



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	205	0	3.4	4.97	0.79	3.63	3.4
get-data-offer-evaluate-100	291	0	4.6	5.10	0.34	3.00	4.5
get-data-offer-evaluate-1000	296	0	4.8	5.15	0.22	3.14	4.8
get-data-offer-evaluate-2000	302	0	4.8	5.29	0.74	3.46	4.8
get-data-offer-evaluate-4000	289	0	4.6	5.26	0.21	3.30	4.6
get-data-offer-evaluate-8000	311	0	5.1	5.23	0.64	2.96	5.1
get-data-offer-evaluate-16000	304	0	4.8	5.07	0.35	2.96	4.7
get-data-offer-evaluate-32000	290	0	4.4	5.14	0.24	3.22	4.4
get-data-offer-evaluate-64000	250	0	4.1	5.52	0.22	3.54	4.0

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	205	0	3.4	4.97	0.79	3.63	3.4

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



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		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-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	291	0	4.6	5.10	0.34	3.00	4.5

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



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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-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

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

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-1000	296	0	4.8	5.15	0.22	3.14	4.8

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



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		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-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	302	0	4.8	5.29	0.74	3.46	4.8

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



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Benchmark Rounds: 9
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		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-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	289	0	4.6	5.26	0.21	3.30	4.6

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-



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Benchmark Rounds: 9
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		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-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	311	0	5.1	5.23	0.64	2.96	5.1

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



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Benchmark Rounds: 9
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System under test

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		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-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	304	0	4.8	5.07	0.35	2.96	4.7
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Resource utilization for get-data-offer-evaluate-16000

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](#)

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-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.

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-32000

Name	Succ	Fail	Send Rate (TPS)	Max Latency (s)	Min Latency (s)	Avg Latency (s)	Throughput (TPS)
get-data-offer-evaluate-32000	290	0	4.4	5.14	0.24	3.22	4.4

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-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	sum(rate(container_fs_reads_bytes_total{name=~".+"}[1m])) 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](#)

(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

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.

```
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	250	0	4.1	5.52	0.22	3.54	4.0

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
		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	sum(rate(container_fs_writes_bytes_total{name=~".+"}[1m])) 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](#)

(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
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

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: 5
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:
```



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](#)

```

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
  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

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](#)