



Basic information

DLT: fabric
Name: insert-historical-data-hash-benchmark
Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function
Benchmark Rounds: 8
[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-historical-data-offer-1	910	0	15.1	17.76	0.17	3.47	13.3
insert-historical-data-hash-100	458	0	7.5	3.41	0.41	1.80	7.2
insert-historical-data-hash-1000	328	0	5.3	7.23	0.41	3.90	5.1
insert-historical-data-hash-4000	248	0	4.0	13.10	0.58	8.49	3.9
insert-historical-data-hash-8000	340	0	4.7	20.82	1.41	14.91	4.6
insert-historical-data-hash-16000	250	0	3.7	32.95	1.27	23.23	3.6
insert-historical-data-hash-32000	200	0	2.8	62.92	0.90	48.48	2.7
insert-historical-data-hash-64000	10	209	3.0	2.01	1.90	1.95	1.6

Benchmark results

[Summary](#)
[insert-historical-data-offer-1](#)
[insert-historical-data-hash-100](#)
[insert-historical-data-hash-1000](#)
[insert-historical-data-hash-4000](#)
[insert-historical-data-hash-8000](#)
[insert-historical-data-hash-16000](#)
[insert-historical-data-hash-32000](#)
[insert-historical-data-hash-64000](#)

System under test

[Details](#)

Benchmark round: insert-historical-data-offer-1

Benchmarking the InsertHistoricalDataHash function with specific parameters.

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

Performance metrics for insert-historical-data-offer-1

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-offer-1	910	0	15.1	17.76	0.17	3.47	13.3

Resource utilization for insert-historical-data-offer-1

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



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DLT: fabric
Name: insert-historical-data-hash-benchmark
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Benchmark Rounds: 8
[Details](#)

Benchmark results

- [Summary](#)
[insert-historical-data-offer-1](#)
[insert-historical-data-hash-100](#)
[insert-historical-data-hash-1000](#)
[insert-historical-data-hash-4000](#)
[insert-historical-data-hash-8000](#)
[insert-historical-data-hash-16000](#)
[insert-historical-data-hash-32000](#)
[insert-historical-data-hash-64000](#)

System under test

[Details](#)

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-historical-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-historical-data-hash-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-100	458	0	7.5	3.41	0.41	1.80	7.2

Resource utilization for insert-historical-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



Basic information

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

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-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-historical-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-historical-data-hash-1000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-1000	328	0	5.3	7.23	0.41	3.90	5.1

Resource utilization for insert-historical-data-hash-1000

Resource monitor: prometheus

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



Basic information

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

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-data-hash-64000](#)

System under test

[Details](#)

		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-historical-data-hash-4000

Test InsertHistoricalDataHash function with data hash size 4000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 40
    startingTps: 1
```

Performance metrics for insert-historical-data-hash-4000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-4000	248	0	4.0	13.10	0.58	8.49	3.9

Resource utilization for insert-historical-data-hash-4000

Resource monitor: prometheus

Metric	Prometheus Query	Name
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Basic information

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

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-data-hash-64000](#)

System under test

[Details](#)

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-historical-data-hash-8000

Test InsertHistoricalDataHash function with data hash size 8000 bytes

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

Performance metrics for insert-historical-data-hash-8000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-8000	340	0	4.7	20.82	1.41	14.91	4.6



Resource utilization for insert-historical-data-hash-8000

Resource monitor: prometheus

Basic information

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

Benchmark results

[Summary](#)
[insert-historical-data-offer-1](#)
[insert-historical-data-hash-100](#)
[insert-historical-data-hash-1000](#)
[insert-historical-data-hash-4000](#)
[insert-historical-data-hash-8000](#)
[insert-historical-data-hash-16000](#)
[insert-historical-data-hash-32000](#)
[insert-historical-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
		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-historical-data-hash-16000

Test InsertHistoricalDataHash function with data hash size 16000 bytes

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 80
    startingTps: 1
```

Performance metrics for insert-historical-data-hash-16000

Name	Succ	Fail	Send Rate	Max	Min	Avg	Throughput
------	------	------	-----------	-----	-----	-----	------------



			(TPS)	Latency (s)	Latency (s)	Latency (s)	(TPS)
insert-historical-data-hash-16000	250	0	3.7	32.95	1.27	23.23	3.6

Basic information

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

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-data-hash-64000](#)

System under test

[Details](#)

Resource utilization for insert-historical-data-hash-16000

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

Benchmark round: insert-historical-data-hash-32000

Test InsertHistoricalDataHash function with data hash size 32000 bytes

txDuration: 60
rateControl:
 type: fixed-load
 opts:



transactionLoad: 100
startingTps: 1

Performance metrics for insert-historical-data-hash-32000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-32000	200	0	2.8	62.92	0.90	48.48	2.7

Basic information

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

Benchmark results

[Summary](#)
[insert-historical-data-offer-1](#)
[insert-historical-data-hash-100](#)
[insert-historical-data-hash-1000](#)
[insert-historical-data-hash-4000](#)
[insert-historical-data-hash-8000](#)
[insert-historical-data-hash-16000](#)
[insert-historical-data-hash-32000](#)
[insert-historical-data-hash-64000](#)

System under test

[Details](#)

Resource utilization for insert-historical-data-hash-32000

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-historical-data-hash-64000

Test InsertHistoricalDataHash function with data hash size 64000 bytes



txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 120
 startingTps: 1

Basic information

DLT: fabric
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Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function
Benchmark Rounds: 8
[Details](#)

Performance metrics for insert-historical-data-hash-64000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-historical-data-hash-64000	10	209	3.0	2.01	1.90	1.95	1.6

Benchmark results

- [Summary](#)
[insert-historical-data-offer-1](#)
[insert-historical-data-hash-100](#)
[insert-historical-data-hash-1000](#)
[insert-historical-data-hash-4000](#)
[insert-historical-data-hash-8000](#)
[insert-historical-data-hash-16000](#)
[insert-historical-data-hash-32000](#)
[insert-historical-data-hash-64000](#)

Resource utilization for insert-historical-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
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



Basic information

DLT: fabric

Name: insert-historical-data-hash-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

[Details](#)

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-data-hash-64000](#)

System under test

[Details](#)

Test Environment

benchmark config

```
name: insert-historical-data-hash-benchmark
description: >-
  Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash
  function
workers:
  number: 10
rounds:
  - label: insert-historical-data-offer-1
    description: >-
      Benchmarking the InsertHistoricalDataHash function with specific
      parameters.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-rate
      opts:
        tps: 15
    workload:
      module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
      arguments:
        chaincodeID: basic
  - label: insert-historical-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/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 100
  - label: insert-historical-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/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 1000
  - label: insert-historical-data-hash-4000
    description: Test InsertHistoricalDataHash function with data hash size 4000
bytes
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 40
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 4000
  - label: insert-historical-data-hash-8000
    description: Test InsertHistoricalDataHash function with data hash size 8000
bytes
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 60
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 8000
  - label: insert-historical-data-hash-16000
    description: Test InsertHistoricalDataHash function with data hash size 16000
bytes
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 80
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 16000
```



Basic information

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

Benchmark results

- [Summary](#)
- [insert-historical-data-offer-1](#)
- [insert-historical-data-hash-100](#)
- [insert-historical-data-hash-1000](#)
- [insert-historical-data-hash-4000](#)
- [insert-historical-data-hash-8000](#)
- [insert-historical-data-hash-16000](#)
- [insert-historical-data-hash-32000](#)
- [insert-historical-data-hash-64000](#)

System under test

[Details](#)

```
- label: insert-historical-data-hash-32000
description: Test InsertHistoricalDataHash function with data hash size 32000
bytes
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 100
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 32000
- label: insert-historical-data-hash-64000
description: Test InsertHistoricalDataHash function with data hash size 64000
bytes
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 120
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/historical-insert-data-hash.js
  arguments:
    chaincodeID: basic
    byteSize: 64000
```

SUT

not provided