



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	0.67	0.14	0.36	15.0
insert-data-hash-100	1957	0	33.3	2.39	0.12	0.39	32.3
insert-data-hash-1000	2478	0	42.4	2.21	0.14	0.44	41.1
insert-data-hash-4000	2797	0	47.9	2.40	0.15	0.52	46.3
insert-data-hash-8000	2742	0	46.4	2.18	0.16	0.76	45.0
insert-data-hash-16000	2928	0	49.7	2.23	0.20	0.95	48.3
insert-data-hash-32000	2987	0	50.5	2.47	0.23	1.17	49.1
insert-data-hash-64000	2902	0	48.8	2.49	0.23	1.36	47.2

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	0.67	0.14	0.36	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



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[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](#)

		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-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	1957	0	33.3	2.39	0.12	0.39	32.3

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



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](#)

		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-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	2478	0	42.4	2.21	0.14	0.44	41.1

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



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](#)

		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-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	2797	0	47.9	2.40	0.15	0.52	46.3

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



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](#)

		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-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	2742	0	46.4	2.18	0.16	0.76	45.0

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



Basic information

DLT: fabric
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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](#)

		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-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	2928	0	49.7	2.23	0.20	0.95	48.3

Resource utilization for insert-data-hash-16000

Resource monitor: prometheus



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

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	2987	0	50.5	2.47	0.23	1.17	49.1



Resource utilization for insert-data-hash-32000

Resource monitor: prometheus

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

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	Max	Min	Avg	Throughput
------	------	------	-----------	-----	-----	-----	------------



			(TPS)	Latency (s)	Latency (s)	Latency (s)	(TPS)
insert-data-hash-64000	2902	0	48.8	2.49	0.23	1.36	47.2

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 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
```



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](#)

```

rounds:
- label: insert-data-hash
  description: >-
    Benchmarking the InsertHistoricalDataHash function with specific
    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
```

Basic information

DLT: fabric
Name: insert-data-hash-benchmark
Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function
Benchmark Rounds: 8
[Details](#)

SUT

not provided

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](#)