Basics

Colors Styles

16 starter color styles for you to get started.

Main

At&T Blue	White	Black
009FDB#	# FFFFFF	# 000000

Supporting Colors

Cobalt	Mint
# 0057B8	# 49EEDC

Gray

Grey 1	Grey 2	Grey 3	Grey 4
# E5E5E5	# D2D2D2	# 959595	# 5A5A5A

Accent Colors

Purple	Tangerine	Lime	Berry
# AF28BB	# FFB000	# 91DC00	# FF585D

More Colors

Yellow	Orange	Pink
# FFE100	# FF6D00	# E30074

AT&T Quantum Protocol Testbed

Algorithm type

Select

Algorithm

Select

Number of iterations

1

Run

QUJATA

Next-Gen Crypto. Quantified.

Define parameters to view the dashboard

Algorithm type

Select

- BIKE
- CRYSTAL-Kyber
- FrodoKEM
- HQC

Algorithm

Select

- bikel1
- bikel3

Number of iterations

1

Run

Define parameters to view the dashboard

AT&T Quantum Protocol Testbed

Algorithm type: BIKE

Algorithm: bikel1

Number of iterations: 1

Concurrent connections: 1

Run

Average Session Total Time (s)

0.006188

min: 0.000100 max: 0.001098

Average Session Handshake Time (s)

0.000750

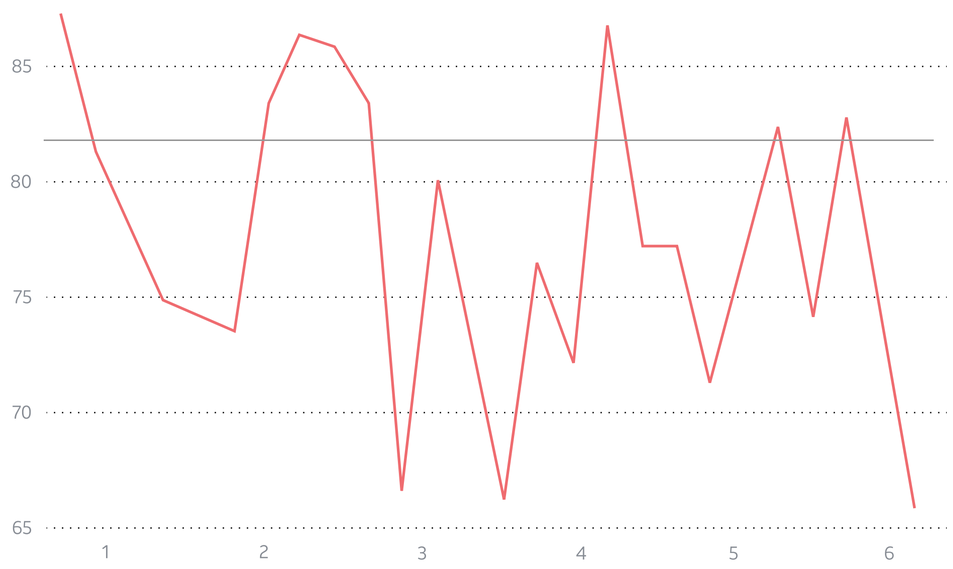
min: 0.000100 max: 0.001098

Average Download Speed (bytes/sec)

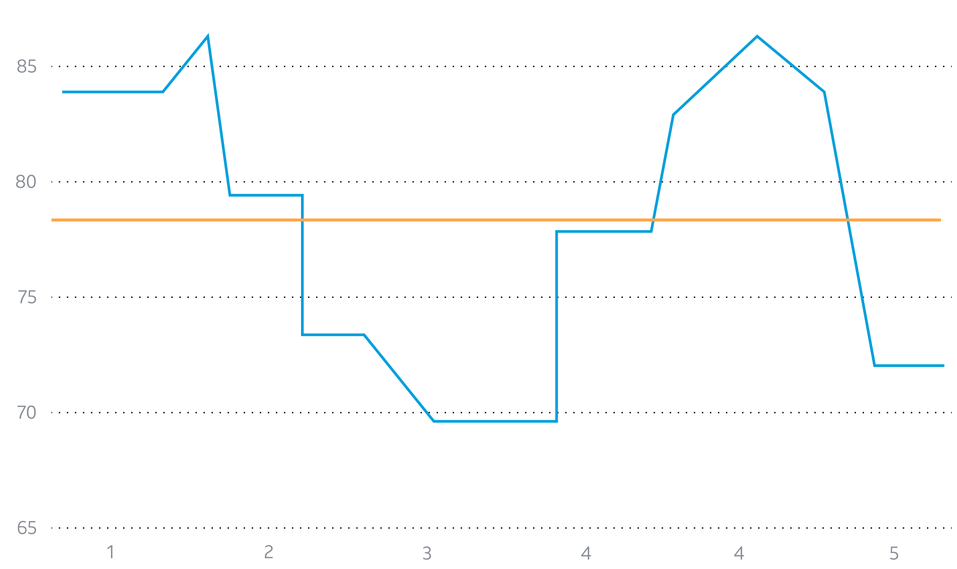
99385

min: 0.000100 max: 0.001098

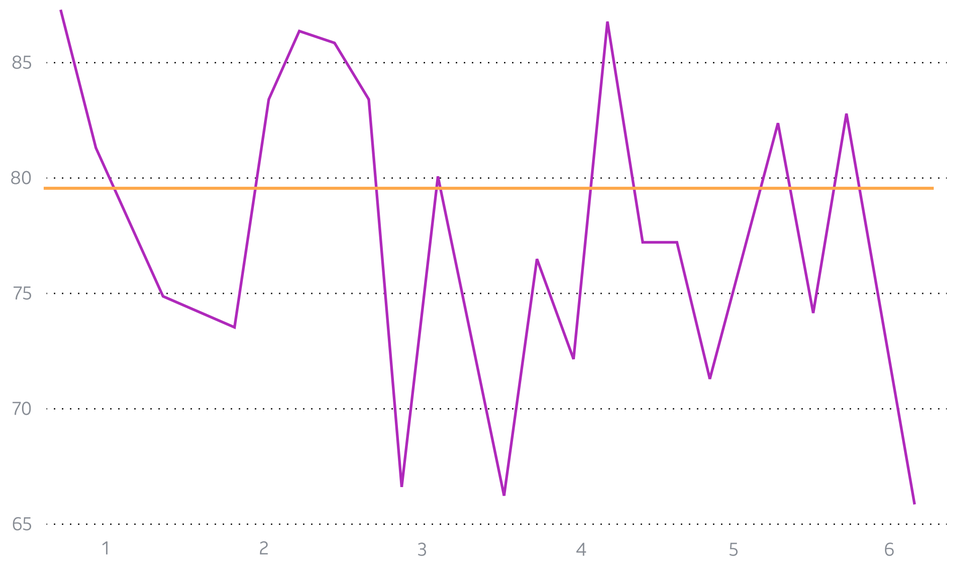
Server Memory



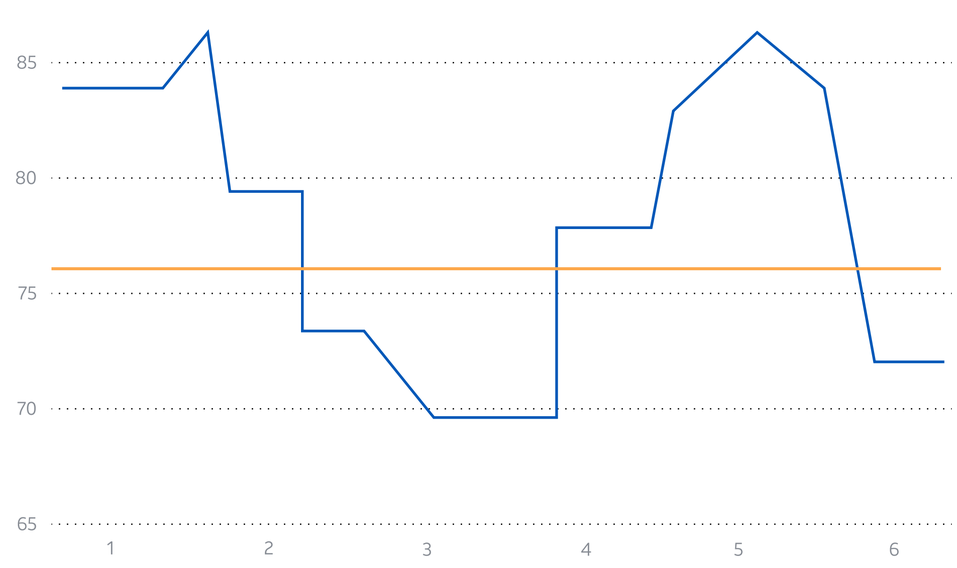
Server CPU



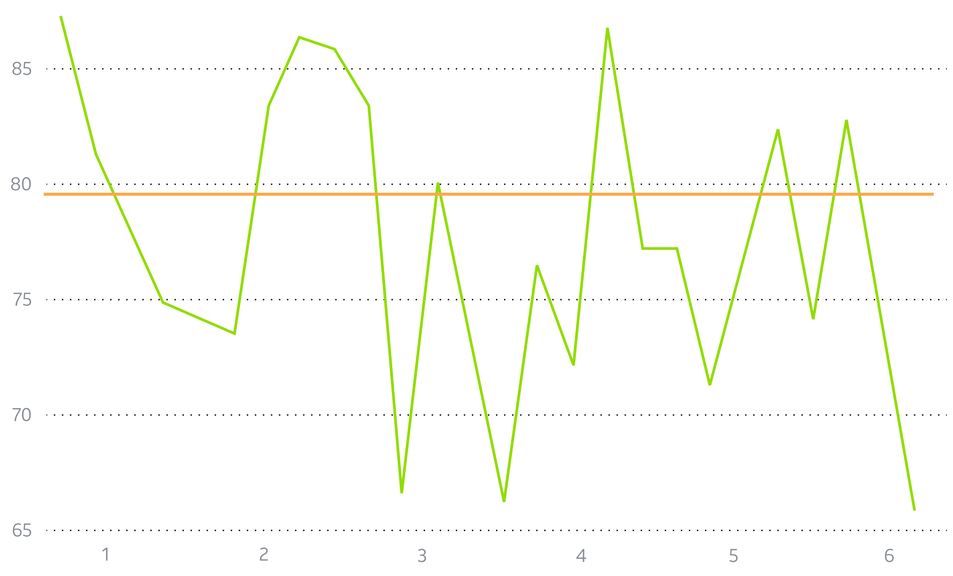
Client Memory



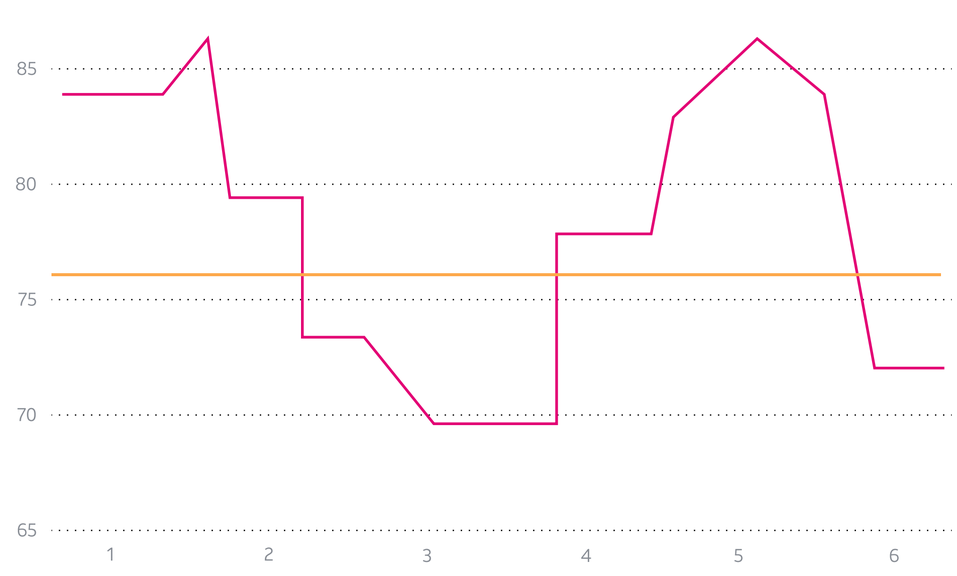
Client CPU



Throughput



Goodput



AT&T Quantum Protocol Testbed

Algorithm type: BIKE

Algorithm: bikel1

Number of iterations: 1

Concurrent connections: 1

Run

Average Session Total Time (s)

0.006188

min: 0.000100 max: 0.001098

Average Session Handshake Time (s)

0.000750

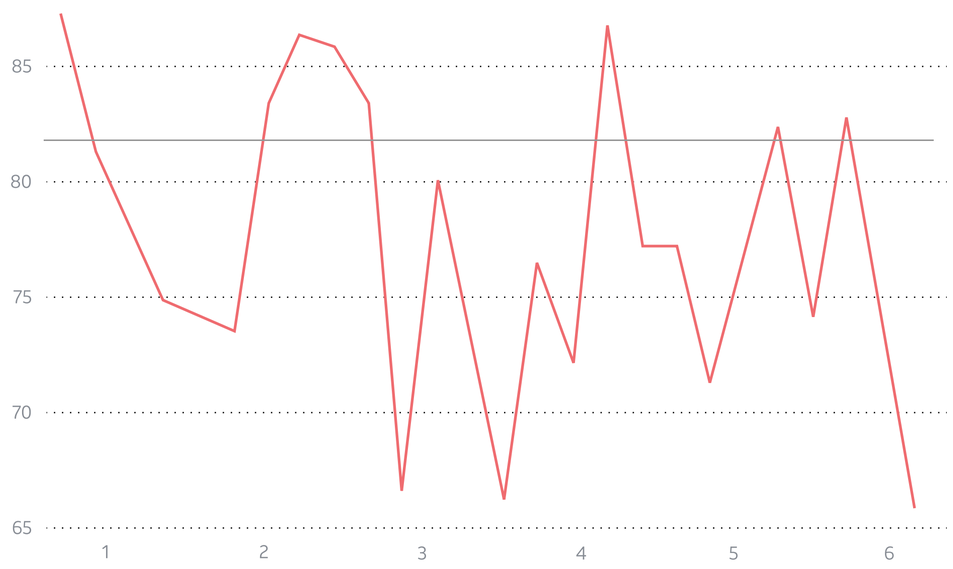
min: 0.000100 max: 0.001098

Average Download Speed (bytes/sec)

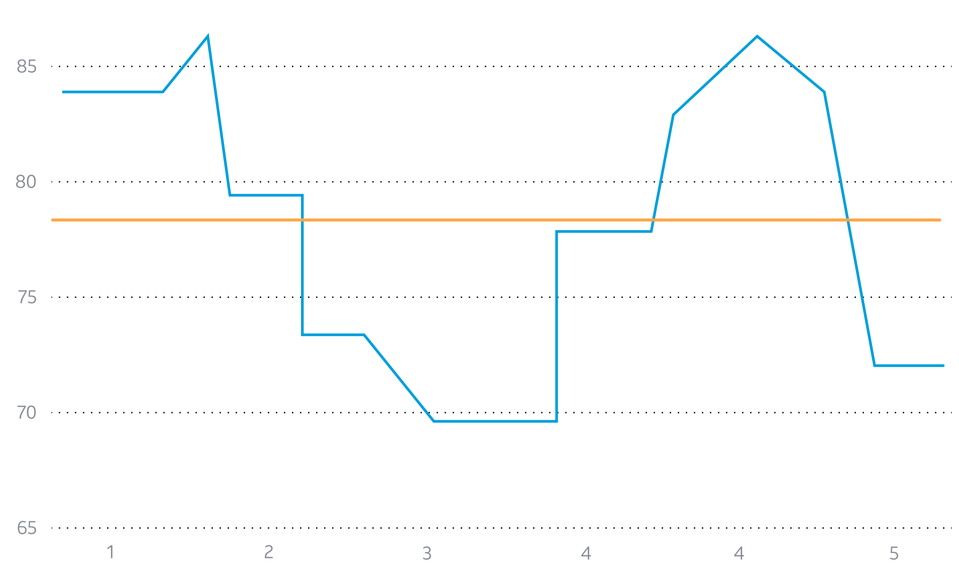
99385

min: 0.000100 max: 0.001098

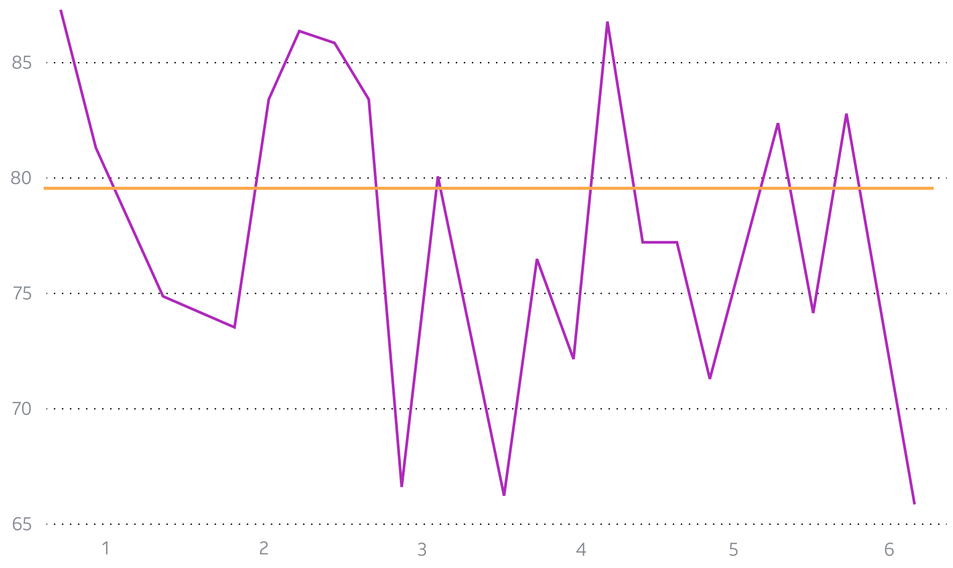
Server Memory



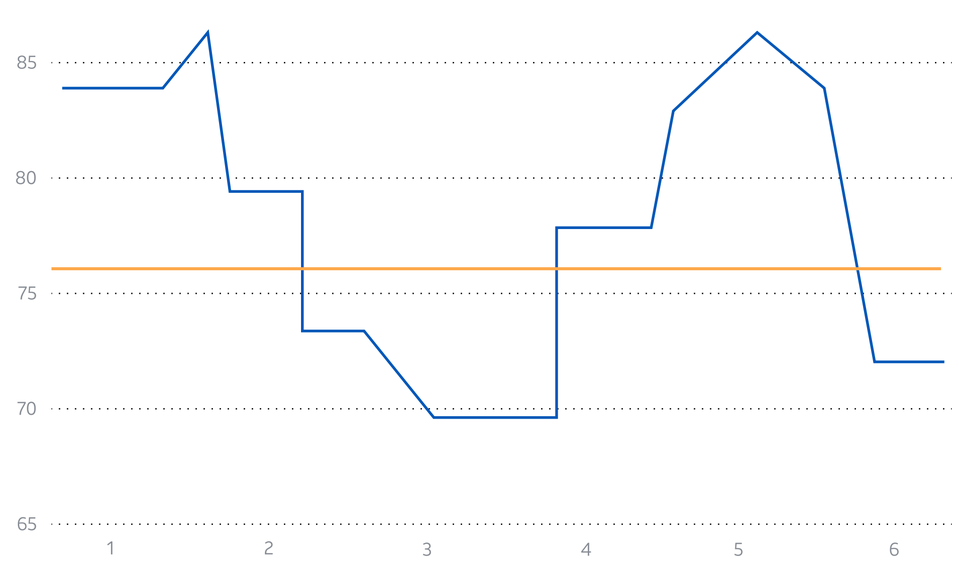
Server CPU



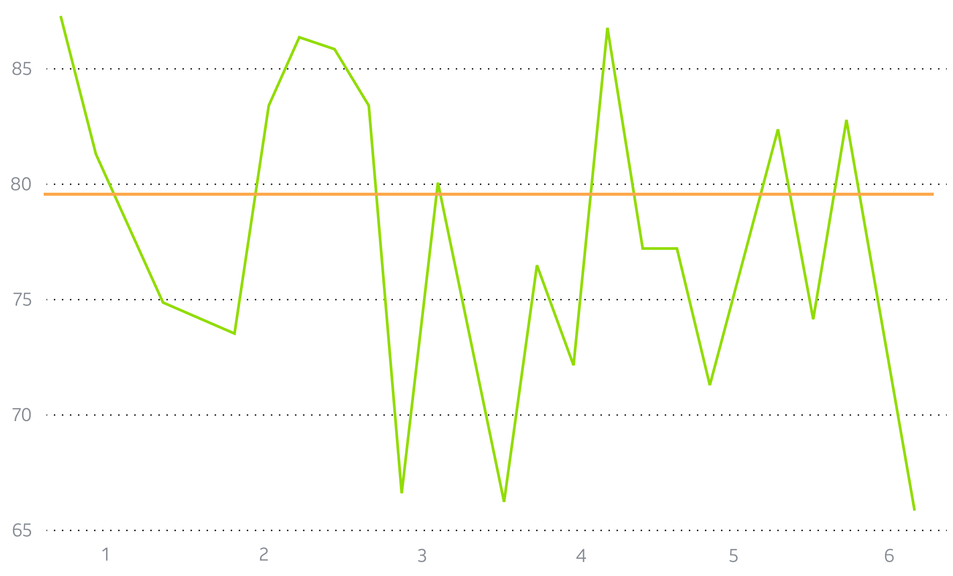
Client Memory



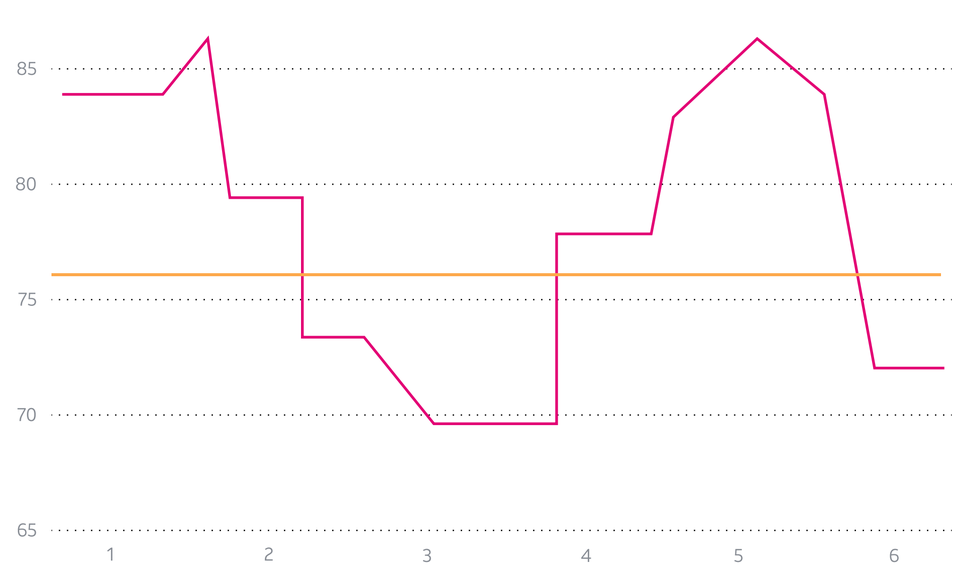
Client CPU



Throughput



Goodput



AT&T Quantum Protocol Testbed

Algorithm type: BIKE

Algorithm: bikel1

Number of iterations: 1

Concurrent connections: 1

Run

What are we doing here?

On each iteration:

- Creating secure connection (async key exchange)
- Creating symmetric key for the session
- Downloading 100KB file
- How does it work when you download
- Possibly show in a graph both for download and for the session

More information on GIT

Average Session Total Time (s)

0.006188

min: 0.000100 max: 0.001098

Average Session Handshake Time (s)

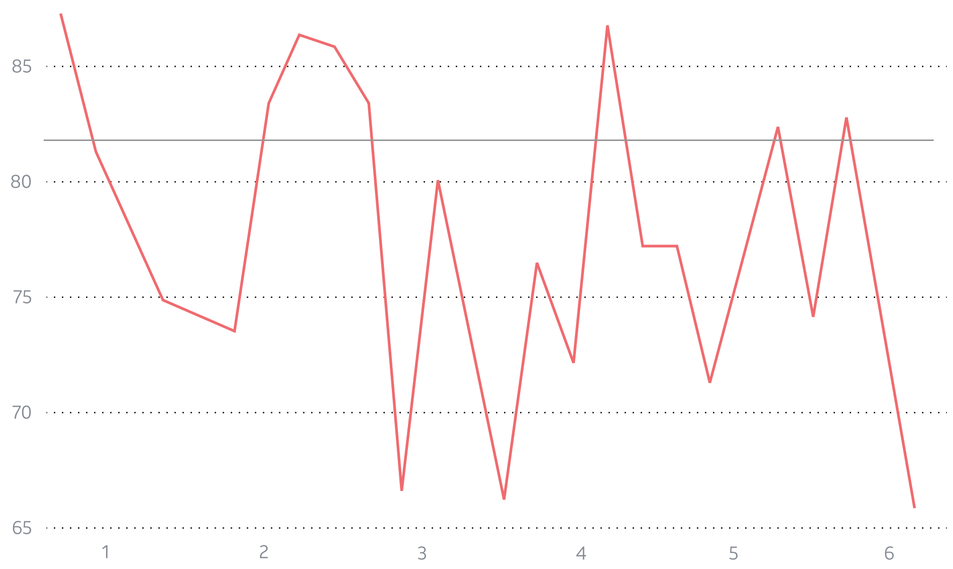
0.000750

min: 0.000100 max: 0.001098

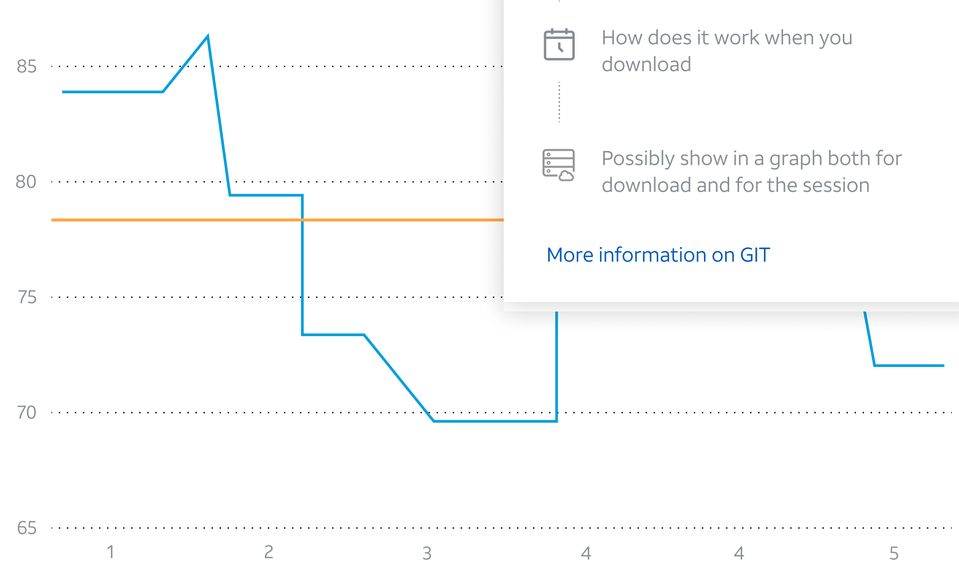
Aver

mi

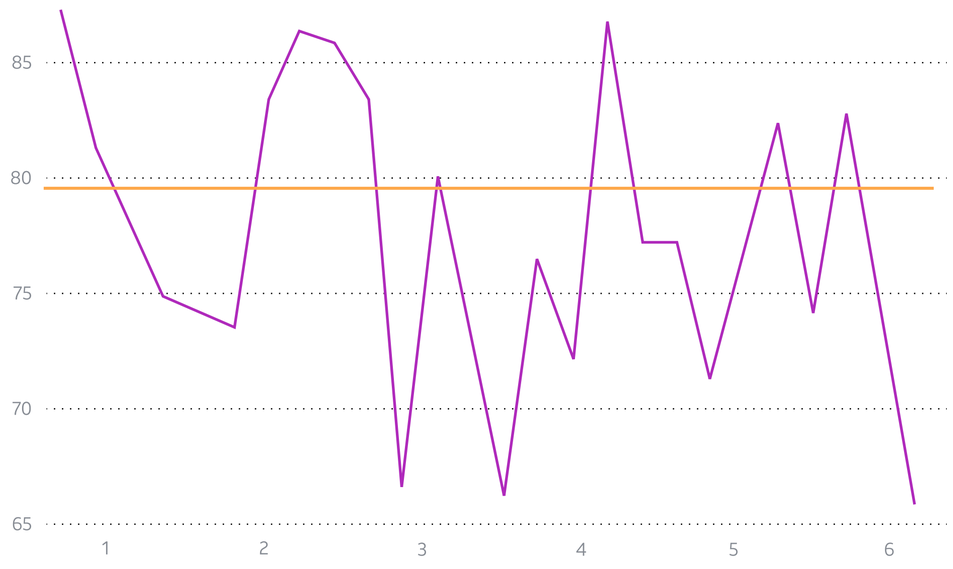
Server Memory



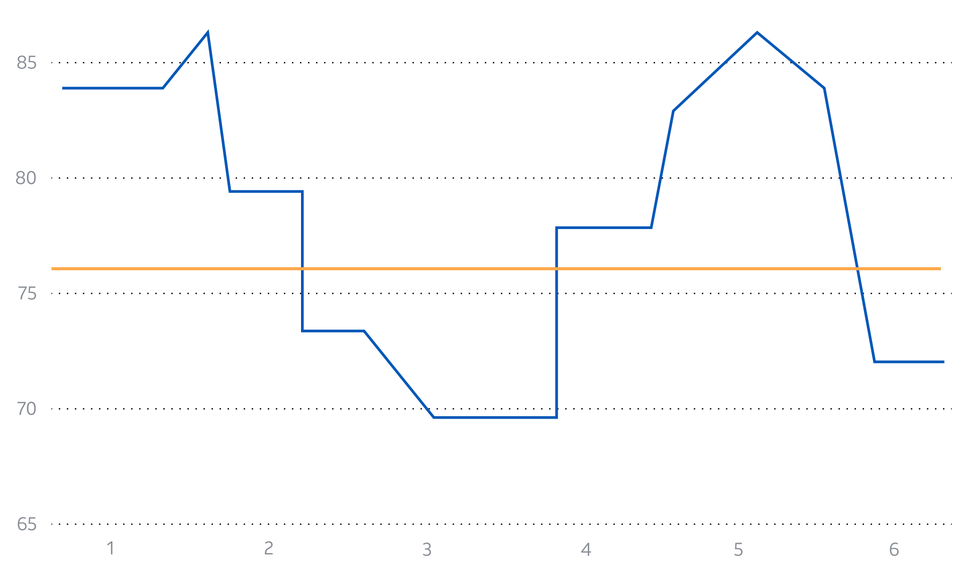
Server CPU



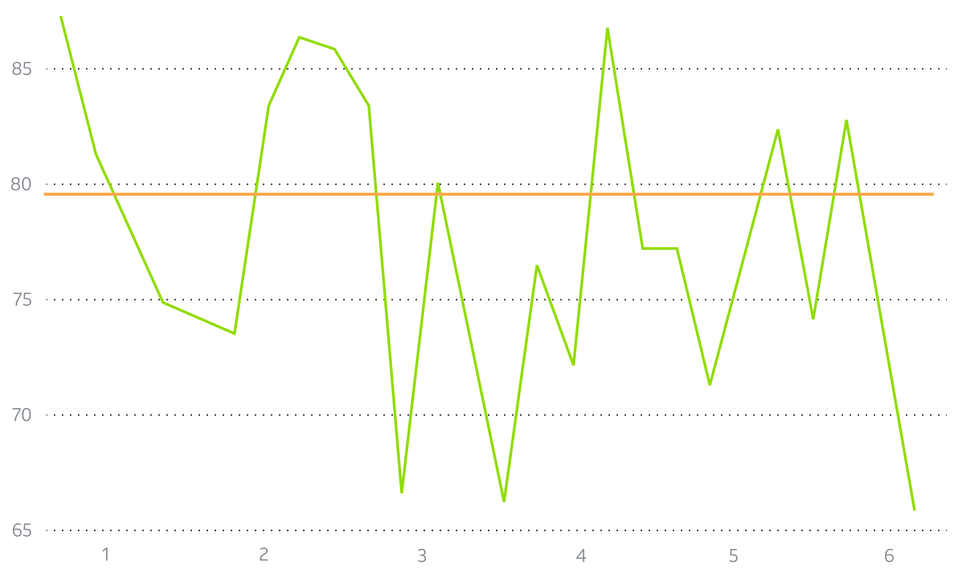
Client Memory



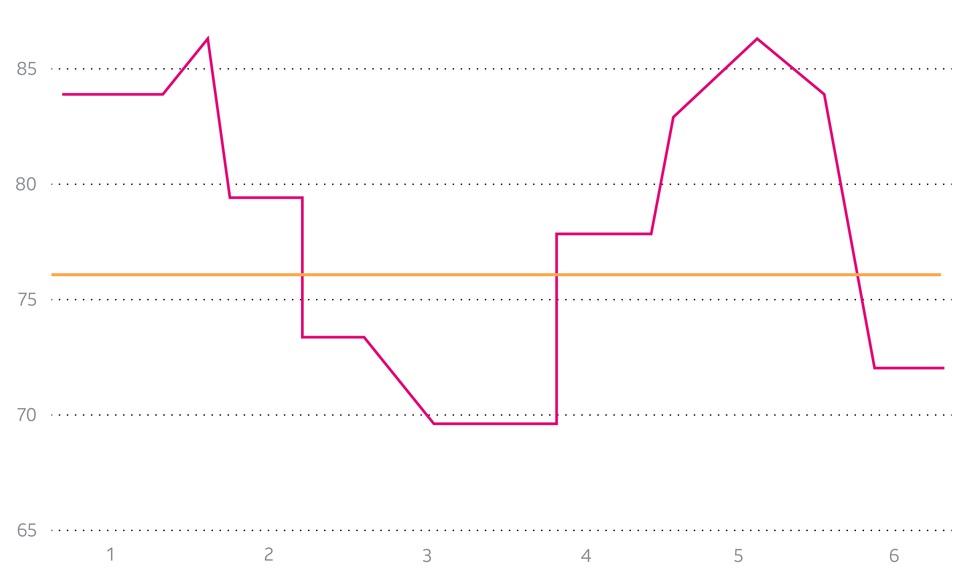
Client CPU



Throughput



Goodput



AT&T Quantum Protocol Testbed

Algorithm type: BIKE

Algorithm: bikel1

Number of iterations: 1

Concurrent connections: 1

Run

Average Session Total Time (s)

0.006188

min: 0.000100 max: (

Average Session Handshake Time (s)

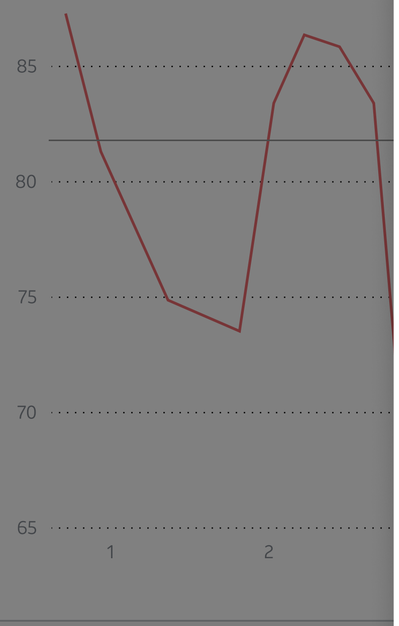
0.000750

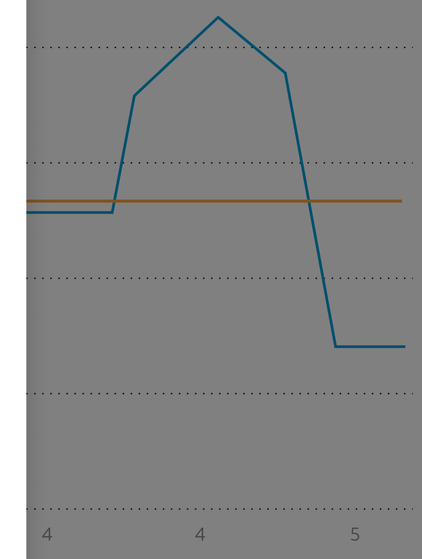
Average Download Speed (bytes/sec)

99385

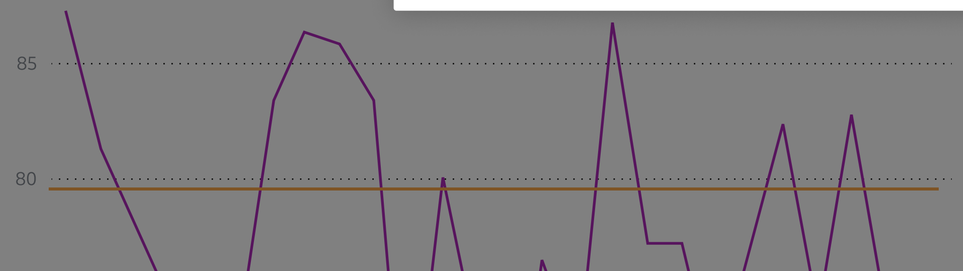
00100 max: 0.001098

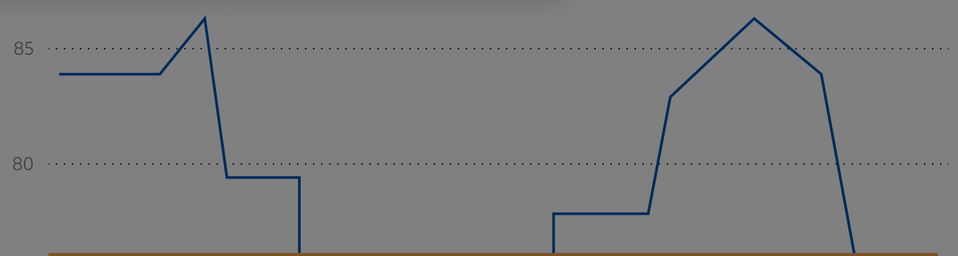
Server Memory





Client Memory

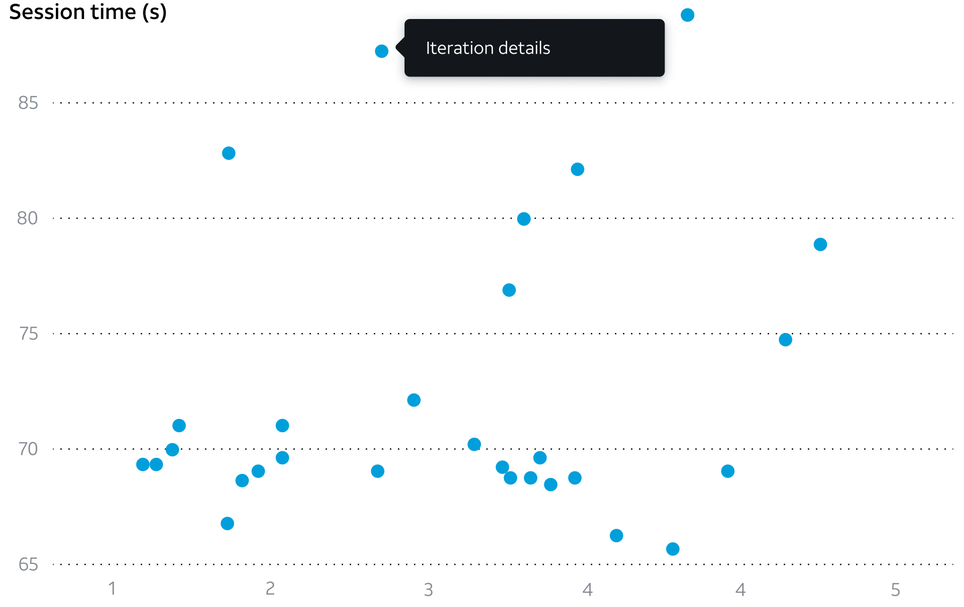




kyber768 - Average Session Total Time (s)

Average: 0.006188 Min: 0.000100 Max: 0.001098

Session time (s)



That's what are we doing on each iteration:

Initiating handshake using the selected cryptographic algorithm.

Exchanging keys using the selected algorithm to create a shared secret.

Deriving symmetric keys, establishing a secure channel for communication.

Downloading content over the secure channel.

Closing the session

Run new experiment

Duplicate experiment

Note: For each experiment you can select or type in one or more algorithms, number of iterations and message sizes.

Experiment name *

Name

Algorithm (s) *

Number of iterations *

+ Add new

Message size *

+ Add new

Description

Run

Latest Experiments

All experiments

Experiment Name	Date	#Algorithms	Iterations	Message size (KB)
Experiment Name	20 May 2023	6	10, 15, 20...	24, 32, 64
Experiment Name	31 April 2023	10	10, 15, 20...	24, 32, 64
Experiment Name	12 June 2023	4	10, 15, 20...	24, 32, 64
Experiment Name	11 May 2023	2	10, 15, 20...	24, 32, 64
Experiment Name	19 May 2023	3	10, 15, 20...	24, 32, 64

QUJATA Recommendation

Adjust the config file with your system and hardware properties to get more accurate results.
Learn more

That's what are we doing on each iteration:

Initiating handshake using the selected cryptographic algorithm.

Exchanging keys using the selected algorithm to create a shared secret.

Deriving symmetric keys, establishing a secure channel for communication.

Downloading content over the secure channel.

Closing the session

Run new experiment

Create experiment based on other experiment ->

Note: For each experiment you can select or type in one or more algorithms, number of iterations and message sizes

Experiment name

Name

Algorithm(s)

Number of iterations

+ Add new

- [ ] 1K
- [ ] 5K
- [x] 10K
- [ ] 15K
- [ ] 20K

+ Add new

Run

Latest Experiments

Extended view

Experiment Name	Date	#Algorithms	Iterations	Message size (KB)
Experiment Name	20 May 2023	6	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	10	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	4	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	2	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	3	10, 15, 20...	24, 32, 64

For better result adjust the config file with your system and hardware details. Learn more

That's what are we doing on each iteration:

Initiating handshake using the selected cryptographic algorithm.

Exchanging keys using the selected algorithm to create a shared secret.

Deriving symmetric keys, establishing a secure channel for communication.

Downloading content over the secure channel.

Closing the session

Run new experiment

Create experiment based on other experiment ->

Note: For each experiment you can select or type in one or more algorithms, number of iterations and message sizes

Experiment name

Name

Algorithm(s)

+ Add new

- All
- Classic
  - Prime256v1
  - Ptrye256v1
- Hybrid
  - Prime256v1
- PQ
  - Prime256v1

Run

Latest Experiments

Extended view

Experiment Name	Date	#Algorithms	Iterations	Message size (KB)
Experiment Name	20 May 2023	6	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	10	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	4	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	2	10, 15, 20...	24, 32, 64
Experiment Name	20 May 2023	3	10, 15, 20...	24, 32, 64

For better result adjust the config file with your system and hardware details. Learn more

That's what are we doing on each iteration:

Initiating handshake using the selected cryptographic algorithm.

Exchanging keys using the selected algorithm to create a shared secret.

Deriving symmetric keys, establishing a secure channel for communication.

Downloading content over the secure channel.

Closing the session

Experiment name

Create experiment based on other experiment ->

Note: For each experiment you can select or type in one or more algorithms, number of iterations and message sizes

Name

Algorithm(s)

ptrye2561 × ptrye2561 ×

Number of iterations

10000 × 1000 × + Add new

Message size (KB)

+ Add new

Description

Run

Latest Experiments

Extended view

Experiment Name	Date	#Algorithms	Iterations	Message size (KB)
Experiment Name	20 May 2023	6	10K, 15K, 20K...	24, 32, 64
Experiment Name	20 May 2023	10	10K, 15K, 20K...	24, 32, 64
Experiment Name	20 May 2023	4	10K, 15K, 20K...	24, 32, 64
Experiment Name	20 May 2023	2	10K, 15K, 20K...	24, 32, 64
Experiment Name	20 May 2023	3	10K, 15K, 20K...	24, 32, 64

For better result adjust the config file with your system and hardware details. Learn more

That's what are we doing on each iteration:

Initiating handshake using the selected cryptographic algorithm.

Exchanging keys using the selected algorithm to create a shared secret.

Deriving symmetric keys, establishing a secure channel for communication.

Downloading content over the secure channel.

Closing the session

Experiment name

Create experiment based on other experiment ->

Note: For each experiment you can select or type in one or more algorithms, number of iterations and message sizes

Name

Algorithm(s)

ptrye2561 × ptrye2561 ×

Number of iterations

+ Add new

- [ ] 1K
- [ ] 5K
- [x] 10K
- [ ] 15K
- [ ] 20K
- [x] 100K

Run

Latest Experiments

Extended view

Experiment Name	Date	#Algorithms	Iterations	Message size (KB)
Experiment Name	20 May 2023	6	10, 15, 20...	24, 32, 64
Experiment Name	19 May 2023	10	10, 15, 20...	24, 32, 64
Experiment Name	18 May 2023	4	10, 15, 20...	24, 32, 64
Experiment Name	17 May 2023	2	10, 15, 20...	24, 32, 64
Experiment Name	16 May 2023	3	10, 15, 20...	24, 32, 64

For better result adjust the config file with your system and hardware details. Learn more

QUJATA Home All Experiments

← Experiment Name

Algorithm(s)
ptrye2561, ptrye256, ptrye256, ptrye256

Iterations
10, 100, 250, 300

Message Size
10, 20, 30, 50

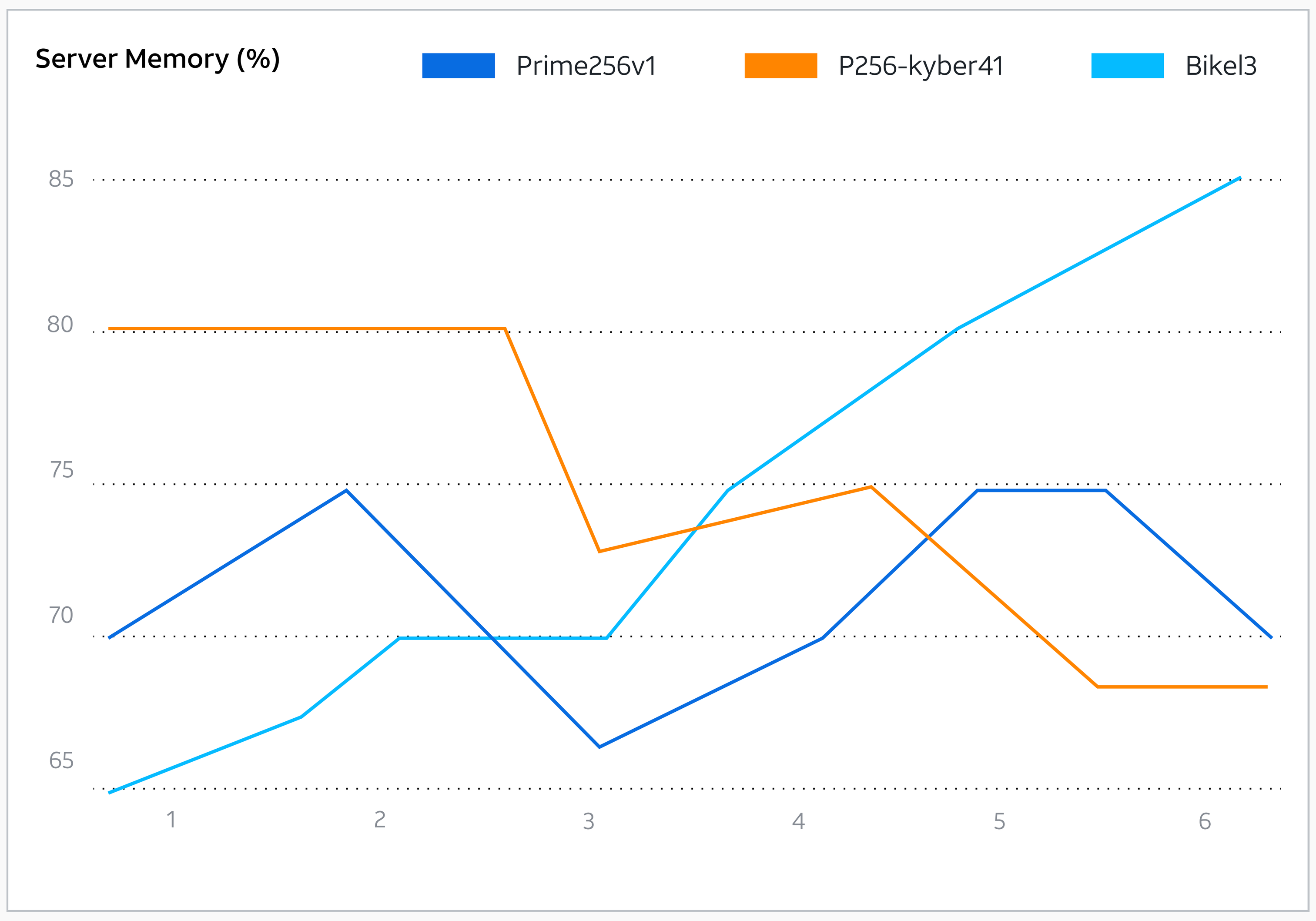
This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description

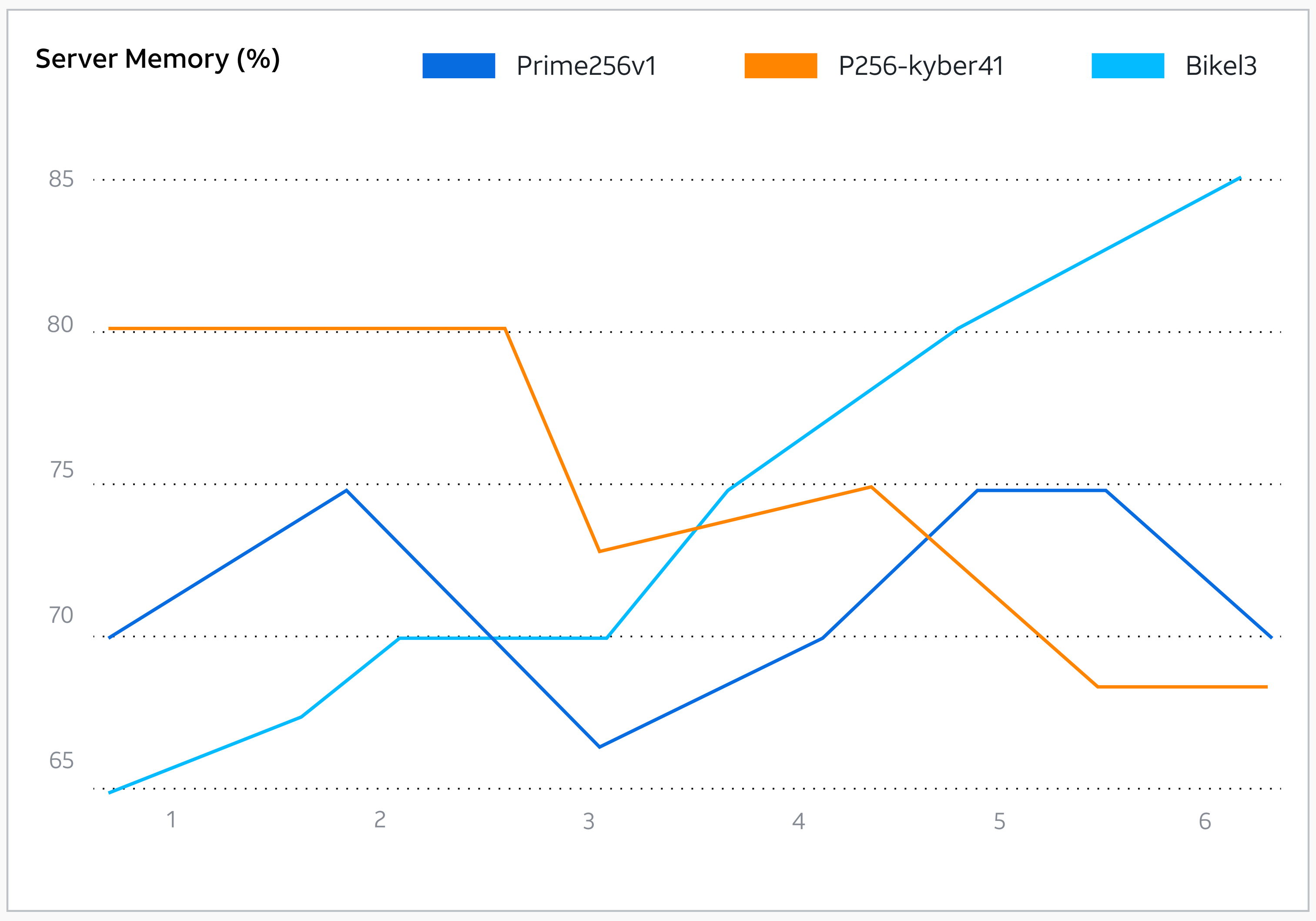
Results Data Visualization

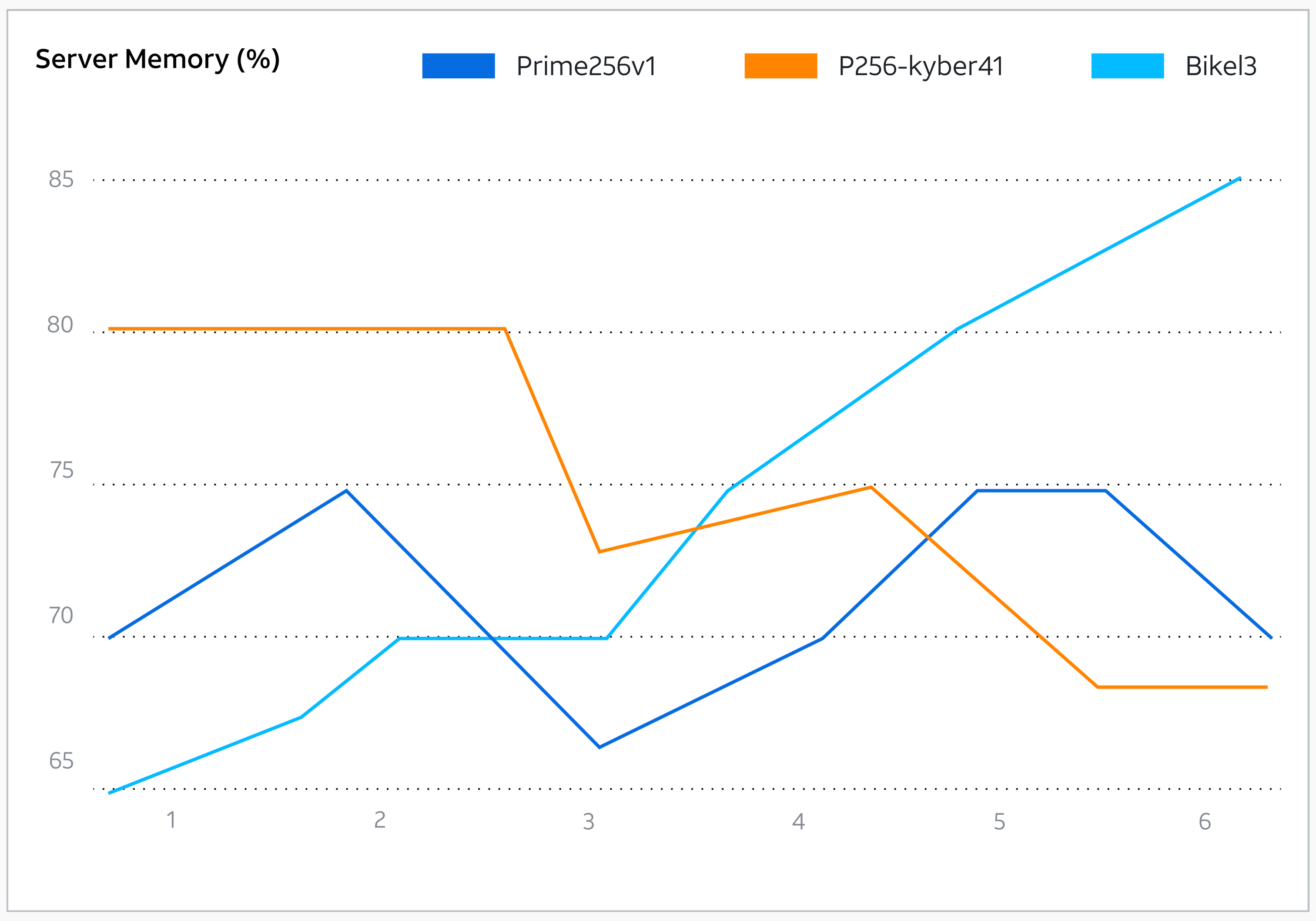
Select columns Filters

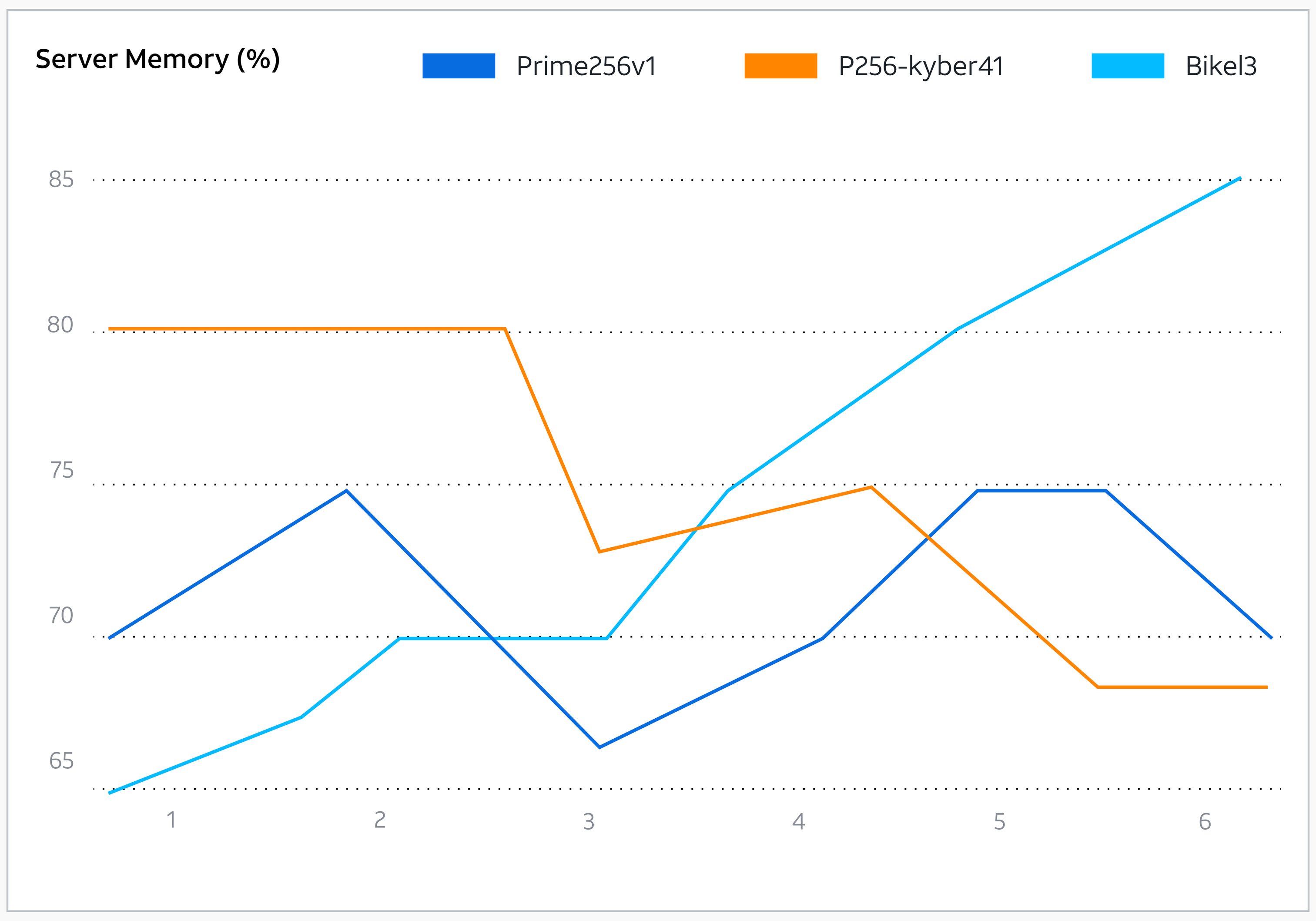
Algorithm	Iterations ↓	Message size (KB) ↓	Average CPU	Average Memory	Error Rate	Throughput (bytes/sec)	Throughput (message/sec)	Average TLS HandshakeTime	
Prime256v1	10000	10	10	10	10	10	10	10	View in Grafana ->
Prime256v1	10000	20	20	20	20	20	20	20	View in Grafana ->
Prime256v1	10000	30	30	30	30	30	30	30	View in Grafana ->
Prime256v1	500000	30	30	30	30	30	30	30	View in Grafana ->
Prime256v1	500000	50	50	50	50	50	50	50	View in Grafana ->
Prime256v1	500000	50	50	50	50	50	50	50	View in Grafana ->
Prime256v1	10000000	30	30	30	30	30	30	30	View in Grafana ->
Prime256v1	10000000	20	20	20	20	20	20	20	View in Grafana ->
Prime256v1	10000000	10	10	10	10	10	10	10	View in Grafana ->
Prime256v1	10000000	10	10	10	10	10	10	10	View in Grafana ->

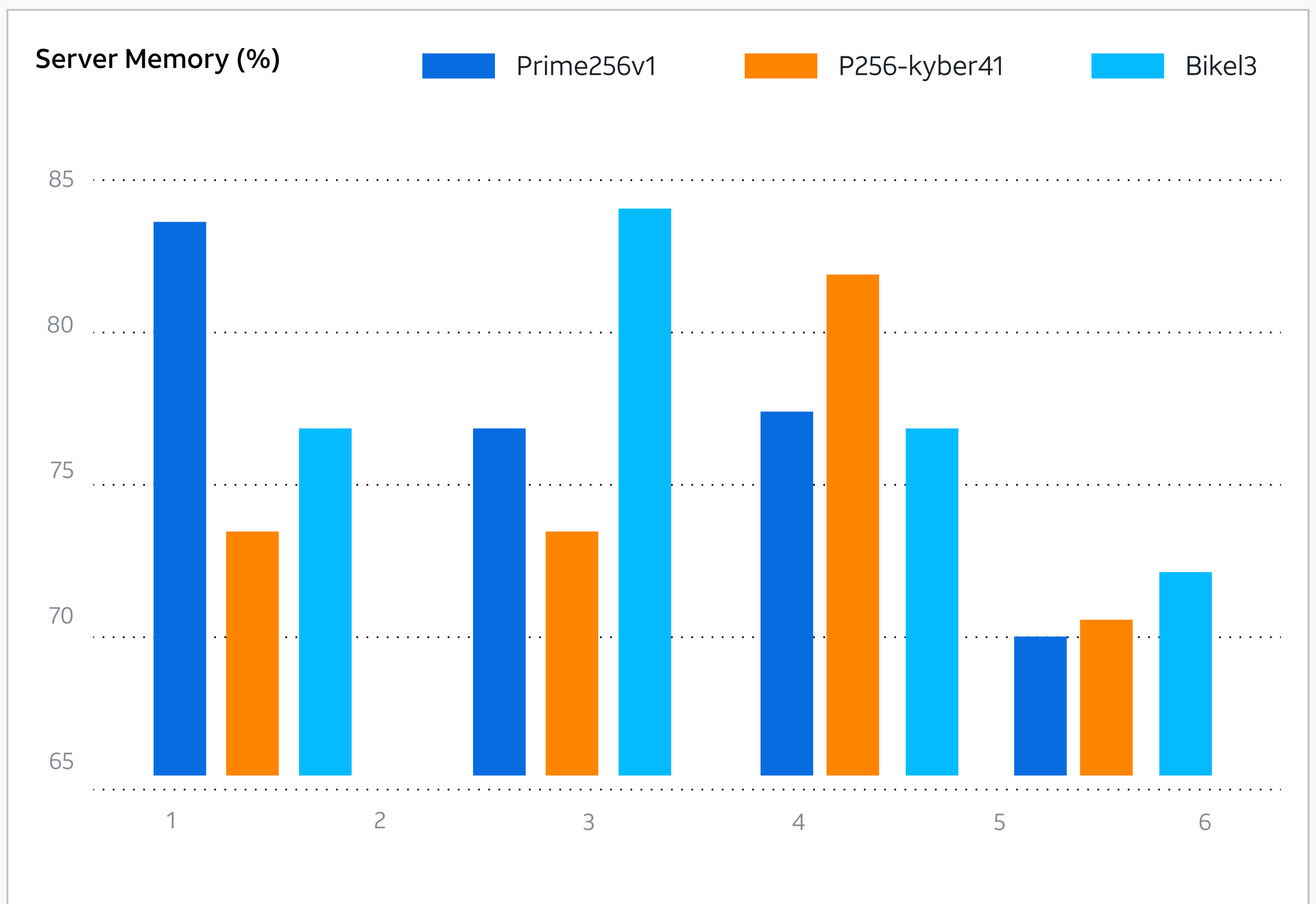
Visualization

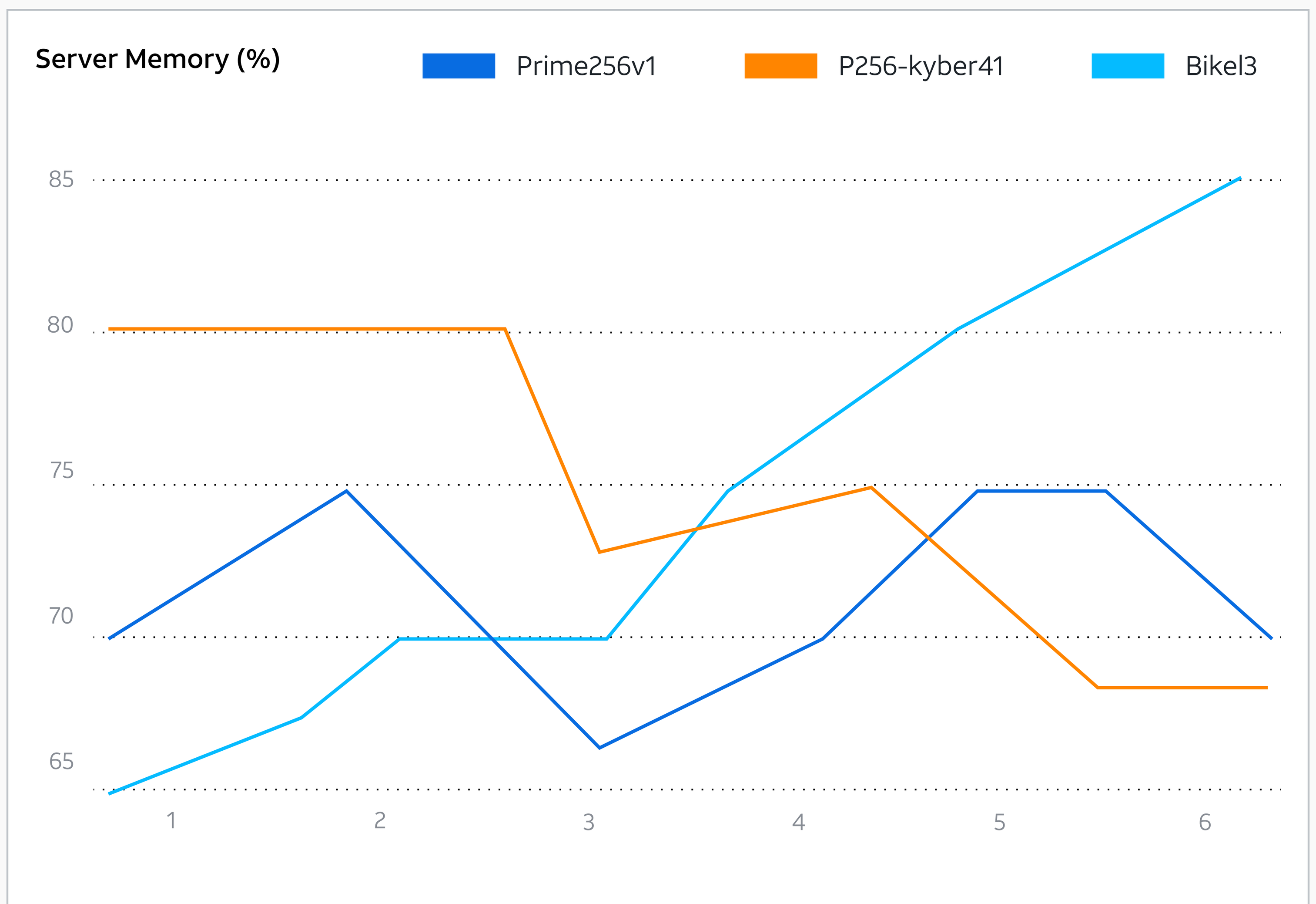












QUJATA   Home   All Experiments

← **Experiment Name**

Algorithm(s)	Interactions	Message Size
ptrye2561, ptrye256, ptrye256, ptrye256	15K, 100K, 250K, 300K	10, 20, 30, 50

This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description This is experiment description

Results Data   Visualization

Algorithm	Iterations ↓	Message size (KB) ↓	Average CPU	Average Memory	Error Rate	Throughput (bytes/sec)	Throughput (r
Prime256v1	10000	10	10	10	10	10	10
Prime256v1	10000	20	20	20	20	20	20
Prime256v1	10000	30	30	30	30	30	30
Prime256v1	500000	30	30	30	30	30	30
Prime256v1	500000	50	50	50	50	50	50
Prime256v1	500000	50	50	50	50	50	50
Prime256v1	10000000	30	30	30	30	30	30
Prime256v1	10000000	20	20	20	20	20	20
Prime256v1	10000000	10	10	10	10	10	10
Prime256v1	10000000	10	10	10	10	10	10

Filter Results

Algorithms

Name

Family

NIST Round

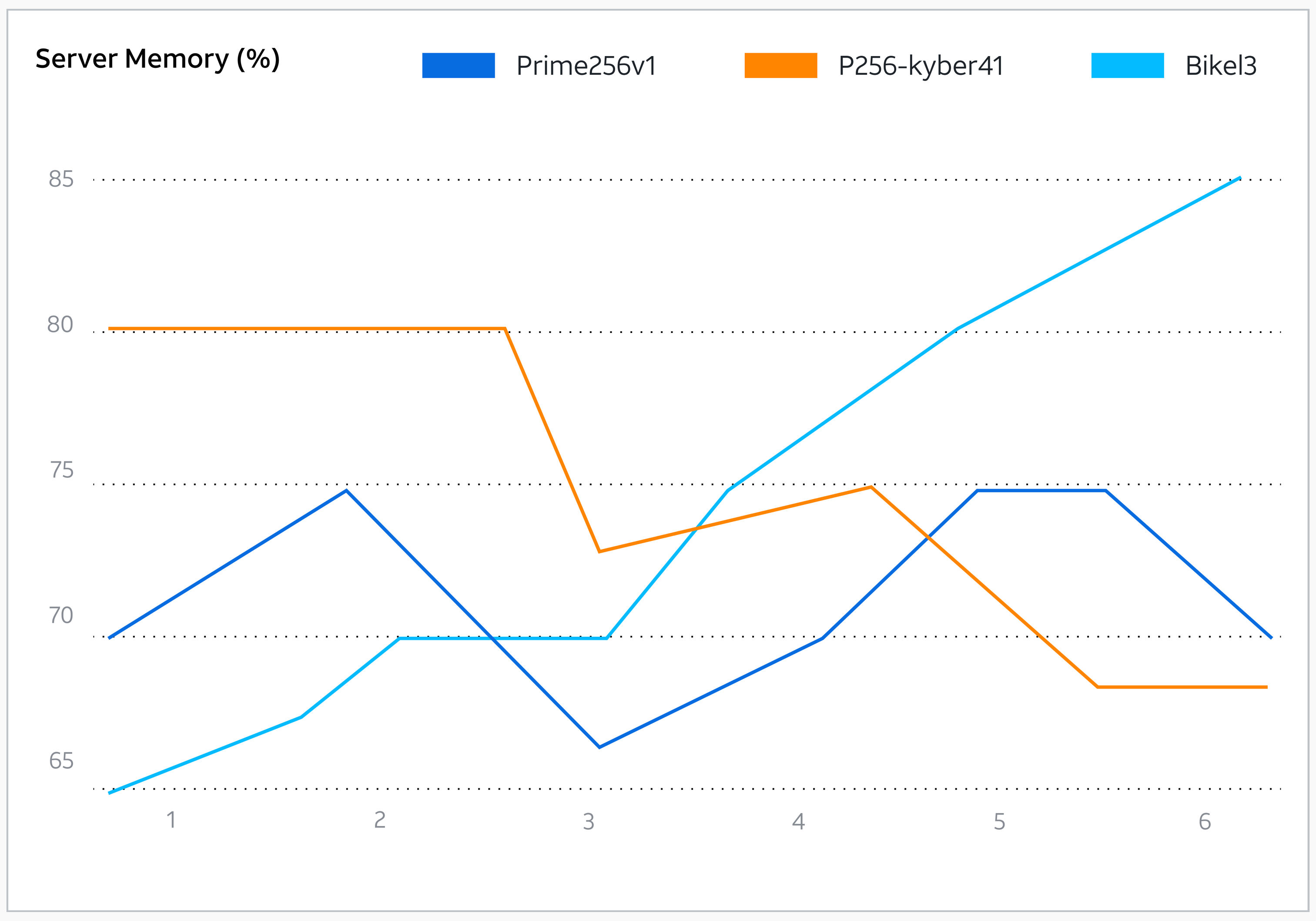
Parameters

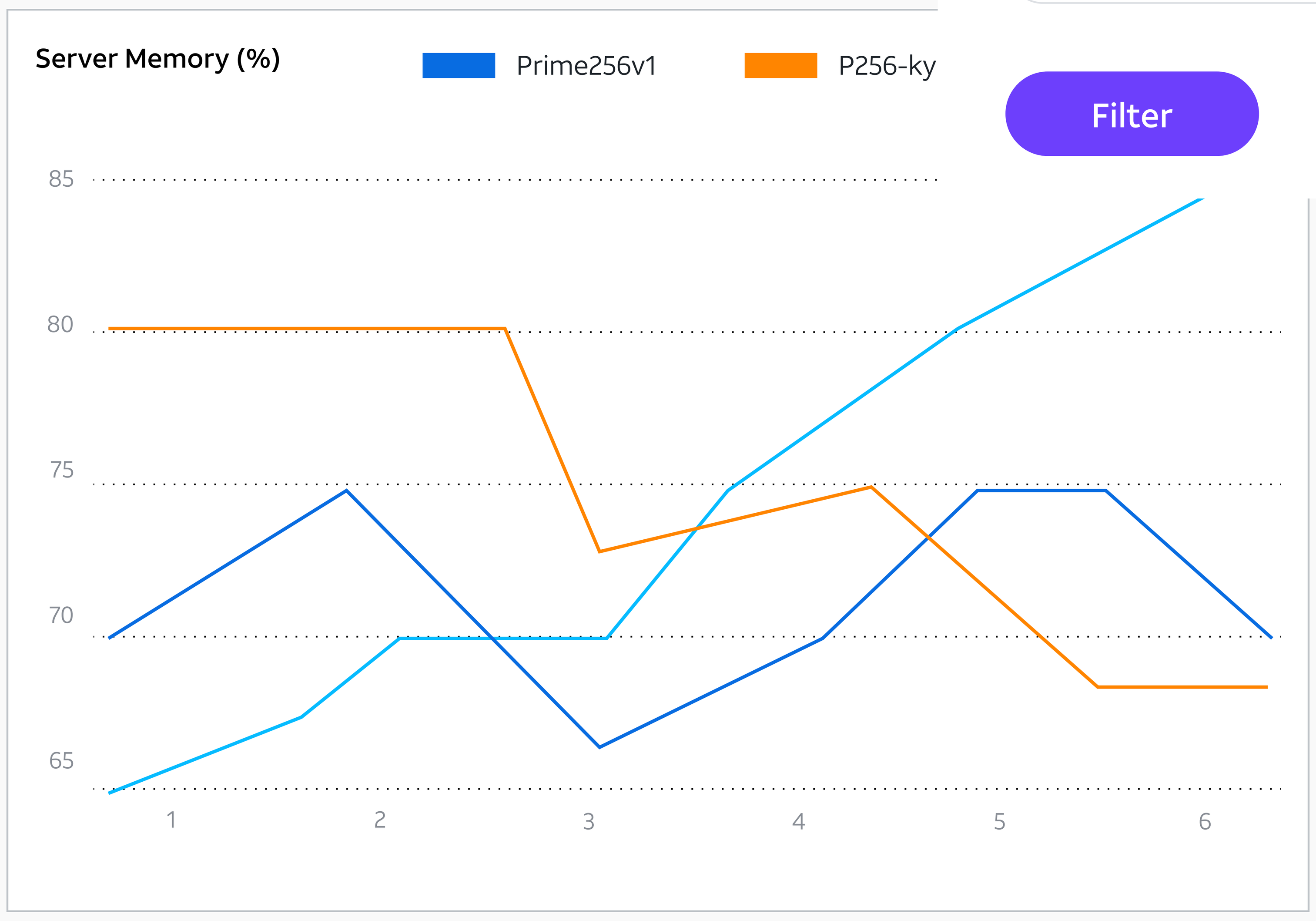
Iterations

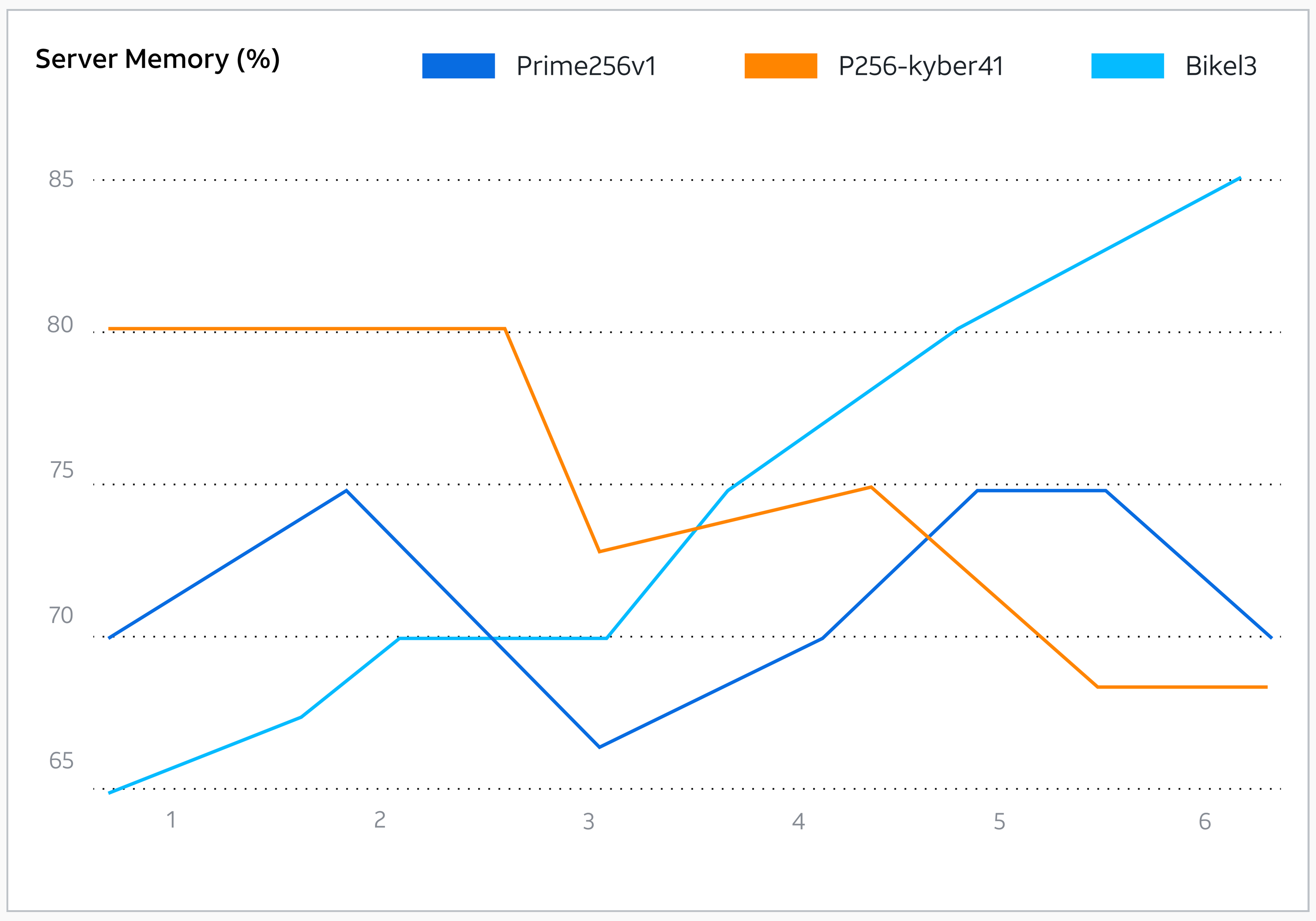
Message size

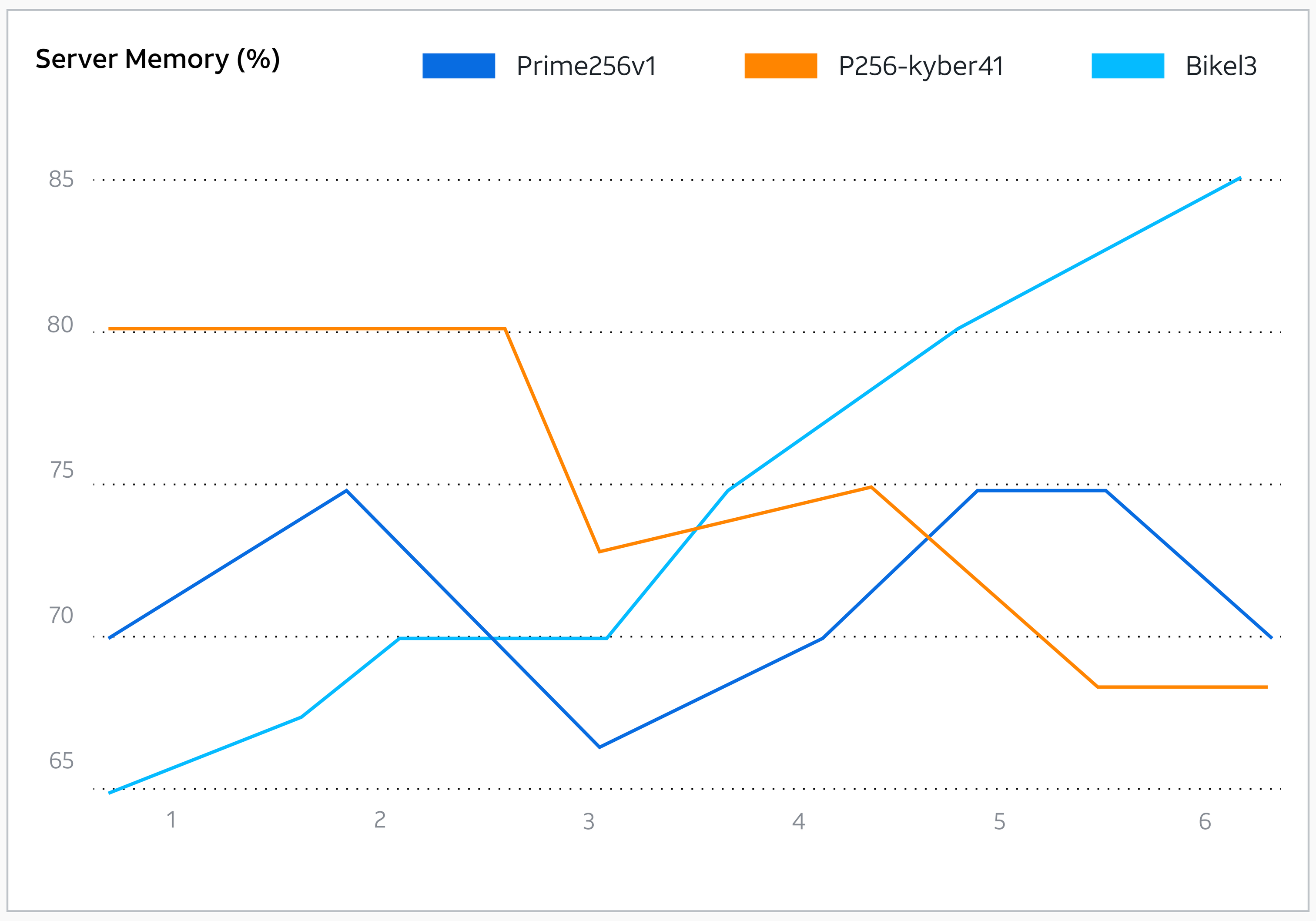
Filter

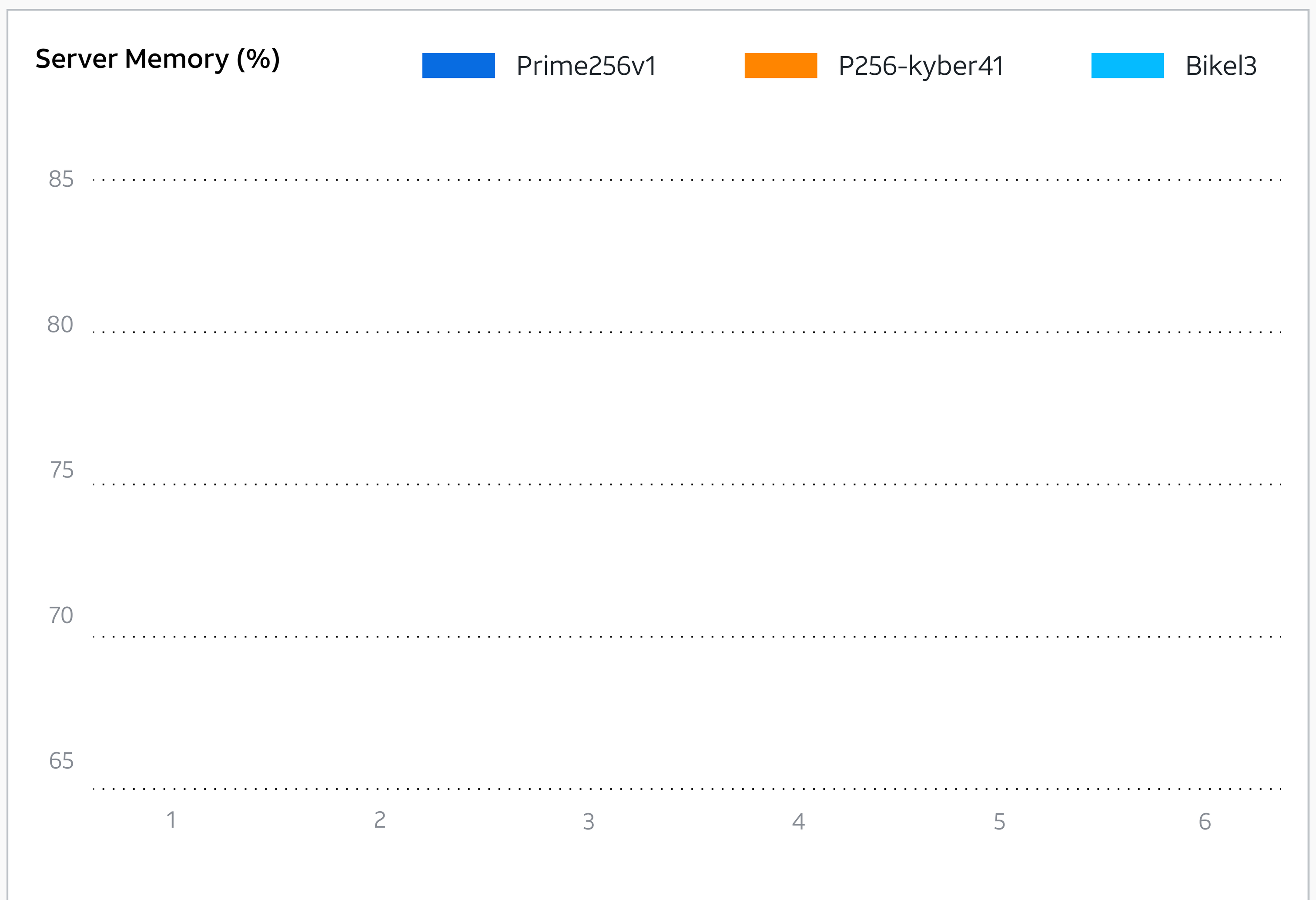
Visualization

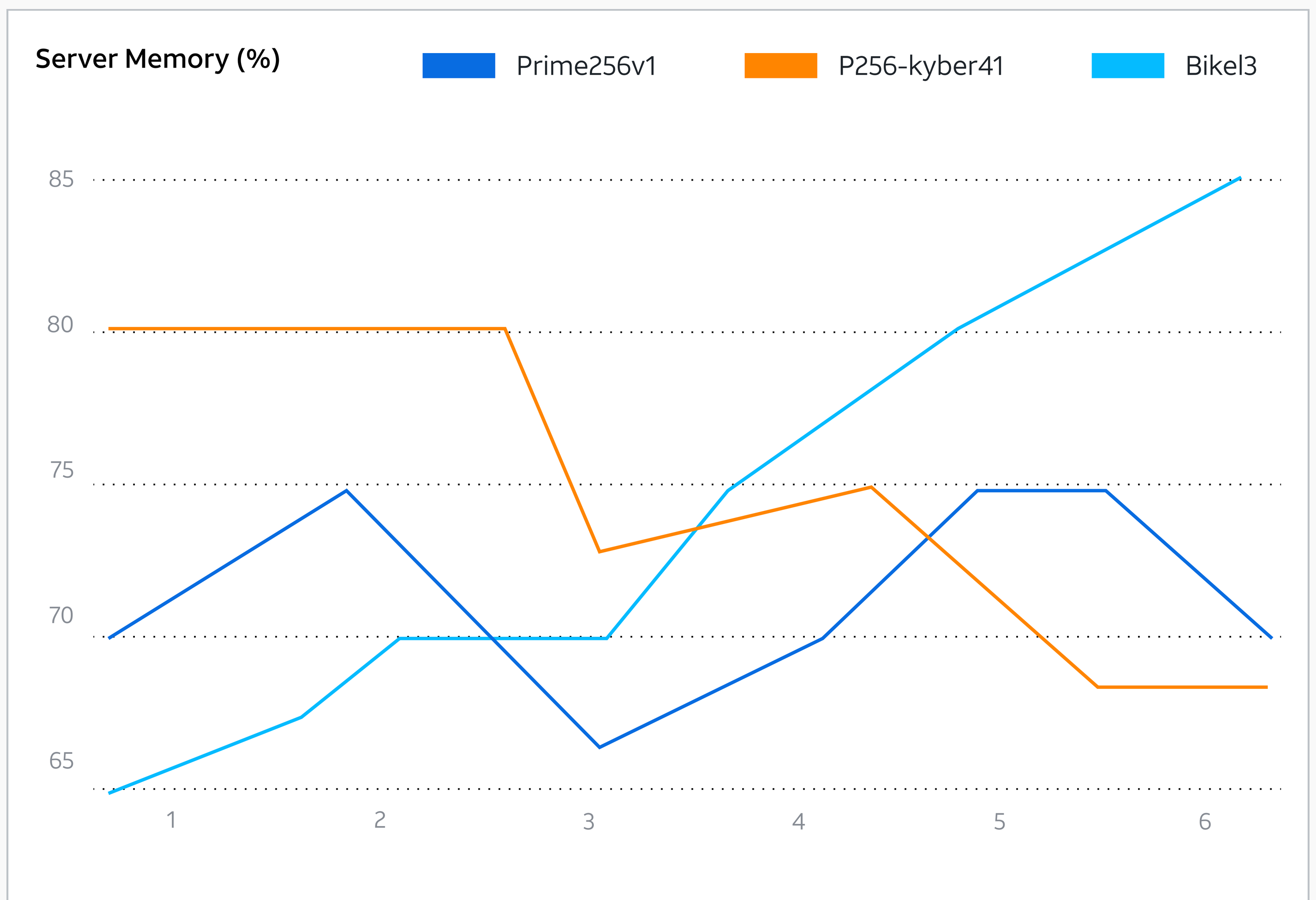












Home All Experiments

Experiment Name

Algorithm(s)
ptrye2561, ptrye256, ptrye256, ptrye256

Interactions
100K, 250K, 300K

Message Size
10, 20, 30, 50

This is experiment description This is experiment description
experiment description

Results Data Visualization

Algorithm	Iterations					
Prime256v1	10000					
Prime256v1	10000					
Prime256v1	10000					
Prime256v1	500000					
Prime256v1	500000	50	50	50	50	50
Prime256v1	500000	50	50	50	50	50
Prime256v1	10000000	30	30	30	30	30
Prime256v1	10000000	20	20	20	20	20
Prime256v1	10000000	10	10	10	10	10
Prime256v1	10000000	10	10	10	10	10

Visualization

Edit Experiment Details

Experiment name *

Name

Description

Save

Filter Results

Algorithms

Name

Family

NIST Round

Parameters

Iterations

Message size

All Experiments (12)

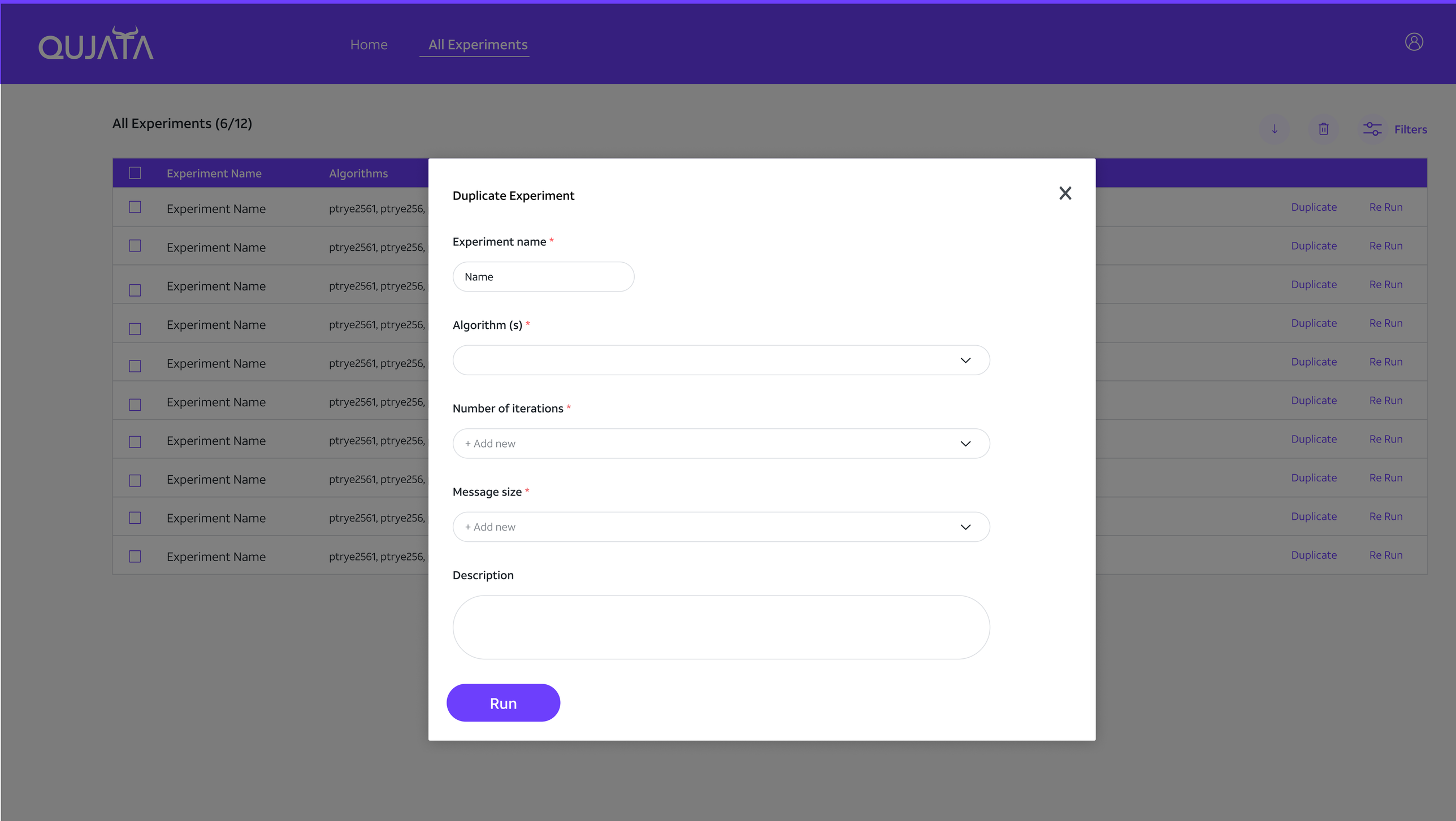
Filters

Experiment Name	Algorithms	Iterations	Message size (KB)	Date		
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10, 100, 250, 300	10, 20, 30, 50	3 hours ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000	20	Yesterday	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000	30	3 days ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	30	6 days ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	50	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	50	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	30	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	20	6 months ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	10	6 months ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	10	6 months ago	Duplicate	Re Run

All Experiments (6/12)

Filters

Experiment Name	Algorithms	Iterations	Message size (KB)	Date		
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10, 100, 250, 300	10, 20, 30, 50	3 hours ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000	20	Yesterday	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000	30	3 days ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	30	6 days ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	50	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	500000	50	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	30	1 month ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	20	6 months ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	10	6 months ago	Duplicate	Re Run
Experiment Name	ptrye2561, ptrye256, ptrye256, ptrye256	10000000	10	6 months ago	Duplicate	Re Run


QUJATA
Home
All Experiments
All Experiments (6/12)
Filters
Experiment Name
Algorithms
Experiment Name
ptrye2561, ptrye256,
Duplicate
Re Run
Duplicate Experiment
Experiment name *
Name
Algorithm (s) *
Number of iterations *
+ Add new
Message size *
+ Add new
Description
Run