



Basic information

DLT: fabric
Name: data-offer
Description: This testcase is to determine the large numbers of consumer query the dataOffer from application to check the scalability on hyperledger. Successive rounds create and retrieve dataoffer of larger byteSize.
Benchmark Rounds: 9
[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

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)
data-offer-evaluate-100	310	0	4.9	8.78	0.21	6.76	4.8
data-offer-evaluate-1000	343	0	5.3	9.29	0.34	6.69	5.2
data-offer-evaluate-2000	360	0	6.1	9.27	1.10	7.42	5.9
data-offer-evaluate-4000	400	0	6.0	9.13	0.20	6.18	5.9
data-offer-evaluate-8000	372	0	5.8	9.21	0.20	6.71	5.8
data-offer-evaluate-16000	367	0	5.6	9.23	0.21	6.01	5.5
data-offer-evaluate-32000	360	0	5.8	9.17	0.22	6.97	5.8
data-offer-evaluate-64000	366	0	6.0	9.34	0.19	6.77	6.0
data-offer-evaluate-8000-fixed-tps	610	0	10.2	34.87	1.57	22.01	7.4

Benchmark round: data-offer-evaluate-100

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 100 bytes.

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

Performance metrics for data-offer-evaluate-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-100	310	0	4.9	8.78	0.21	6.76	4.8

Resource utilization for data-offer-evaluate-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
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer



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[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

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: data-offer-evaluate-1000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 1000 bytes.

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

Performance metrics for data-offer-evaluate-1000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-1000	343	0	5.3	9.29	0.34	6.69	5.2

Resource utilization for data-offer-evaluate-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



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[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

		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: data-offer-evaluate-2000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 2000 bytes.

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

Performance metrics for data-offer-evaluate-2000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-2000	360	0	6.1	9.27	1.10	7.42	5.9

Resource utilization for data-offer-evaluate-2000

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



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[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

		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: data-offer-evaluate-4000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 4000 bytes.

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

Performance metrics for data-offer-evaluate-4000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-4000	400	0	6.0	9.13	0.20	6.18	5.9

Resource utilization for data-offer-evaluate-4000

Resource monitor: prometheus

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



Basic information

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Benchmark Rounds: 9
[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

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: data-offer-evaluate-8000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 8000 bytes.


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

Performance metrics for data-offer-evaluate-8000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-8000	372	0	5.8	9.21	0.20	6.71	5.8

Resource utilization for data-offer-evaluate-8000

Resource monitor: prometheus



HYPERLEDGER
CALIPER

Basic information

DLT: fabric

Name: data-offer

Description: This testcase is to determine the large numbers of consumer query the dataOffer from application to check the scalability on hyperledger. Successive rounds create and retrieve dataoffer of larger byteSize.

Benchmark Rounds: 9

[Details](#)

Benchmark results

[Summary](#)

[data-offer-evaluate-100](#)

[data-offer-evaluate-1000](#)

[data-offer-evaluate-2000](#)

[data-offer-evaluate-4000](#)

[data-offer-evaluate-8000](#)

[data-offer-evaluate-16000](#)

[data-offer-evaluate-32000](#)

[data-offer-evaluate-64000](#)

[data-offer-evaluate-8000-fixed-tps](#)

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: data-offer-evaluate-16000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 16000 bytes.

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

Performance metrics for data-offer-evaluate-16000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-16000	367	0	5.6	9.23	0.21	6.01	5.5



Resource utilization for data-offer-evaluate-16000

Resource monitor: prometheus

Basic information

DLT: fabric
Name: data-offer
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Benchmark Rounds: 9
[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

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: data-offer-evaluate-32000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 32000 bytes.

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

Performance metrics for data-offer-evaluate-32000

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Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-32000	360	0	5.8	9.17	0.22	6.97	5.8

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[Details](#)

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

Resource utilization for data-offer-evaluate-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: data-offer-evaluate-64000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 64000 bytes.

txDuration: 60
rateControl:
 type: fixed-load



opts:
transactionLoad: 50

Performance metrics for data-offer-evaluate-64000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-64000	366	0	6.0	9.34	0.19	6.77	6.0

Basic information

DLT: fabric
Name: data-offer
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Benchmark Rounds: 9
[Details](#)

Benchmark results

- [Summary](#)
[data-offer-evaluate-100](#)
[data-offer-evaluate-1000](#)
[data-offer-evaluate-2000](#)
[data-offer-evaluate-4000](#)
[data-offer-evaluate-8000](#)
[data-offer-evaluate-16000](#)
[data-offer-evaluate-32000](#)
[data-offer-evaluate-64000](#)
[data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

Resource utilization for data-offer-evaluate-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

Benchmark round: data-offer-evaluate-8000-fixed-tps



Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `data-offer-query`. This method performs a getState on an item that matches an dataOffer of size 8000 bytes at a fixed TPS.

txDuration: 60
rateControl:
 type: fixed-rate
 opts:
 startingTps: 1

Basic information

DLT: fabric
Name: data-offer
Description: This testcase is to determine the large numbers of consumer query the dataOffer from application to check the scalability on hyperledger. Successive rounds create and retrieve dataoffer of larger byteSize.
Benchmark Rounds: 9
[Details](#)

Performance metrics for data-offer-evaluate-8000-fixed-tps

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-8000-fixed-tps	610	0	10.2	34.87	1.57	22.01	7.4

Benchmark results

- [Summary](#)
- [data-offer-evaluate-100](#)
- [data-offer-evaluate-1000](#)
- [data-offer-evaluate-2000](#)
- [data-offer-evaluate-4000](#)
- [data-offer-evaluate-8000](#)
- [data-offer-evaluate-16000](#)
- [data-offer-evaluate-32000](#)
- [data-offer-evaluate-64000](#)
- [data-offer-evaluate-8000-fixed-tps](#)

Resource utilization for data-offer-evaluate-8000-fixed-tps

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



Basic information

DLT: fabric

Name: data-offer

Description: This testcase is to determine the large numbers of consumer query the dataOffer from application to check the scalability on hyperledger. Successive rounds create and retrieve dataoffer of larger byteSize.

Benchmark Rounds: 9

[Details](#)

Benchmark results

[Summary](#)

[data-offer-evaluate-100](#)

[data-offer-evaluate-1000](#)

[data-offer-evaluate-2000](#)

[data-offer-evaluate-4000](#)

[data-offer-evaluate-8000](#)

[data-offer-evaluate-16000](#)

[data-offer-evaluate-32000](#)

[data-offer-evaluate-64000](#)

[data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

Test Environment

benchmark config

```
name: data-offer
description: >-
  This testcase is to determine the large numbers of consumer query the
  dataOffer from application to check the scalability on hyperledger. Successive
  rounds create and retrieve dataoffer of larger byteSize.
workers:
  number: 10
rounds:
  - label: data-offer-evaluate-100
    description: >-
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `data-offer-query`. This method performs a
      getState on an item that matches an dataOffer of size 100 bytes.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
    opts:
      transactionLoad: 50
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        create_sizes:
          - 100
          - 1000
          - 2000
          - 4000
          - 8000
          - 16000
          - 32000
          - 64000
        byteSize: 100
        consensus: false
  - label: data-offer-evaluate-1000
    description: >-
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `data-offer-query`. This method performs a
      getState on an item that matches an dataOffer of size 1000 bytes.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
    opts:
      transactionLoad: 50
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        noSetup: true
        byteSize: 1000
        consensus: false
  - label: data-offer-evaluate-2000
    description: >-
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `data-offer-query`. This method performs a
      getState on an item that matches an dataOffer of size 2000 bytes.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
    opts:
      transactionLoad: 50
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        noSetup: true
        byteSize: 2000
        consensus: false
  - label: data-offer-evaluate-4000
    description: >-
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `data-offer-query`. This method performs a
      getState on an item that matches an dataOffer of size 4000 bytes.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
    opts:
      transactionLoad: 50
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        noSetup: true
        byteSize: 4000
        consensus: false
  - label: data-offer-evaluate-8000
    description: >-
      Test an evaluateTransaction() Gateway method against the NodeJS `basic`
      Smart Contract method named `data-offer-query`. This method performs a
      getState on an item that matches an dataOffer of size 8000 bytes.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
    opts:
```



Basic information

DLT: fabric

Name: data-offer

Description: This testcase is to determine the large numbers of consumer query the dataOffer from application to check the scalability on hyperledger. Successive rounds create and retrieve dataoffer of larger byteSize.

Benchmark Rounds: 9

[Details](#)

Benchmark results

[Summary](#)

[data-offer-evaluate-100](#)

[data-offer-evaluate-1000](#)

[data-offer-evaluate-2000](#)

[data-offer-evaluate-4000](#)

[data-offer-evaluate-8000](#)

[data-offer-evaluate-16000](#)

[data-offer-evaluate-32000](#)

[data-offer-evaluate-64000](#)

[data-offer-evaluate-8000-fixed-tps](#)

System under test

[Details](#)

```

transactionLoad: 50
workload:
  module: benchmarks/datamanagement/workloads/get-data-offer.js
  arguments:
    chaincodeID: basic
    noSetup: true
    byteSize: 8000
    consensus: false
- label: data-offer-evaluate-16000
  description: >-
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `data-offer-query`. This method performs a
    getState on an item that matches an dataOffer of size 16000 bytes.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 50
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      noSetup: true
      byteSize: 16000
      consensus: false
- label: data-offer-evaluate-32000
  description: >-
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `data-offer-query`. This method performs a
    getState on an item that matches an dataOffer of size 32000 bytes.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 50
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      noSetup: true
      byteSize: 32000
      consensus: false
- label: data-offer-evaluate-64000
  description: >-
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `data-offer-query`. This method performs a
    getState on an item that matches an dataOffer of size 64000 bytes.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 50
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      noSetup: true
      consensus: false
- label: data-offer-evaluate-8000-fixed-tps
  description: >-
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `data-offer-query`. This method performs a
    getState on an item that matches an dataOffer of size 8000 bytes at a
    fixed TPS.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-rate
    opts:
      startingTps: 1
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      noSetup: true
      byteSize: 8000
      consensus: false

```

SUT

not provided