



Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the `GetAllOffer()` API method.
Benchmark Rounds: 9
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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)
get-data-offer-evaluate	290	0	4.9	6.43	0.52	4.11	4.8
get-data-offer-evaluate-100	349	0	5.6	6.64	0.33	3.89	5.6
get-data-offer-evaluate-1000	338	0	5.5	6.34	0.28	3.79	5.4
get-data-offer-evaluate-2000	336	0	5.6	6.47	1.21	3.75	5.4
get-data-offer-evaluate-4000	300	0	4.7	6.39	0.23	4.30	4.7
get-data-offer-evaluate-8000	273	0	4.6	6.55	0.53	4.50	4.4
get-data-offer-evaluate-16000	282	0	4.5	6.44	0.68	4.00	4.4
get-data-offer-evaluate-32000	256	0	4.0	6.46	0.37	4.24	4.0
get-data-offer-evaluate-64000	326	0	5.3	6.63	0.89	4.43	5.2

Benchmark round: get-data-offer-evaluate

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate	290	0	4.9	6.43	0.52	4.11	4.8

Resource utilization for get-data-offer-evaluate

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



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		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
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-100

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-100

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-100	349	0	5.6	6.64	0.33	3.89	5.6

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

Resource monitor: prometheus

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



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Memory (MB)		
		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
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-1000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-1000



Basic information

DLT: fabric
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Benchmark Rounds: 9
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Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-1000	338	0	5.5	6.34	0.28	3.79	5.4

Resource utilization for get-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
		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
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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
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Benchmark round: get-data-offer-evaluate-2000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-2000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-2000	336	0	5.6	6.47	1.21	3.75	5.4

Resource utilization for get-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
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
		ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	peer0.org2.example.com
		ca_orderer
		couchdb0
		couchdb1
		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
		peer0.org2.example.com



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Disc Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-4000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-4000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-4000	300	0	4.7	6.39	0.23	4.30	4.7

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

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	sum(rate(container_fs_writes_bytes_total{name=~".+"})	ca_orderer



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Write (MB)	[1m])) by (name)	
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-8000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-8000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-8000	273	0	4.6	6.55	0.53	4.50	4.4

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

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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Benchmark Rounds: 9
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		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
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-16000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-16000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-16000	282	0	4.5	6.44	0.68	4.00	4.4

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

Resource monitor: prometheus

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



Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
Benchmark Rounds: 9
[Details](#)

Benchmark results

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

System under test

[Details](#)

		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	ca_orderer
		couchdb0
		couchdb1
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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

Benchmark round: get-data-offer-evaluate-32000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

```
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
```

Performance metrics for get-data-offer-evaluate-32000

--	--	--	--	--	--	--	--



Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-32000	256	0	4.0	6.46	0.37	4.24	4.0

Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
Benchmark Rounds: 9
[Details](#)

Benchmark results

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

System under test

[Details](#)

Resource utilization for get-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
		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 Read (MB)	sum(rate(container_fs_reads_bytes_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



Benchmark round: get-data-offer-evaluate-64000

Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.

Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
Benchmark Rounds: 9
[Details](#)

txDuration: 60
rateControl:
 type: fixed-load
 opts:
 transactionLoad: 20

Performance metrics for get-data-offer-evaluate-64000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-64000	326	0	5.3	6.63	0.89	4.43	5.2

Benchmark results

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

Resource utilization for get-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
CPU (%)	sum(rate(container_cpu_usage_seconds_total{name=~".+"}[1m])) by (name)	orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
Disc Write (MB)	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) by (name)	orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
Disc Read	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) by (name)	orderer.example.com
		peer0.org1.example.com
		peer0.org2.example.com
		dev-peer0.org1.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576
		dev-peer0.org2.example.com-basic_1.0-637b908e08b257332d955d5b7eadeac170c68a9499b6070bb44fcd2688726576



Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
Benchmark Rounds: 9
[Details](#)

Benchmark results

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

System under test

[Details](#)

(MB)		
		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

Test Environment

benchmark config

```
name: get-data-offers
description: >
  This is a duration based benchmark targeting a Hyperledger Fabric network using the `basic` NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
workers:
  number: 10
rounds:
  - label: get-data-offer-evaluate
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
      opts:
        transactionLoad: 20
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
  - label: get-data-offer-evaluate-100
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
      opts:
        transactionLoad: 20
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        byteSize: 100
        consensus: false
  - label: get-data-offer-evaluate-1000
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
      opts:
        transactionLoad: 20
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        byteSize: 1000
        consensus: false
  - label: get-data-offer-evaluate-2000
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all data-offer schedules from the ledger.
    chaincodeID: basic
    txDuration: 60
    rateControl:
      type: fixed-load
      opts:
        transactionLoad: 20
    workload:
      module: benchmarks/datamanagement/workloads/get-data-offer.js
      arguments:
        chaincodeID: basic
        byteSize: 2000
        consensus: false
  - label: get-data-offer-evaluate-4000
    description: >
      Test an evaluateTransaction() Gateway method against the NodeJS `basic` Smart Contract method named `GetAlldata-offer`. This method retrieves all
```



Basic information

DLT: fabric
Name: get-data-offers
Description: This is a duration based benchmark targeting a Hyperledger Fabric network using the 'basic' NodeJS chaincode contract that is interacted with via a Fabric-SDK-Node Gateway. Each test round invokes the 'GetAllOffer()' API method.
Benchmark Rounds: 9
[Details](#)

Benchmark results

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

System under test

[Details](#)

```
data-offer schedules from the ledger.
chaincodeID: basic
txDuration: 60
rateControl:
  type: fixed-load
  opts:
    transactionLoad: 20
workload:
  module: benchmarks/datamanagement/workloads/get-data-offer.js
  arguments:
    chaincodeID: basic
    byteSize: 4000
    consensus: false
- label: get-data-offer-evaluate-8000
  description: >
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `GetAlldata-offer`. This method retrieves all
    data-offer schedules from the ledger.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 20
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 8000
      consensus: false
- label: get-data-offer-evaluate-16000
  description: >
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `GetAlldata-offer`. This method retrieves all
    data-offer schedules from the ledger.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 20
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 16000
      consensus: false
- label: get-data-offer-evaluate-32000
  description: >
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `GetAlldata-offer`. This method retrieves all
    data-offer schedules from the ledger.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 20
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 23000
      consensus: false
- label: get-data-offer-evaluate-64000
  description: >
    Test an evaluateTransaction() Gateway method against the NodeJS `basic`
    Smart Contract method named `GetAlldata-offer`. This method retrieves all
    data-offer schedules from the ledger.
  chaincodeID: basic
  txDuration: 60
  rateControl:
    type: fixed-load
    opts:
      transactionLoad: 20
  workload:
    module: benchmarks/datamanagement/workloads/get-data-offer.js
    arguments:
      chaincodeID: basic
      byteSize: 64000
      consensus: false
```

SUT

not provided