1.1 10000 subscriptions and publications, 50% equality operator

Configuration File:

```
"companyPossibleValues": ["C1", "C2", "C3"],
"valueMin": 0.0,
"valueMax": 100.0,
"dropMin": 0.0,
"variationMin": 0.0,
"variationMin": 0.0,
"variationMax": 1.0,
"datePossibleValues": ["2024-04-06", "2024-04-07", "2024-04-08"],

"companyFrequency": 0.7,
"valueFrequency": 0.5,
"dropFrequency": 0.3,
"variationFrequency": 0.2,
"dateFrequency": 0.5,
"companyOperatorFrequency": 0.5,
"valueOperatorFrequency": 0.5,
"variationOperatorFrequency": 0.5,
"variationOperatorFrequency": 0.5,
"dropOperatorFrequency": 0.5,
"variationOperatorFrequency": 0.5,
"humberOfThreads": 24,
"numberOfThreads": 24,
"numberOfSubscriptions": 10000,
"numberOfSubscriptions": 10000
}
```

Results:

The number of successfully delivered notifications: 1871793

Average delivery latency (ms): 3219.173597187296

1.2 10000 subscriptions and 1000 publications,50% equality operator

Configuration File:

```
"companyPossibleValues": ["C1", "C2", "C3"],
"valueMin": 0.0,
"valueMax": 100.0,
"dropMin": 0.0,
"variationMin": 0.0,
"variationMax": 1.0,
"datePossibleValues": ["2024-04-06", "2024-04-07", "2024-04-08"],

"companyFrequency": 0.7,
"valueFrequency": 0.5,
"dropFrequency": 0.3,
"variationFrequency": 0.2,
"dateFrequency": 0.5,
"companyOperatorFrequency": 0.5,
"valueOperatorFrequency": 0.5,
"variationOperatorFrequency": 0.5,
"dropOperatorFrequency": 0.5,
"dateOperatorFrequency": 0.5,
"dateOperatorFrequency": 0.5,
"numberOfThreads": 24,
"numberOfSubscriptions": 10000,
"numberOfSubscriptions": 10000
```

Results:

The number of successfully delivered notifications: 356863 Average delivery latency (ms): 1677.1065506931232

2.1 10000 subscriptions and publications, 100% equality operator

Configuration File:

```
"companyPossibleValues": ["C1", "C2", "C3"],
"valueMin": 0.0,
"valueMax": 100.0,
"dropMax": 50.0,
"variationMin": 0.0,
"variationMax": 1.0,
"datePossibleValues": ["2024-04-06", "2024-04-07", "2024-04-08"],

"companyFrequency": 0.7,
"valueFrequency": 0.5,
"dropFrequency": 0.3,
"variationFrequency": 0.2,
"dateFrequency": 0.5,

"companyOperatorFrequency": 1,
"valueOperatorFrequency": 1,
"variationOperatorFrequency": 1,
"variationOperatorFrequency": 1,
"variationOperatorFrequency": 1,
"variationOperatorFrequency": 1,
"variationOperatorFrequency": 1,
"numberOfThreads": 24,
"numberOfTbreads": 24,
"numberOfSubscriptions": 10000,
"numberOfSubscriptions": 10000
```

Results:

The number of successfully delivered notifications: 1344830 Average delivery latency (ms): 2239.7234624450675

3.1 10000 subscriptions and publications, 25% equality operator

```
"companyPossibleValues": ["C1", "C2", "C3"],
"valueMin": 0.0,
"dropMin": 0.0,
"dropMin": 0.0,
"dropMax": 50.0,
"variationMin": 0.0,
"variationMax": 1.0,
"datePossibleValues": ["2024-04-06", "2024-04-07", "2024-04-08"],

"companyFrequency": 0.7,
"valueFrequency": 0.5,
"dropFrequency": 0.3,
"variationFrequency": 0.2,
"dateFrequency": 0.5,
"companyOperatorFrequency": 0.25,
"valueOperatorFrequency": 0.25,
"variationOperatorFrequency": 0.25,
"dateOperatorFrequency": 0.25,
"dateOperatorFrequency": 0.25,
"dateOperatorFrequency": 0.25,
"numberOfThreads": 24,
"numberOfSubscriptions": 10000,
"numberOfSubscriptions": 10000
}
```

Results:

The number of successfully delivered notifications: 1915542 Average delivery latency (ms): 3560.3027863654256