



Basic information

DLT: fabric

Name: insert-data-offer-benchmark

Description: Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash function

Benchmark Rounds: 8

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Summary of performance metrics

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer	460	0	15.1	0.58	0.06	0.26	15.1
insert-data-offer-100	2043	0	71.7	2.06	0.07	0.17	67.1
insert-data-offer-1000	2217	0	78.1	2.07	0.07	0.23	73.2
insert-data-offer-4000	2170	0	76.4	0.54	0.09	0.31	76.2
insert-data-offer-8000	2342	0	82.1	2.07	0.11	0.44	77.0
insert-data-offer-13000	2348	0	80.9	2.19	0.13	0.57	77.2
insert-data-offer-32000	2387	0	81.7	2.08	0.10	0.70	78.1
insert-data-offer-64000	2422	0	82.3	2.08	0.08	0.77	77.1

Benchmark round: insert-data-offer



Benchmarking the InsertHistoricalDataHash function with specific parameters.

```
txDuration: 30
rateControl:
  type: fixed-rate
  opts:
    tps: 15
```

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Performance metrics for insert-data-offer

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer	460	0	15.1	0.58	0.06	0.26	15.1

Resource utilization for insert-data-offer

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Benchmark round: insert-data-offer-100

Test InsertHistoricalDataHash function with data hash size 100 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 10
    startingTps: 1
```

Performance metrics for insert-data-offer-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-100	2043	0	71.7	2.06	0.07	0.17	67.1

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Resource utilization for insert-data-offer-100

Benchmark round: insert-data-offer-1000

Test InsertHistoricalDataHash function with data hash size 1000 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
    startingTps: 1
```

Performance metrics for insert-data-offer-1000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-1000	2217	0	78.1	2.07	0.07	0.23	73.2

Resource utilization for insert-data-offer-1000

Benchmark round: insert-data-offer-4000

Test InsertHistoricalDataHash function with data hash size 4000 bytes

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



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Performance metrics for insert-data-offer-4000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-4000	2170	0	76.4	0.54	0.09	0.31	76.2

Resource utilization for insert-data-offer-4000

Benchmark round: insert-data-offer-8000

Test InsertHistoricalDataHash function with data hash size 8000 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 50
    startingTps: 1
```

Performance metrics for insert-data-offer-8000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-8000	2342	0	82.1	2.07	0.11	0.44	77.0

Resource utilization for insert-data-offer-8000

Benchmark round: insert-data-offer-13000



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Test InsertHistoricalDataHash function with data hash size 13000 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 70
    startingTps: 1
```

Performance metrics for insert-data-offer-13000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-13000	2348	0	80.9	2.19	0.13	0.57	77.2

Resource utilization for insert-data-offer-13000

Benchmark round: insert-data-offer-32000

Test InsertHistoricalDataHash function with data hash size 32000 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 90
    startingTps: 1
```

Performance metrics for insert-data-offer-32000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-32000	2348	0	80.9	2.19	0.13	0.57	77.2



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Hyperledger Caliper Report

insert-data-offer-32000	2387	0	81.7	2.08	0.10	0.70	78.1
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Resource utilization for insert-data-offer-32000

Benchmark round: insert-data-offer-64000

Test InsertHistoricalDataHash function with data hash size 64000 bytes

```
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 100
    startingTps: 1
```

Performance metrics for insert-data-offer-64000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
insert-data-offer-64000	2422	0	82.3	2.08	0.08	0.77	77.1

Resource utilization for insert-data-offer-64000

Test Environment

benchmark config

```
name: insert-data-offer-benchmark
description: >-
  Benchmarking the Hyperledger Fabric network with the InsertHistoricalDataHash
```



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```
function
workers:
  number: 10
rounds:
  - label: insert-data-offer
    description: >-
      Benchmarking the InsertHistoricalDataHash function with specific
      parameters.
    chaincodeID: basic
    txDuration: 30
    rateControl:
      type: fixed-rate
      opts:
        tps: 15
    workload:
      module: benchmarks/datamanagement/workloads/insert-data-offer.js
      arguments:
        chaincodeID: basic
  - label: insert-data-offer-100
    description: Test InsertHistoricalDataHash function with data hash size 100
bytes
  chaincodeID: basic
  txDuration: 30
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 10
      startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/insert-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 100
  - label: insert-data-offer-1000
    description: Test InsertHistoricalDataHash function with data hash size 1000
bytes
  chaincodeID: basic
  txDuration: 30
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 20
      startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/insert-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 1000
  - label: insert-data-offer-4000
    description: Test InsertHistoricalDataHash function with data hash size 4000
bytes
```



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```
chaincodeID: basic
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 30
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/insert-data-offer.js
  arguments:
    chaincodeID: basic
    byteSize: 4000
- label: insert-data-offer-8000
  description: Test InsertHistoricalDataHash function with data hash size 8000
bytes
chaincodeID: basic
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 50
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/insert-data-offer.js
  arguments:
    chaincodeID: basic
    byteSize: 8000
- label: insert-data-offer-13000
  description: Test InsertHistoricalDataHash function with data hash size 13000
bytes
chaincodeID: basic
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 70
    startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/insert-data-offer.js
  arguments:
    chaincodeID: basic
    byteSize: 13000
- label: insert-data-offer-32000
  description: Test InsertHistoricalDataHash function with data hash size 32000
bytes
chaincodeID: basic
txDuration: 30
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 90
```




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```
startingTps: 1
workload:
  module: benchmarks/datamanagement/workloads/insert-data-offer.js
  arguments:
    chaincodeID: basic
    byteSize: 32000
- label: insert-data-offer-64000
  description: Test InsertHistoricalDataHash function with data hash size 64000
bytes
  chaincodeID: basic
  txDuration: 30
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 100
      startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/insert-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 64000
```

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SUT

not provided

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