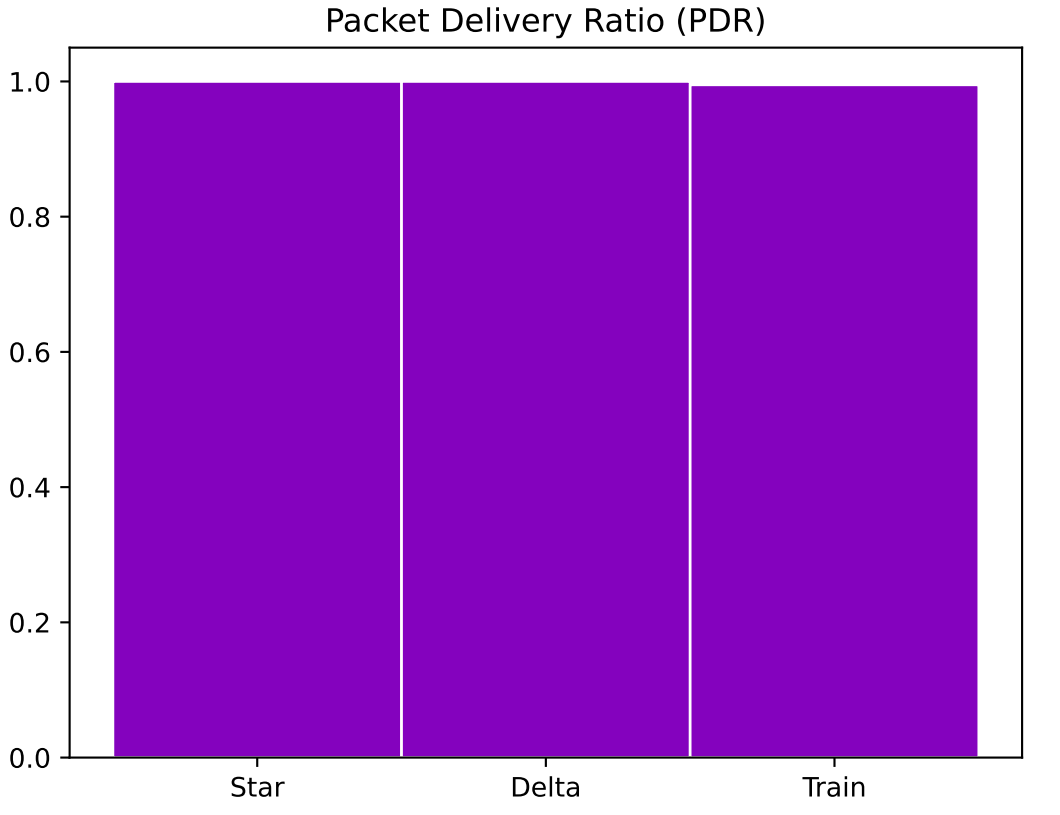
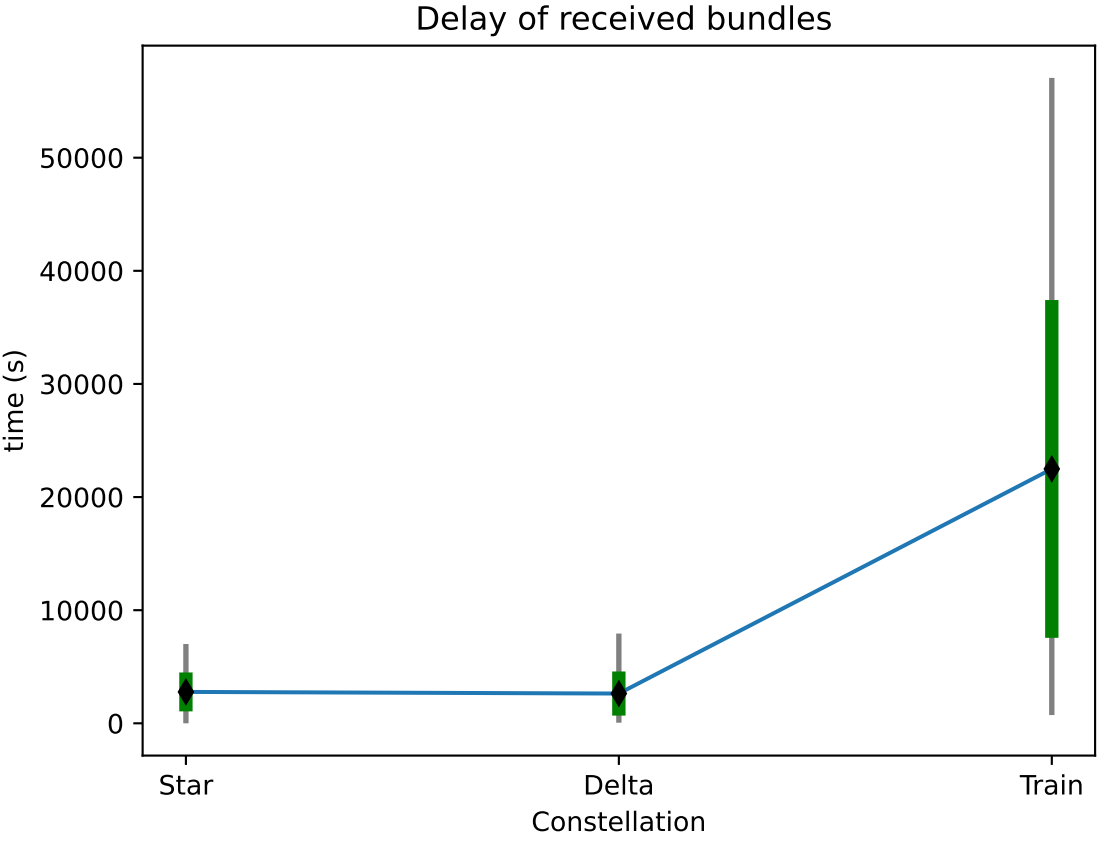
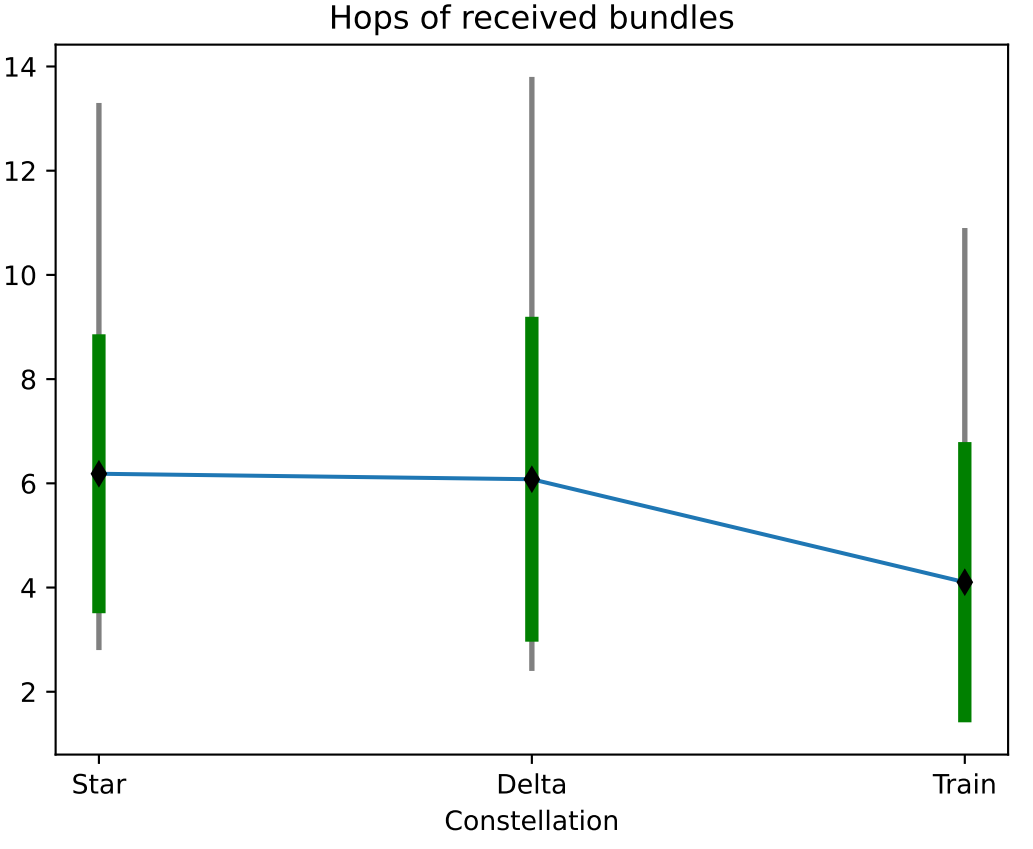
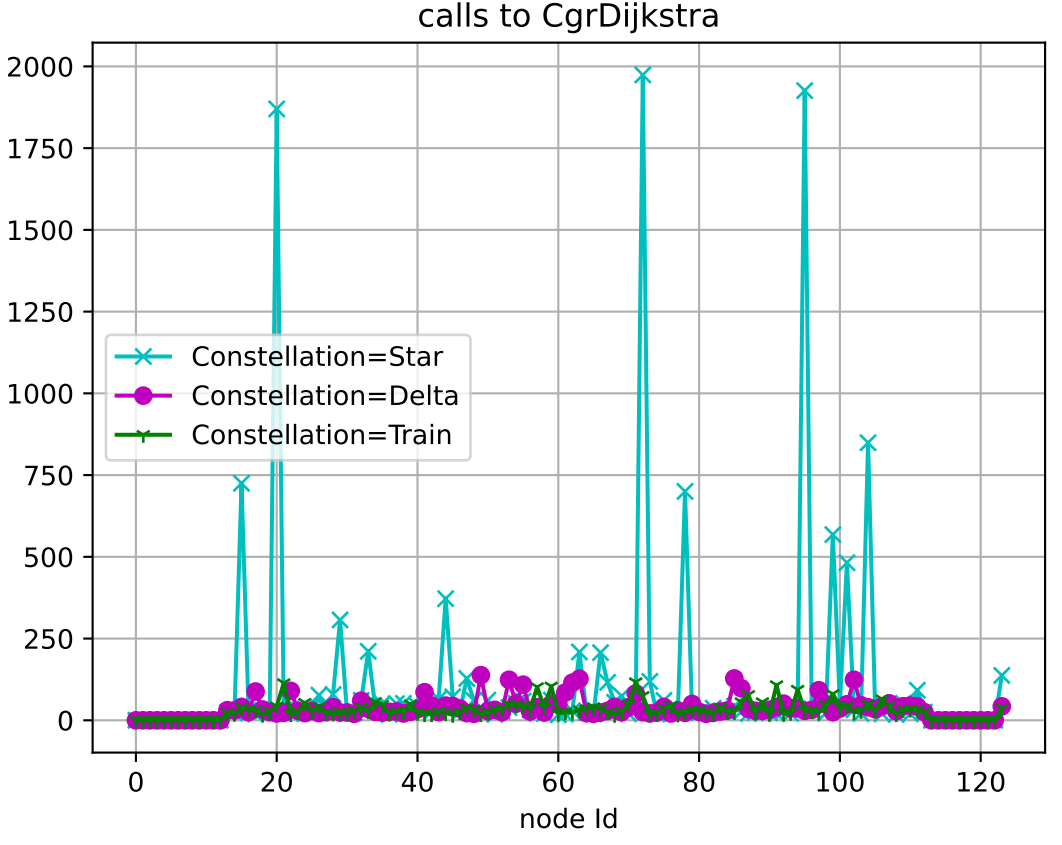
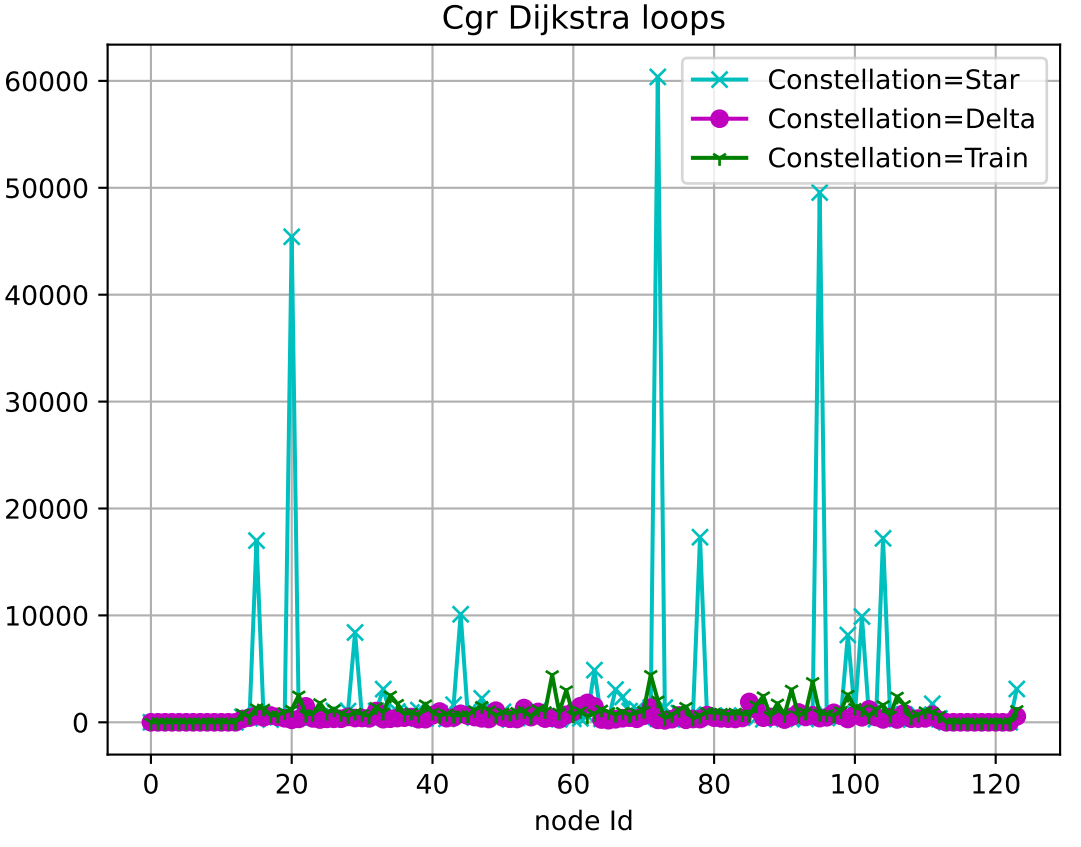
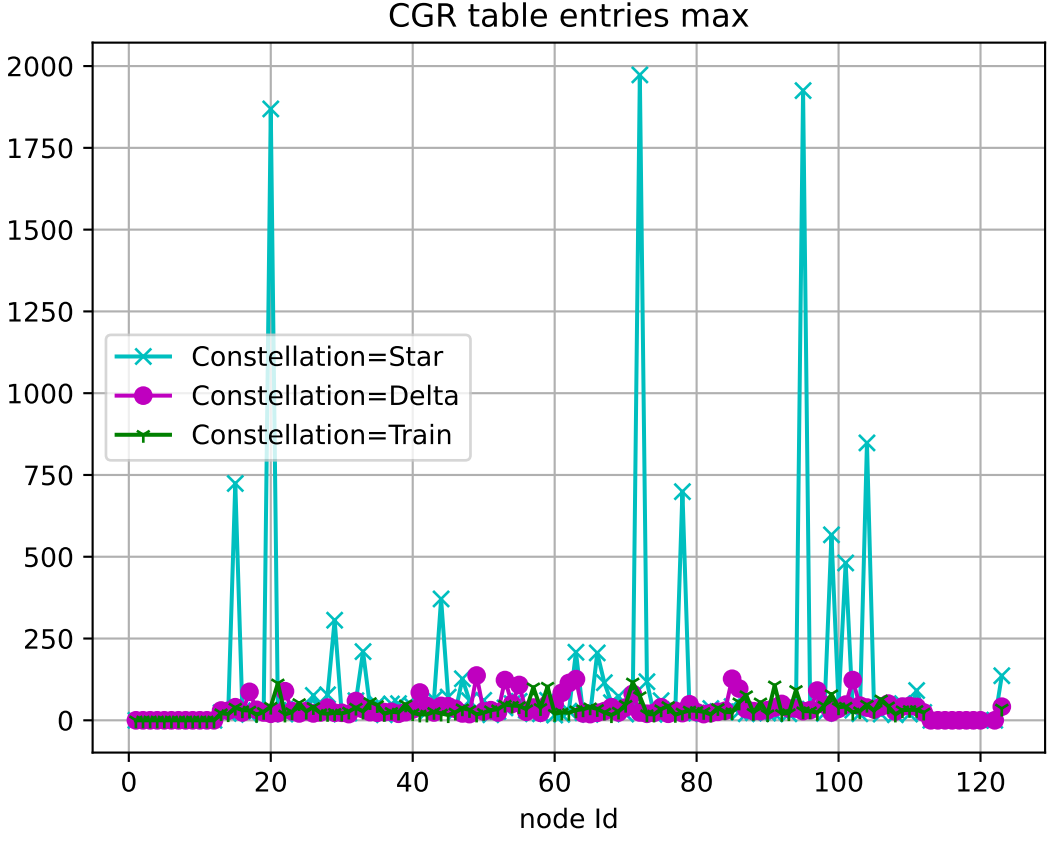

Packet Delivery Ratio (PDR)
1.0
0.8
0.6
0.4
0.2
0.0
Star
Delta
Train

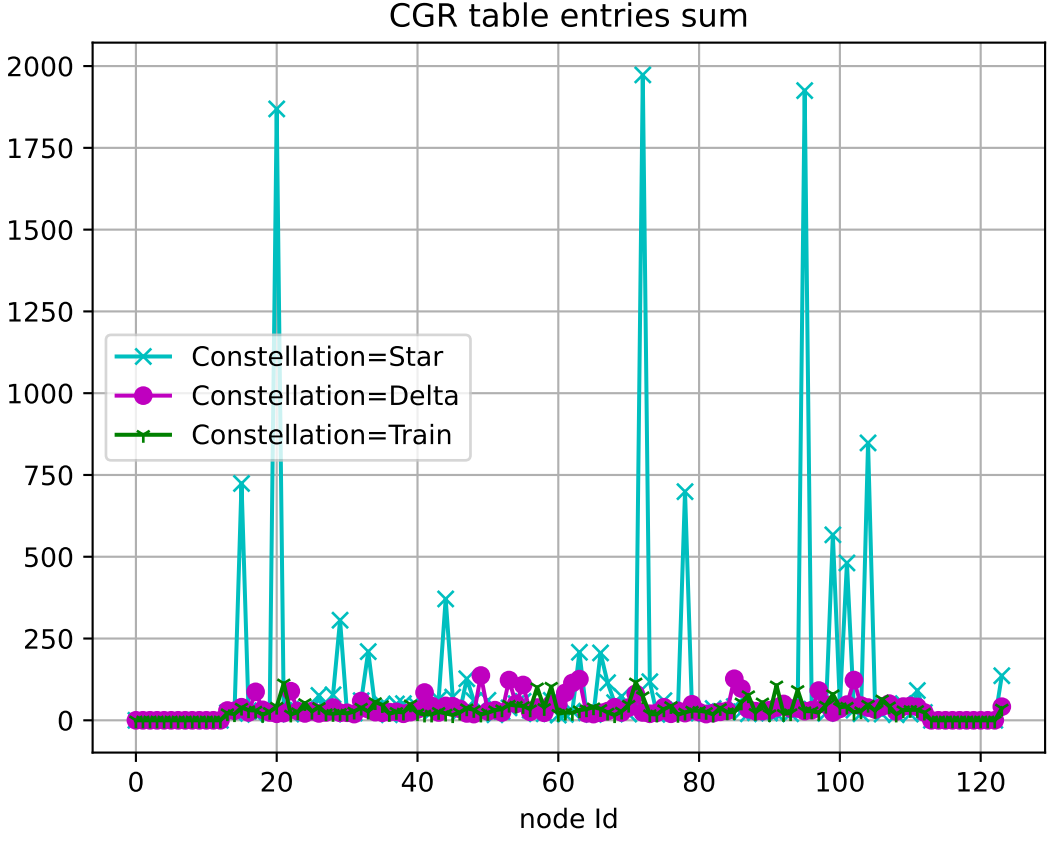

Delay of received bundles
50000
40000
30000
20000
10000
0
time (s)
Star
Delta
Train
Constellation

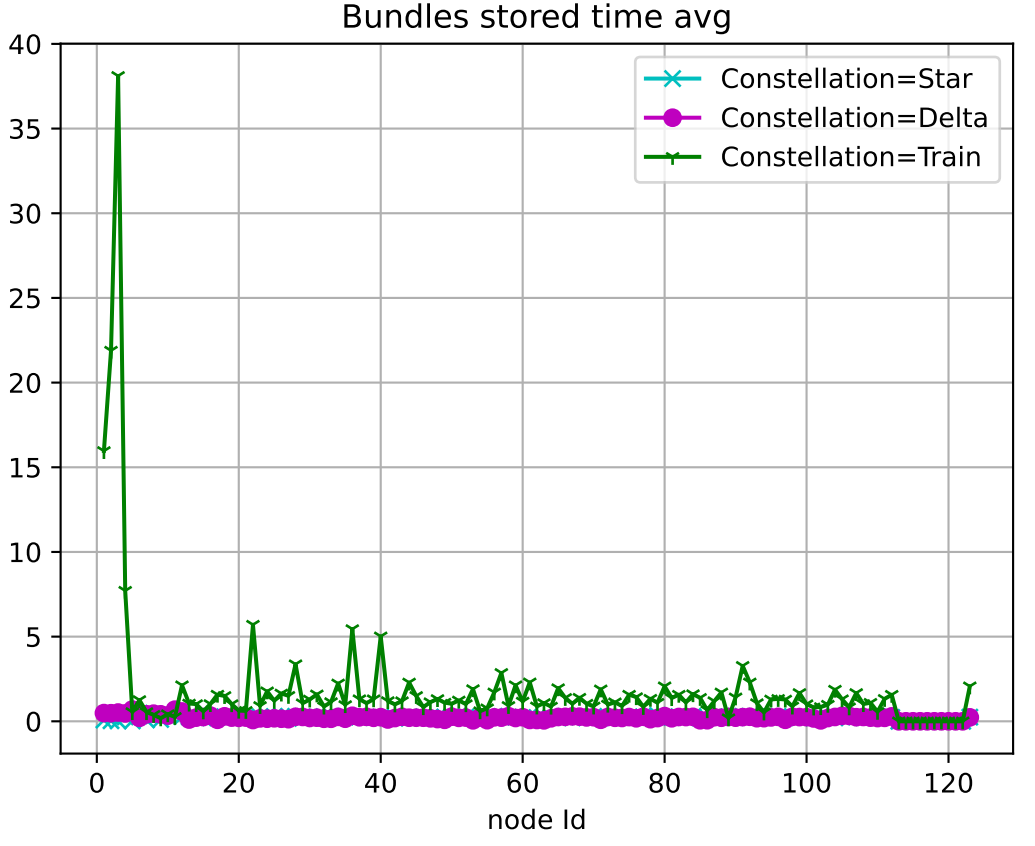

Hops of received bundles
14
12
10
8
6
4
2
Star
Delta
Train
Constellation

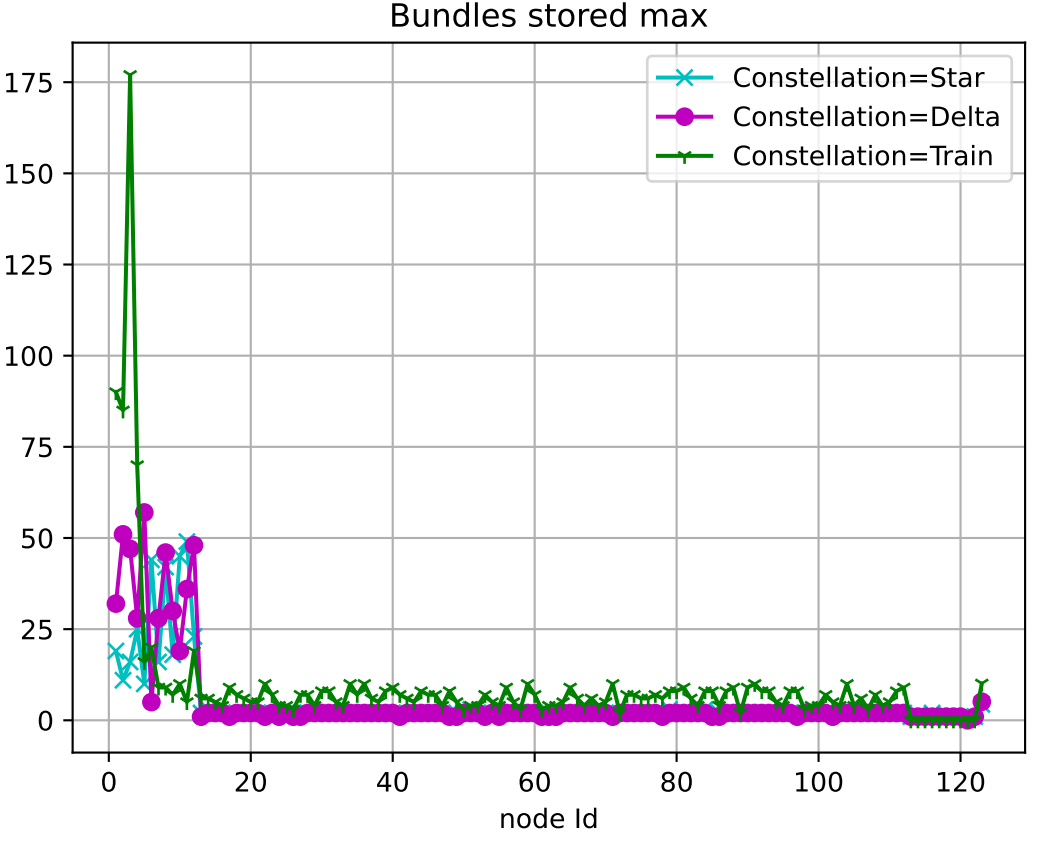

calls to CgrDijkstra
2000
1750
1500
1250
1000
750
500
250
0
0
20
40
60
80
100
120
node Id
Constellation=Star
Constellation=Delta
Constellation=Train

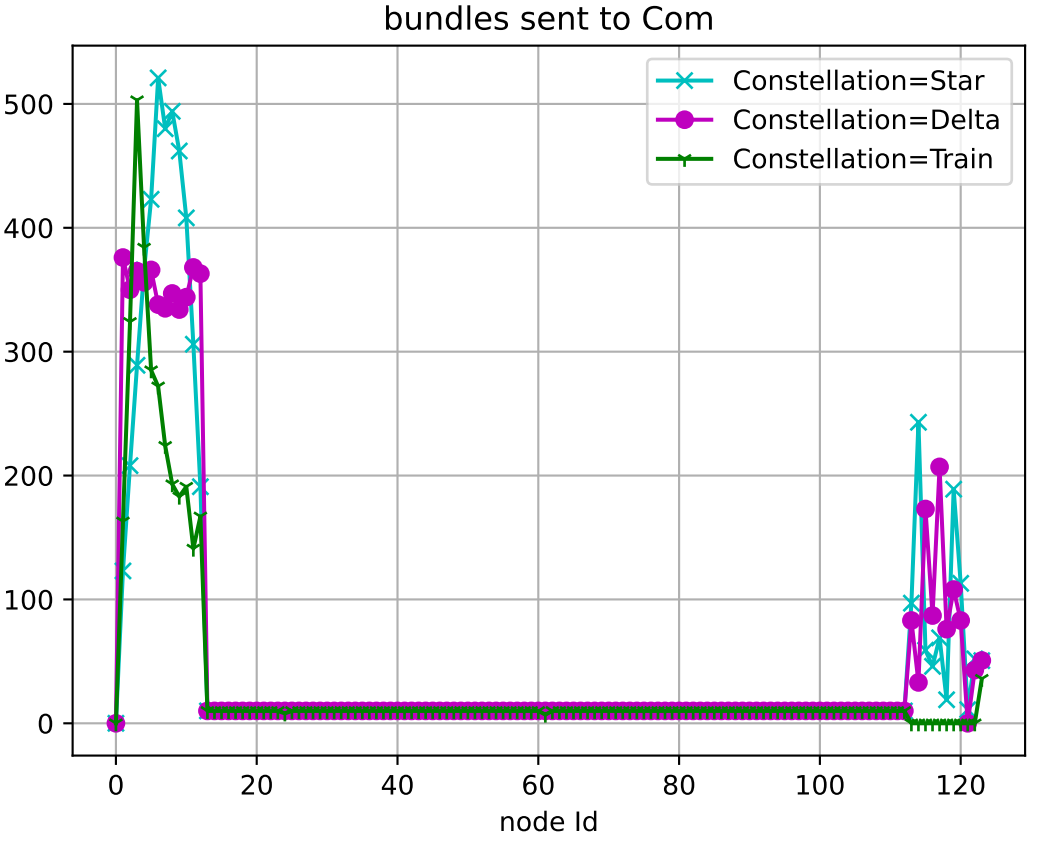

Cgr Dijkstra loops
Constellation=Star
Constellation=Delta
Constellation=Train
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
120
node Id

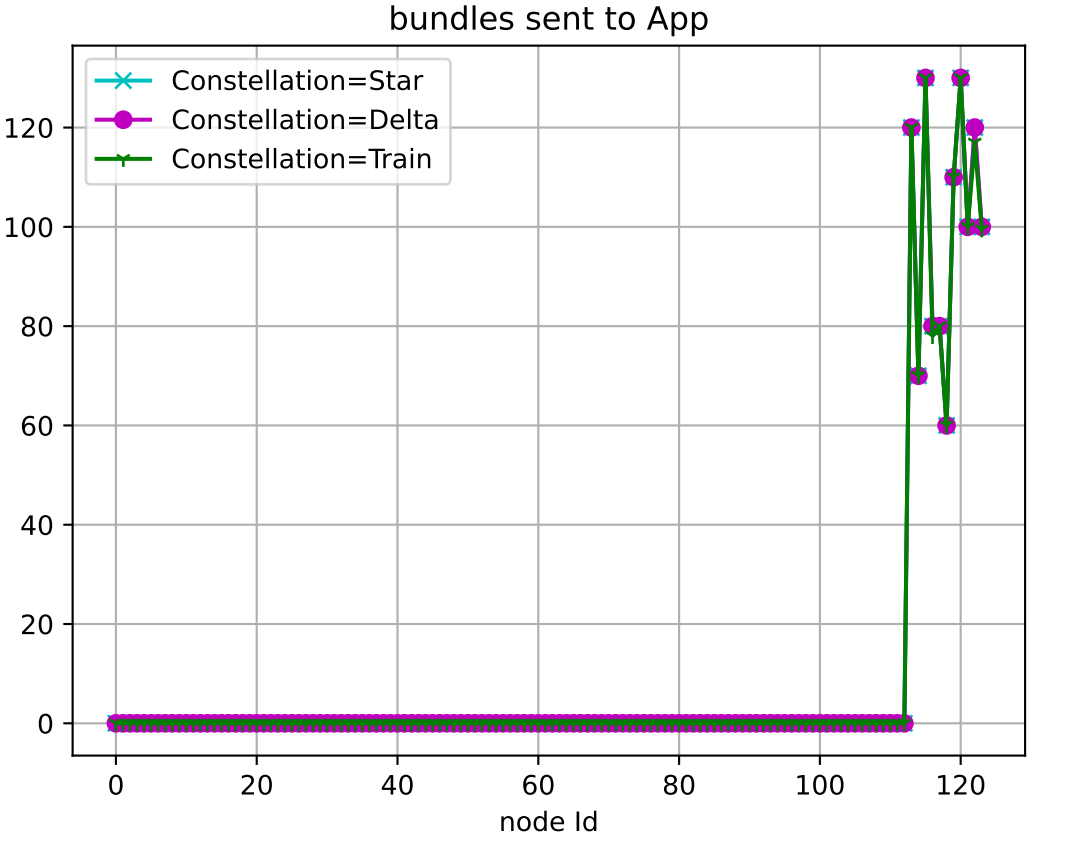

CGR table entries max
2000
1750
1500
1250
1000
750
500
250
0
0
20
40
60
80
100
120
node Id
Constellation=Star
Constellation=Delta
Constellation=Train

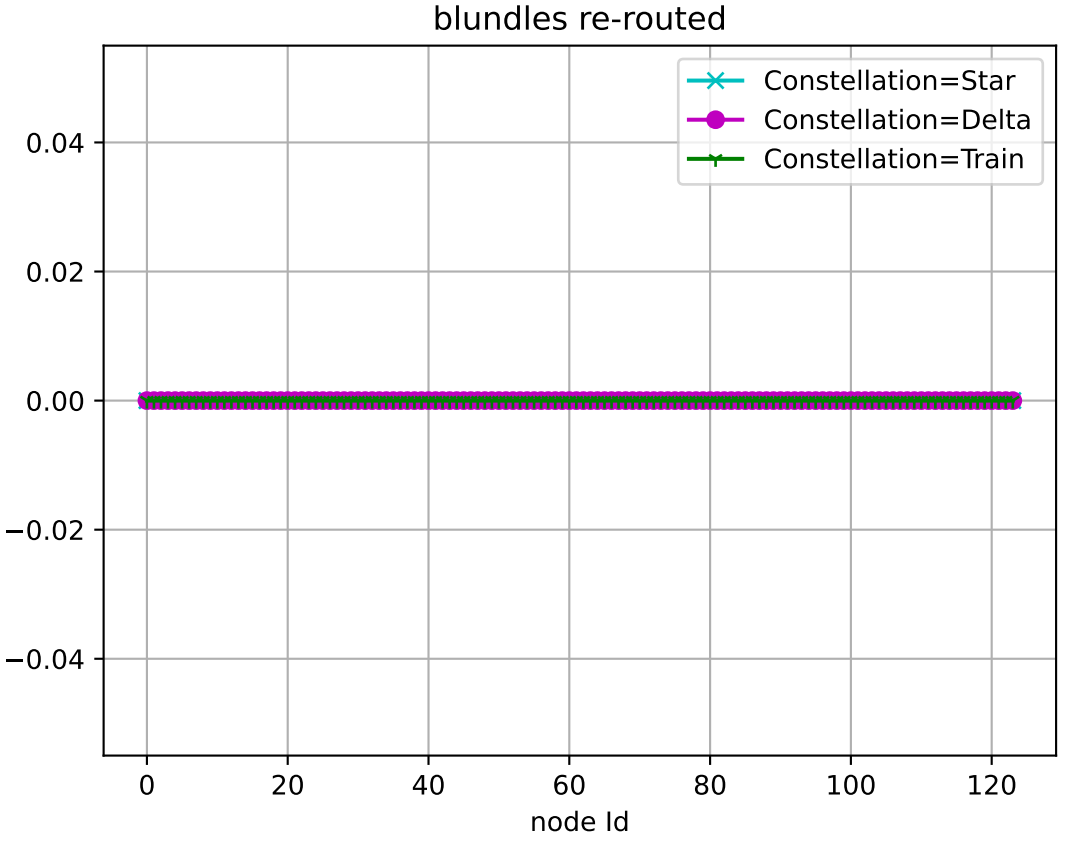

CGR table entries sum
2000
1750
1500
1250
1000
750
500
250
0
0
20
40
60
80
100
120
node Id
Constellation=Star
Constellation=Delta
Constellation=Train

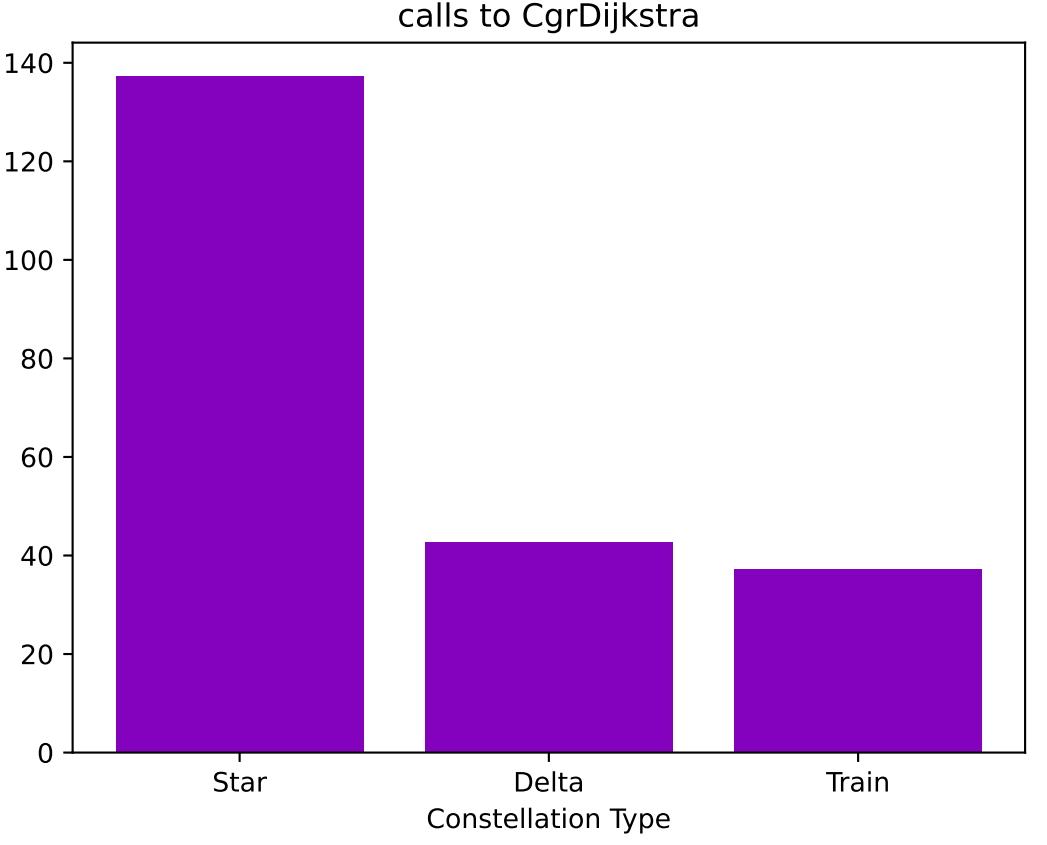

Bundles stored time avg
Constellation=Star
Constellation=Delta
Constellation=Train
40
35
30
25
20
15
10
5
0
0
20
40
60
80
100
120
node Id

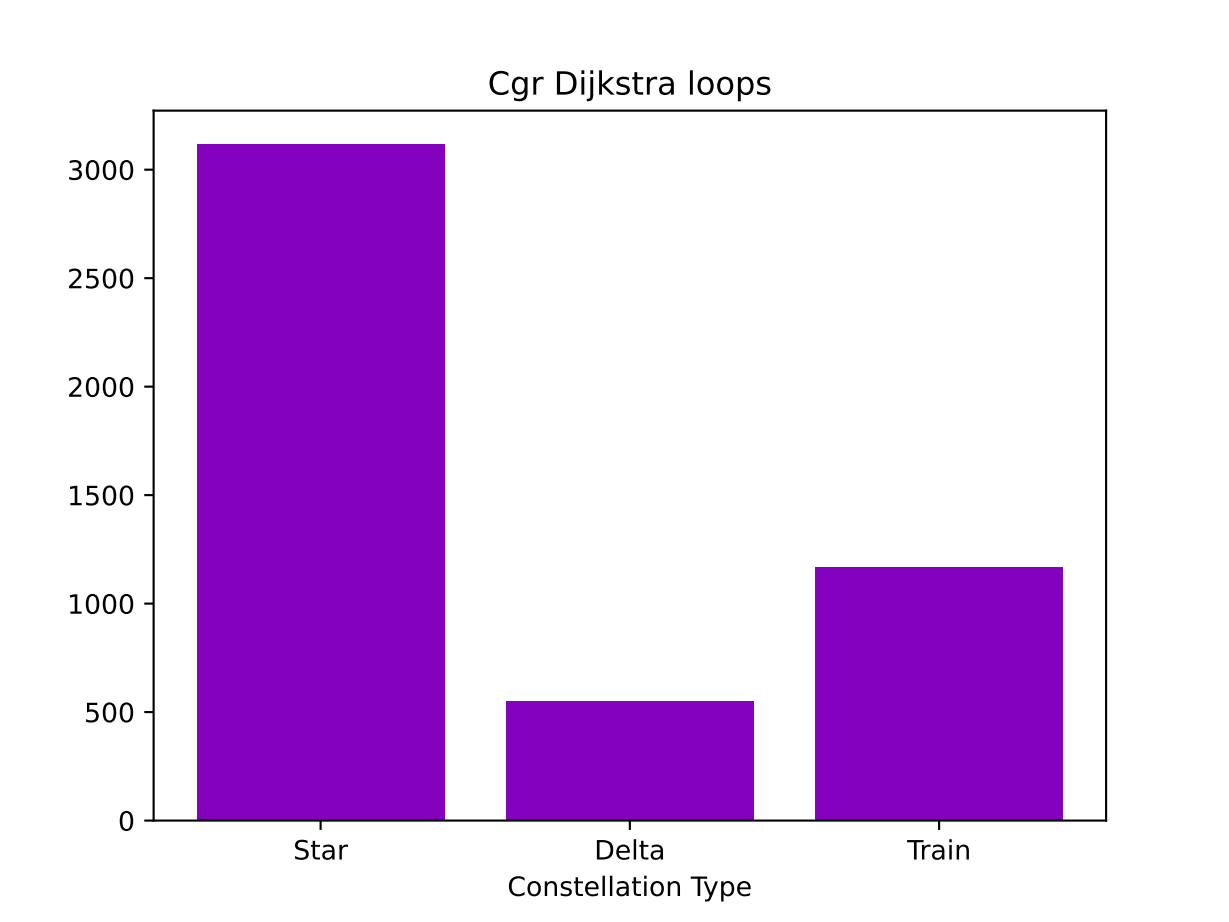

Bundles stored max
Constellation=Star
Constellation=Delta
Constellation=Train
175
150
125
100
75
50
25
0
0
20
40
60
80
100
120
node Id

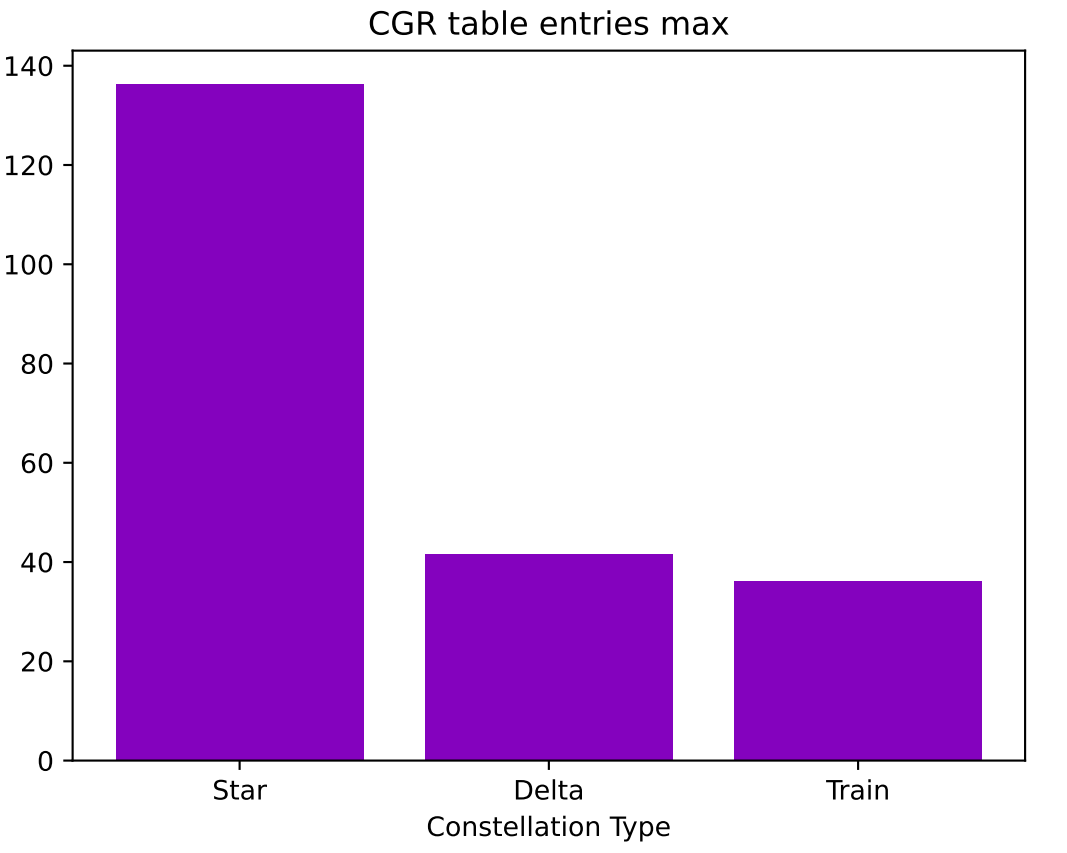

bundles sent to Com
Constellation=Star
Constellation=Delta
Constellation=Train
500
400
300
200
100
0
0
20
40
60
80
100
120
node Id

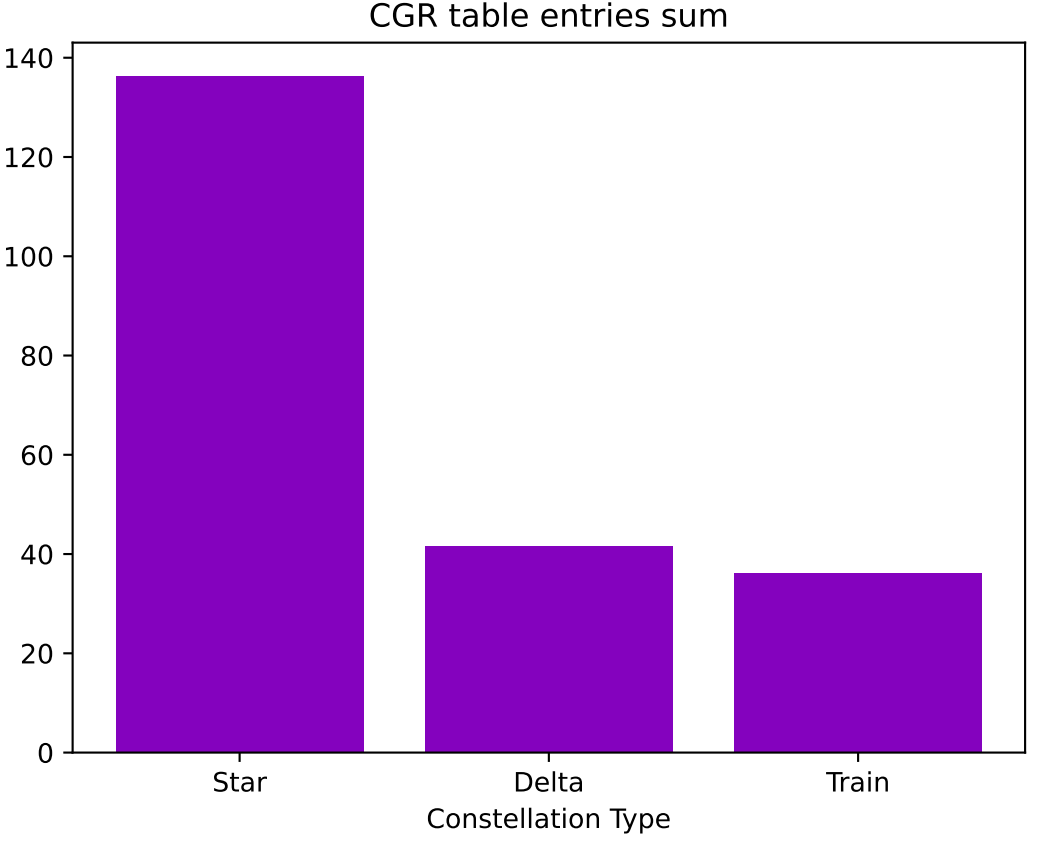

bundles sent to App
Constellation=Star
Constellation=Delta
Constellation=Train
120
100
80
60
40
20
0
0
20
40
60
80
100
120
node Id

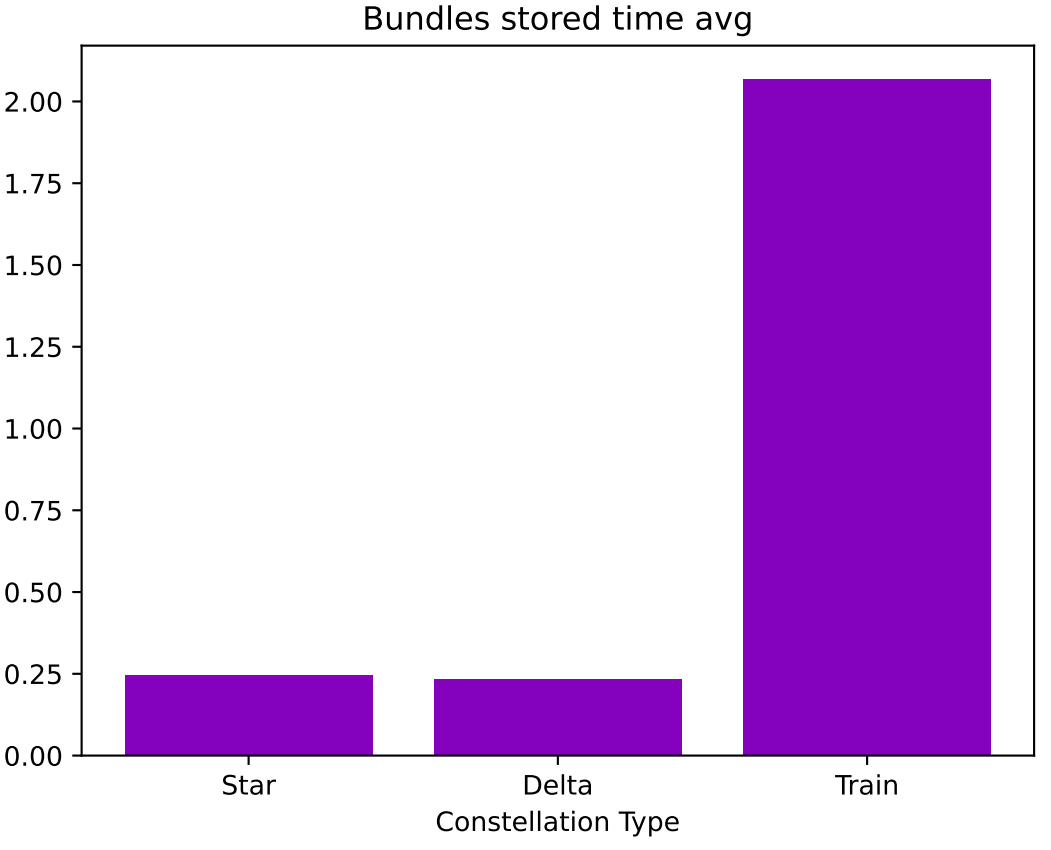

blundles re-routed
Constellation=Star
Constellation=Delta
Constellation=Train
0.04
0.02
0.00
−0.02
−0.04
0
20
40
60
80
100
120
node Id

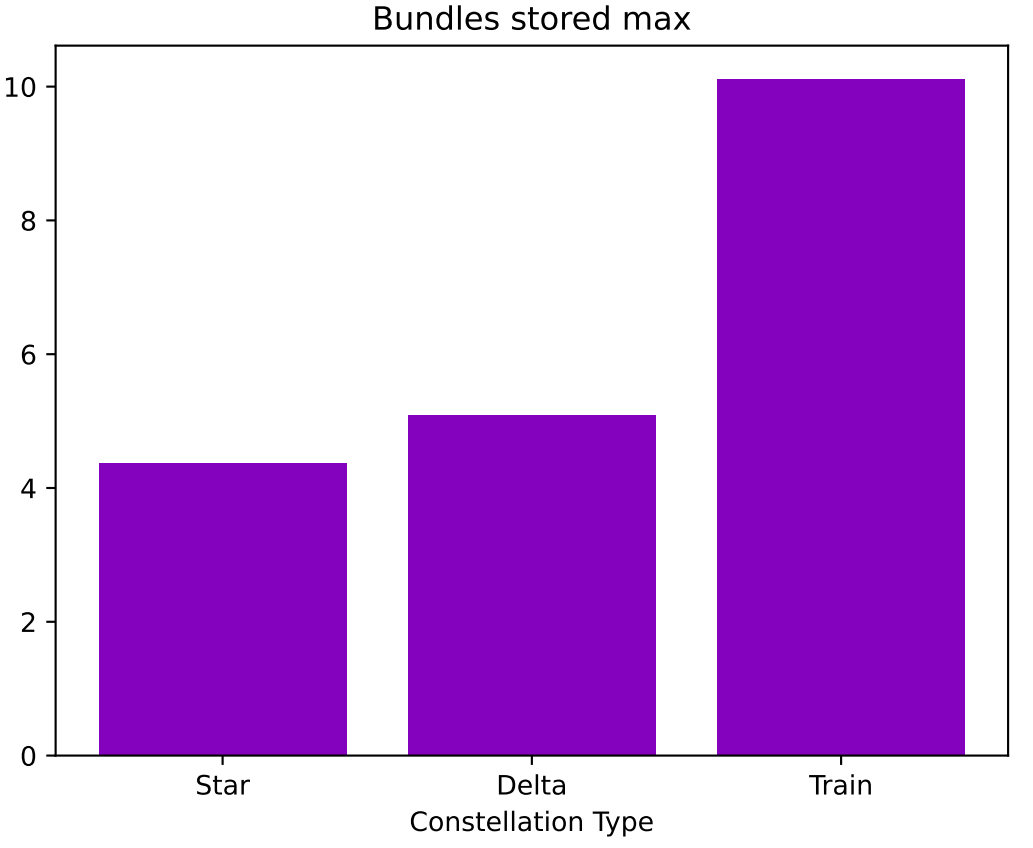

calls to CgrDijkstra
140
120
100
80
60
40
20
0
Star
Delta
Train
Constellation Type

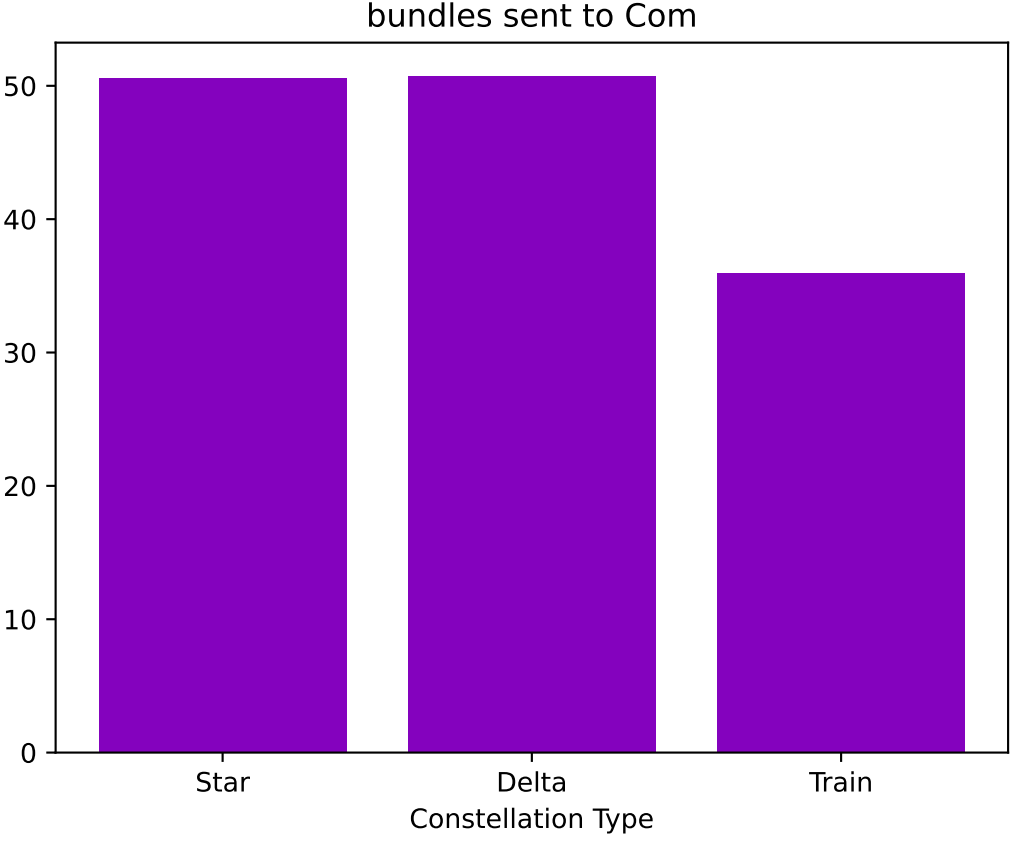

Cgr Dijkstra loops
3000
2500
2000
1500
1000
500
0
Star
Delta
Train
Constellation Type

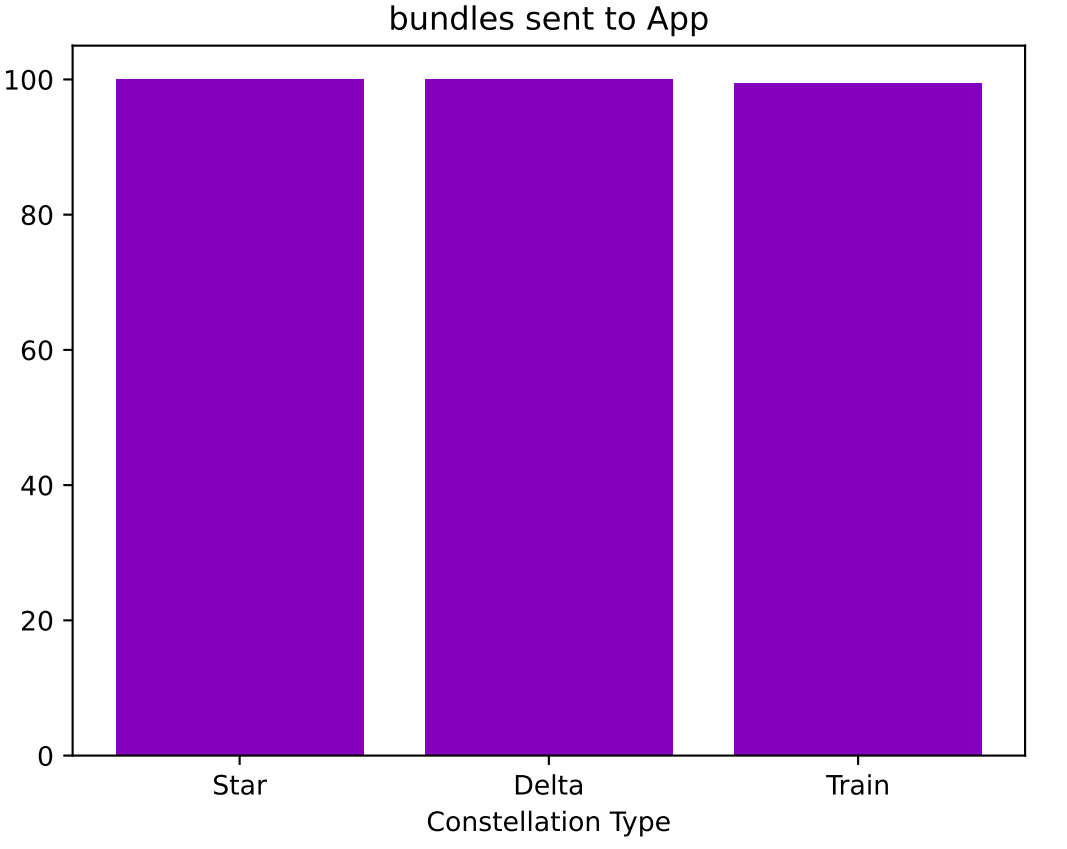

CGR table entries max
140
120
100
80
60
40
20
0
Star
Delta
Train
Constellation Type

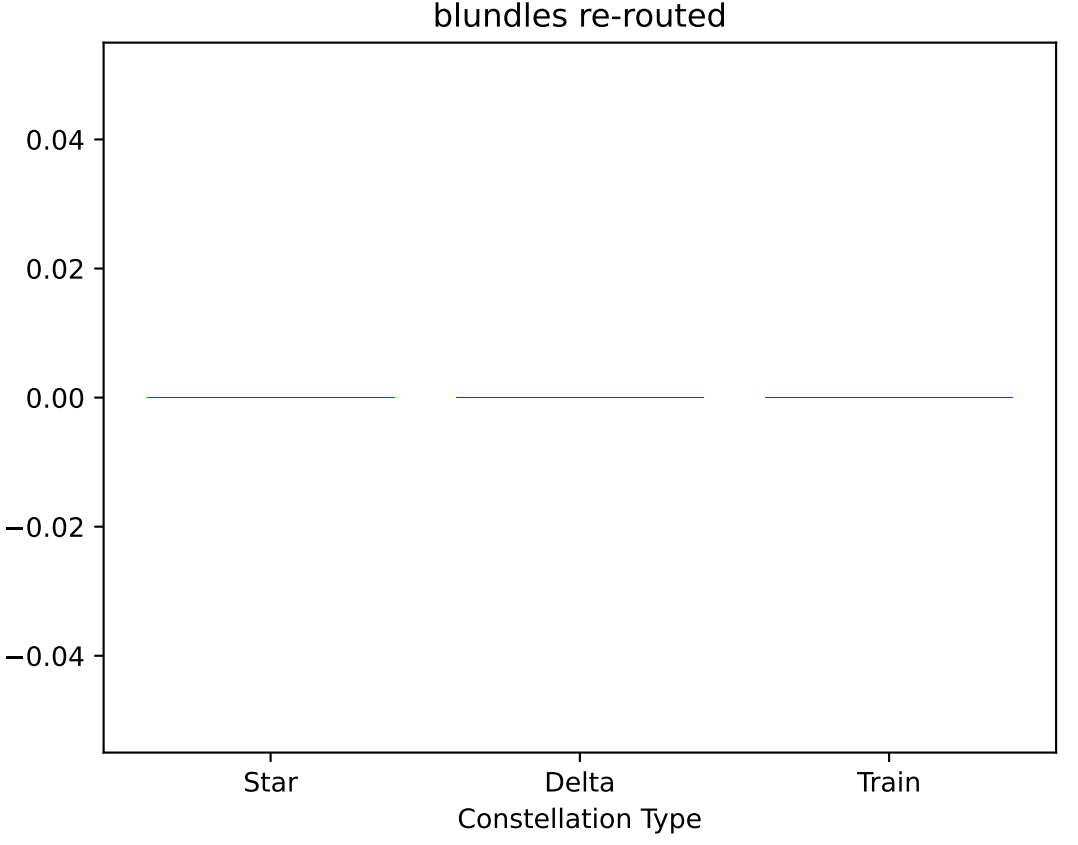

CGR table entries sum
140
120
100
80
60
40
20
0
Star
Delta
Train
Constellation Type


Bundles stored time avg
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Star
Delta
Train
Constellation Type


Bundles stored max
10
8
6
4
2
0
Star
Delta
Train
Constellation Type


bundles sent to Com
50
40
30
20
10
0
Star
Delta
Train
Constellation Type


bundles sent to App
100
80
60
40
20
0
Star
Delta
Train
Constellation Type


blundles re-routed
0.04
0.02
0.00
−0.02
−0.04
Star
Delta
Train
Constellation Type