

Distribution of 1k values over 3 nodes

Map Statistic Data Table (In-Memory Format: BINARY)

Member	Entries	Gets	Puts	Removals	Entry Memo...	Backups	Backup Me...
10.254.20.2:5701	360	0	0	0	47.42 kB	330	43.47 kB
10.254.20.3:5701	310	0	0	0	40.83 kB	330	43.47 kB
10.254.20.4:5701	330	0	0	0	43.47 kB	340	44.78 kB
TOTAL	1000	0	0	0	131.73 kB	1000	131.73 kB

Killed one node

```
olekthunder@mellon miniature-adventure/misc/lab3 [master] → docker-compose stop hz2
Stopping lab3_hz2_1 ... done
olekthunder@mellon miniature-adventure/misc/lab3 [master] →
```

Distribution after one node is ded - no data loss.

Map Statistic Data Table (In-Memory Format: BINARY)

Member	Entries	Gets	Puts	Removals	Entry Memo...	Backups	Backup Me...
10.254.20.3:5701	475	0	0	0	62.57 kB	525	69.16 kB
10.254.20.4:5701	525	0	0	0	69.16 kB	475	62.57 kB
TOTAL	1000	0	0	0	131.73 kB	1000	131.73 kB

Pessimistic incr 3x25

```
connected:
Starting pessimistic!
Starting pessimistic!
Starting pessimistic!
Connected 0
Connected 2
Connected 1
2: Got the map!
1: Got the map!
1: Setting 1
1: Set 1
0: Got the map!
2: Setting 2
2: Set 2
```

```
1: Setting 69
1: Set 69
0: Setting 70
0: Set 70
2: Setting 71
2: Set 71
1: Setting 72
1: Set 72
0: Setting 73
0: Set 73
2: Setting 74
2: Set 74
0: Setting 75
0: Set 75
```

Without lock

```
Starting nlock!
Starting nlock!
Starting nlock!
Connected 0
Connected 1
0: Got the map!
1: Got the map!
Connected 2
1: Setting 1
2: Got the map!
0: Setting 1
1: Set 1
0: Set 1
2: Setting 2
2: Set 2
2: Setting 3
```

```
0: Set 26  
2: Set 26  
1: Set 26  
2: Setting 27  
0: Setting 27  
1: Setting 27  
2: Set 27  
1: Set 27  
0: Set 27
```

Optimistic lock

```
Starting optimistic!
Starting optimistic!
Starting optimistic!
Connected 0
Connected 2
Connected 1
2: Got the map!
0: Got the map!
1: Got the map!
1: Trying to replace 0 with 1
0: Trying to replace 0 with 1
2: Trying to replace 0 with 1
0: Tried to replace 0 with 1, result: false
2: Tried to replace 0 with 1, result: false
1: Tried to replace 0 with 1, result: true
1: Trying to replace 1 with 2
1: Tried to replace 1 with 2, result: true
1: Trying to replace 2 with 3
1: Tried to replace 2 with 3, result: true
1: Trying to replace 3 with 4
1: Tried to replace 3 with 4, result: true
1: Trying to replace 4 with 5
1: Tried to replace 4 with 5, result: true
1: Trying to replace 5 with 6
1: Tried to replace 5 with 6, result: true
1: Trying to replace 6 with 7
1: Tried to replace 6 with 7, result: true
1: Trying to replace 7 with 8
1: Tried to replace 7 with 8, result: true
1: Trying to replace 8 with 9
1: Tried to replace 8 with 9, result: true
1: Trying to replace 9 with 10
1: Tried to replace 9 with 10, result: true
1: Trying to replace 10 with 11
1: Tried to replace 10 with 11, result: true
```

```
0: Tried to replace 67 with 68, result: true
0: Trying to replace 68 with 69
0: Tried to replace 68 with 69, result: true
0: Trying to replace 69 with 70
0: Tried to replace 69 with 70, result: true
0: Trying to replace 70 with 71
0: Tried to replace 70 with 71, result: true
0: Trying to replace 71 with 72
0: Tried to replace 71 with 72, result: true
0: Trying to replace 72 with 73
0: Tried to replace 72 with 73, result: true
0: Trying to replace 73 with 74
0: Tried to replace 73 with 74, result: true
0: Trying to replace 74 with 75
0: Tried to replace 74 with 75, result: true
```

10 consumers started - notice the second consumer takes values twice, so not round-robin.

```
connecting...
Connected!
Consumer 1 start
Consumer 2 start
Consumer 7 start
Consumer 6 start
Consumer 0 start
Consumer 3 start
Consumer 9 start
Consumer 8 start
Consumer 5 start
Consumer 4 start
2: consumed 0
7: consumed 1
8: consumed 2
3: consumed 3
0: consumed 4
2: consumed 5
9: consumed 6
6: consumed 7
5: consumed 8
1: consumed 9
4: consumed 10
7: consumed 11
```

Disabled consumers

Connecting...

Connected!

Produced 0

Produced 1

Produced 2

Produced 3

Produced 4

Produced 5

Produced 6

Produced 7

Produced 8

Produced 9

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