



## 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](#)

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## Benchmark results

[Summary](#)

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

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

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

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

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## System under test

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# 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	12910	0	221.9	0.34	0.01	0.16	221.8
data-offer-evaluate-1000	12839	0	220.2	0.35	0.01	0.16	220.1
data-offer-evaluate-2000	13212	0	226.7	0.33	0.01	0.15	226.7
data-offer-evaluate-4000	13290	0	228.2	0.35	0.01	0.15	228.1
data-offer-evaluate-8000	13313	0	228.5	0.35	0.01	0.15	228.5
data-offer-evaluate-16000	13764	0	235.6	0.34	0.01	0.15	235.6
data-offer-evaluate-32000	13570	0	232.7	0.36	0.01	0.15	232.6
data-offer-evaluate-64000	13565	0	232.1	0.33	0.01	0.15	232.0
data-offer-evaluate-8000-fixed-tps	610	0	10.1	0.03	0.01	0.01	10.1

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Benchmark Rounds: 9

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## Benchmark results

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

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

## System under test

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# 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	12910	0	221.9	0.34	0.01	0.16	221.8

## Resource utilization for data-offer-evaluate-100

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	105
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	35.7



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Benchmark Rounds: 9

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

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## System under test

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		peer0.org1.example.com	162
		peer0.org2.example.com	74.5
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00238
		couchdb0	49.5
		couchdb1	0.589
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	9.66
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00069
		orderer.example.com	0.379
		peer0.org1.example.com	22.0
		peer0.org2.example.com	1.75
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read	sum(rate(container_fs_reads_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00



## Basic information

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Benchmark Rounds: 9

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## System under test

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(MB)			
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00156
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00

## 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	12839	0	220.2	0.35	0.01	0.16	220.1

## Resource utilization for data-offer-evaluate-1000



## 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

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## Benchmark results

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

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

## System under test

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### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	98.6
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.1
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	36.0
		peer0.org1.example.com	180
		peer0.org2.example.com	74.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00050
		couchdb0	93.4
		couchdb1	0.543
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	18.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.0156
		orderer.example.com	0.349
		peer0.org1.example.com	41.0
		peer0.org2.example.com	1.48
Disc Write	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00



## Hyperledger Caliper Report

## 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

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## Benchmark results

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## System under test

[Details](#)

(MB)			
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00104
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00

## 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
  
```

## 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

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## Benchmark results

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

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## System under test

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## 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	13212	0	226.7	0.33	0.01	0.15	226.7

## Resource utilization for data-offer-evaluate-2000

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	98.9
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.6
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	36.6
		peer0.org1.example.com	191
		peer0.org2.example.com	74.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00238



## Basic information

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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

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## System under test

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	couchdb0	94.2
	couchdb1	0.564
	dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	18.4
	dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00043
	orderer.example.com	0.342
	peer0.org1.example.com	41.0
	peer0.org2.example.com	1.52
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer 0.00
	couchdb0	0.00
	couchdb1	0.00
	dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
	dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
	orderer.example.com	0.00
	peer0.org1.example.com	0.00
	peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer 0.00
	couchdb0	0.00
	couchdb1	0.00
	dev-peer0.org1.example.com-basic_1.0-	0.00521



## Basic information

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Benchmark Rounds: 9

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## Benchmark results

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	69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	
	dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
	orderer.example.com	0.00
	peer0.org1.example.com	0.00
	peer0.org2.example.com	0.00

## 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	13290	0	228.2	0.35	0.01	0.15	228.1

## Resource utilization for data-offer-evaluate-4000

Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71



## 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

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

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## System under test

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(MB)			
		couchdb0	98.8
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	34.0
		peer0.org1.example.com	200
		peer0.org2.example.com	75.1
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00101
		couchdb0	96.9
		couchdb1	0.540
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	19.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.0180
		orderer.example.com	0.337
		peer0.org1.example.com	42.6
		peer0.org2.example.com	1.51
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00



## 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

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

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## System under test

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		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00081
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00

## 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

### 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

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### Benchmark results

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

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

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

### System under test

[Details](#)

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-8000	13313	0	228.5	0.35	0.01	0.15	228.5

## Resource utilization for data-offer-evaluate-8000

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	98.9
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.2
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	34.8
		peer0.org1.example.com	211
		peer0.org2.example.com	75.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00185
		couchdb0	96.9
		couchdb1	0.523



## 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](#)

		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	18.9
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00060
		orderer.example.com	0.337
		peer0.org1.example.com	42.2
		peer0.org2.example.com	1.51
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00410
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00



## 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](#)

		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00

## 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	13764	0	235.6	0.34	0.01	0.15	235.6

## Resource utilization for data-offer-evaluate-16000

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	99.2
		couchdb1	51.0



## 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](#)

		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.2
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	34.1
		peer0.org1.example.com	213
		peer0.org2.example.com	75.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00319
		couchdb0	97.1
		couchdb1	0.548
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	19.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00607
		orderer.example.com	0.354
		peer0.org1.example.com	42.3
		peer0.org2.example.com	1.53
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00



## 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](#)

		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00283
		peer0.org2.example.com	0.00

## 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



## 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](#)

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
data-offer-evaluate-32000	13570	0	232.7	0.36	0.01	0.15	232.6

## Resource utilization for data-offer-evaluate-32000

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	98.9
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	47.4
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	35.3
		peer0.org1.example.com	224
		peer0.org2.example.com	75.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00047
		couchdb0	97.0
		couchdb1	0.562
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	19.2
		dev-peer0.org2.example.com-basic_1.0-	0.0234



## 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](#)

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## 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](#)

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## System under test

[Details](#)

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## Hyperledger Caliper Report

		69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	
		orderer.example.com	0.338
		peer0.org1.example.com	43.5
		peer0.org2.example.com	1.50
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00424



## 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](#)

## 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	13565	0	232.1	0.33	0.01	0.15	232.0

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

#### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	99.1
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	46.6



## 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](#)

		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	36.4
		peer0.org1.example.com	227
		peer0.org2.example.com	75.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00236
		couchdb0	97.7
		couchdb1	0.533
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	19.0
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00745
		orderer.example.com	0.343
		peer0.org1.example.com	42.0
		peer0.org2.example.com	1.51
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00



## 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](#)

		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00186
		peer0.org2.example.com	0.00

## 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
```

## 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-	610	0	10.1	0.03	0.01	0.01	10.1



## 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](#)

## 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-8000-fixed-tps

### Resource monitor: prometheus

Metric	Prometheus Query	Name	Value
Avg Memory (MB)	sum(container_memory_rss{name=~".+"}) by (name)	ca_orderer	6.71
		couchdb0	98.9
		couchdb1	51.0
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	44.9
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	25.2
		orderer.example.com	37.3
		peer0.org1.example.com	235
		peer0.org2.example.com	75.6
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer	0.00037
		couchdb0	44.8
		couchdb1	0.581
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	8.73
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.0109
		orderer.example.com	0.373
		peer0.org1.example.com	21.4



## 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](#)

		peer0.org2.example.com	1.99
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00
Disc Read (MB)	sum(rate(container_fs_reads_bytes_total{name=~".+"} [1m])) by (name)	ca_orderer	0.00
		couchdb0	0.00
		couchdb1	0.00
		dev-peer0.org1.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		dev-peer0.org2.example.com-basic_1.0-69c185f1de922b69658b5c353004067819666dc07f0ba6fbcb50c353de0a9304	0.00
		orderer.example.com	0.00
		peer0.org1.example.com	0.00
		peer0.org2.example.com	0.00

## 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/api/fabric/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/api/fabric/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      noSetup: true

```

## 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](#)

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## System under test

[Details](#)

---



## 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](#)

---

```

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/api/fabric/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/api/fabric/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:
    transactionLoad: 50
workload:
  module: benchmarks/api/fabric/datamanagement/workloads/get-data-offer.js
arguments:
  chaincodeID: basic
  noSetup: true

```



## 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](#)

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## 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](#)

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## System under test

[Details](#)

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```

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/api/fabric/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/api/fabric/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/api/fabric/datamanagement/workloads/get-data-offer.js
arguments:
  chaincodeID: basic
  noSetup: true

```



## 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](#)

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## 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](#)

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## System under test

[Details](#)

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```

  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/api/fabric/datamanagement/workloads/get-data-offer.js
arguments:
  chaincodeID: basic
  noSetup: true
  byteSize: 8000
  consensus: false

```

## SUT

not provided

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