-100	2068	0	35.5	2.24	0.11	0.36	34.2
insert-data-hash-1000	2547	0	43.4	2.41	0.14	0.44	42.2
insert-data-hash-4000	2683	0	45.6	2.17	0.17	0.53	44.1
insert-data-hash-8000	2777	0	47.0	2.29	0.15	0.75	45.6
insert-data-hash-16000	2908	0	48.9	2.29	0.16	0.94	47.7
insert-data-hash-32000	2920	0	49.4	2.43	0.18	1.18	49.1
insert-data-hash-64000	2952	0	49.8	2.73	0.19	1.36	47.9

Benchmark round: insert-data-hash

Benchmarking the InsertHistoricalDataHash function with specific parameters.

```
txDuration: 60
rateControl:
  type: fixed-rate
  opts:
    tps: 15
```

Performance metrics for insert-data-hash

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash	910	0	15.1	0.60	0.12	0.38	15.0

Resource utilization for insert-data-hash

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

[Details](#)

Benchmark results

System under test

[Details](#)

Metric	Prometheus Query	Name
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-100

Test InsertHistoricalDataHash function with data hash size 100 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 10
    startingTps: 1
```

Performance metrics for insert-data-hash-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-100	2068	0	35.5	2.24	0.11	0.36	34.2

Resource utilization for insert-data-hash-100

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

Metric	Prometheus Query	Name
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-1000

Test InsertHistoricalDataHash function with data hash size 1000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
    startingTps: 1
```

Performance metrics for insert-data-hash-1000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-1000	2547	0	43.4	2.41	0.14	0.44	42.2

Resource utilization for insert-data-hash-1000

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

[Details](#)

Benchmark results

[Summary](#)

[insert-data-hash](#)

[insert-data-hash-100](#)

[insert-data-hash-1000](#)

[insert-data-hash-4000](#)

[insert-data-hash-8000](#)

[insert-data-hash-16000](#)

[insert-data-hash-32000](#)

[insert-data-hash-64000](#)

System under test

[Details](#)

Metric	Prometheus Query	Name
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-4000

Test InsertHistoricalDataHash function with data hash size 4000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 30
    startingTps: 1
```

Performance metrics for insert-data-hash-4000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-4000	2683	0	45.6	2.17	0.17	0.53	44.1

Resource utilization for insert-data-hash-4000

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

Metric	Prometheus Query	Name
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-8000

Test InsertHistoricalDataHash function with data hash size 8000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 50
    startingTps: 1
```

Performance metrics for insert-data-hash-8000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-8000	2777	0	47.0	2.29	0.15	0.75	45.6

Resource utilization for insert-data-hash-8000

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

System under test

Details

Metric	Prometheus Query	Name
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-16000

Test InsertHistoricalDataHash function with data hash size 16000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 70
    startingTps: 1
```

Performance metrics for insert-data-hash-16000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-16000	2908	0	48.9	2.29	0.16	0.94	47.7

Resource utilization for insert-data-hash-16000

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

System under test

Details

Memory (MB)		
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-32000

Test InsertHistoricalDataHash function with data hash size 32000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 90
    startingTps: 1
```

Performance metrics for insert-data-hash-32000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-32000	2920	0	49.4	2.43	0.18	1.18	49.1

Resource utilization for insert-data-hash-32000

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Benchmark round: insert-data-hash-64000

Test InsertHistoricalDataHash function with data hash size 64000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 100
    startingTps: 1
```

Performance metrics for insert-data-hash-64000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-hash-	2952	0	49.8	2.73	0.19	1.36	47.9

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

64000						

Resource utilization for insert-data-hash-64000

Resource monitor: prometheus

Metric	Prometheus Query	Name
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com

Test Environment

benchmark config

```
name: insert-data-hash-benchmark
description: >-
  Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash
  function
workers:
  number: 10
rounds:
  - label: insert-data-hash
    description: >-
      Benchmarking the InsertHistoricalDataHash function with specific
```

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

Details

Benchmark results

Summary

insert-data-hash

insert-data-hash-100

insert-data-hash-1000

insert-data-hash-4000

insert-data-hash-8000

insert-data-hash-16000

insert-data-hash-32000

insert-data-hash-64000

System under test

Details

```
          parameters.
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-rate
         opts:
           tps: 15
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
   - label: insert-data-hash-100
     description: Test InsertHistoricalDataHash function with data hash size 100
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 10
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 100
   - label: insert-data-hash-1000
     description: Test InsertHistoricalDataHash function with data hash size 1000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 20
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 1000
   - label: insert-data-hash-4000
     description: Test InsertHistoricalDataHash function with data hash size 4000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 30
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 4000
   - label: insert-data-hash-8000
     description: Test InsertHistoricalDataHash function with data hash size 8000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 50
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 8000
   - label: insert-data-hash-16000
     description: Test InsertHistoricalDataHash function with data hash size 16000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 70
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 16000
   - label: insert-data-hash-32000
     description: Test InsertHistoricalDataHash function with data hash size 32000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
           transactionLoad: 90
           startingTps: 1
       workload:
         module: benchmarks/datamanagement/workloads/insert-data-hash.js
         arguments:
           chaincodeID: basic
           byteSize: 32000
   - label: insert-data-hash-64000
     description: Test InsertHistoricalDataHash function with data hash size 64000
bytes
       chaincodeID: basic
       txDuration: 60
       rateControl:
         type: fixed-load
         opts:
```

```
      transactionLoad: 100
      startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/insert-data-hash.js
    arguments:
      chaincodeID: basic
      byteSize: 64000
```

HYPERLEDGER CALIPER

Basic information

DLT: fabric

Name: insert-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

[Details](#)

Benchmark results

[Summary](#)

[insert-data-hash](#)

[insert-data-hash-100](#)

[insert-data-hash-1000](#)

[insert-data-hash-4000](#)

[insert-data-hash-8000](#)

[insert-data-hash-16000](#)

[insert-data-hash-32000](#)

[insert-data-hash-64000](#)

System under test

[Details](#)

SUT

not provided