



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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- [get-data-offer-evaluate-100](#)
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- [get-data-offer-evaluate-2000](#)
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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	300	0	7.1	16.11	0.20	12.97	5.4
get-data-offer-evaluate-100	300	0	7.7	17.26	0.23	14.38	5.5
get-data-offer-evaluate-1000	300	0	8.1	17.87	0.33	15.44	5.6
get-data-offer-evaluate-2000	300	0	8.1	18.86	0.22	16.69	5.5
get-data-offer-evaluate-4000	300	0	8.1	18.28	0.36	16.14	5.6
get-data-offer-evaluate-8000	300	0	8.2	18.60	0.94	16.38	5.6
get-data-offer-evaluate-16000	300	0	8.2	19.19	0.19	16.87	5.5
get-data-offer-evaluate-32000	300	0	8.3	19.02	0.39	17.06	5.6
get-data-offer-evaluate-64000	300	0	8.3	19.14	0.44	16.96	5.5

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	300	0	7.1	16.11	0.20	12.97	5.4

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	300	0	7.7	17.26	0.23	14.38	5.5

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



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Benchmark Rounds: 9  
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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	300	0	8.1	17.87	0.33	15.44	5.6

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-



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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	300	0	8.1	18.86	0.22	16.69	5.5

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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		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	300	0	8.1	18.28	0.36	16.14	5.6

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	300	0	8.2	18.60	0.94	16.38	5.6

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	300	0	8.2	19.19	0.19	16.87	5.5
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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	300	0	8.3	19.02	0.39	17.06	5.6

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
		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



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	300	0	8.3	19.14	0.44	16.96	5.5

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: 150
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: 32000
    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](#)