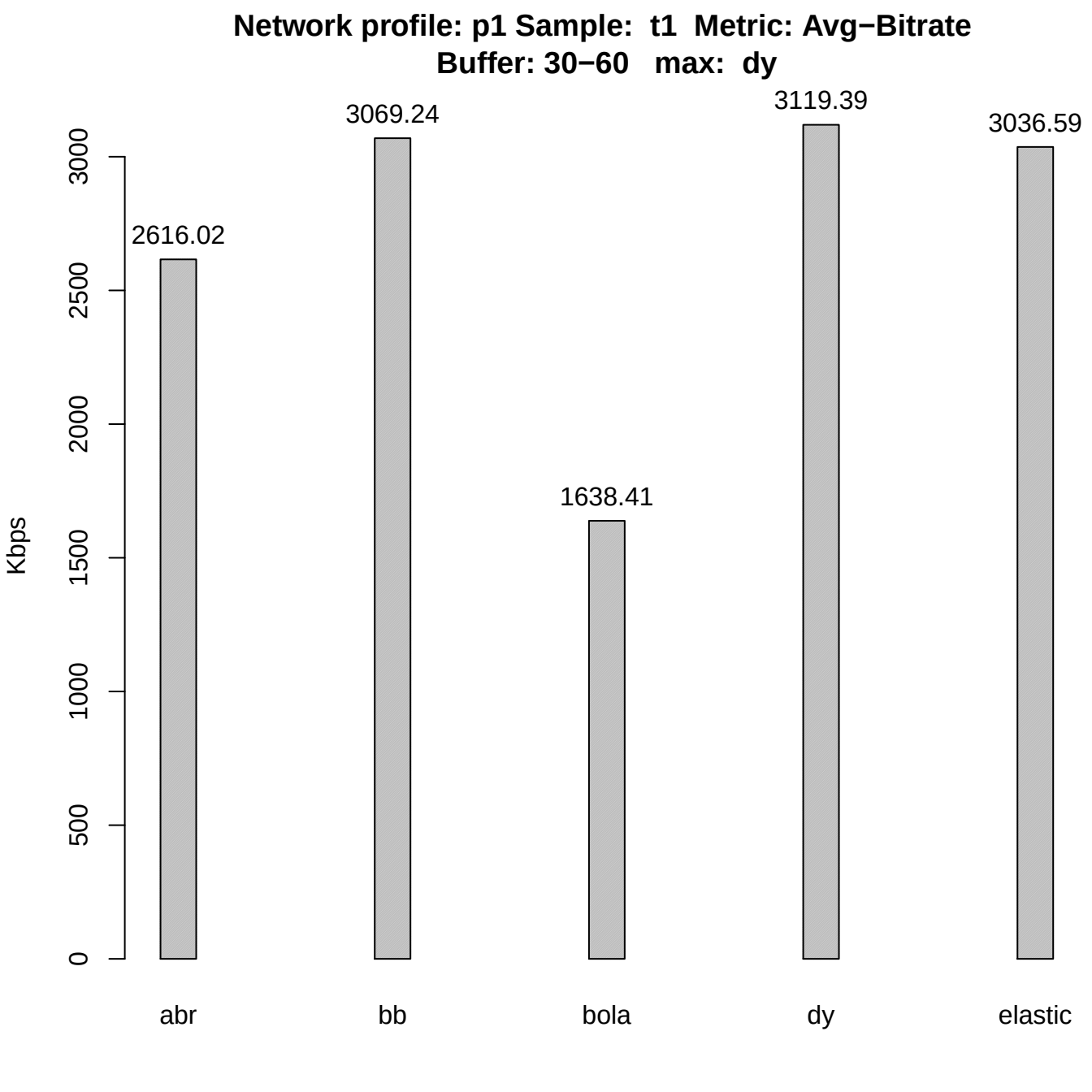
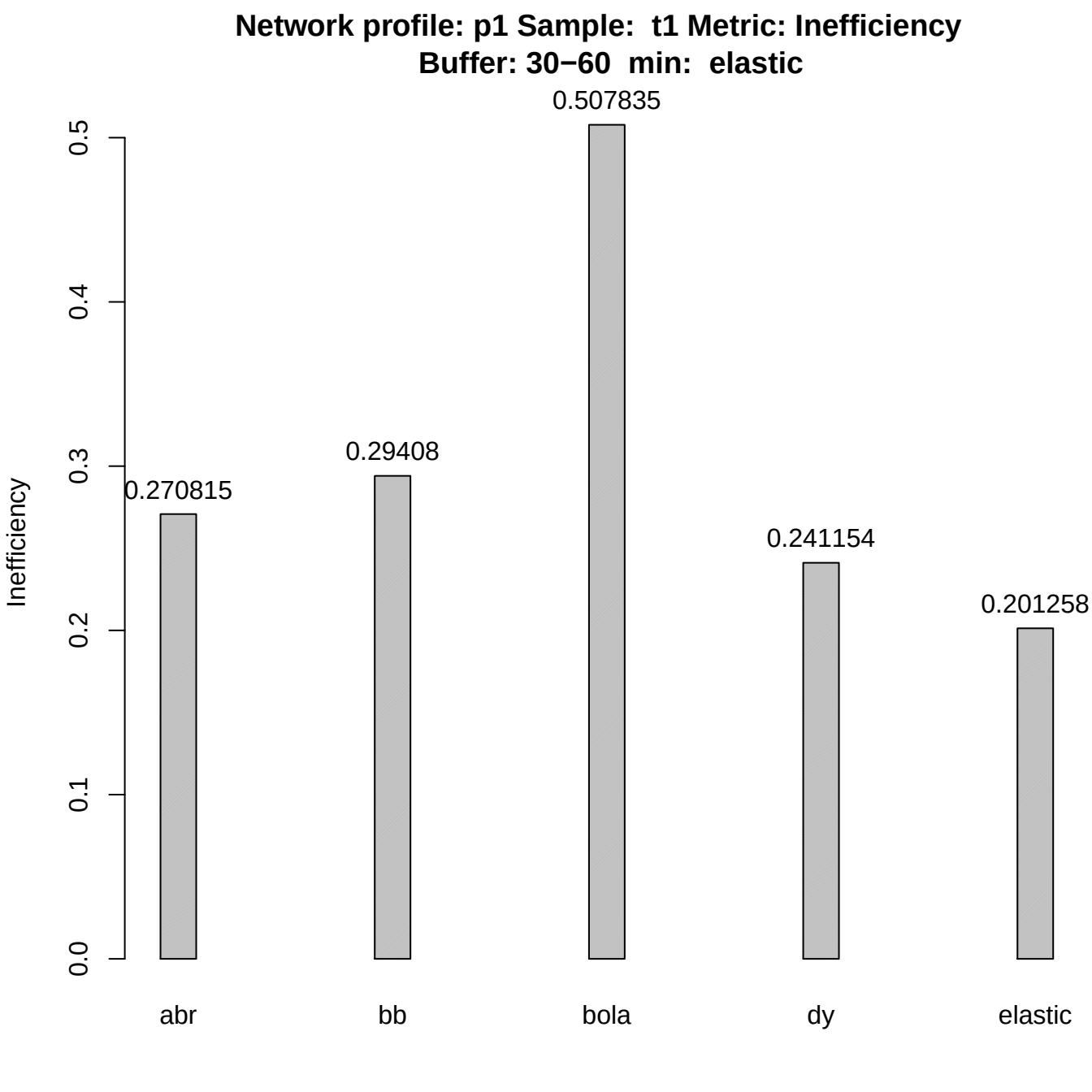
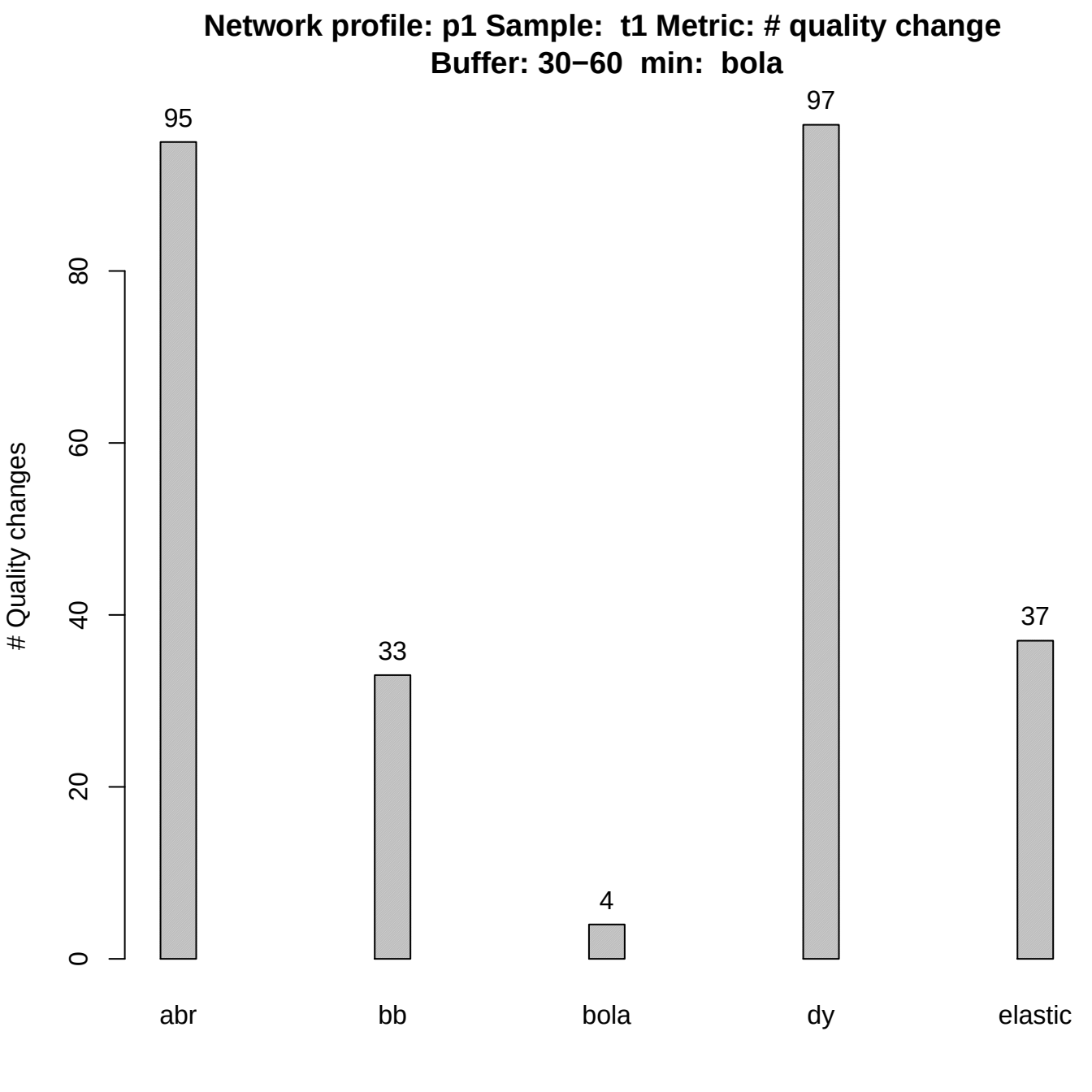
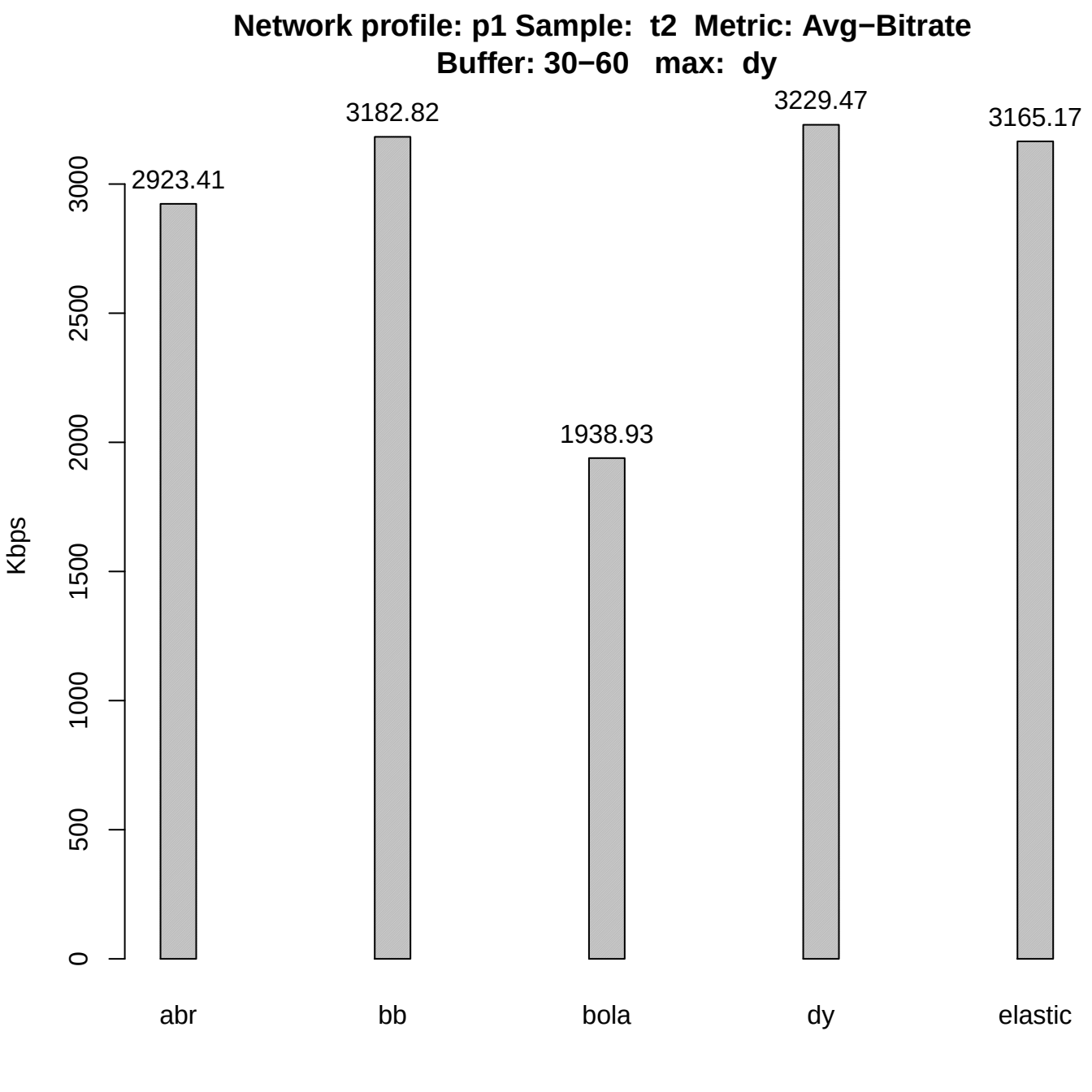
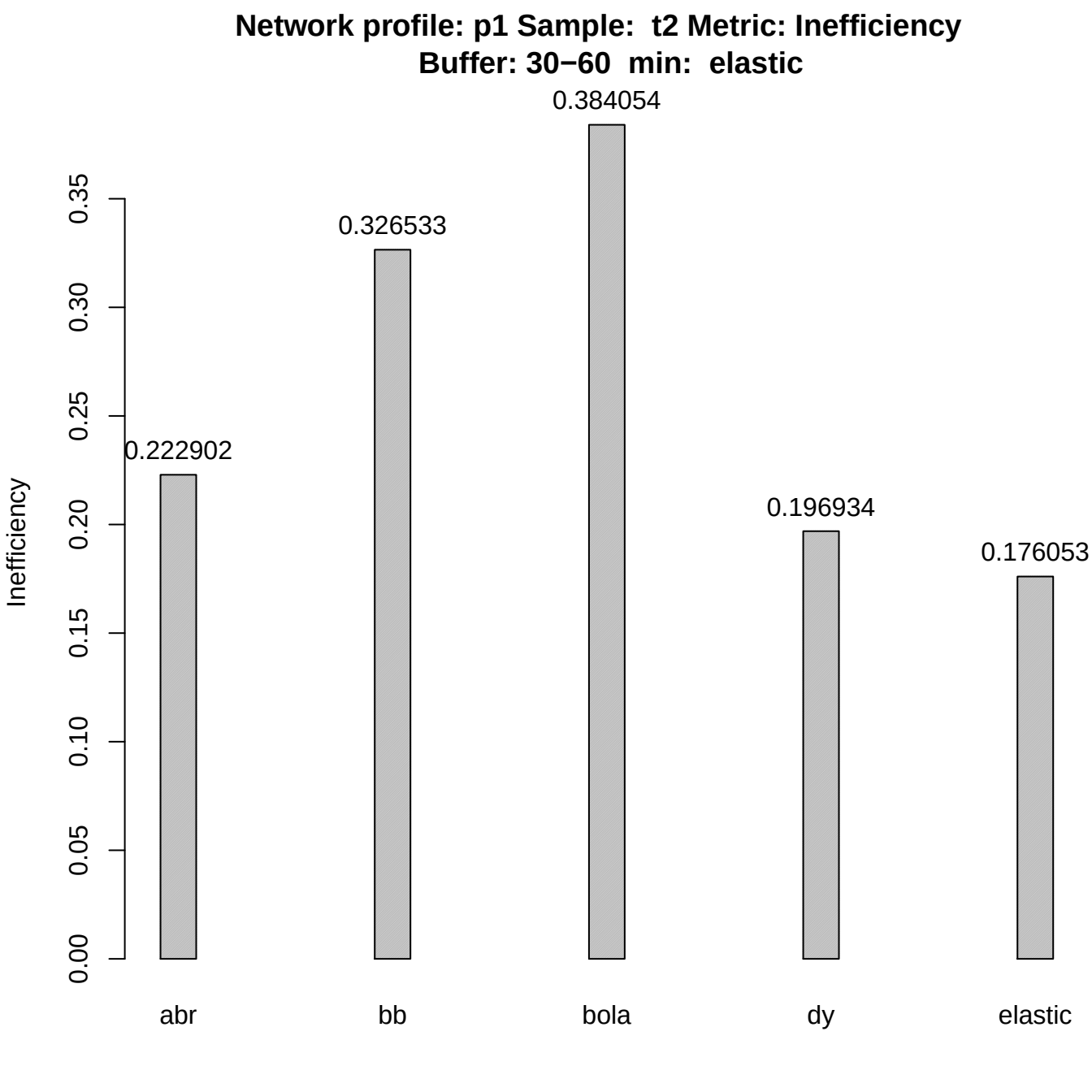
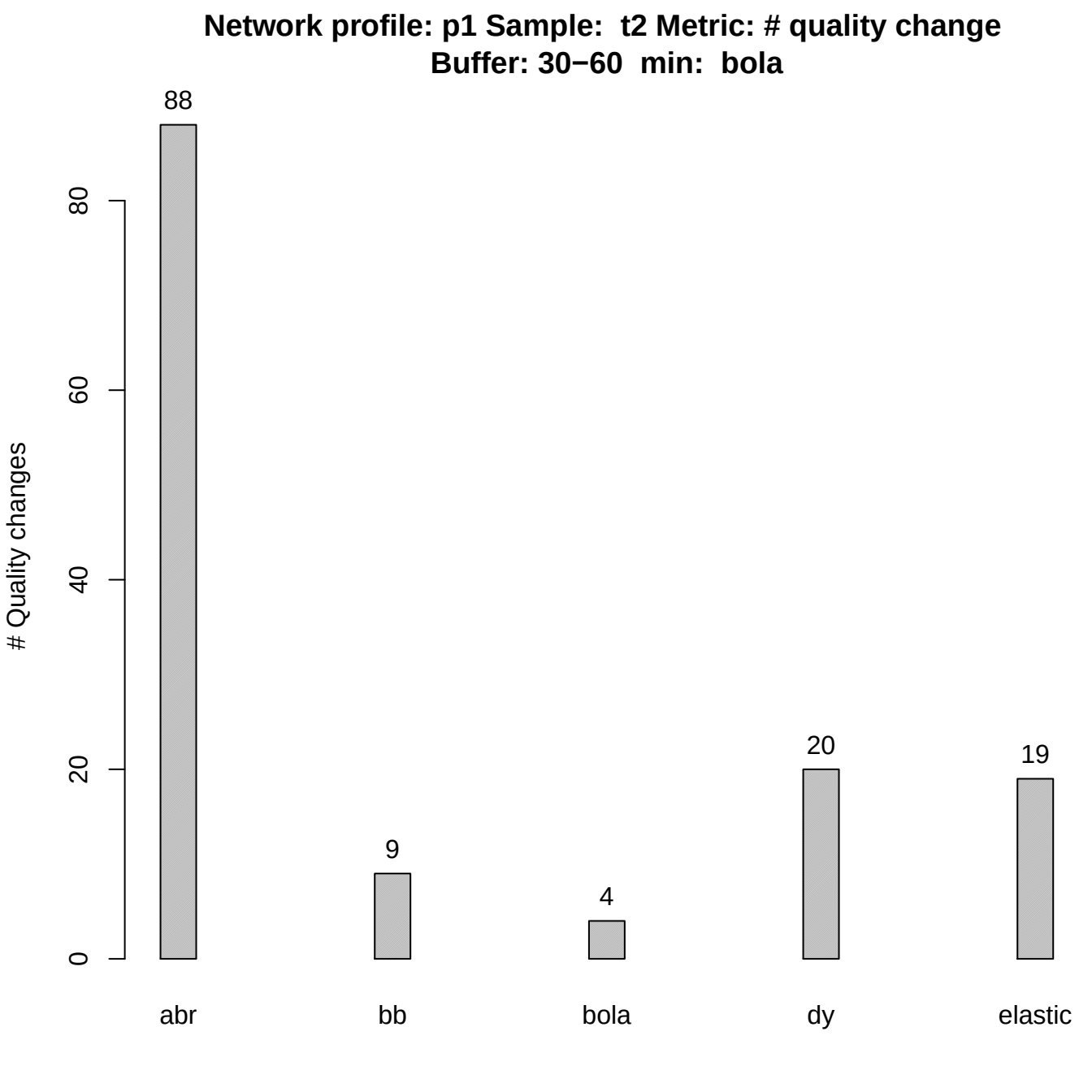

Network profile: p1 Sample: t1 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2616.02
3069.24
1638.41
3119.39
3036.59
abr
bb
bola
dy
elastic

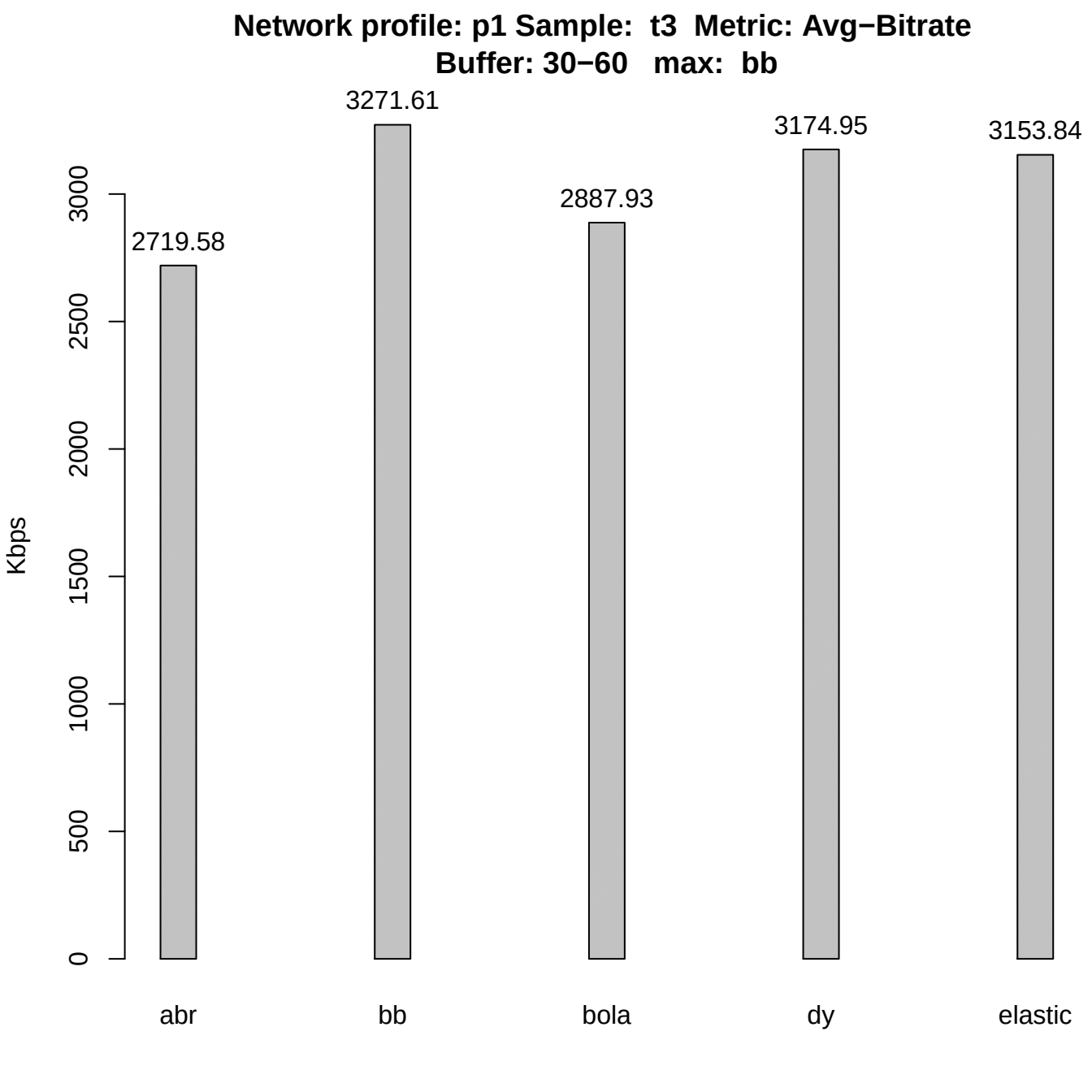

Network profile: p1 Sample: t1 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.5
0.270815
0.29408
0.507835
0.241154
0.201258
abr
bb
bola
dy
elastic

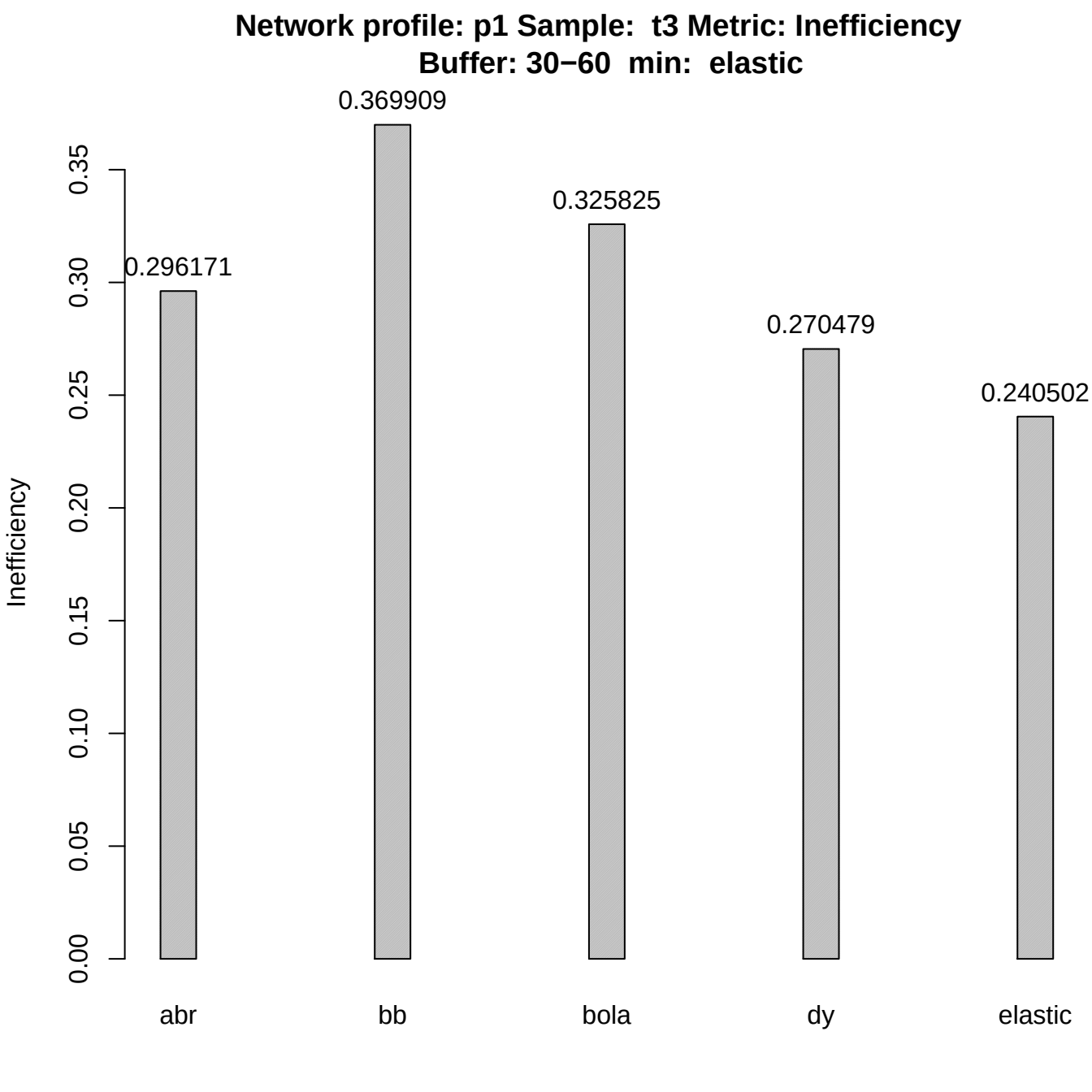

Network profile: p1 Sample: t1 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
95
33
4
97
37
abr
bb
bola
dy
elastic

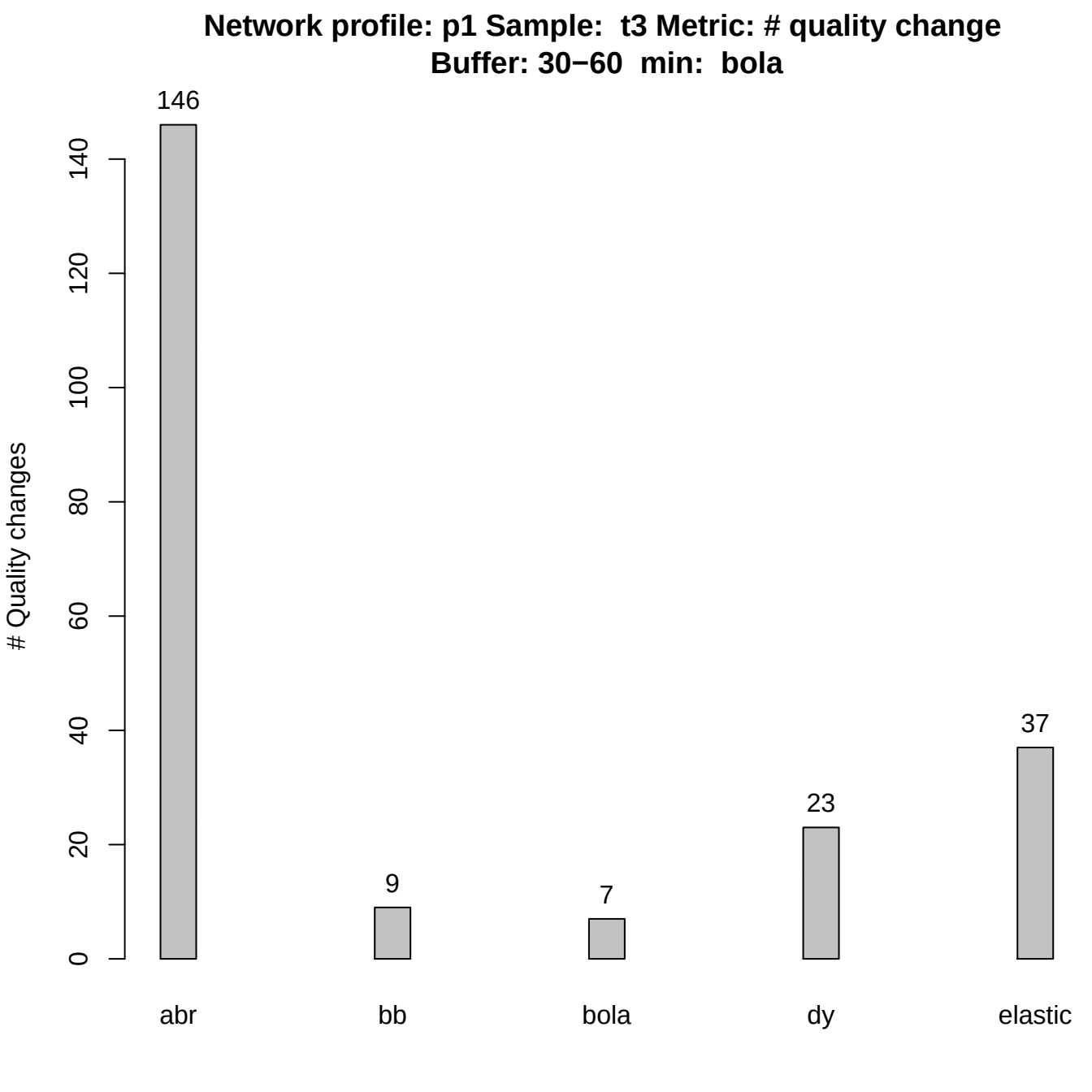

Network profile: p1 Sample: t2 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2923.41
3182.82
1938.93
3229.47
3165.17
abr
bb
bola
dy
elastic

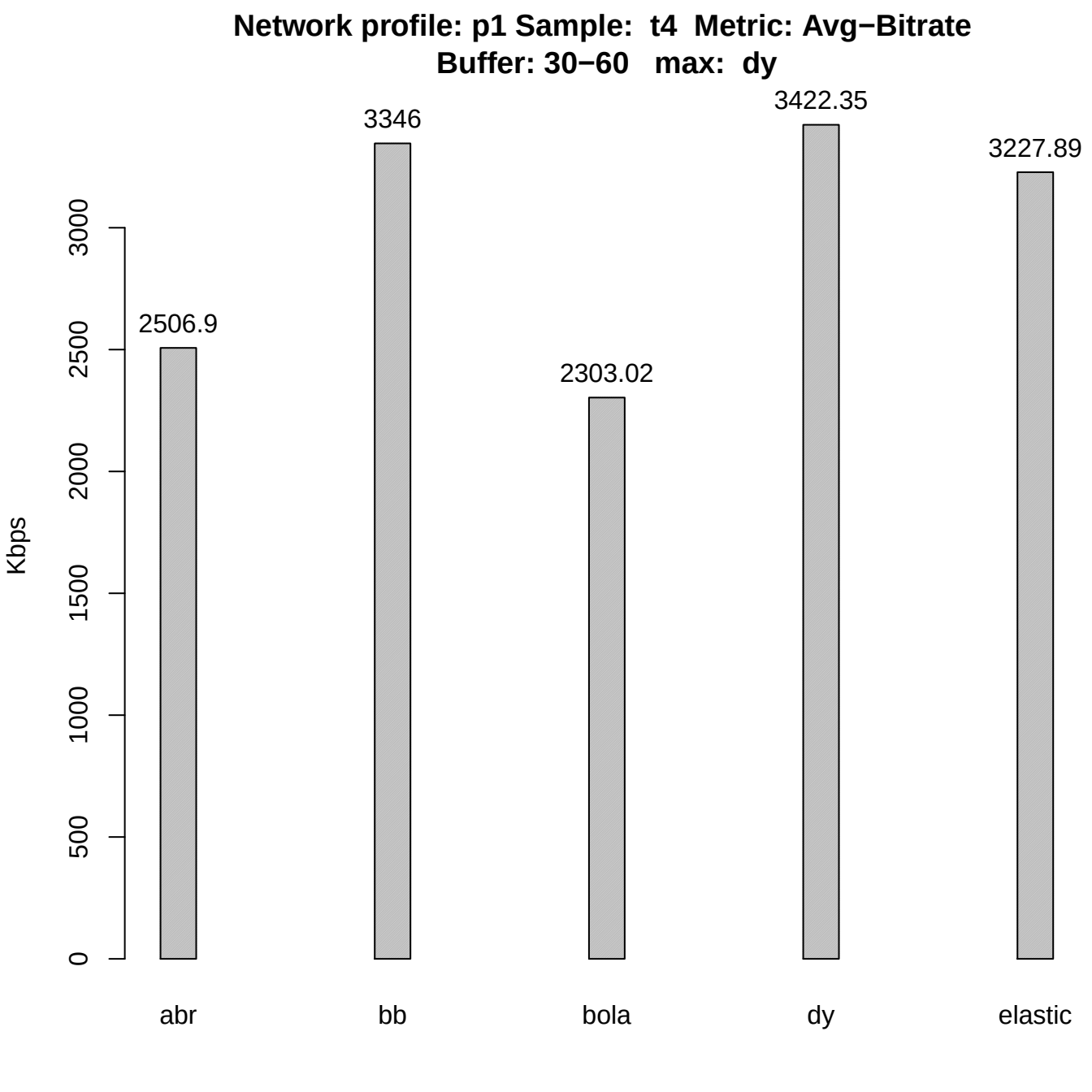

Network profile: p1 Sample: t2 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.222902
0.326533
0.384054
0.196934
0.176053
abr
bb
bola
dy
elastic

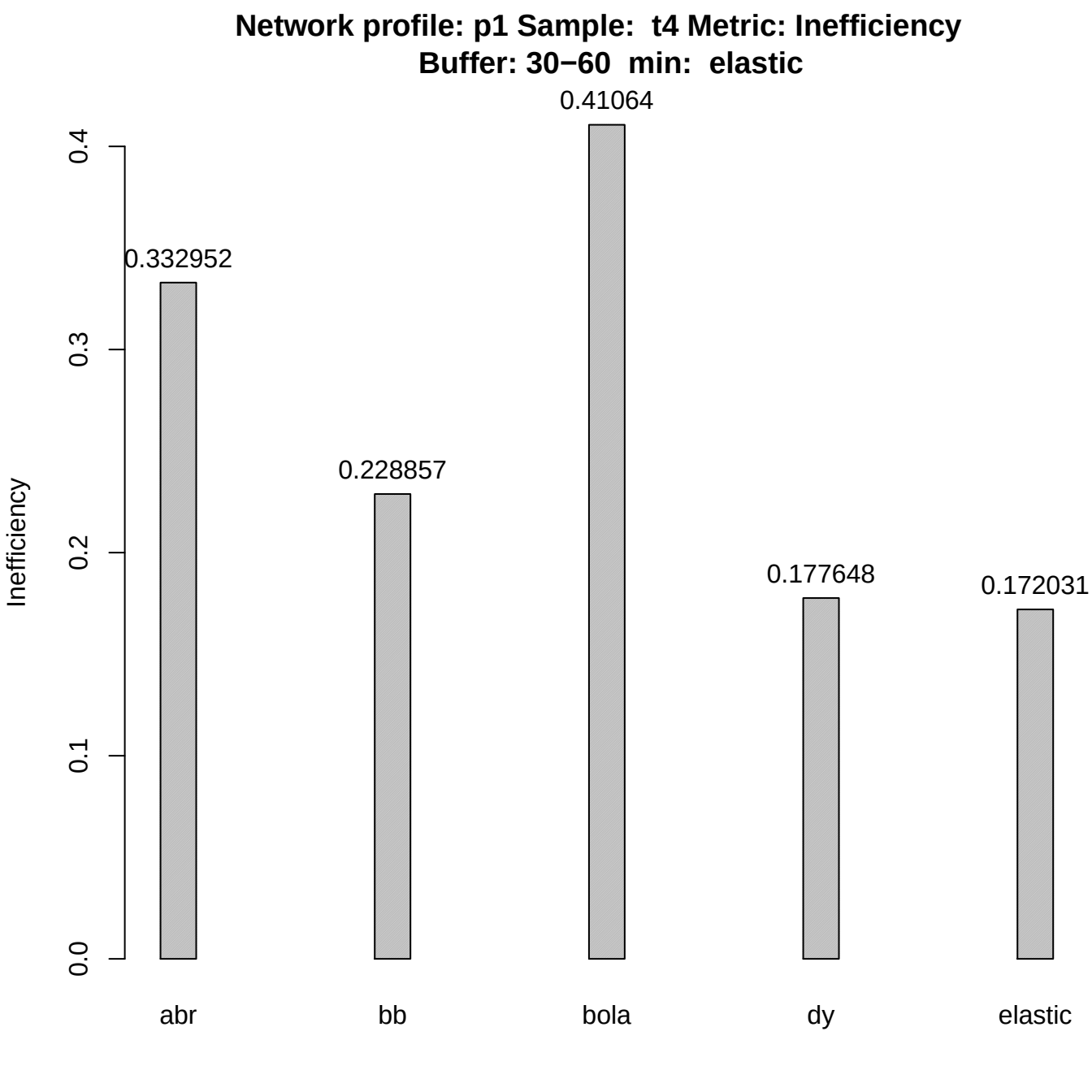

Network profile: p1 Sample: t2 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
88
9
4
20
19
abr
bb
bola
dy
elastic

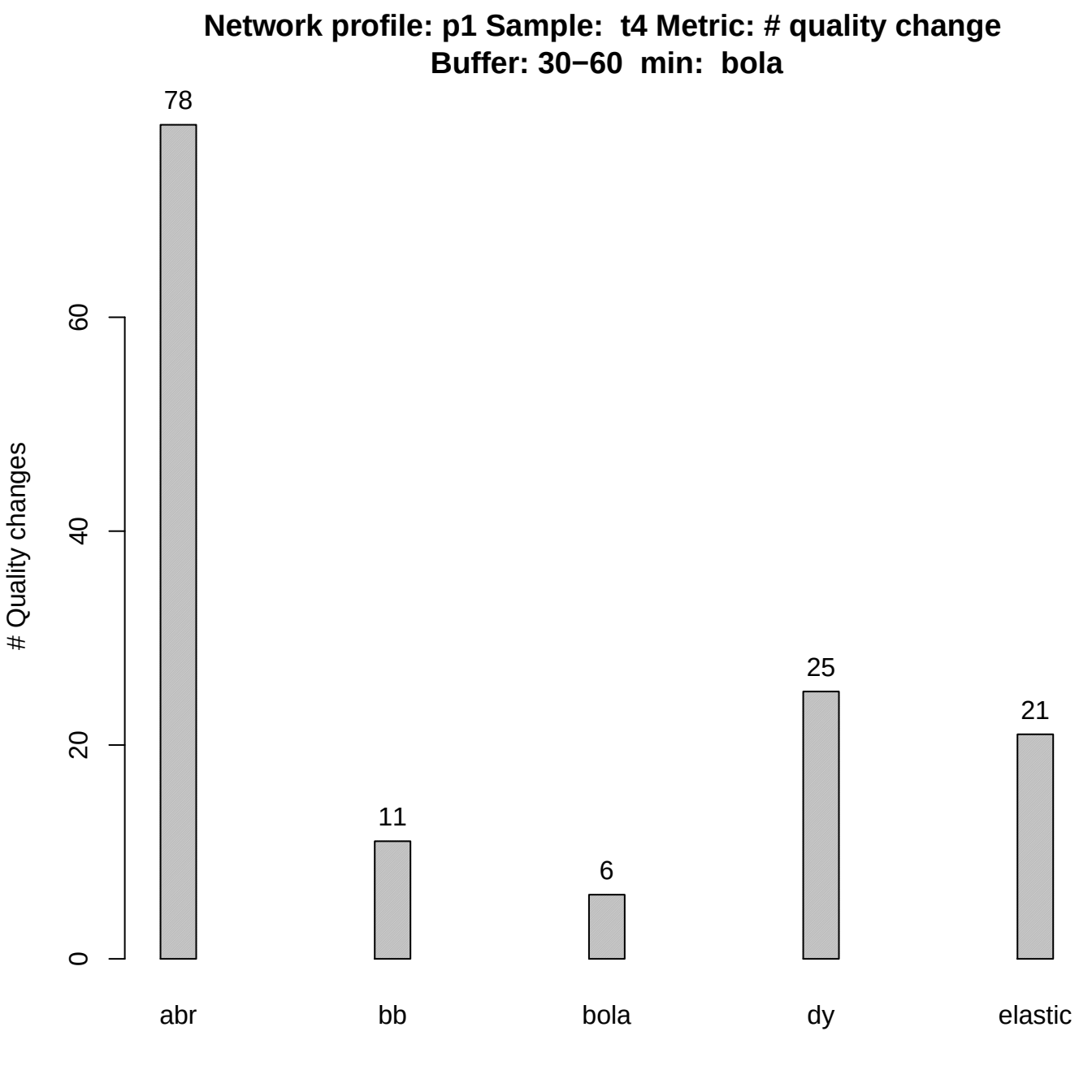

Network profile: p1 Sample: t3 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
500
1000
1500
2000
2500
3000
2719.58
3271.61
2887.93
3174.95
3153.84
abr
bb
bola
dy
elastic

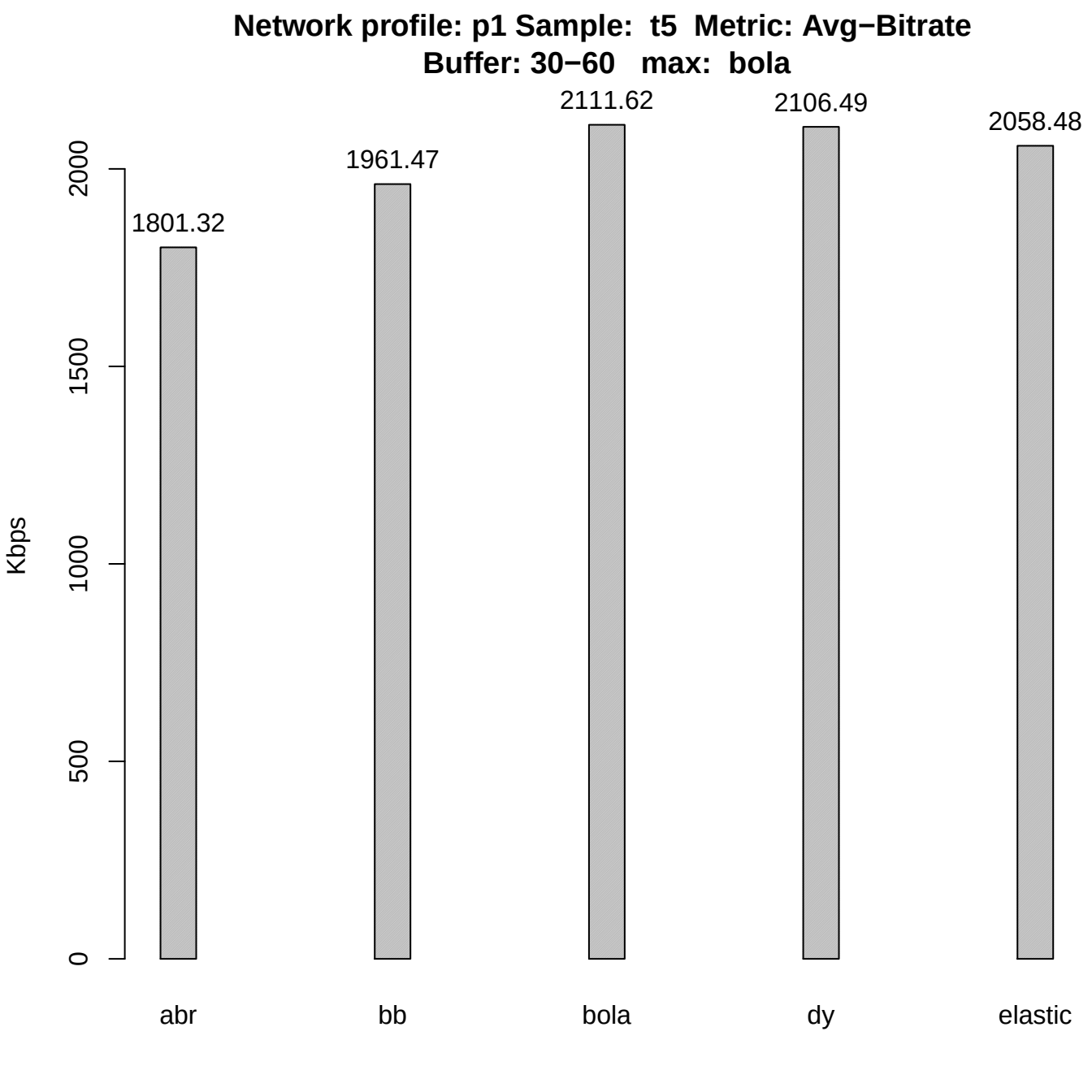

Network profile: p1 Sample: t3 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.296171
0.369909
0.325825
0.270479
0.240502
abr
bb
bola
dy
elastic

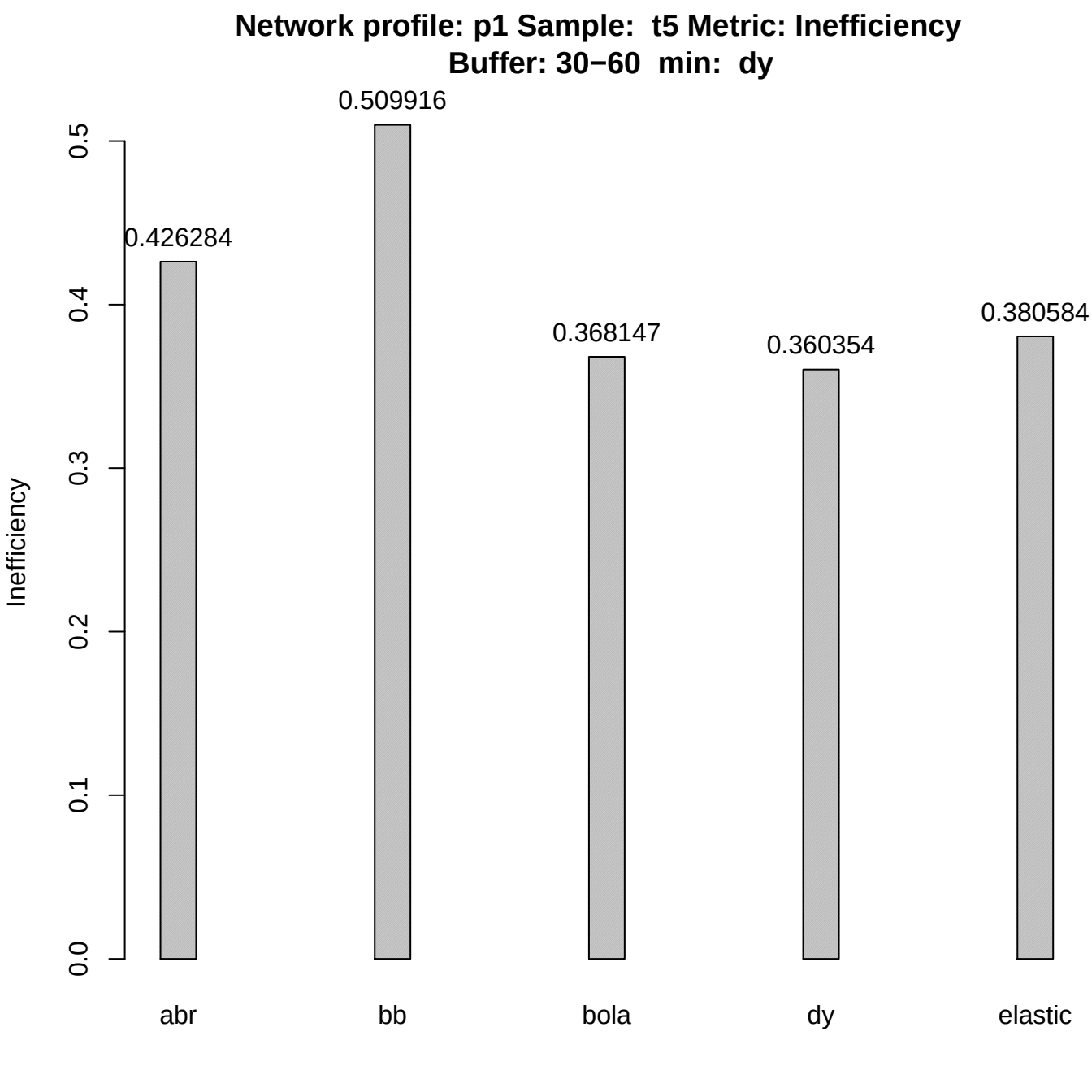

Network profile: p1 Sample: t3 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
140
146
9
7
23
37
abr
bb
bola
dy
elastic

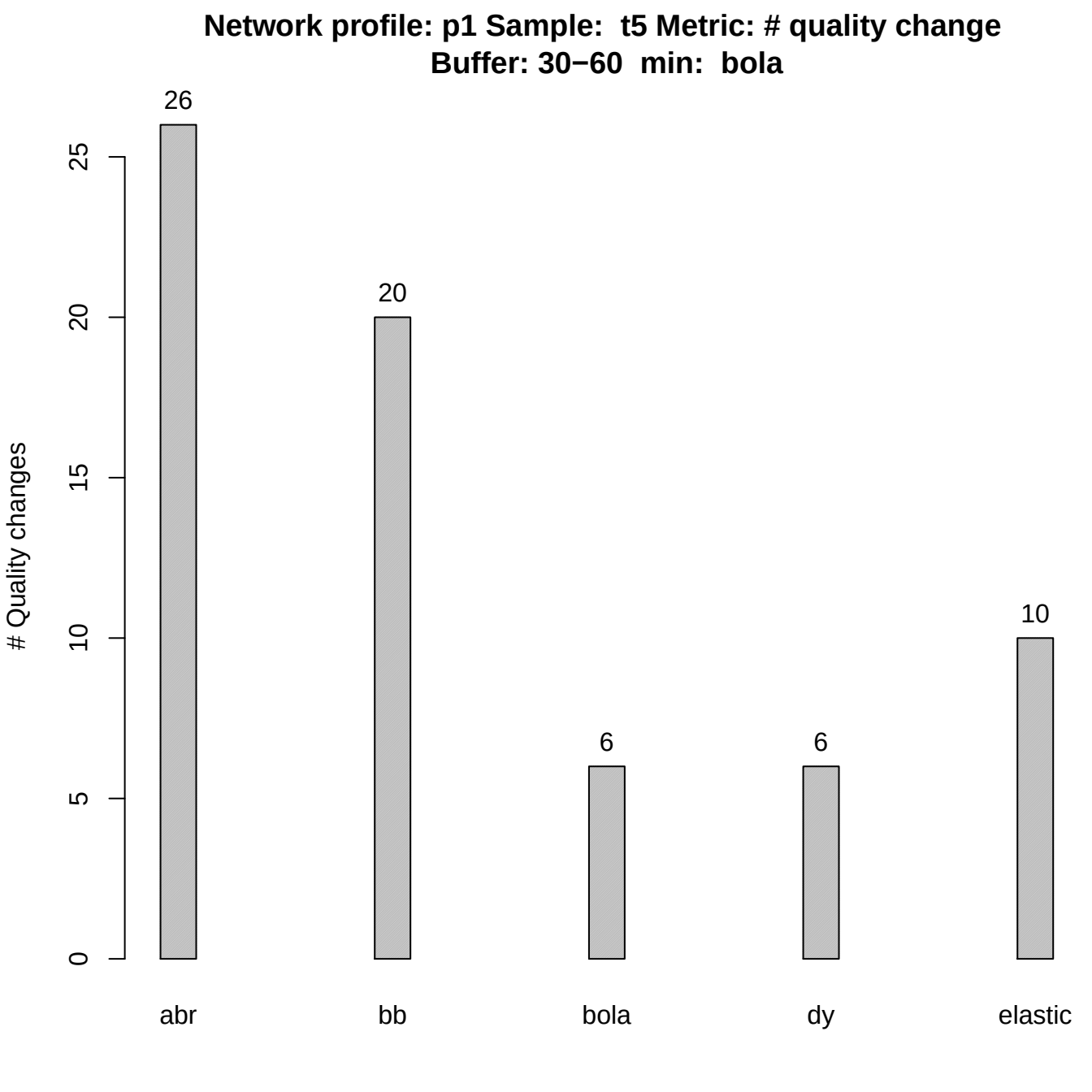

Network profile: p1 Sample: t4 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2506.9
3346
2303.02
3422.35
3227.89
abr
bb
bola
dy
elastic

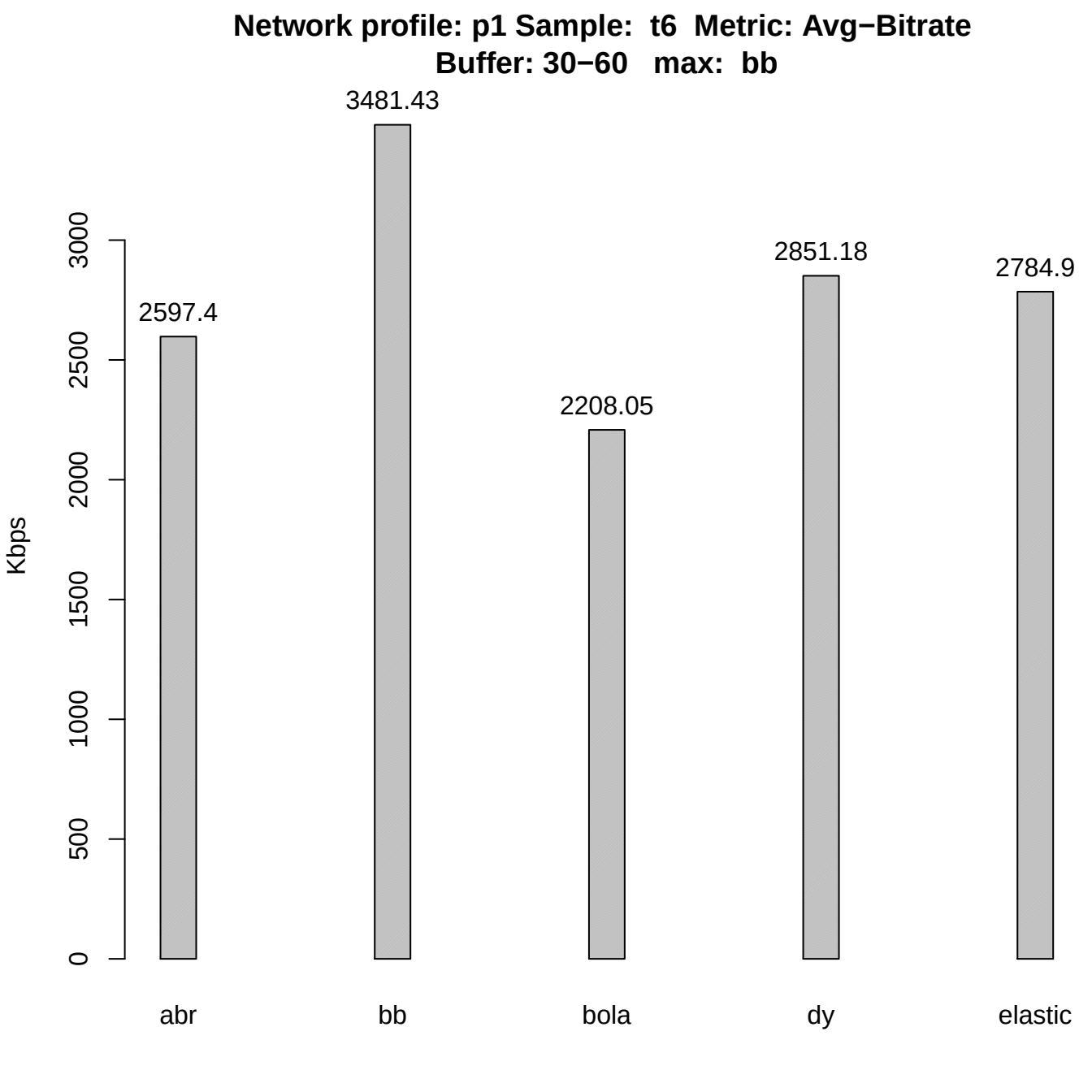

Network profile: p1 Sample: t4 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.332952
0.228857
0.41064
0.177648
0.172031
abr
bb
bola
dy
elastic

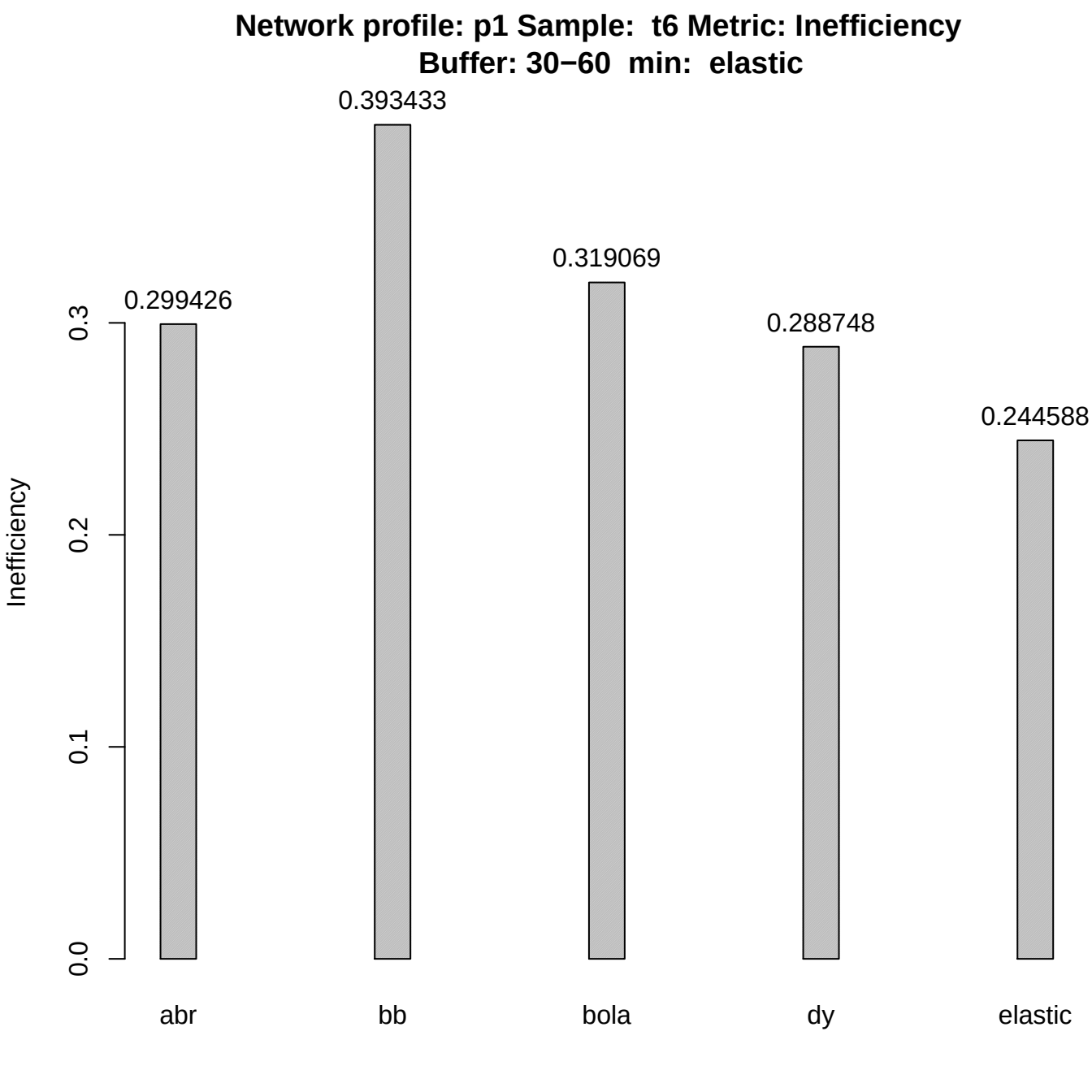

Network profile: p1 Sample: t4 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
78
11
6
25
21
abr
bb
bola
dy
elastic

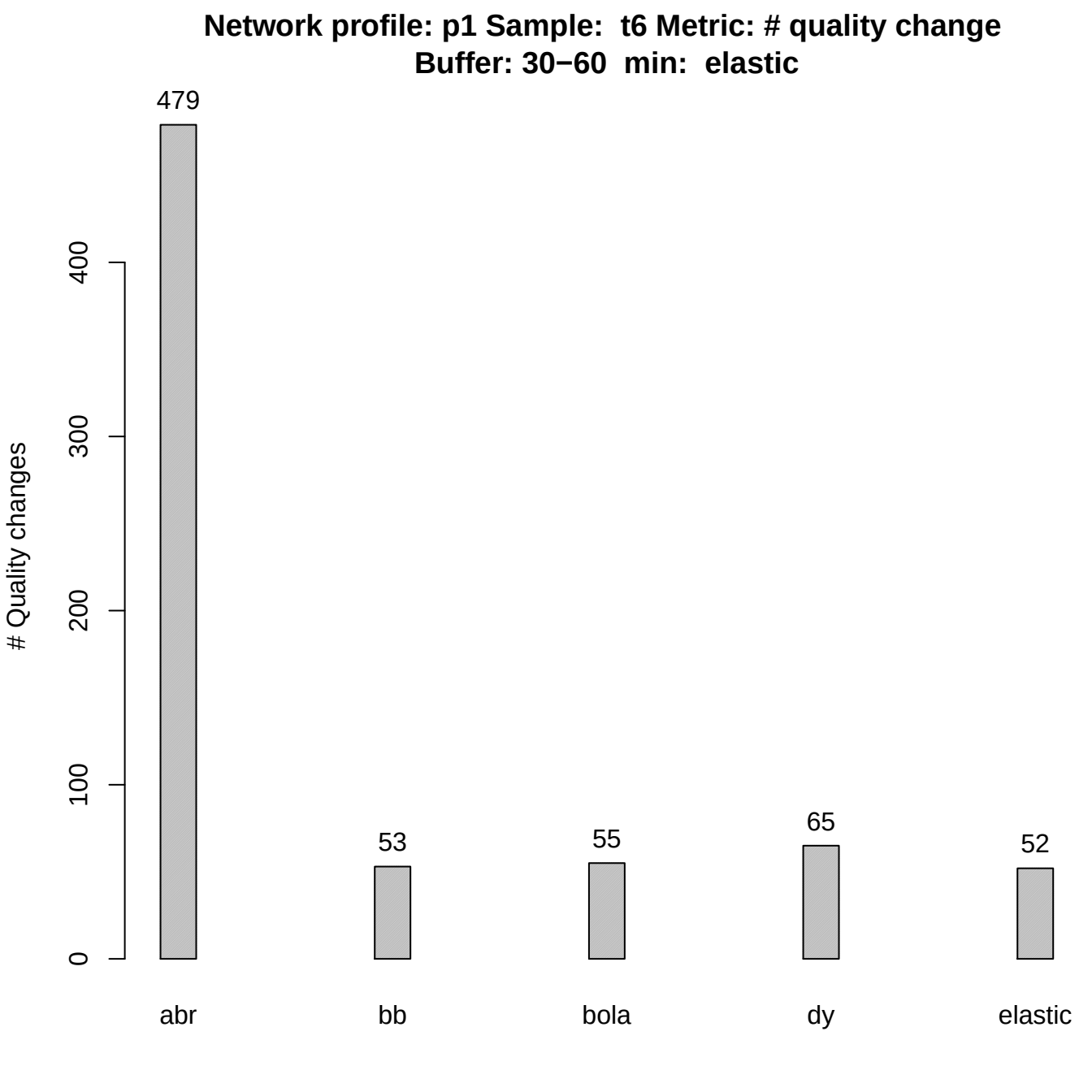

Network profile: p1 Sample: t5 Metric: Avg−Bitrate
Buffer: 30−60 max: bola
Kbps
0
500
1000
1500
2000
1801.32
1961.47
2111.62
2106.49
2058.48
abr
bb
bola
dy
elastic

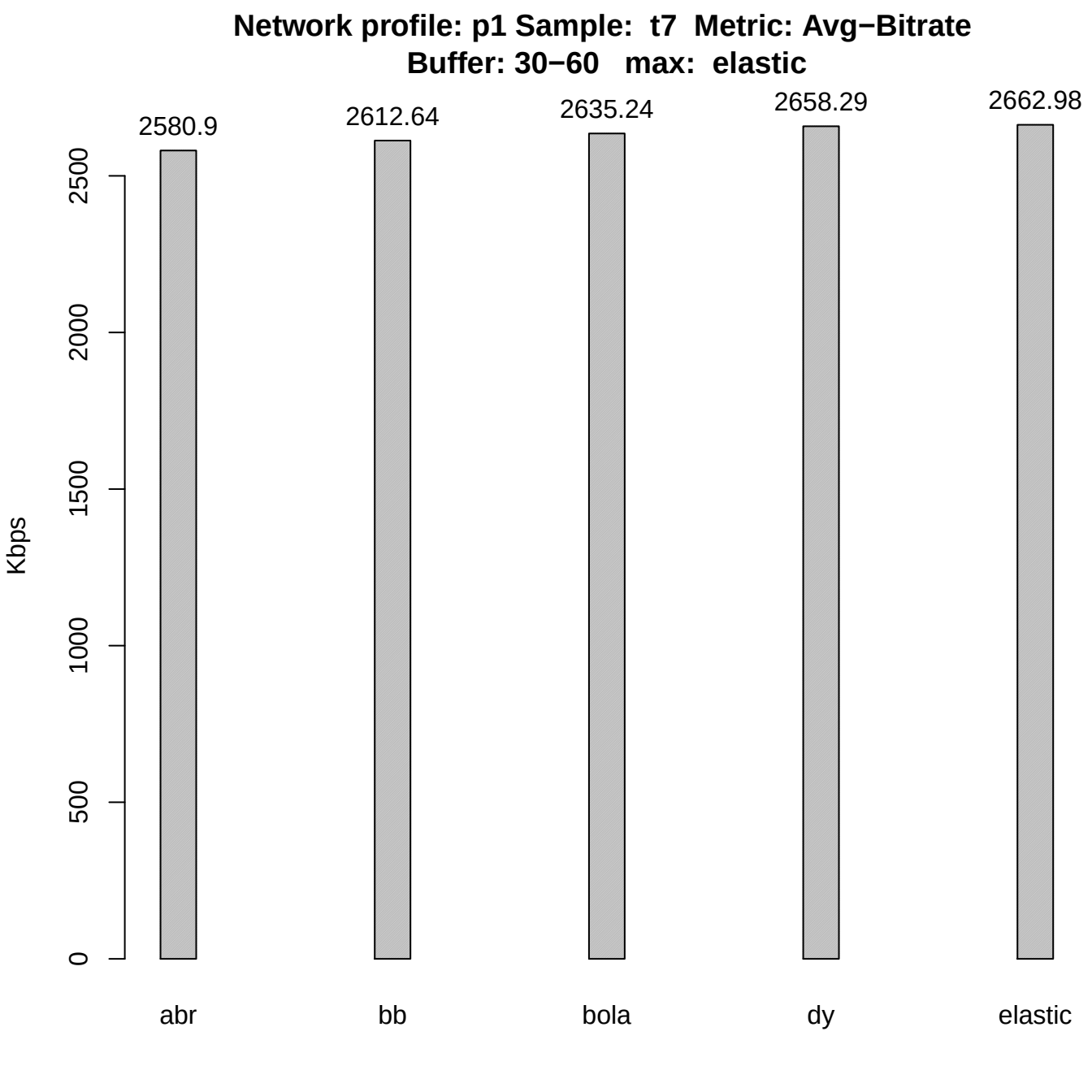

Network profile: p1 Sample: t5 Metric: Inefficiency
Buffer: 30−60 min: dy
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.5
0.426284
0.509916
0.368147
0.360354
0.380584
abr
bb
bola
dy
elastic

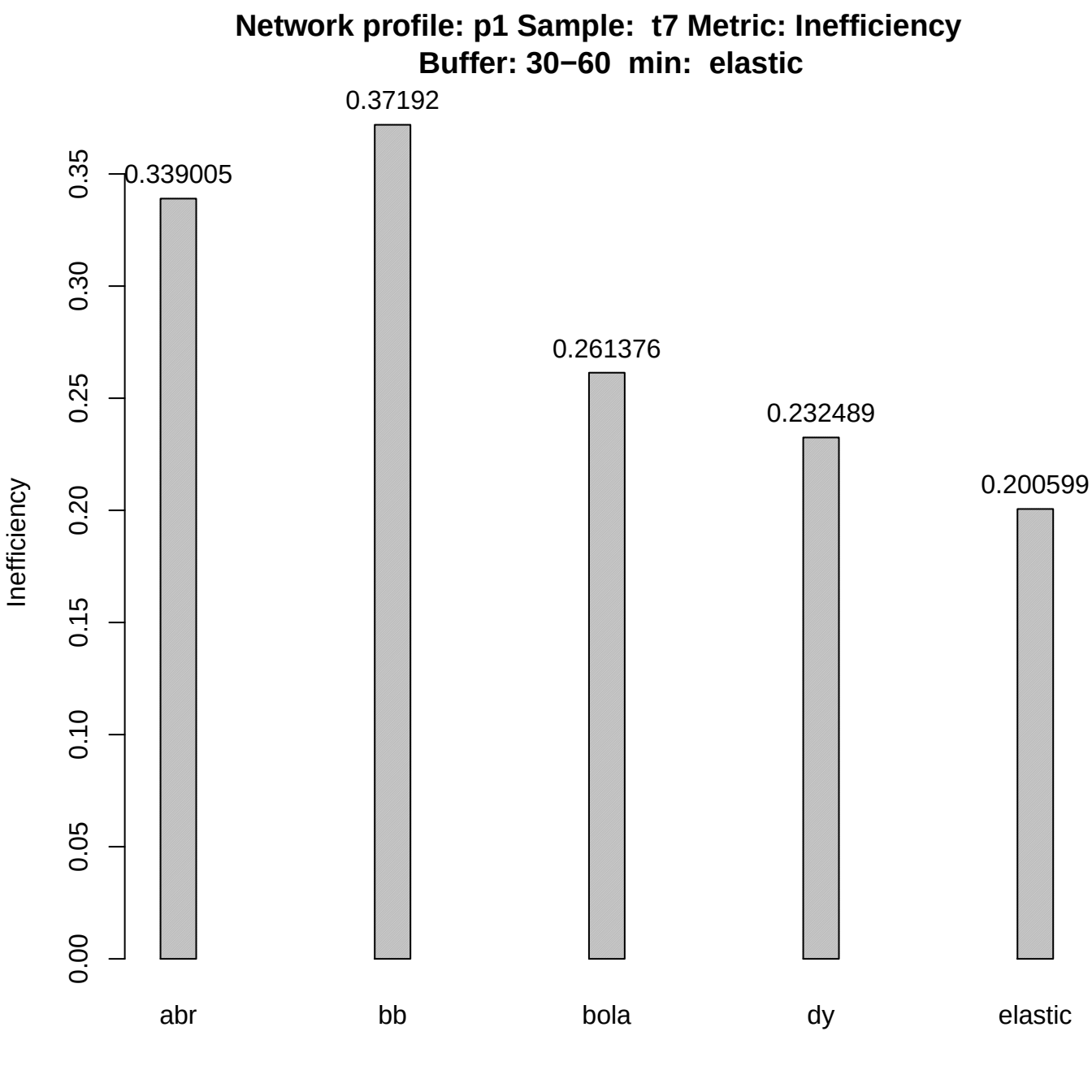

Network profile: p1 Sample: t5 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
5
10
15
20
25
26
20
6
6
10
abr
bb
bola
dy
elastic

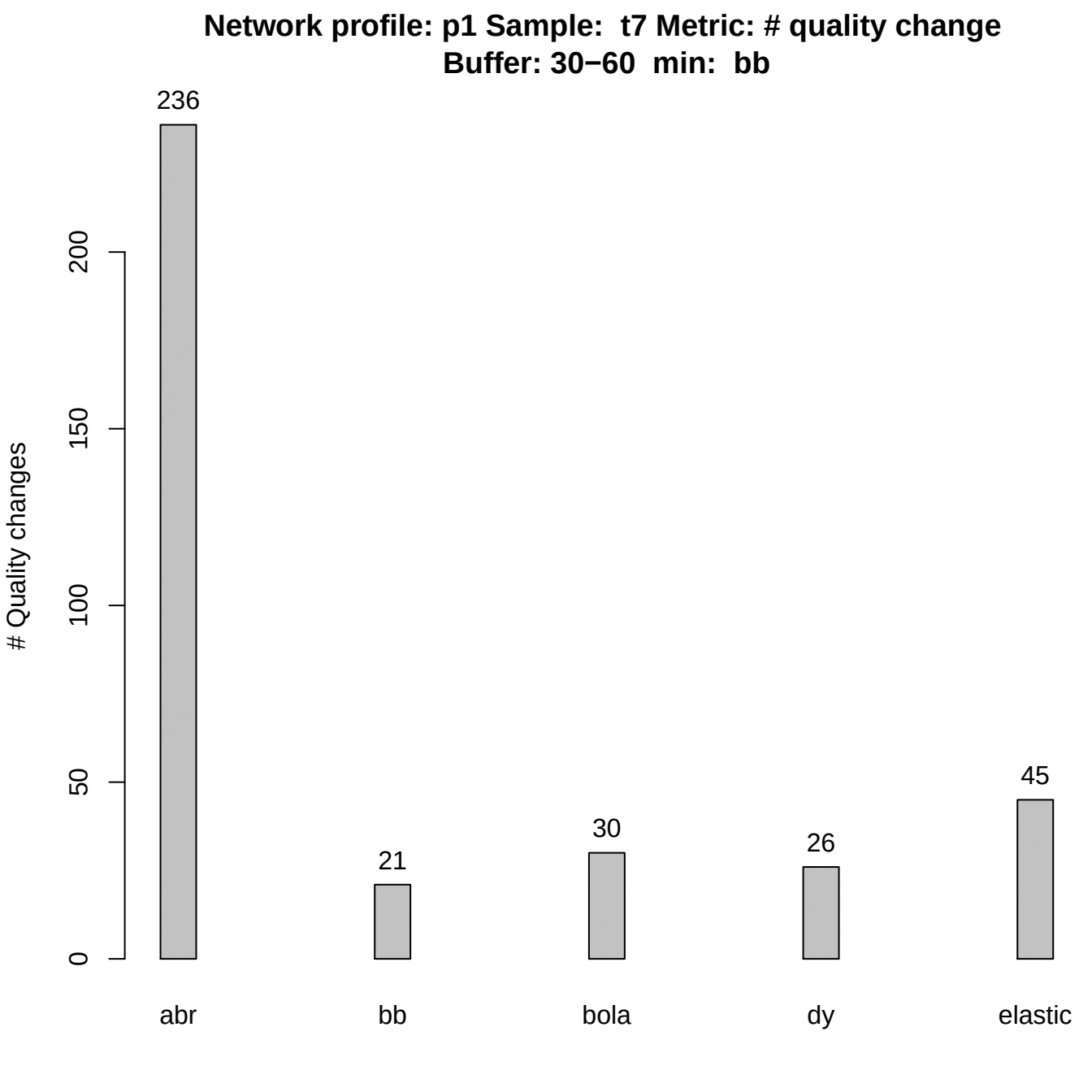

Network profile: p1 Sample: t6 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
500
1000
1500
2000
2500
3000
2597.4
3481.43
2208.05
2851.18
2784.9
abr
bb
bola
dy
elastic

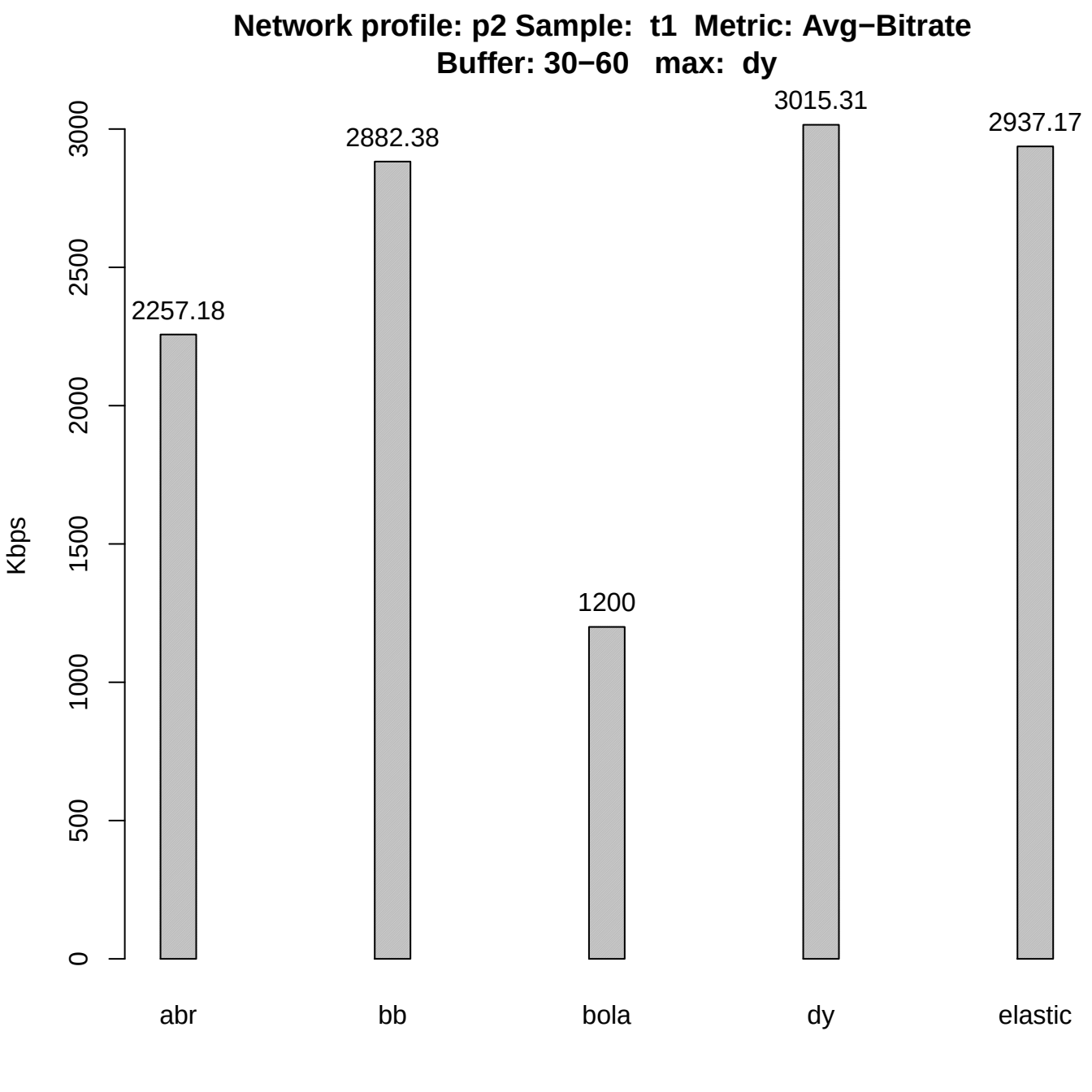

Network profile: p1 Sample: t6 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.299426
0.393433
0.319069
0.288748
0.244588
abr
bb
bola
dy
elastic

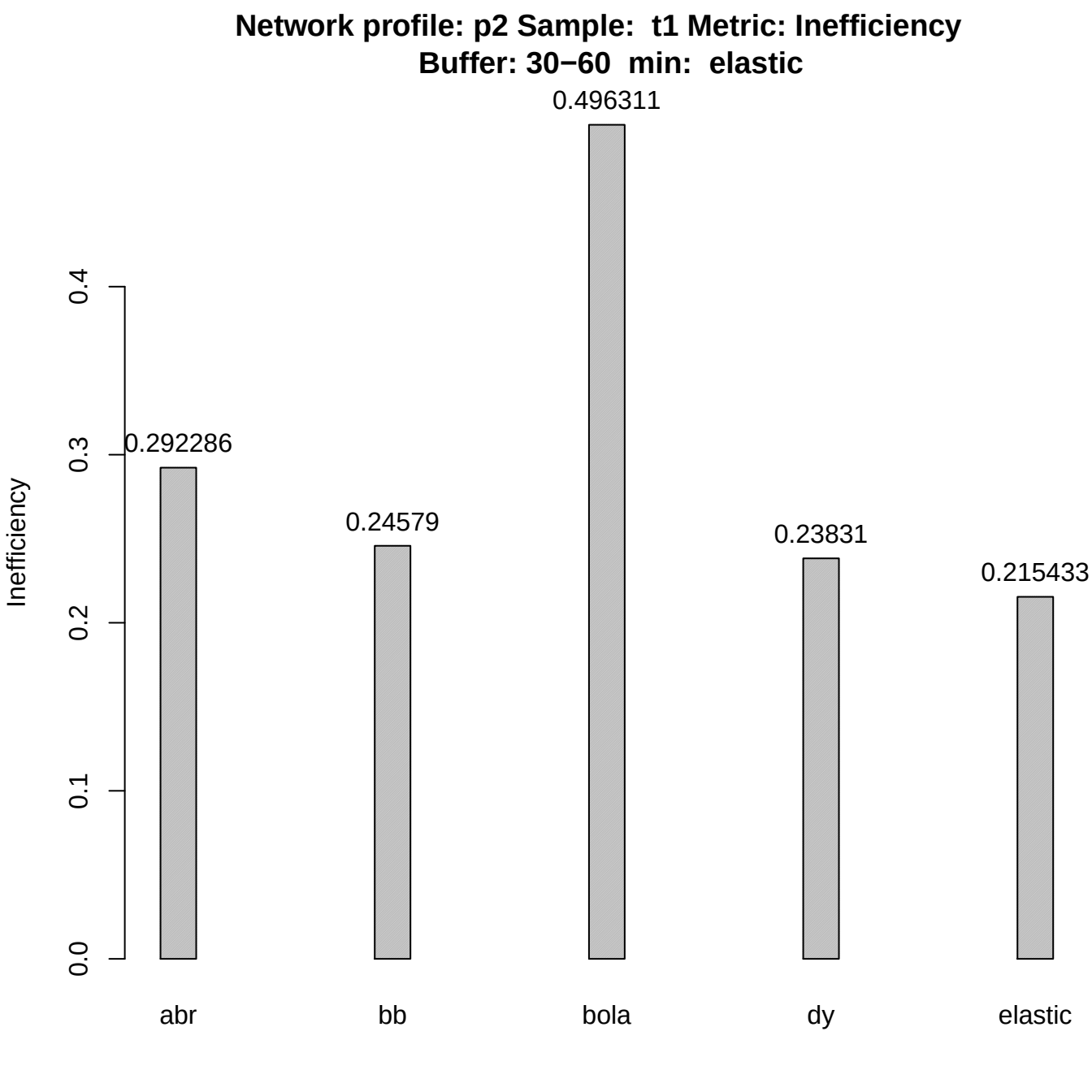

Network profile: p1 Sample: t6 Metric: # quality change
Buffer: 30−60 min: elastic
Quality changes
0
100
200
300
400
479
53
55
65
52
abr
bb
bola
dy
elastic

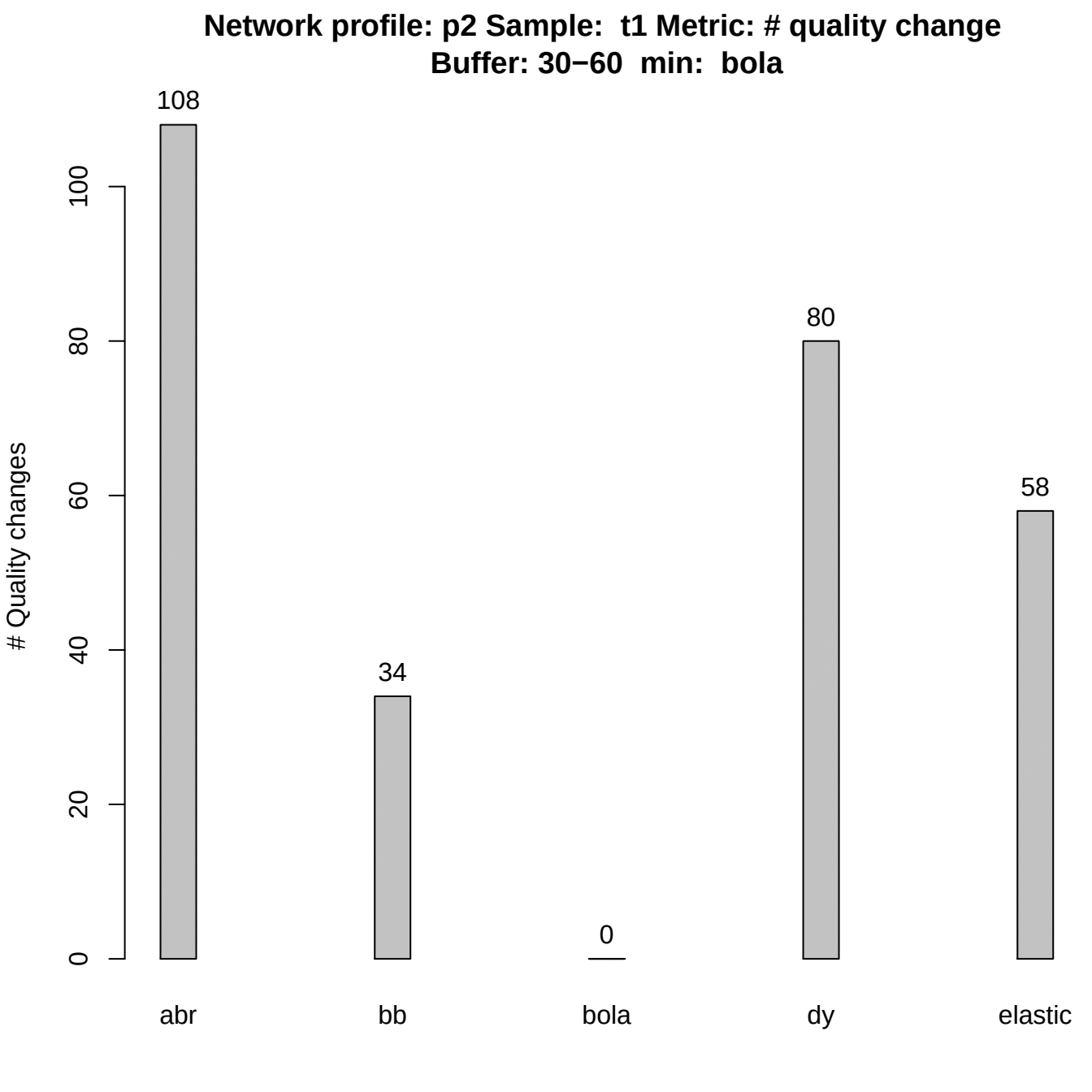

Network profile: p1 Sample: t7 Metric: Avg−Bitrate
Buffer: 30−60 max: elastic
Kbps
0
500
1000
1500
2000
2500
2580.9
2612.64
2635.24
2658.29
2662.98
abr
bb
bola
dy
elastic

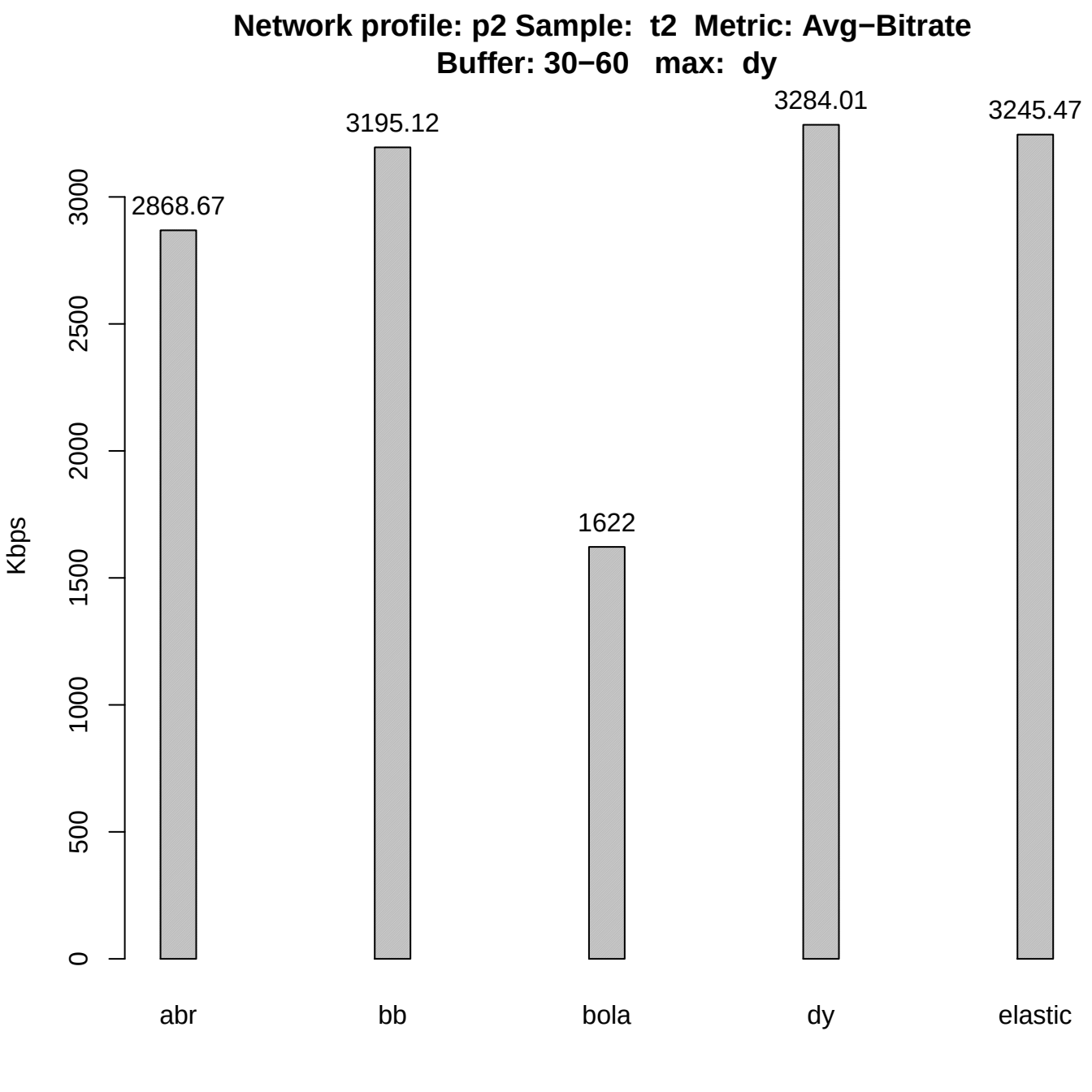

Network profile: p1 Sample: t7 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.339005
0.37192
0.261376
0.232489
0.200599
abr
bb
bola
dy
elastic

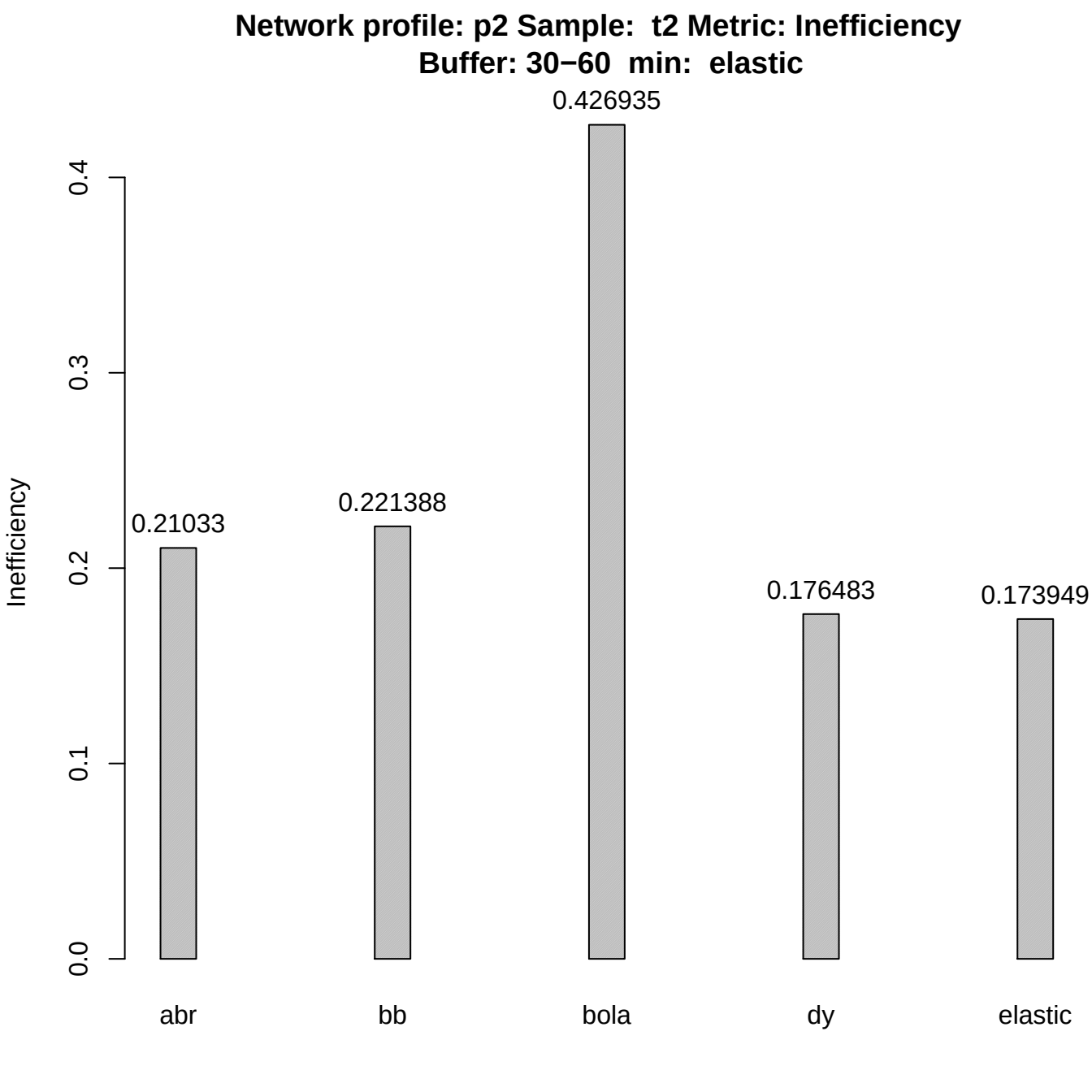

Network profile: p1 Sample: t7 Metric: # quality change
Buffer: 30−60 min: bb
Quality changes
0
50
100
150
200
236
21
30
26
45
abr
bb
bola
dy
elastic

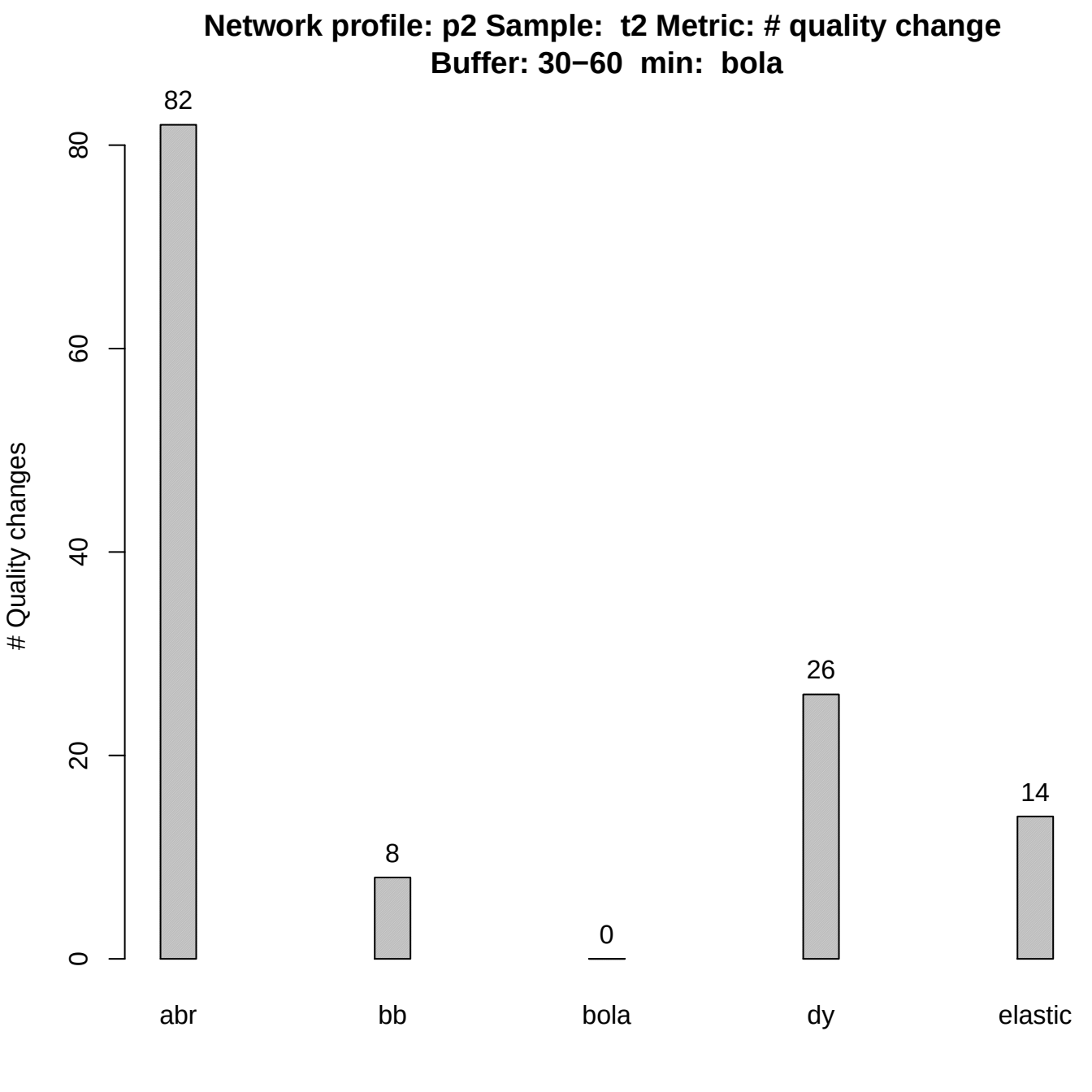

Network profile: p2 Sample: t1 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2257.18
2882.38
1200
3015.31
2937.17
abr
bb
bola
dy
elastic

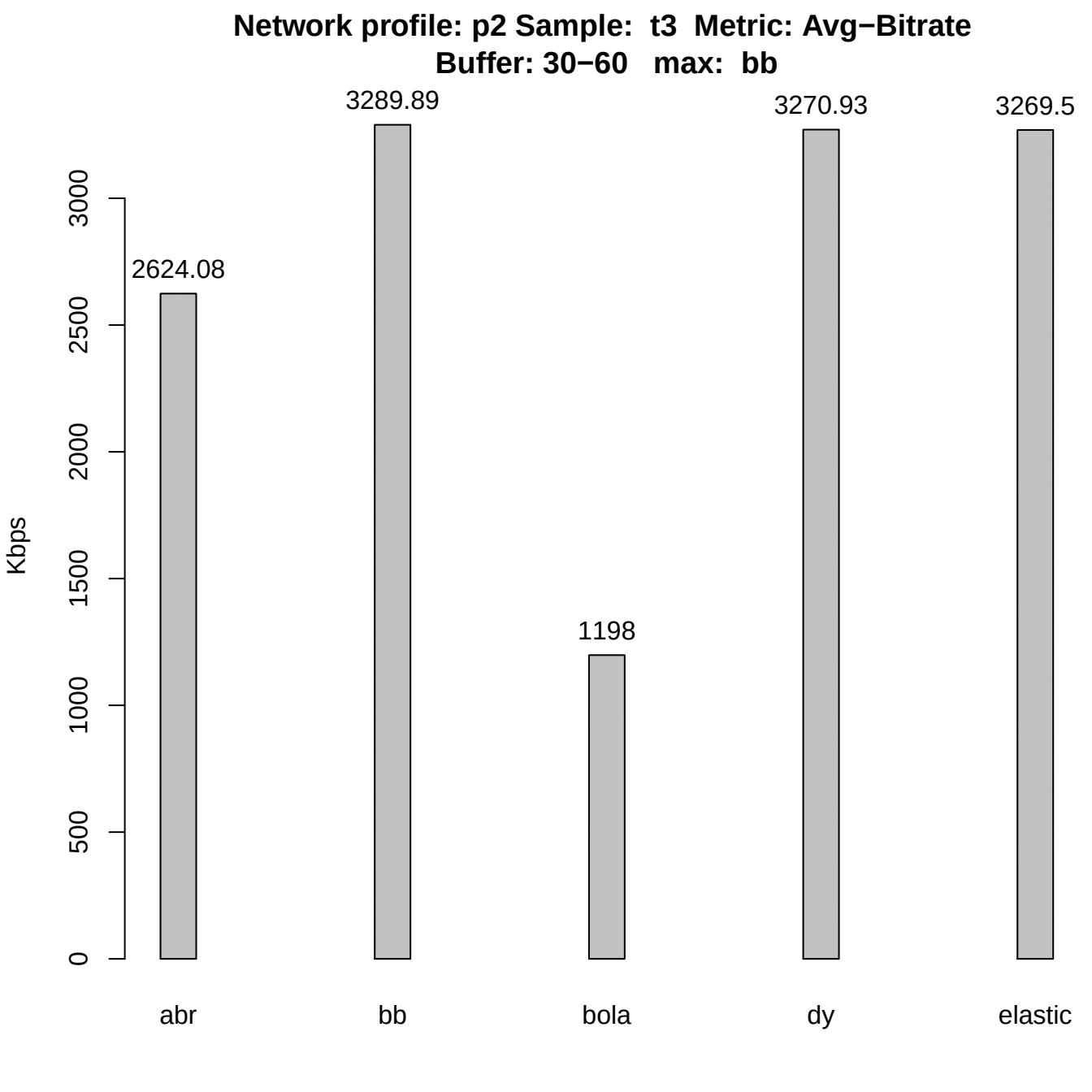

Network profile: p2 Sample: t1 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.292286
0.24579
0.496311
0.23831
0.215433
abr
bb
bola
dy
elastic

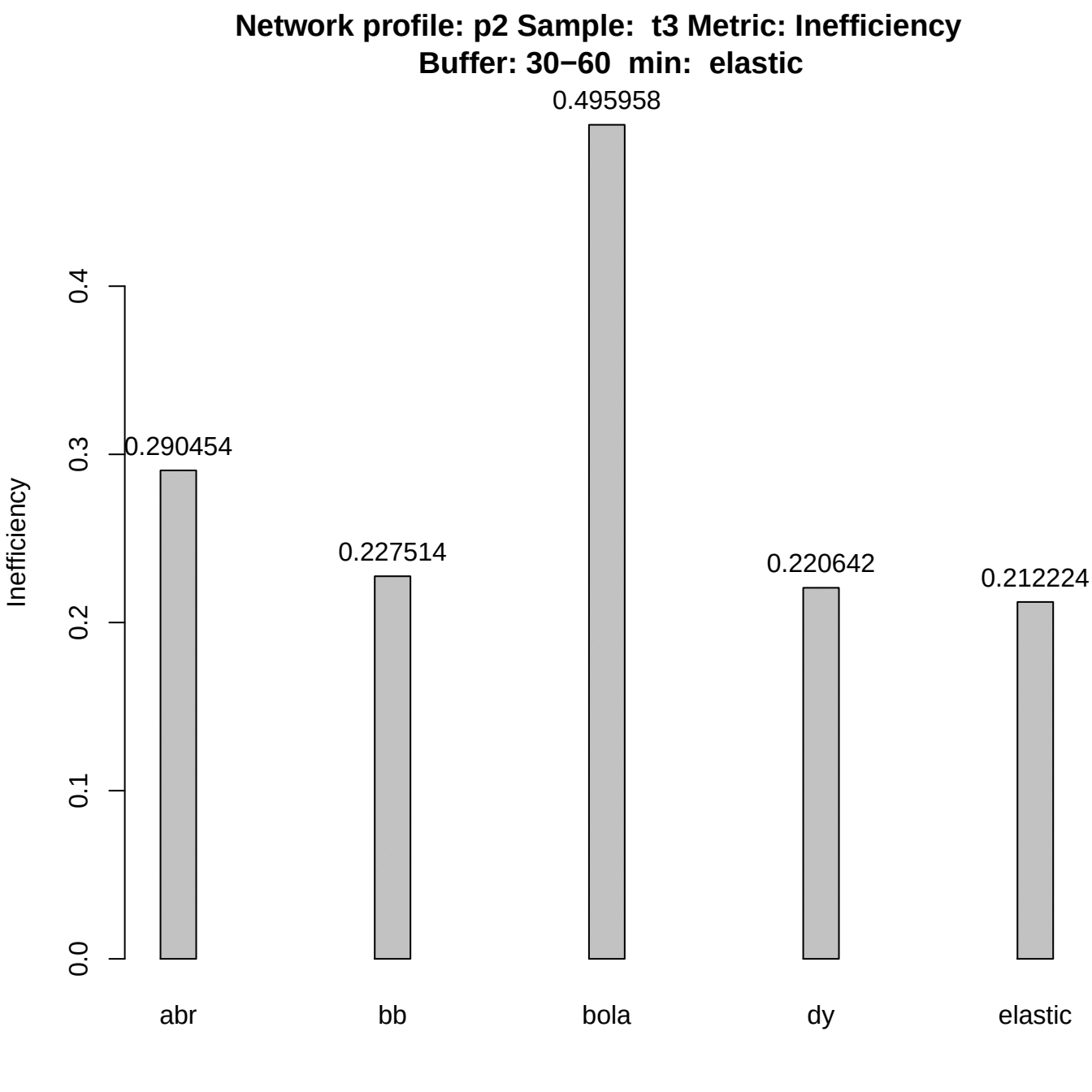

Network profile: p2 Sample: t1 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
108
34
0
80
58
abr
bb
bola
dy
elastic

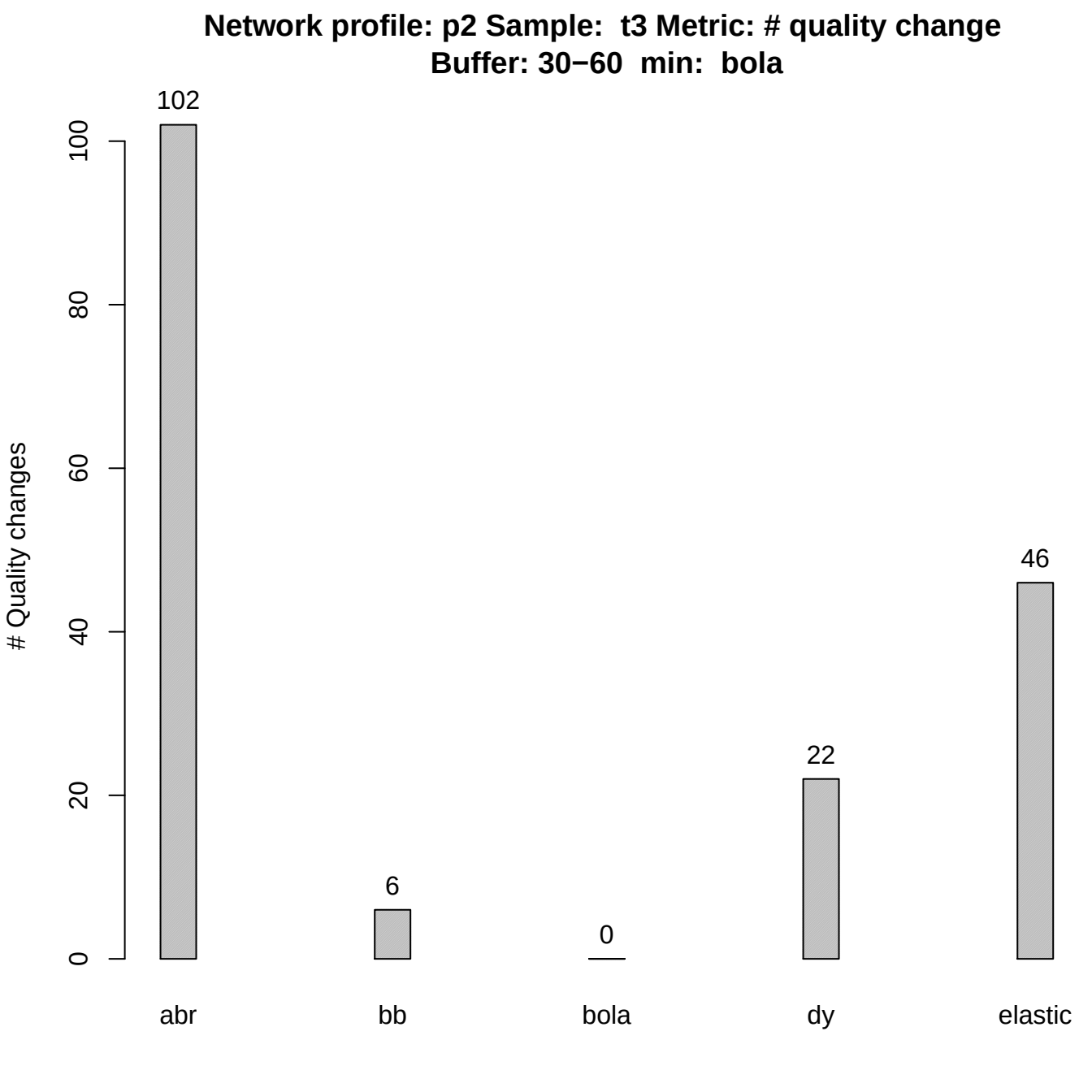

Network profile: p2 Sample: t2 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2868.67
3195.12
1622
3284.01
3245.47
abr
bb
bola
dy
elastic

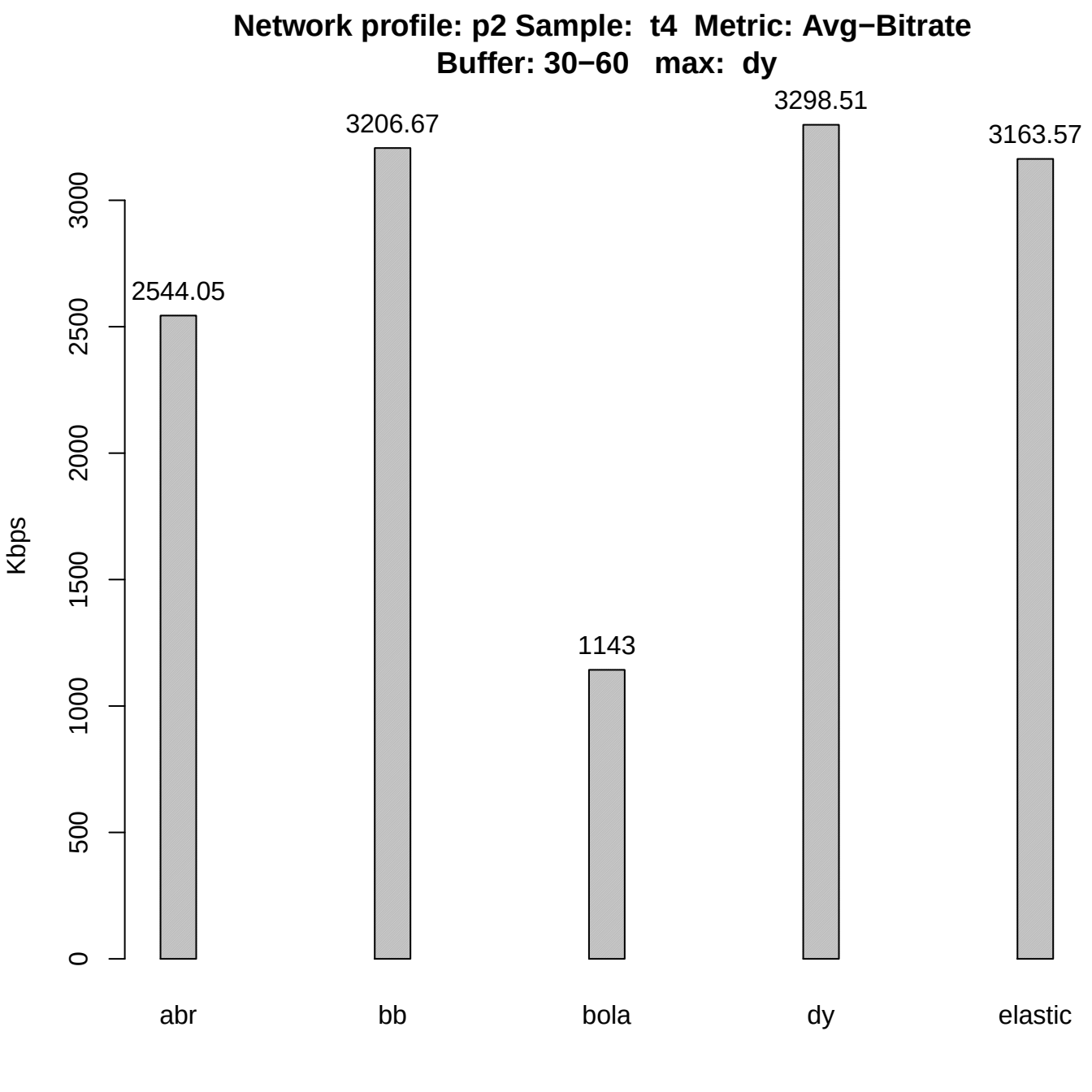

Network profile: p2 Sample: t2 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.21033
0.221388
0.426935
0.176483
0.173949
abr
bb
bola
dy
elastic

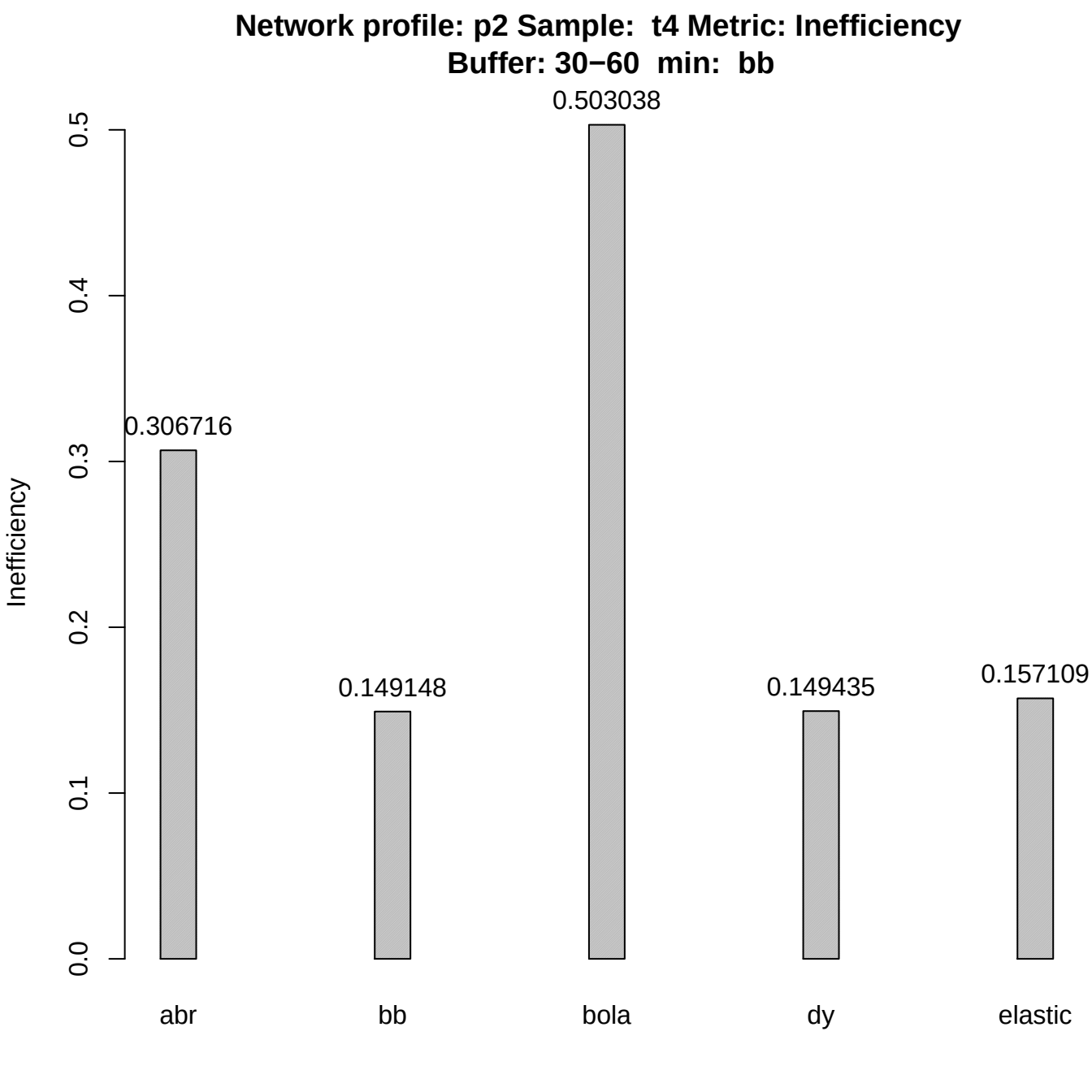

Network profile: p2 Sample: t2 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
82
8
0
26
14
abr
bb
bola
dy
elastic

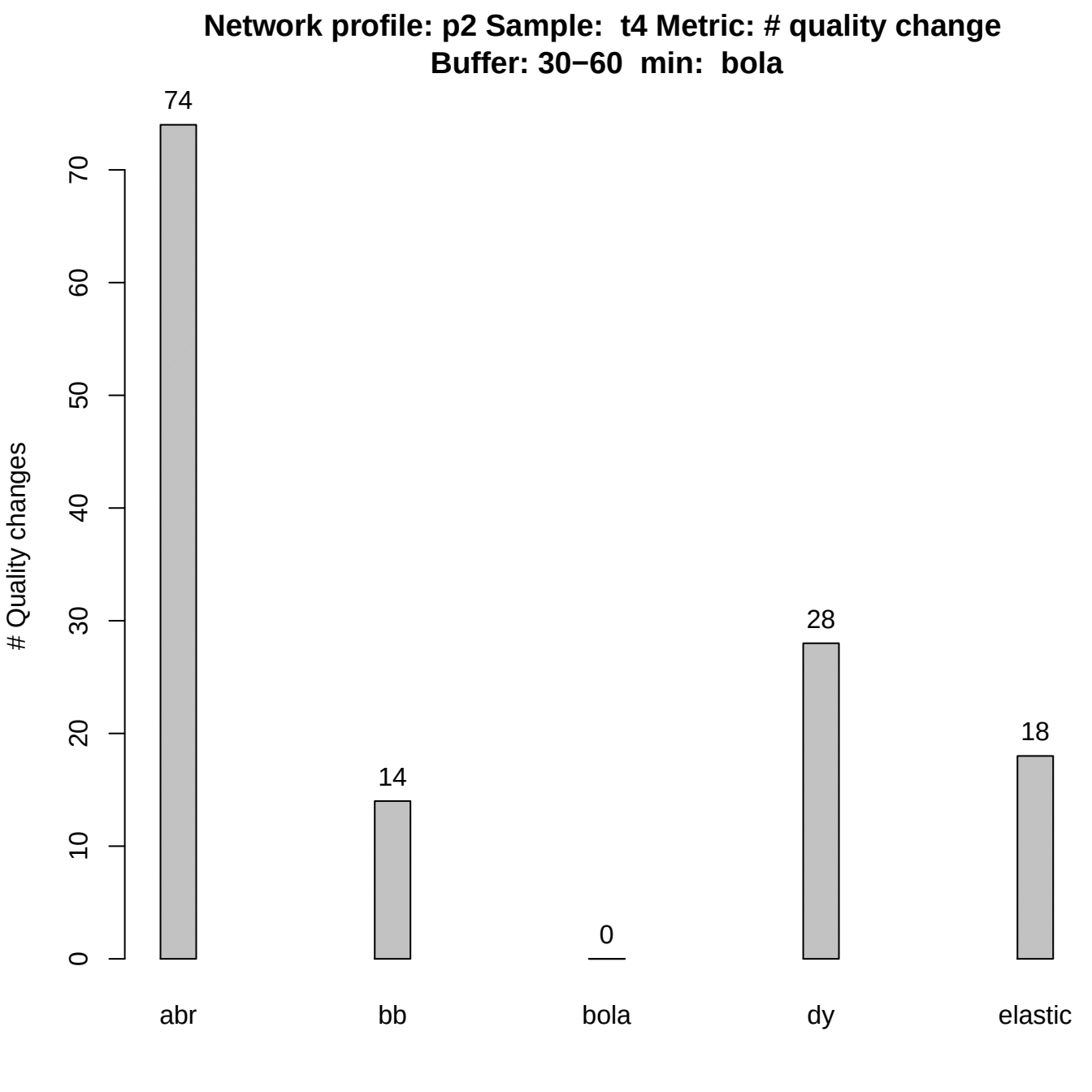

Network profile: p2 Sample: t3 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
500
1000
1500
2000
2500
3000
2624.08
3289.89
1198
3270.93
3269.5
abr
bb
bola
dy
elastic

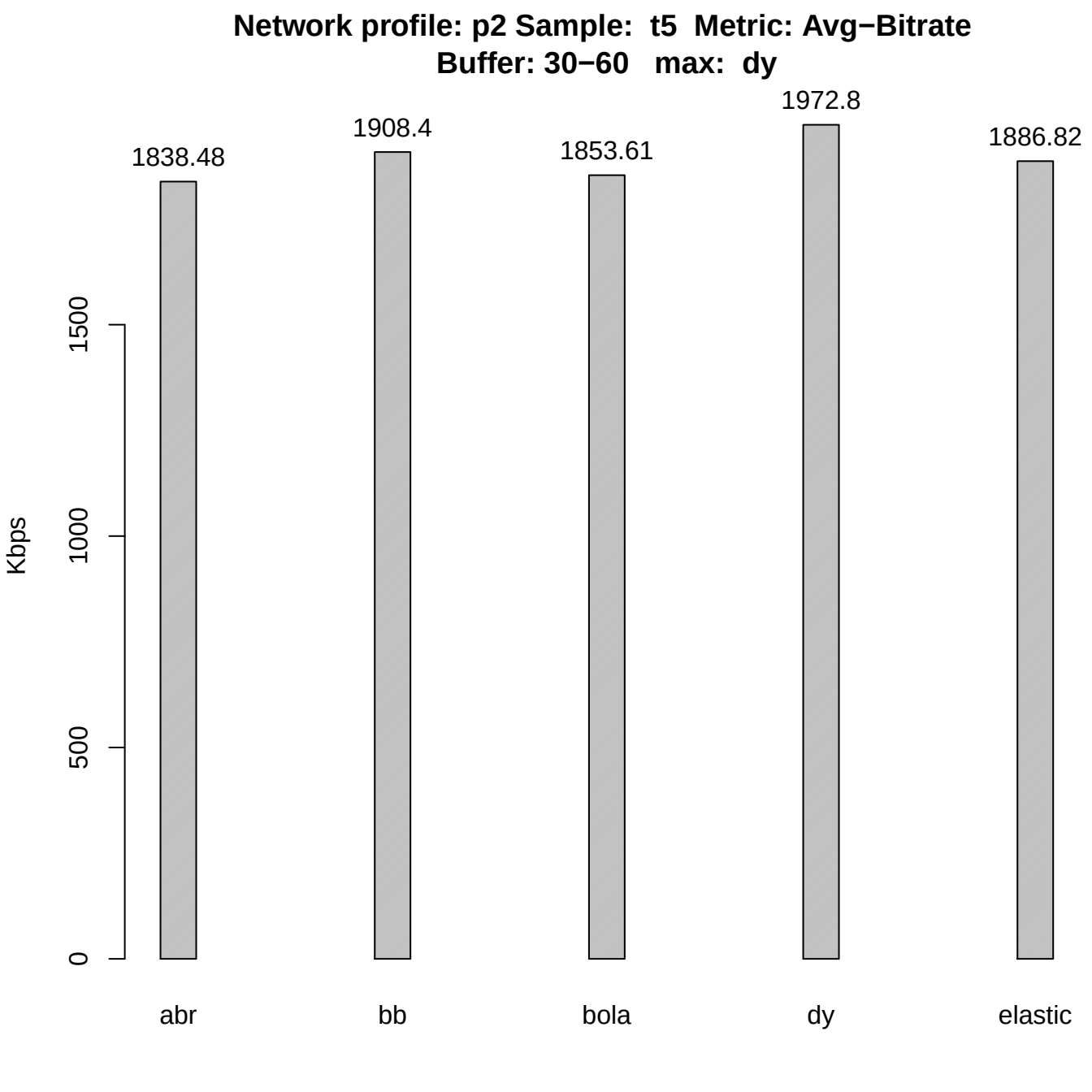

Network profile: p2 Sample: t3 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.290454
0.227514
0.495958
0.220642
0.212224
abr
bb
bola
dy
elastic

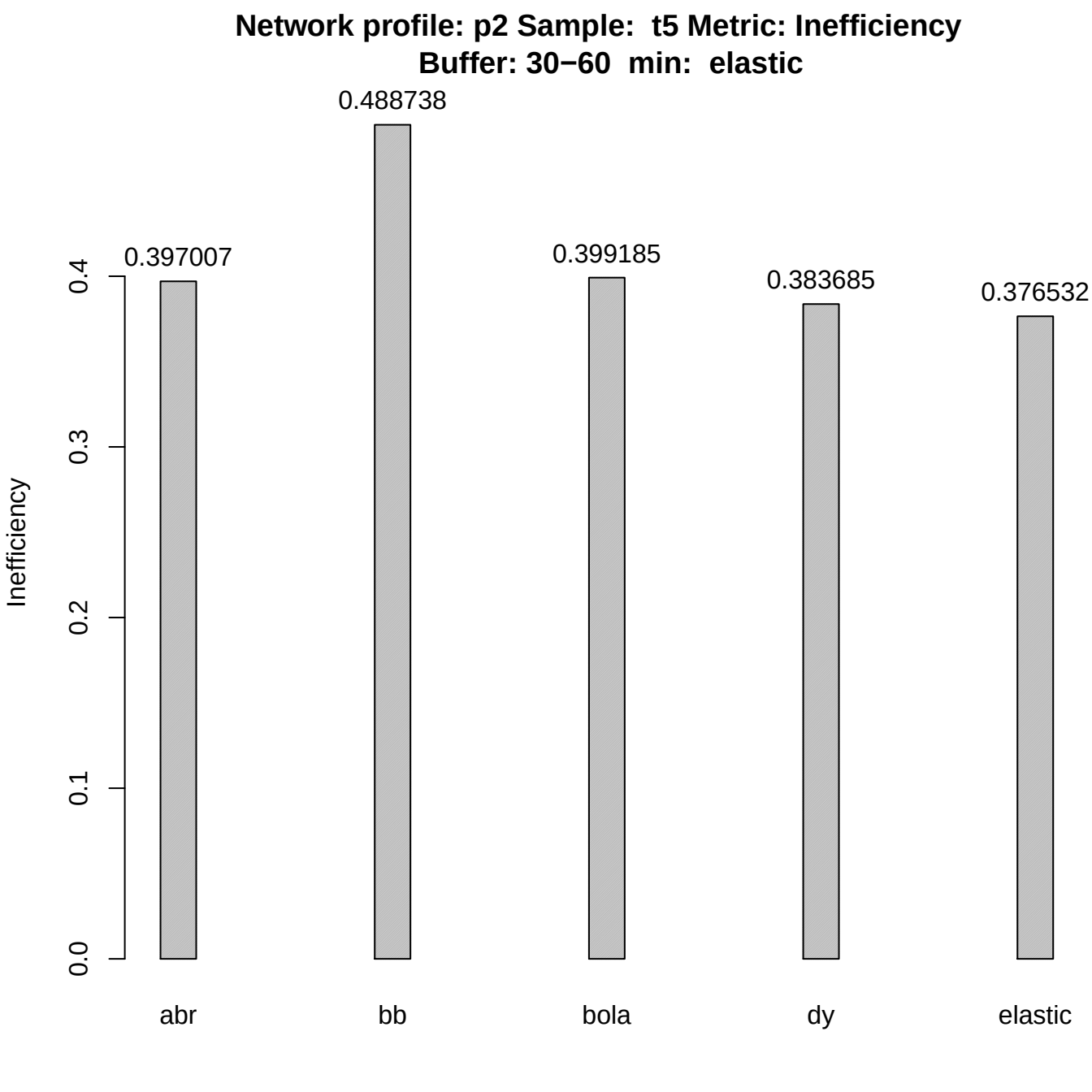

Network profile: p2 Sample: t3 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
102
6
0
22
46
abr
bb
bola
dy
elastic

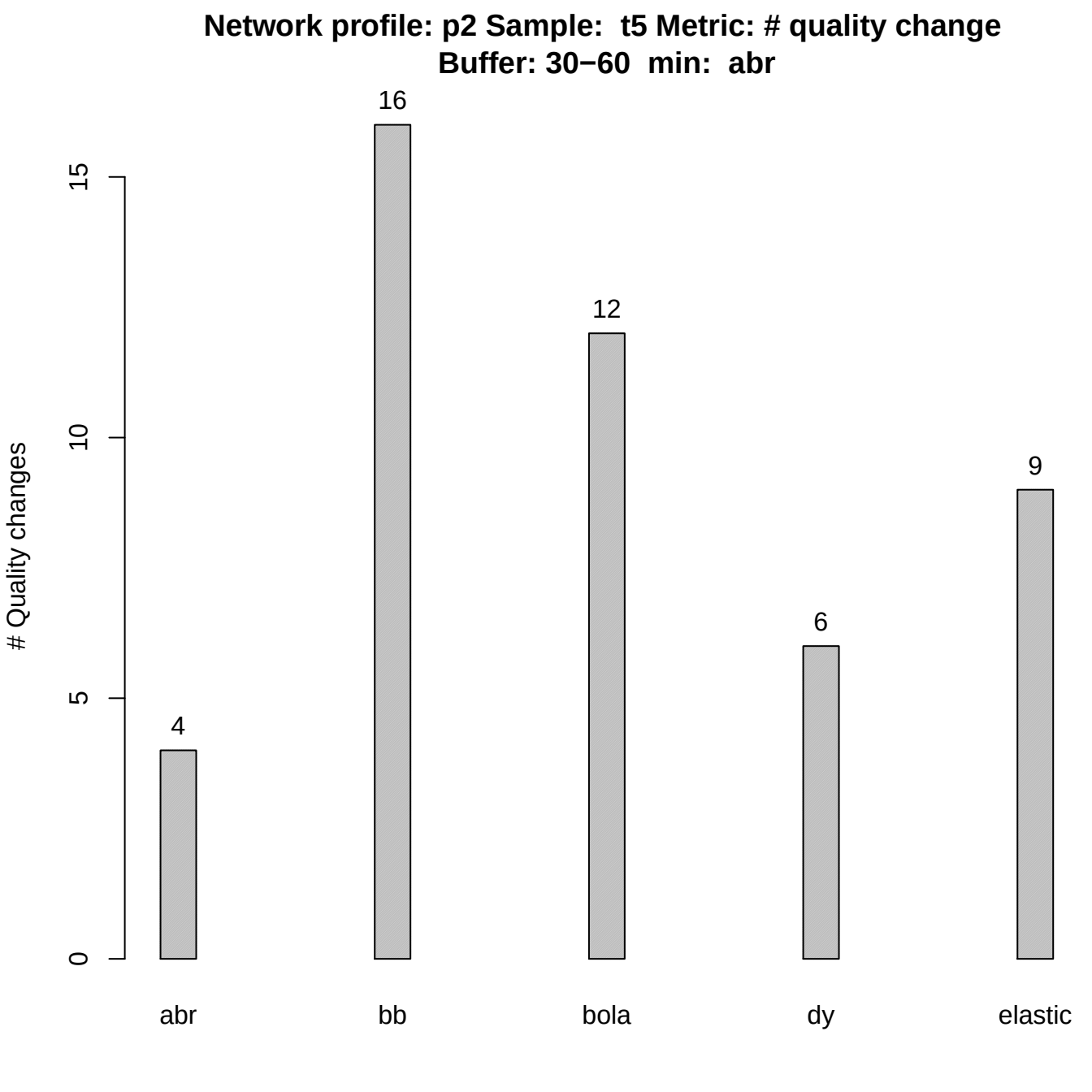

Network profile: p2 Sample: t4 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
3000
2544.05
3206.67
1143
3298.51
3163.57
abr
bb
bola
dy
elastic

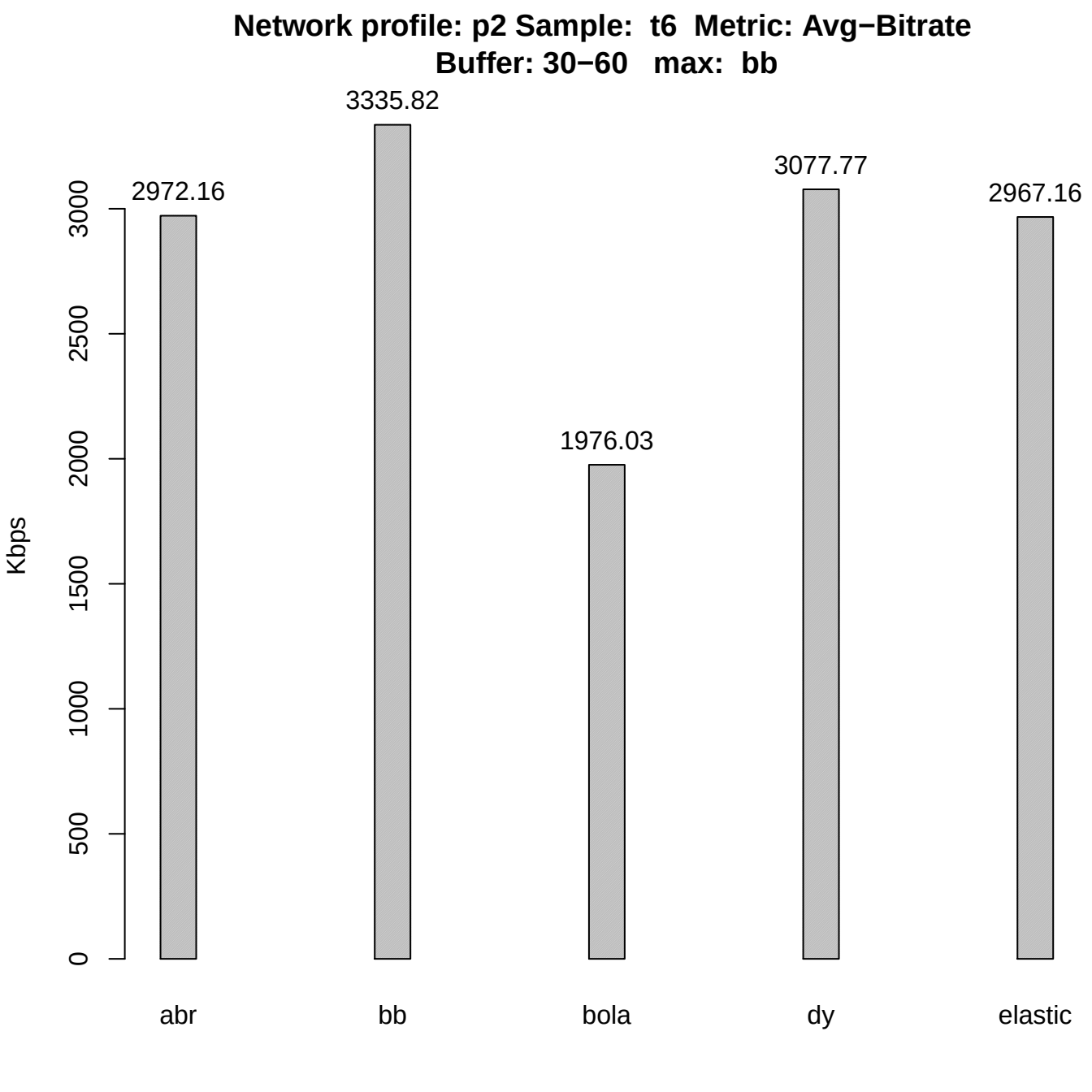

Network profile: p2 Sample: t4 Metric: Inefficiency
Buffer: 30−60 min: bb
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.5
0.306716
0.149148
0.503038
0.149435
0.157109
abr
bb
bola
dy
elastic

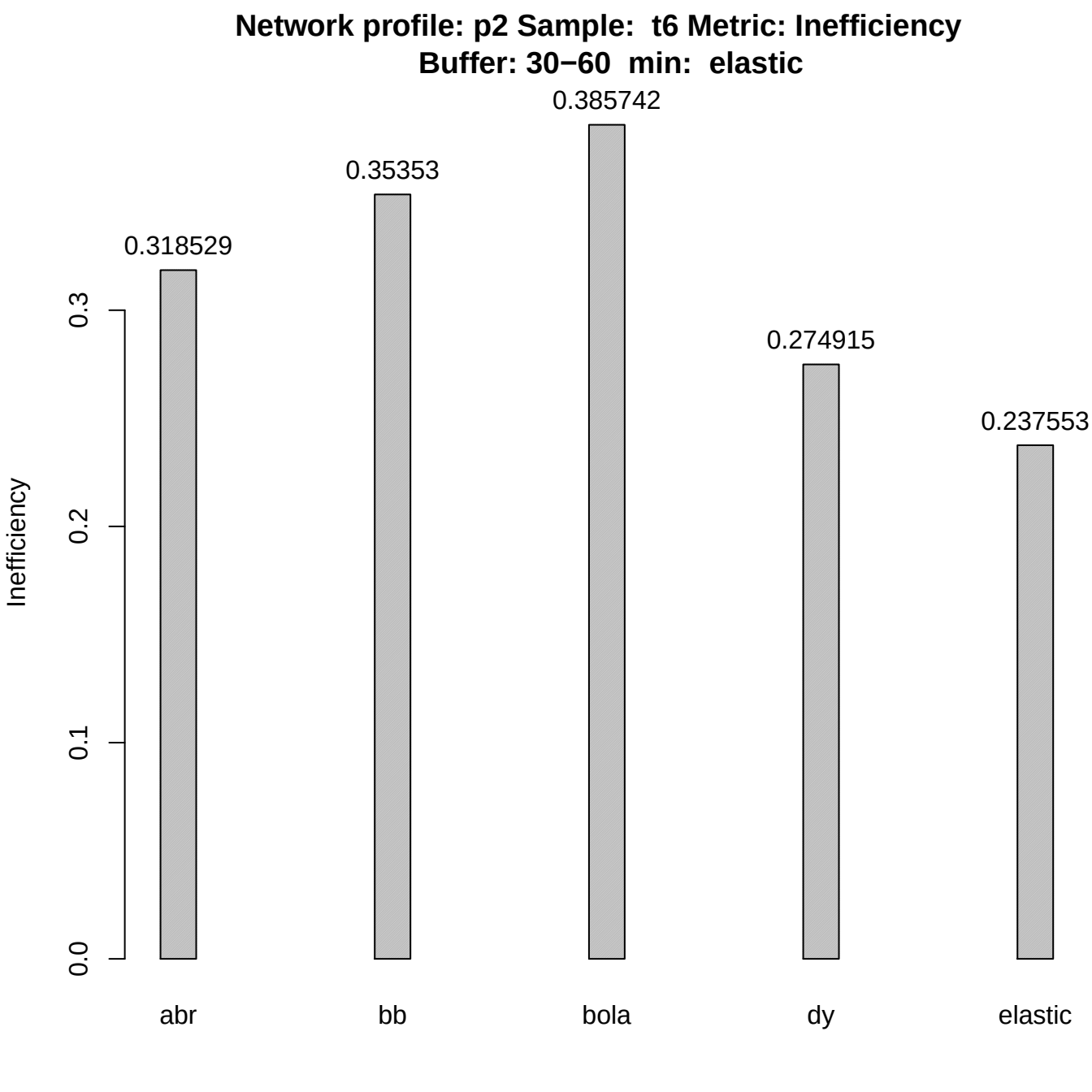

Network profile: p2 Sample: t4 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
10
20
30
40
50
60
70
74
14
0
28
18
abr
bb
bola
dy
elastic

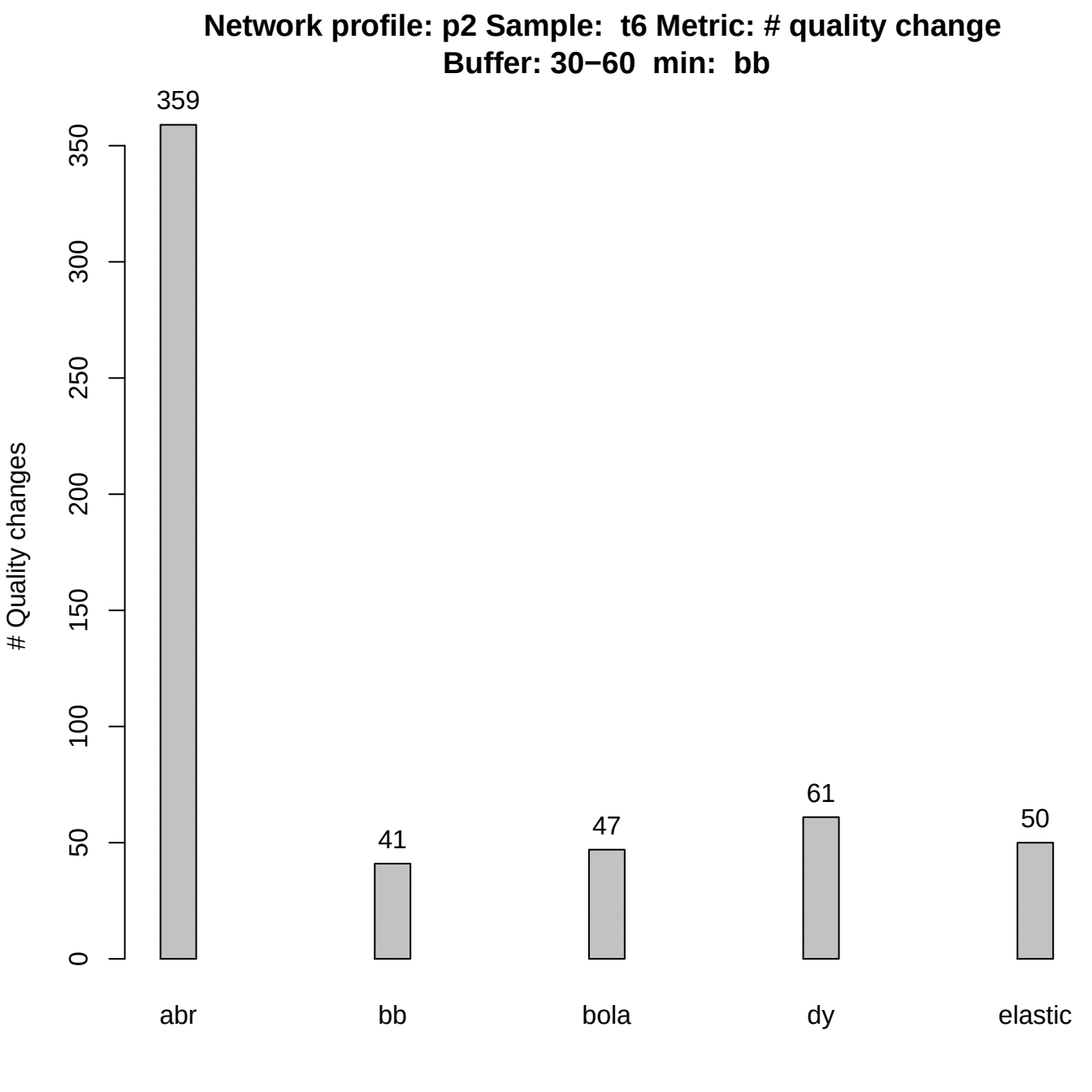

Network profile: p2 Sample: t5 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
1838.48
1908.4
1853.61
1972.8
1886.82
abr
bb
bola
dy
elastic

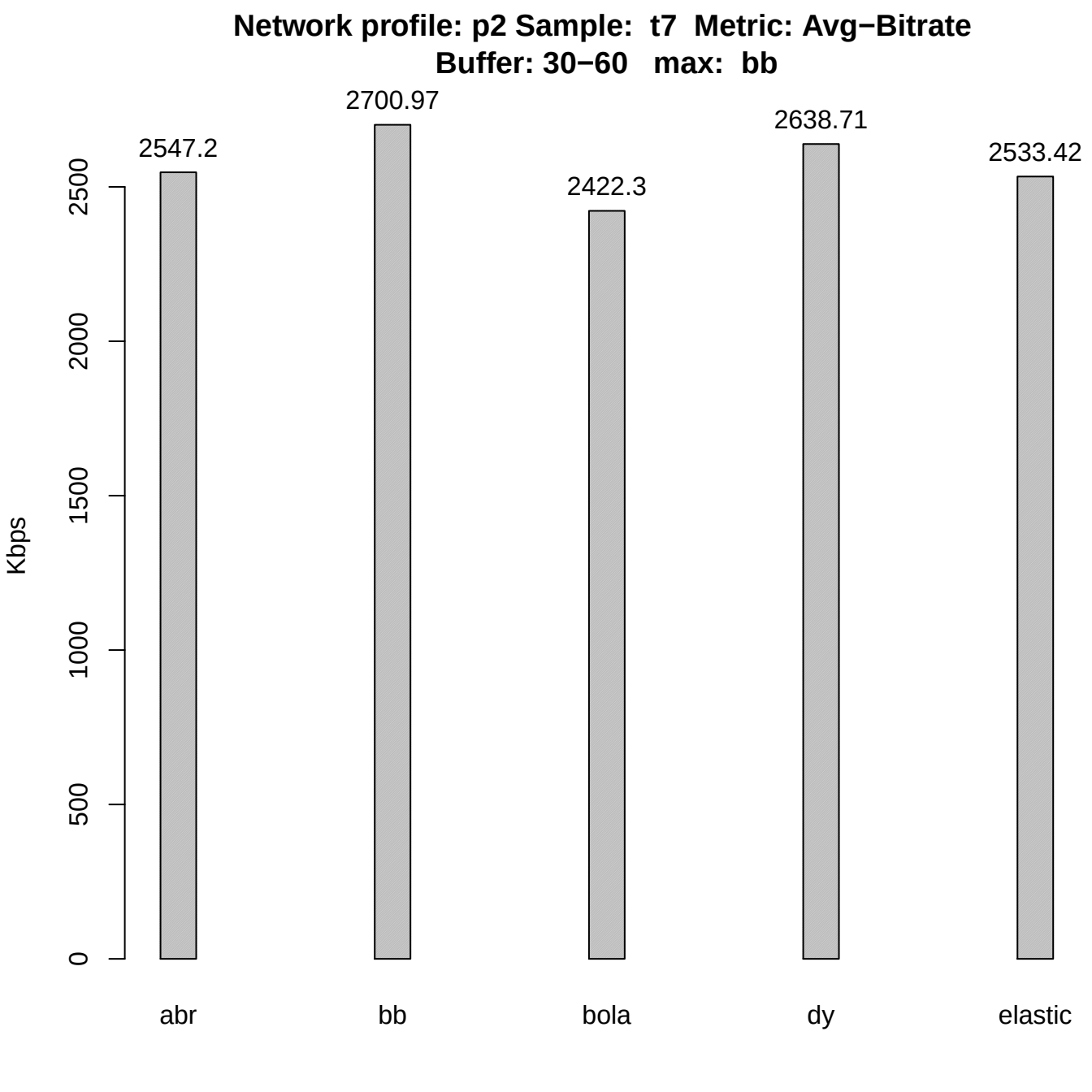

Network profile: p2 Sample: t5 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.397007
0.488738
0.399185
0.383685
0.376532
abr
bb
bola
dy
elastic

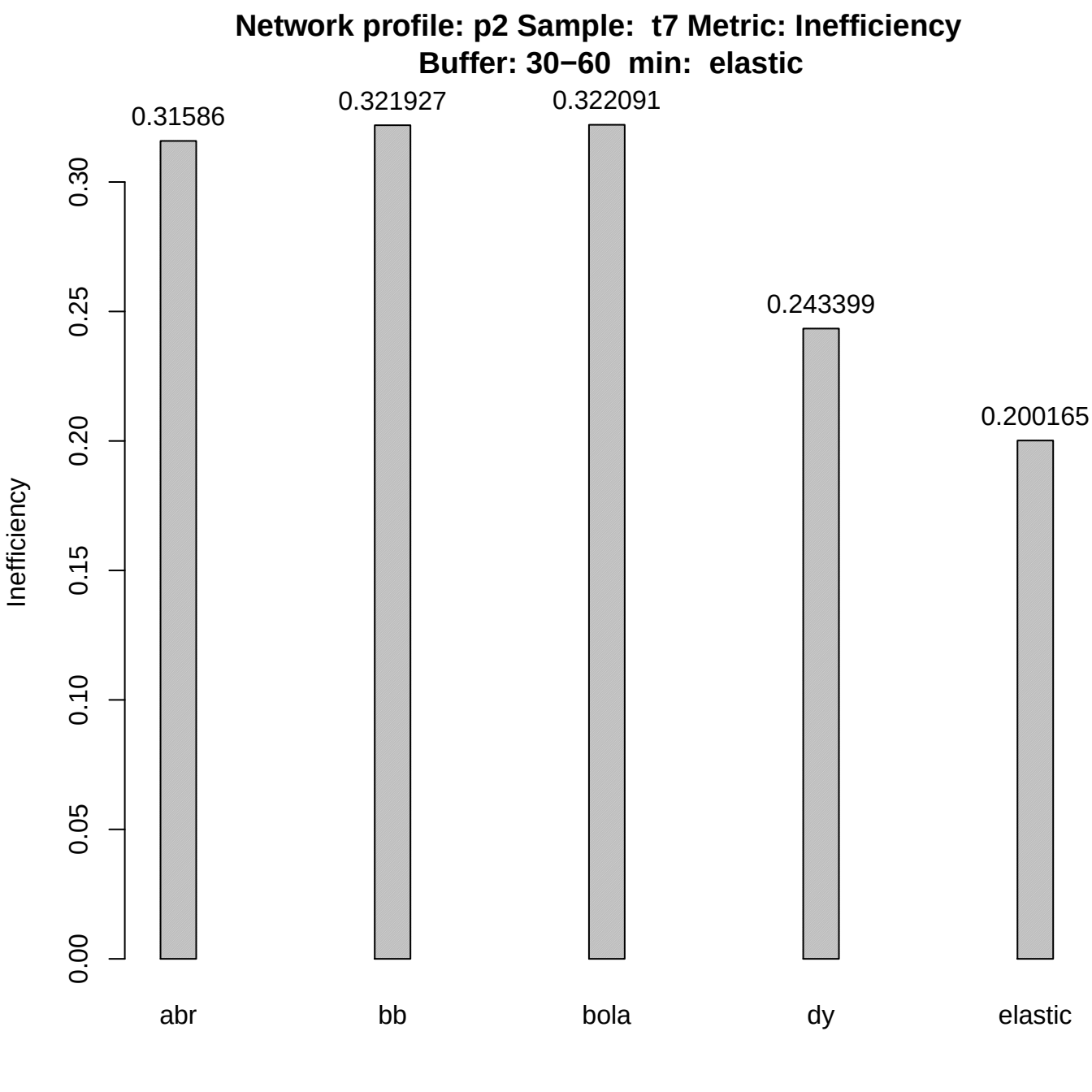

Network profile: p2 Sample: t5 Metric: # quality change
Buffer: 30−60 min: abr
Quality changes
0
5
10
15
4
16
12
6
9
abr
bb
bola
dy
elastic

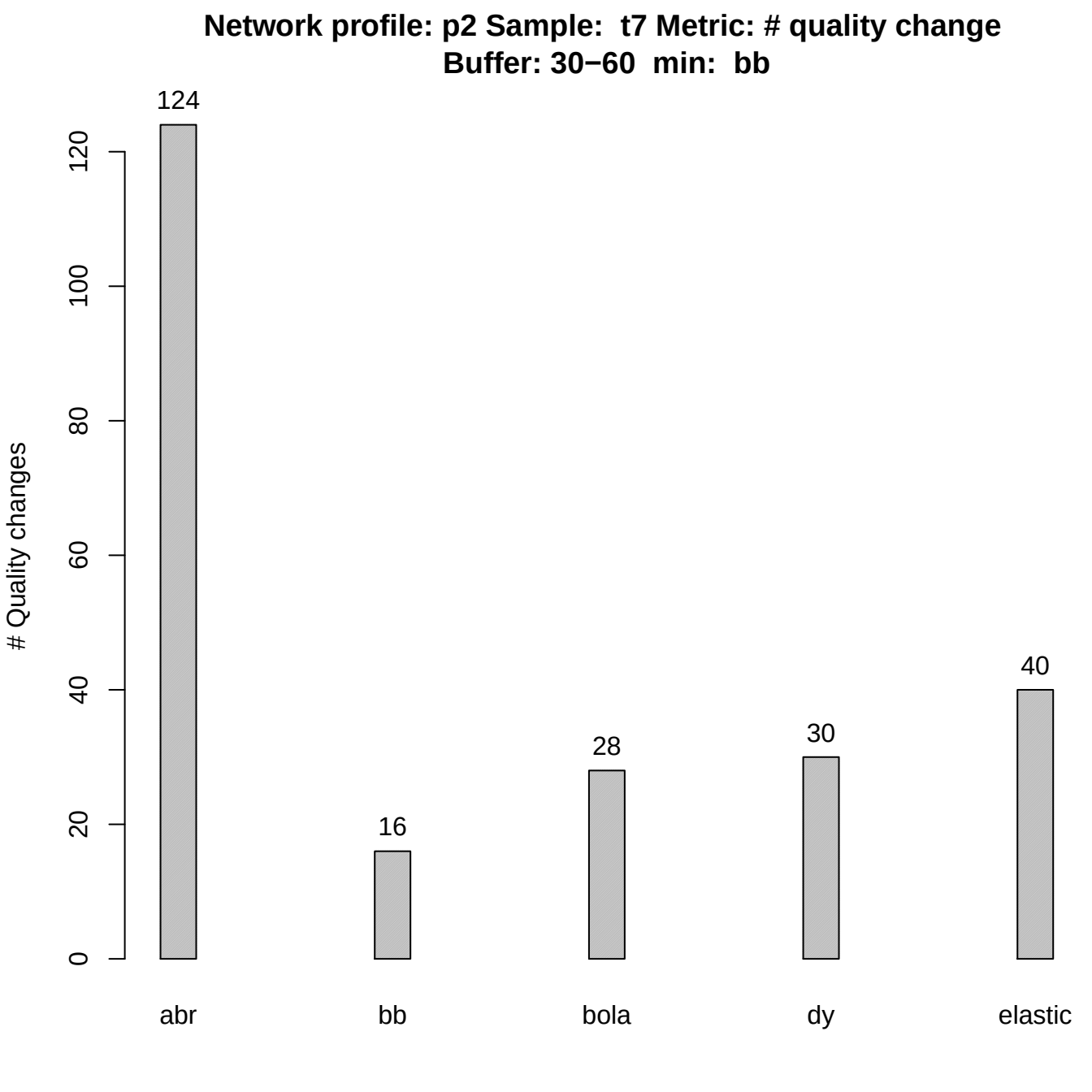

Network profile: p2 Sample: t6 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
500
1000
1500
2000
2500
3000
2972.16
3335.82
1976.03
3077.77
2967.16
abr
bb
bola
dy
elastic

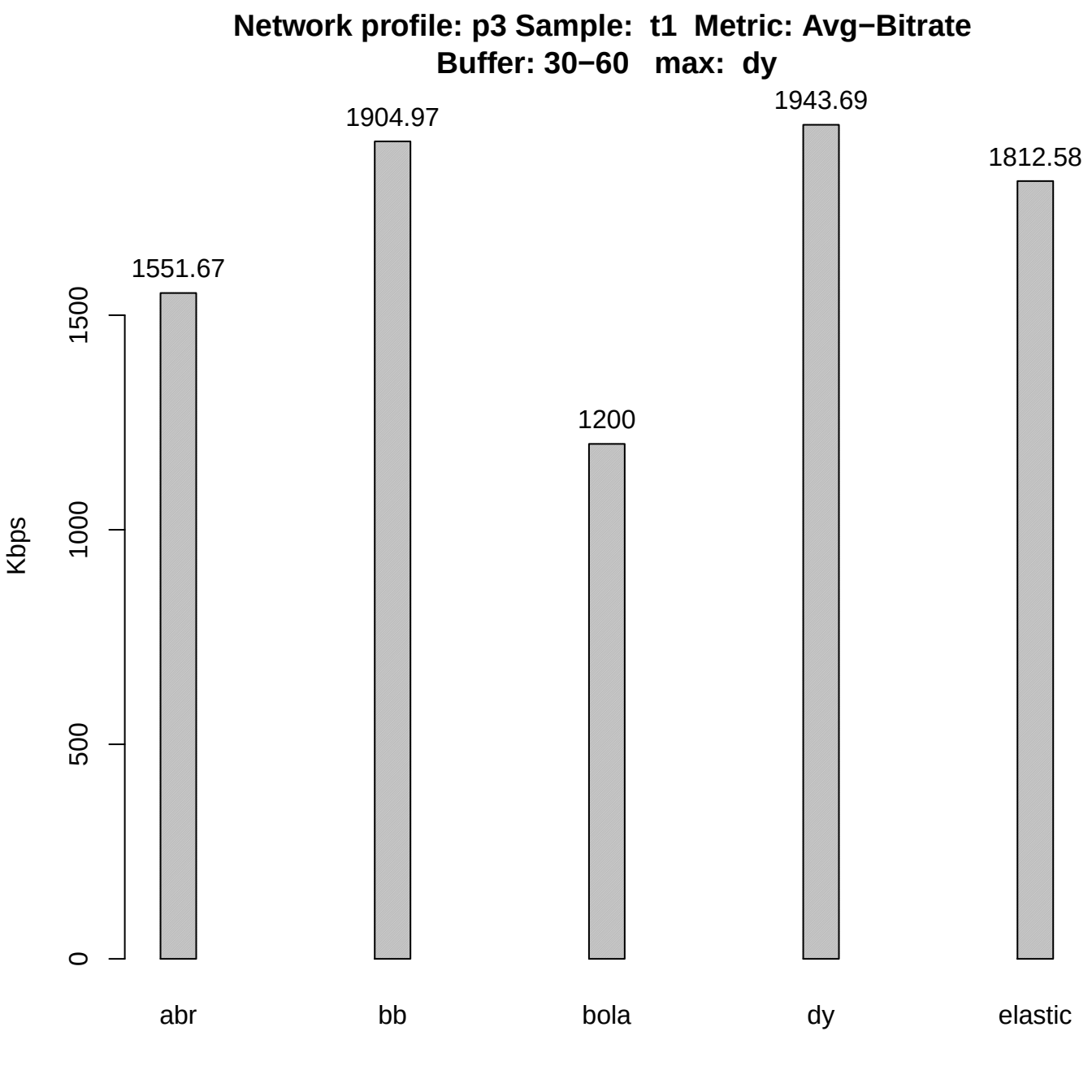

Network profile: p2 Sample: t6 Metric: Inefficiency
Buffer: 30−60 min: elastic
0.318529
0.35353
0.385742
0.274915
0.237553
Inefficiency
0.0
0.1
0.2
0.3
abr
bb
bola
dy
elastic

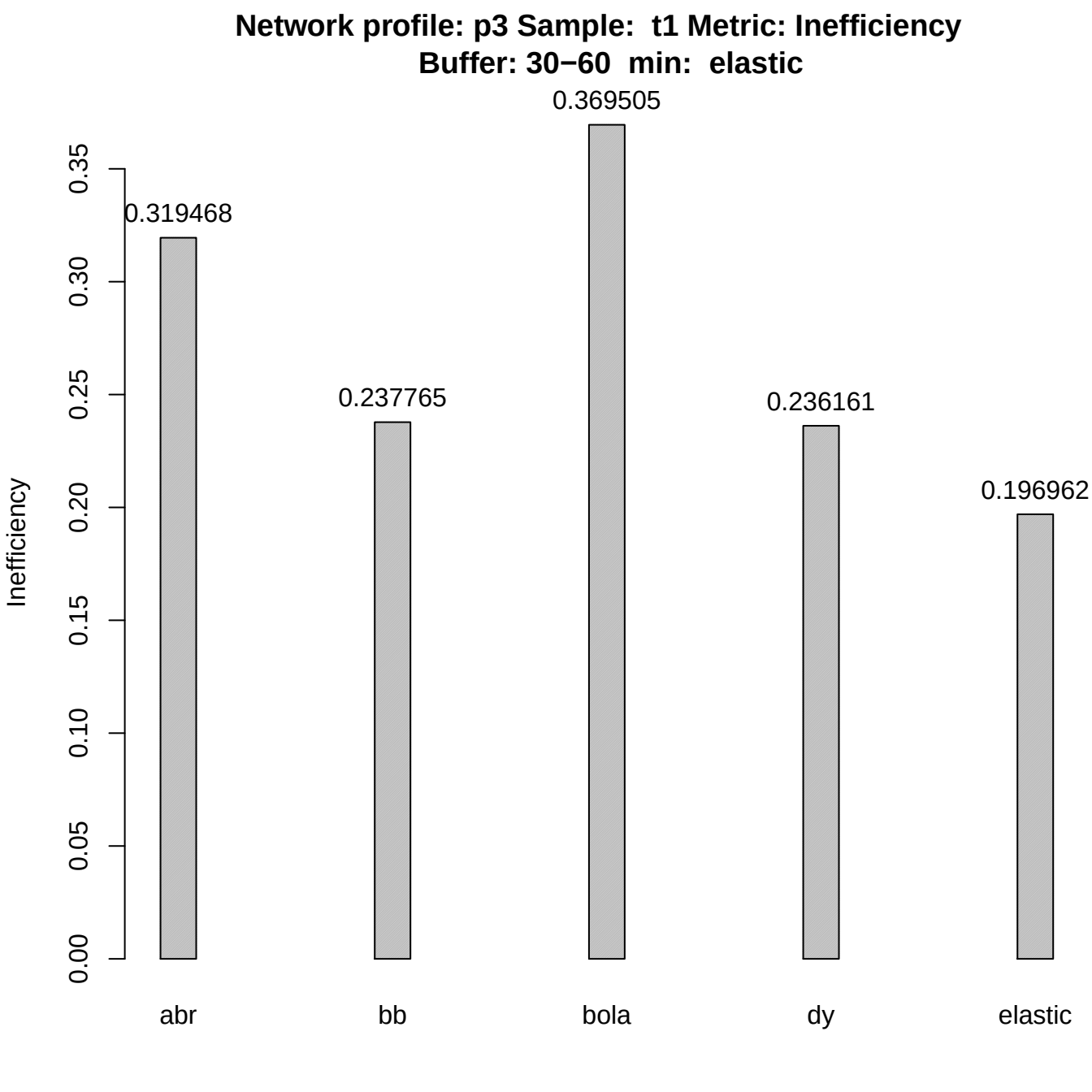

Network profile: p2 Sample: t6 Metric: # quality change
Buffer: 30−60 min: bb
Quality changes
0
50
100
150
200
250
300
350
359
41
47
61
50
abr
bb
bola
dy
elastic

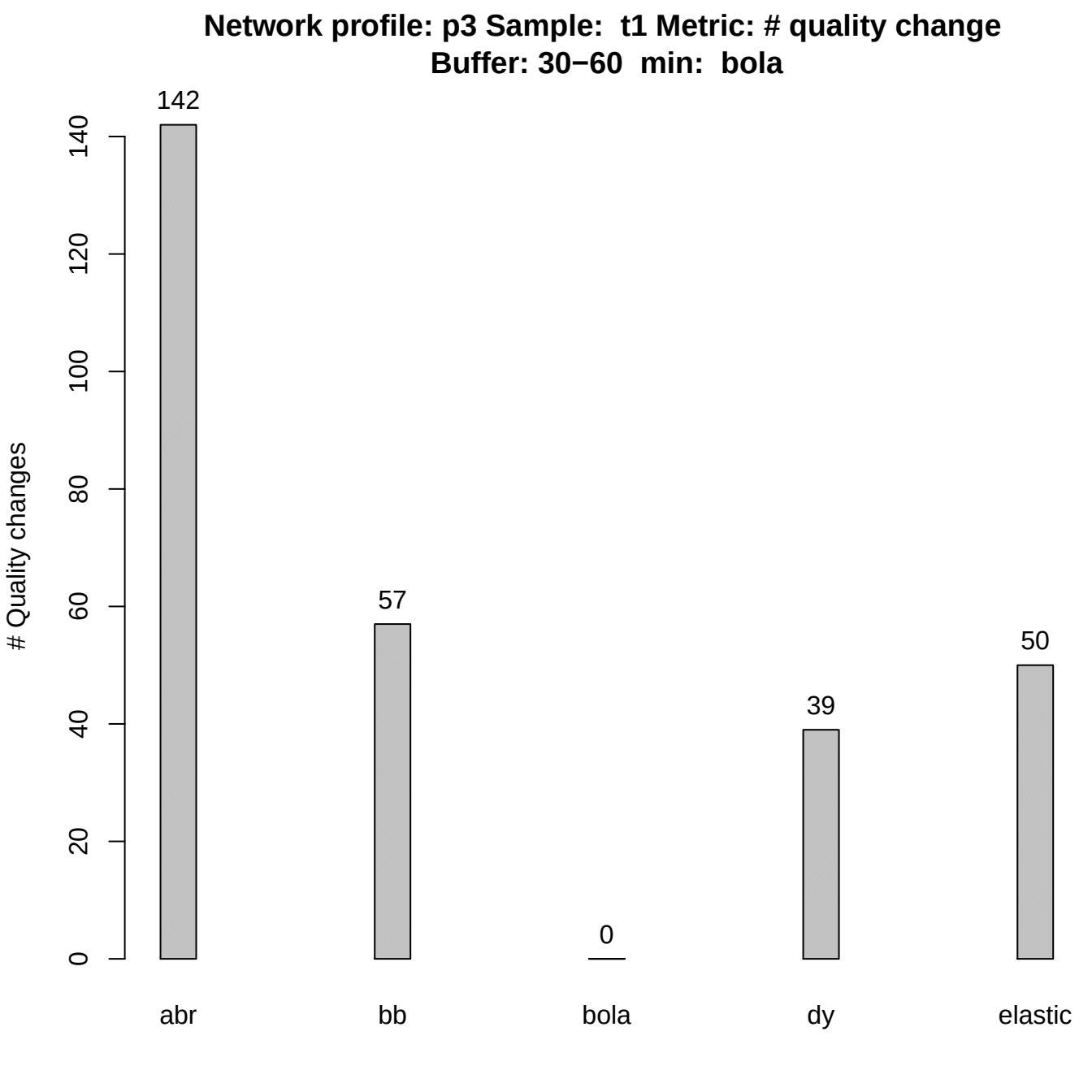

Network profile: p2 Sample: t7 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
500
1000
1500
2000
2500
2547.2
2700.97
2422.3
2638.71
2533.42
abr
bb
bola
dy
elastic

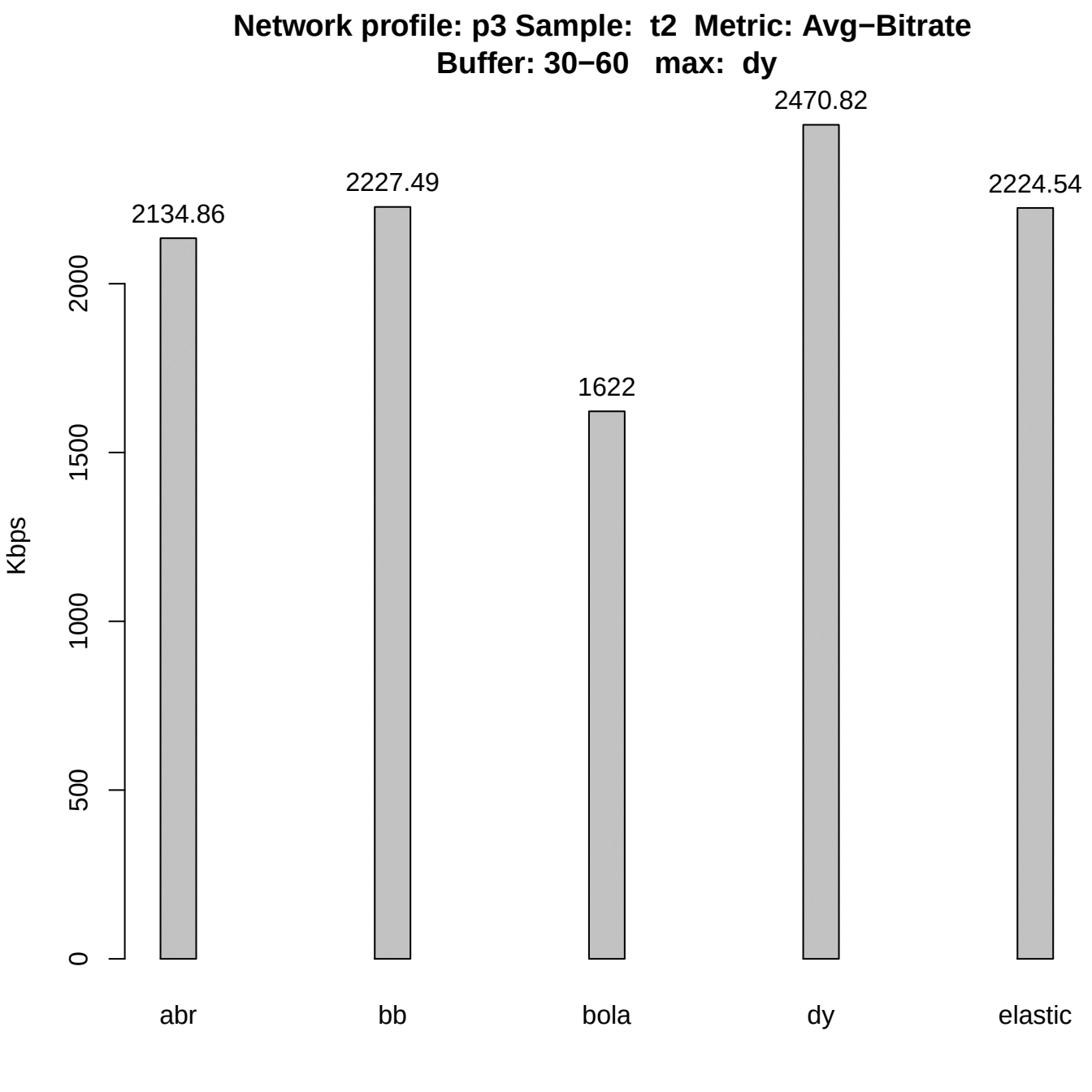

Network profile: p2 Sample: t7 Metric: Inefficiency
Buffer: 30−60 min: elastic
0.31586
0.321927
0.322091
0.243399
0.200165
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
abr
bb
bola
dy
elastic

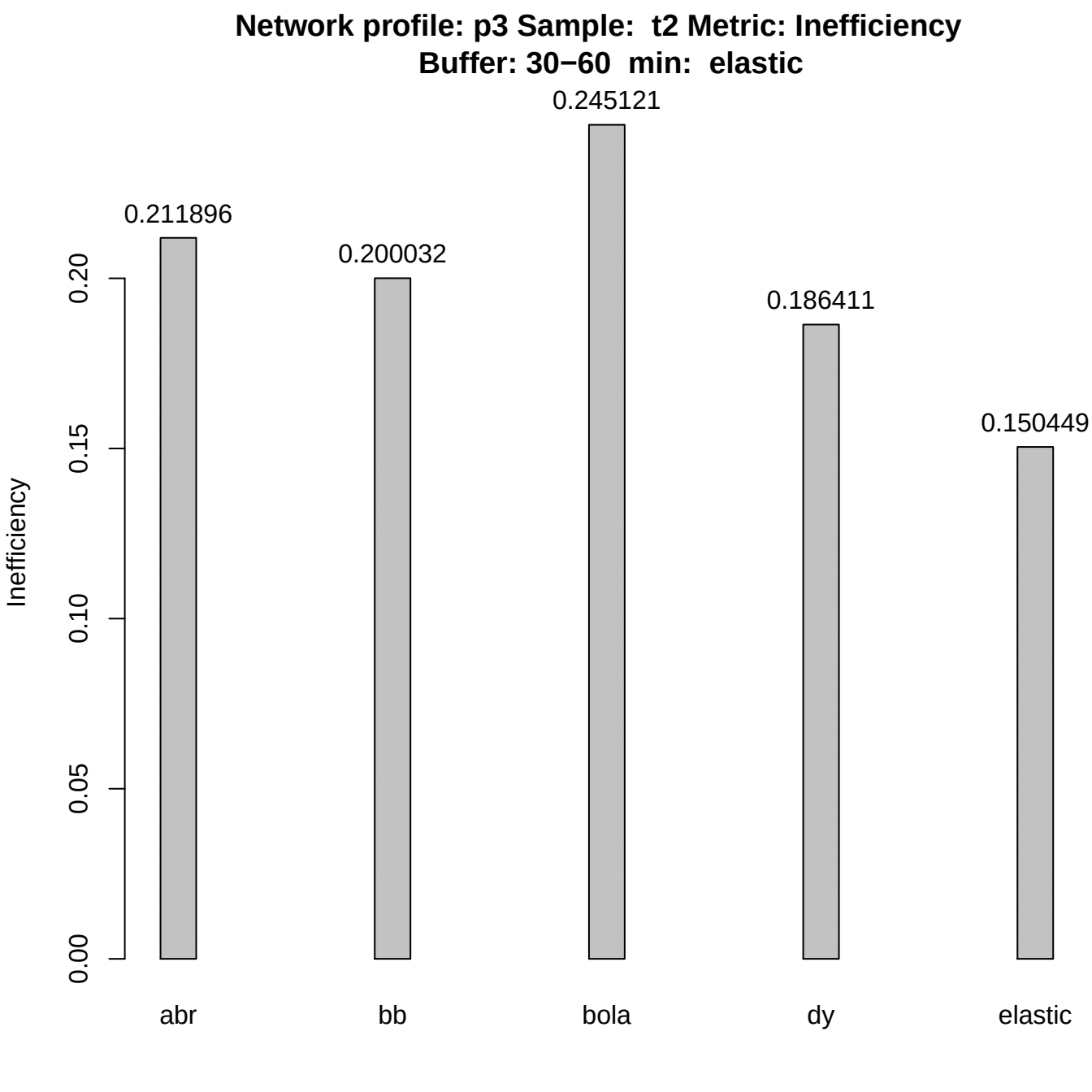

Network profile: p2 Sample: t7 Metric: # quality change
Buffer: 30−60 min: bb
Quality changes
0
20
40
60
80
100
120
124
16
28
30
40
abr
bb
bola
dy
elastic

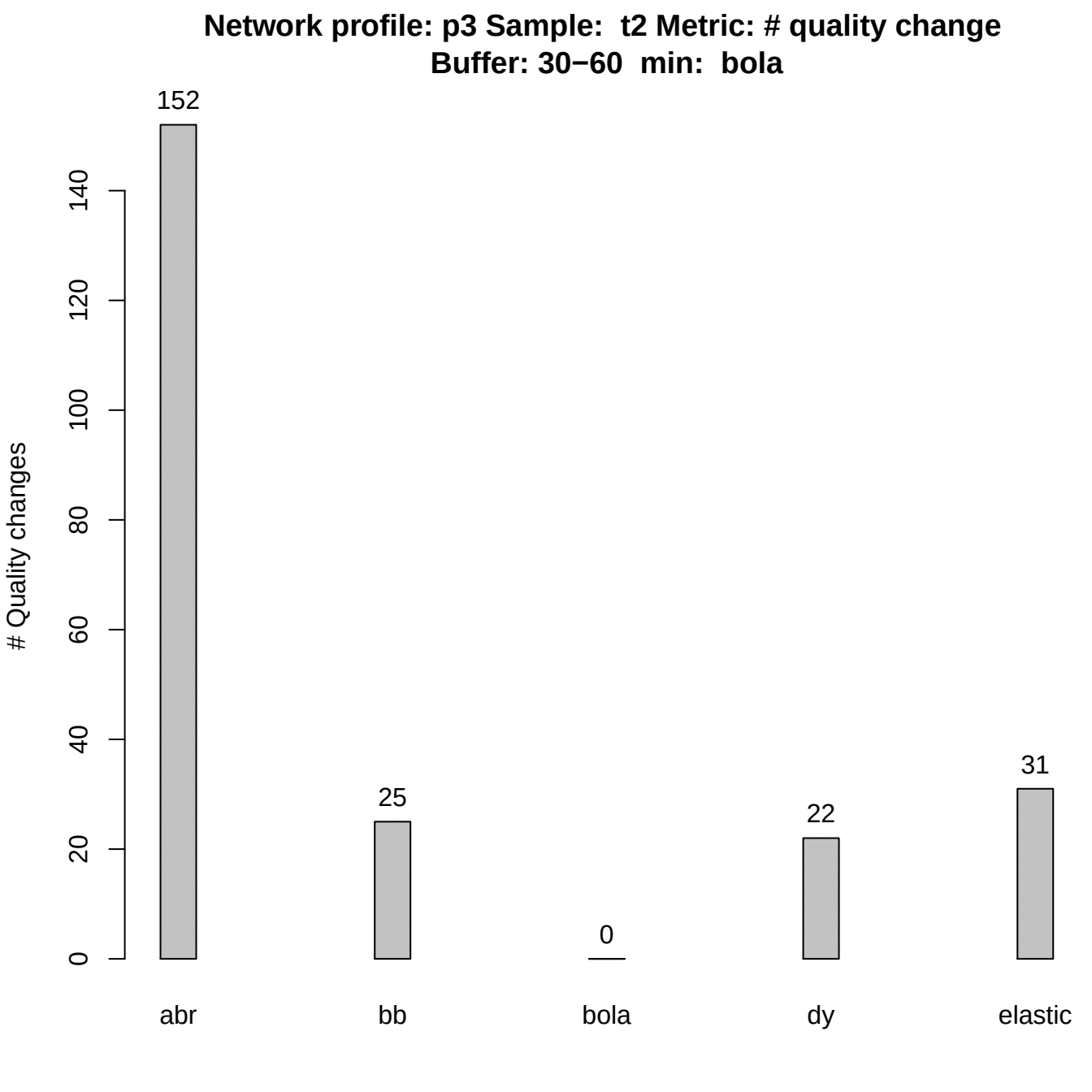

Network profile: p3 Sample: t1 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
1551.67
1904.97
1200
1943.69
1812.58
abr
bb
bola
dy
elastic

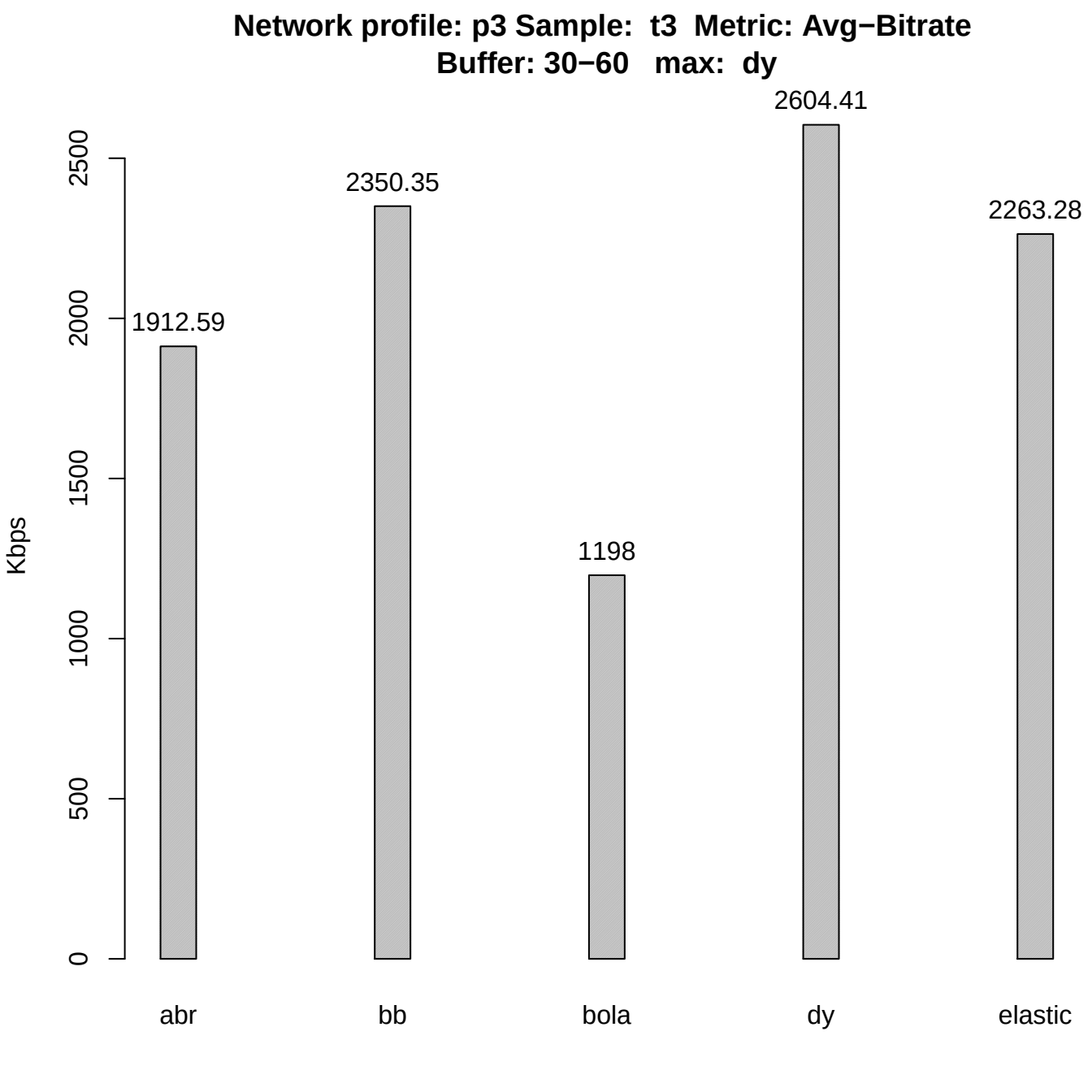

Network profile: p3 Sample: t1 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.319468
0.237765
0.369505
0.236161
0.196962
abr
bb
bola
dy
elastic

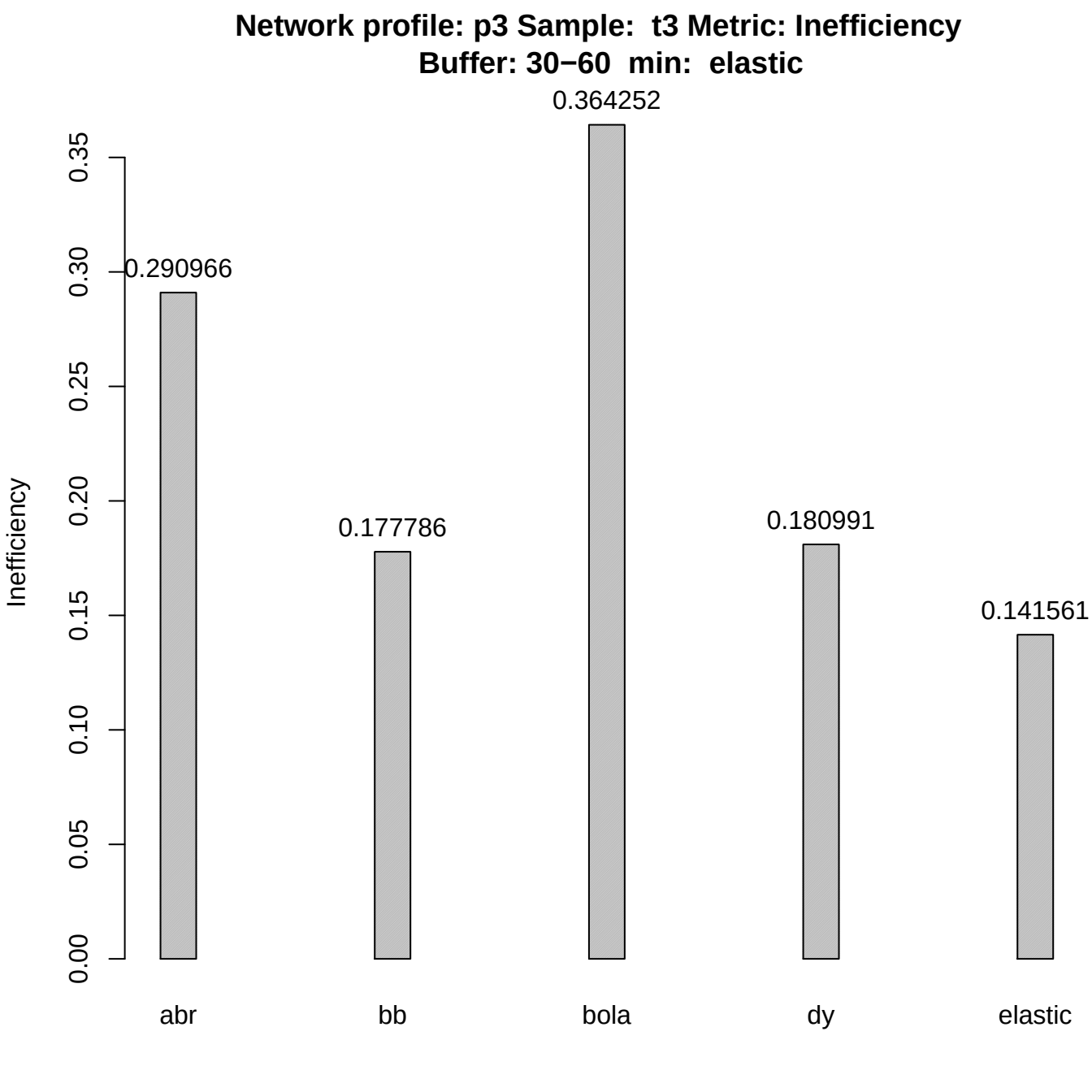

Network profile: p3 Sample: t1 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
140
142
57
0
39
50
abr
bb
bola
dy
elastic

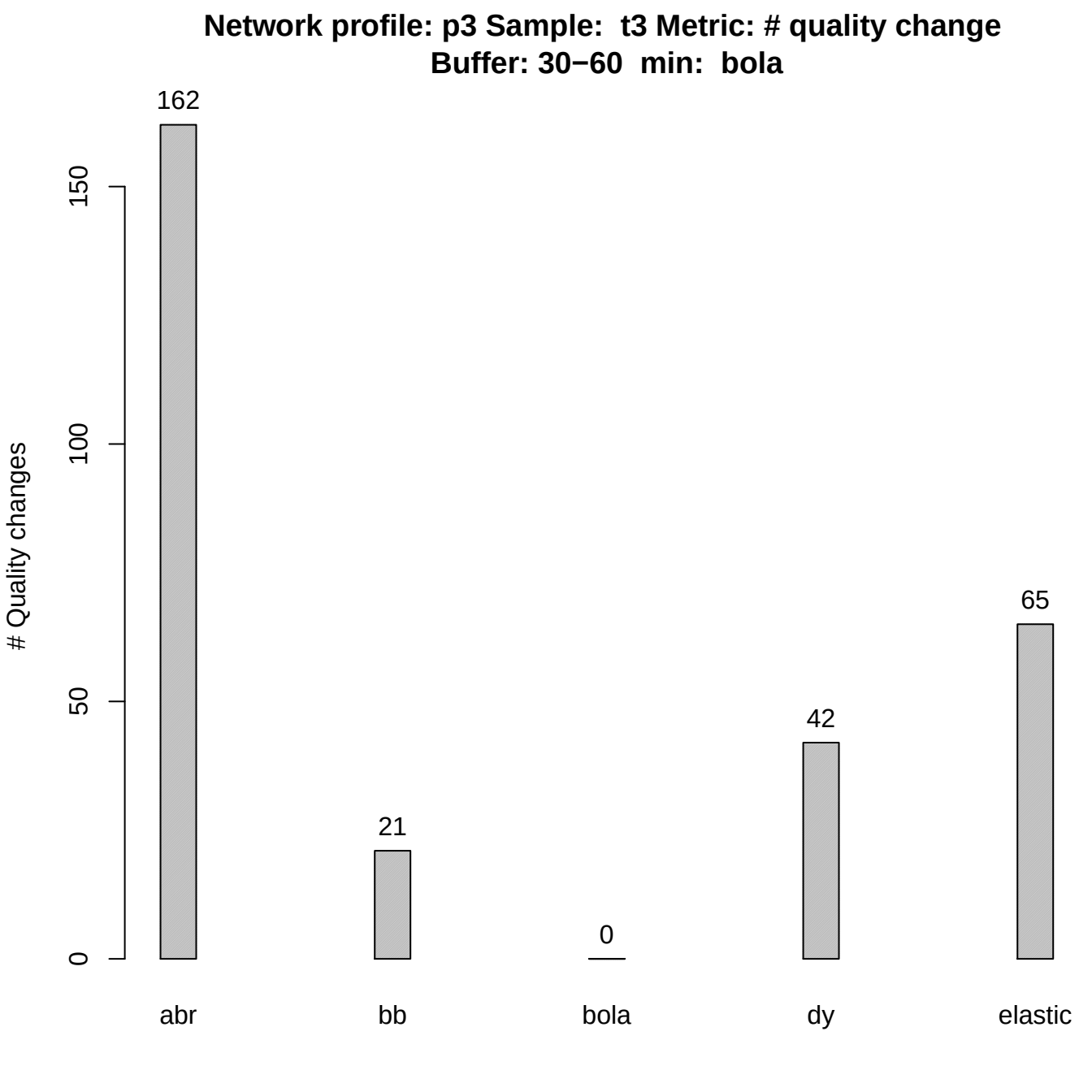

Network profile: p3 Sample: t2 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2134.86
2227.49
1622
2470.82
2224.54
abr
bb
bola
dy
elastic

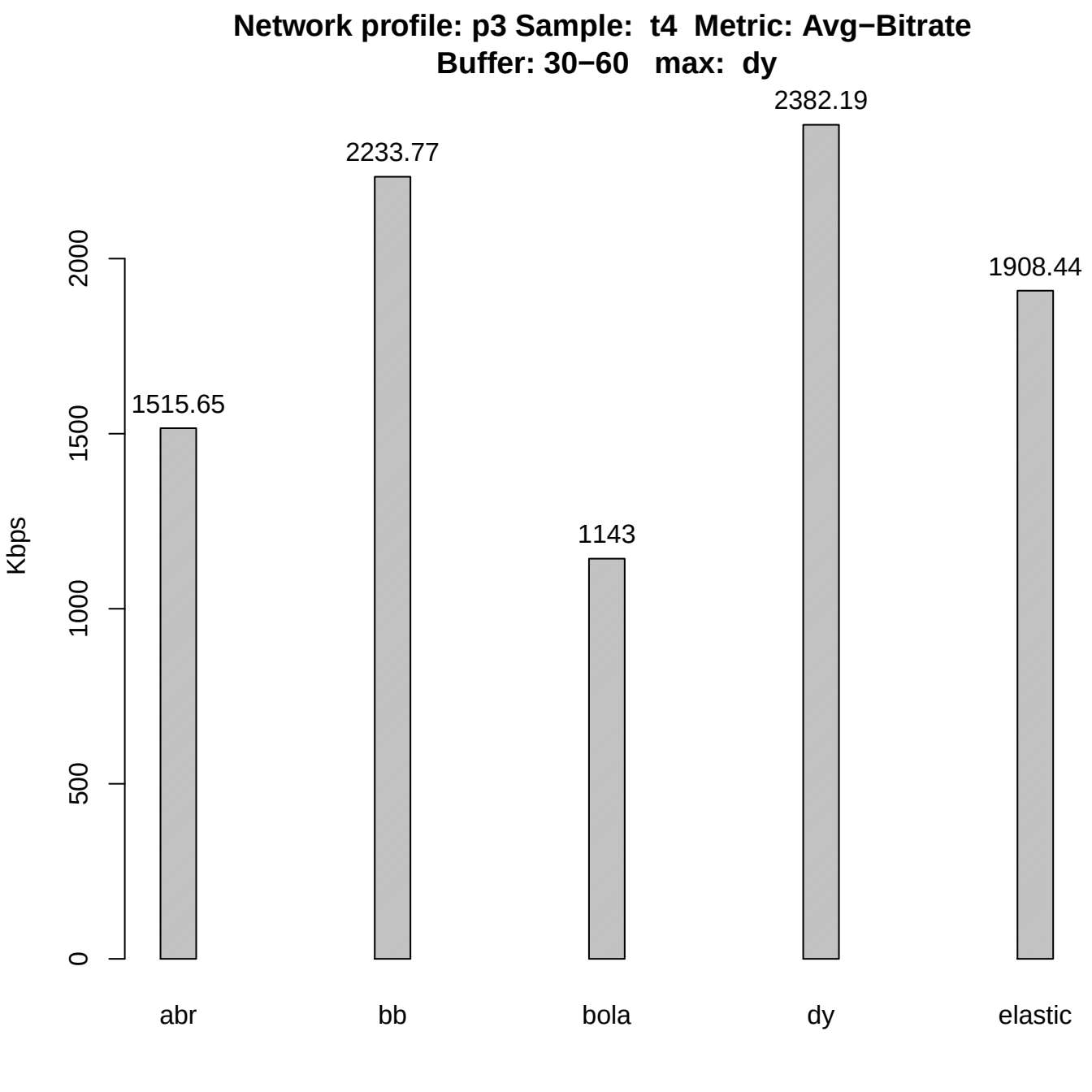

Network profile: p3 Sample: t2 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.211896
0.200032
0.245121
0.186411
0.150449
abr
bb
bola
dy
elastic

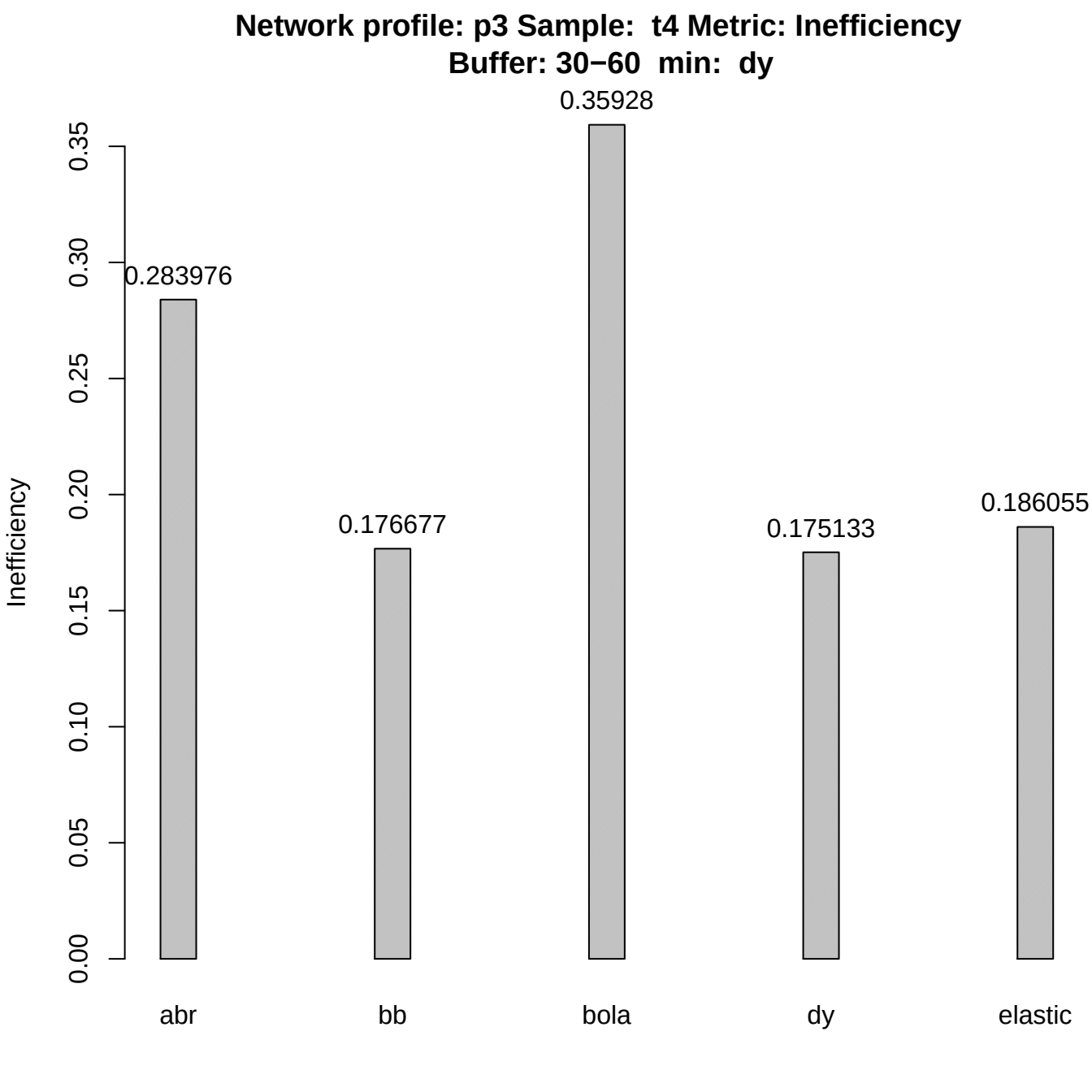

Network profile: p3 Sample: t2 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
140
152
25
0
22
31
abr
bb
bola
dy
elastic

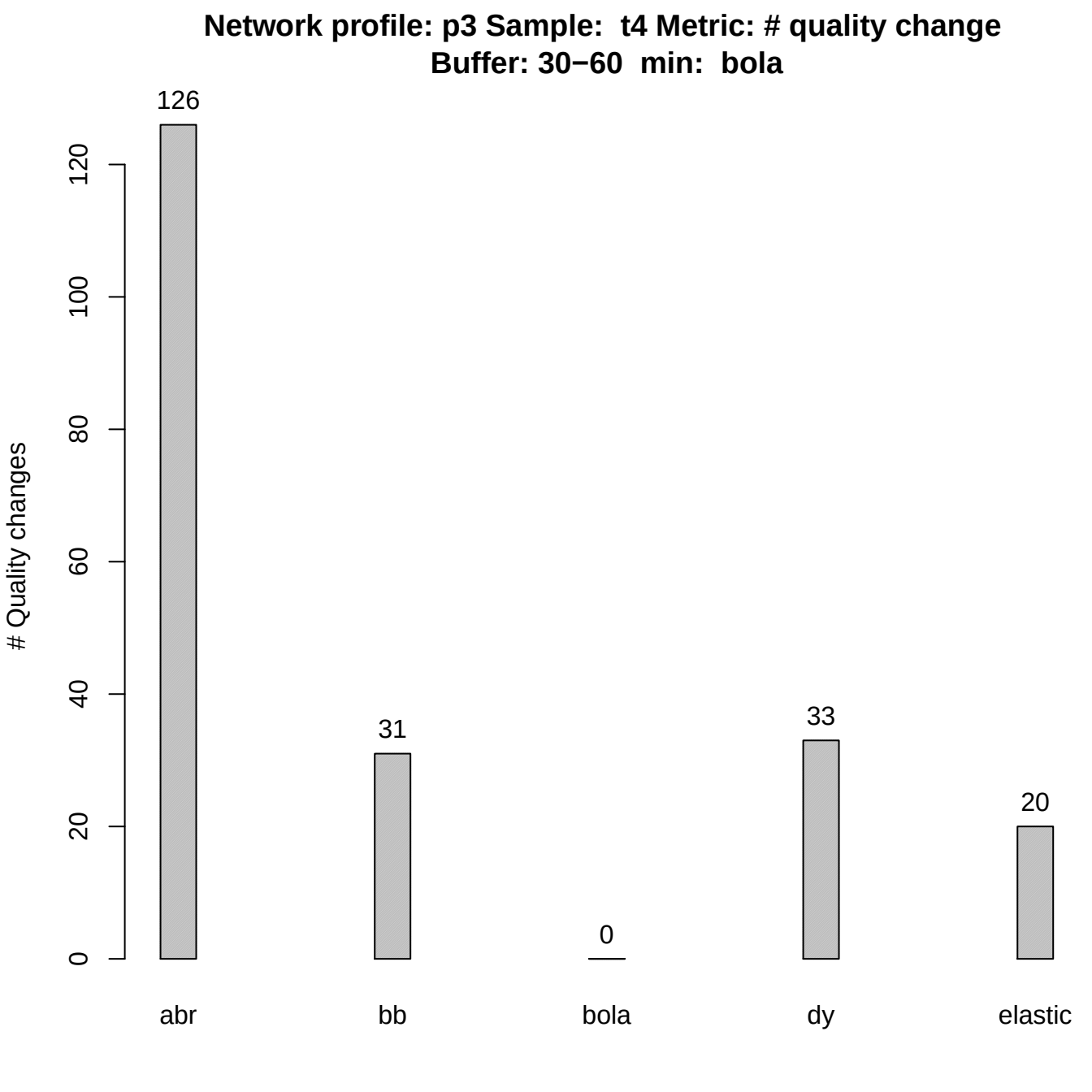

Network profile: p3 Sample: t3 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
2500
1912.59
2350.35
1198
2604.41
2263.28
abr
bb
bola
dy
elastic

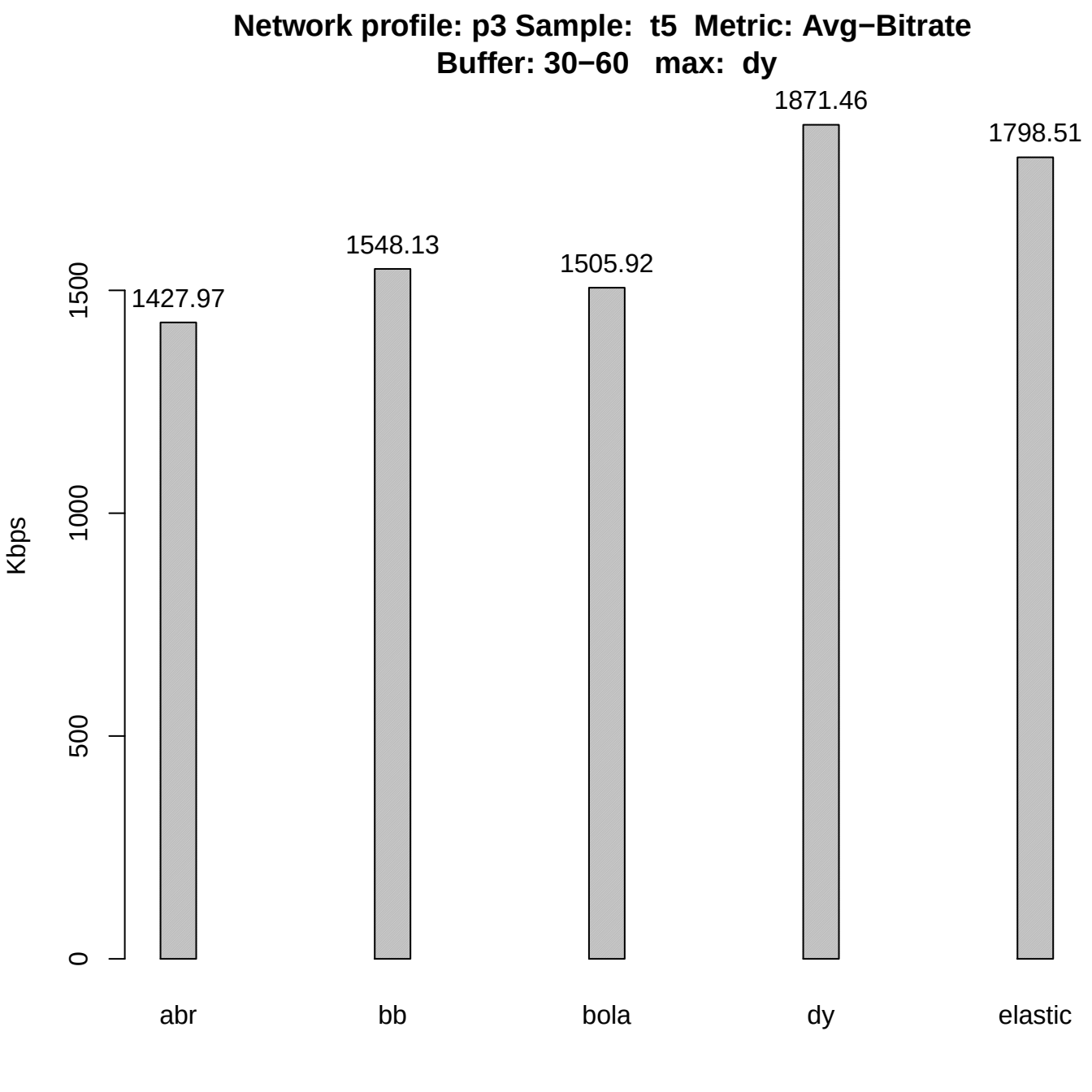

Network profile: p3 Sample: t3 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.290966
0.177786
0.364252
0.180991
0.141561
abr
bb
bola
dy
elastic

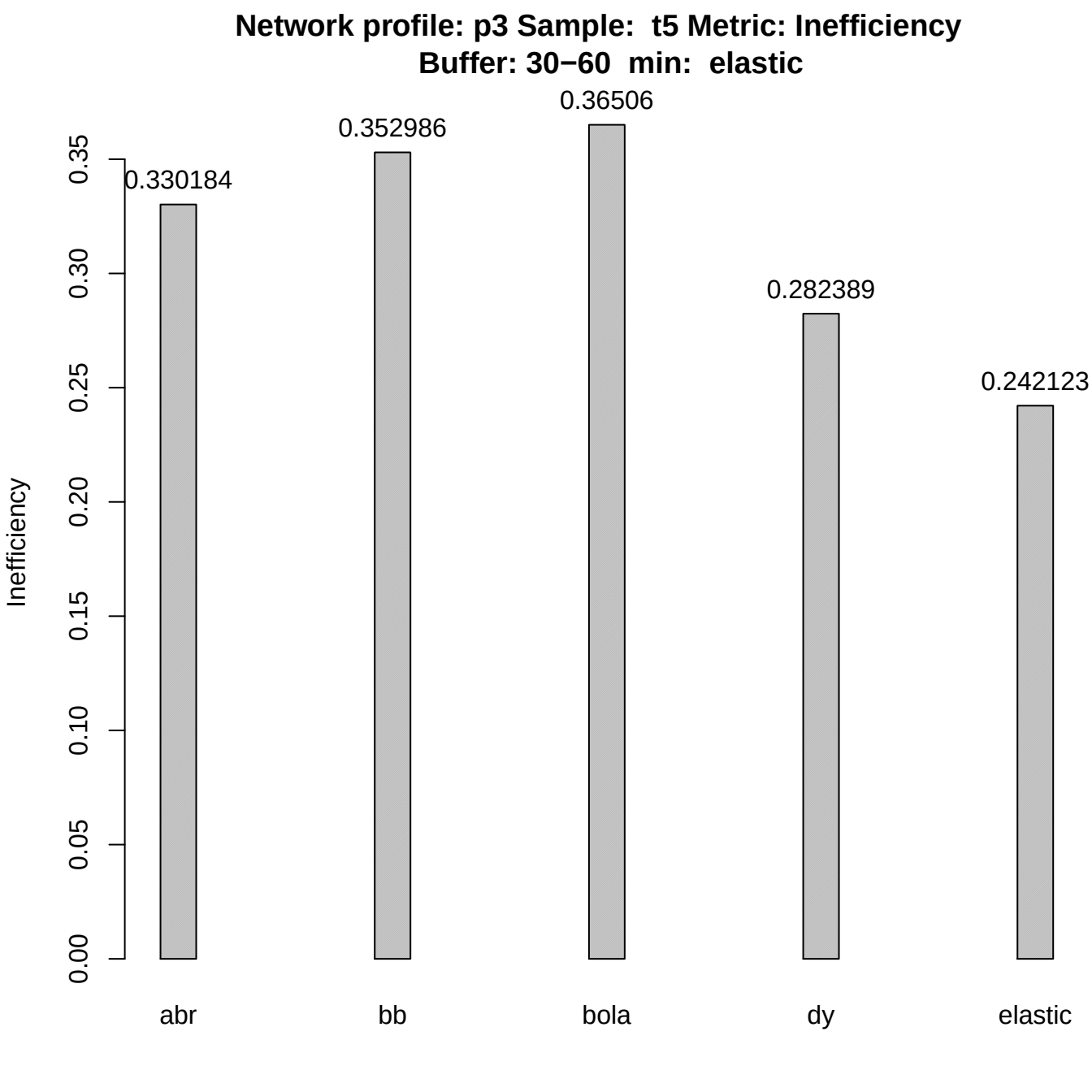

Network profile: p3 Sample: t3 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
50
100
150
162
21
0
42
65
abr
bb
bola
dy
elastic

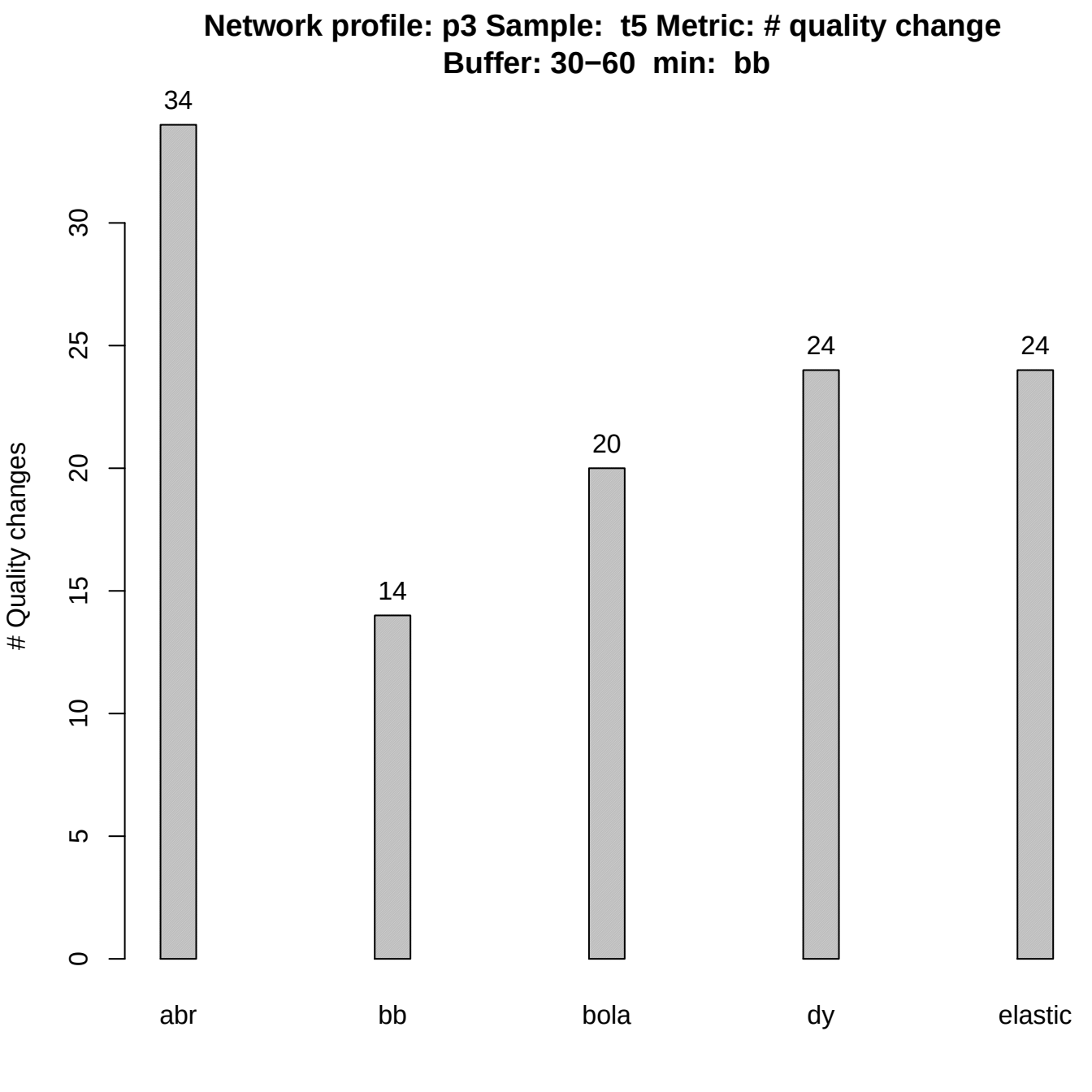

Network profile: p3 Sample: t4 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
1515.65
2233.77
1143
2382.19
1908.44
abr
bb
bola
dy
elastic

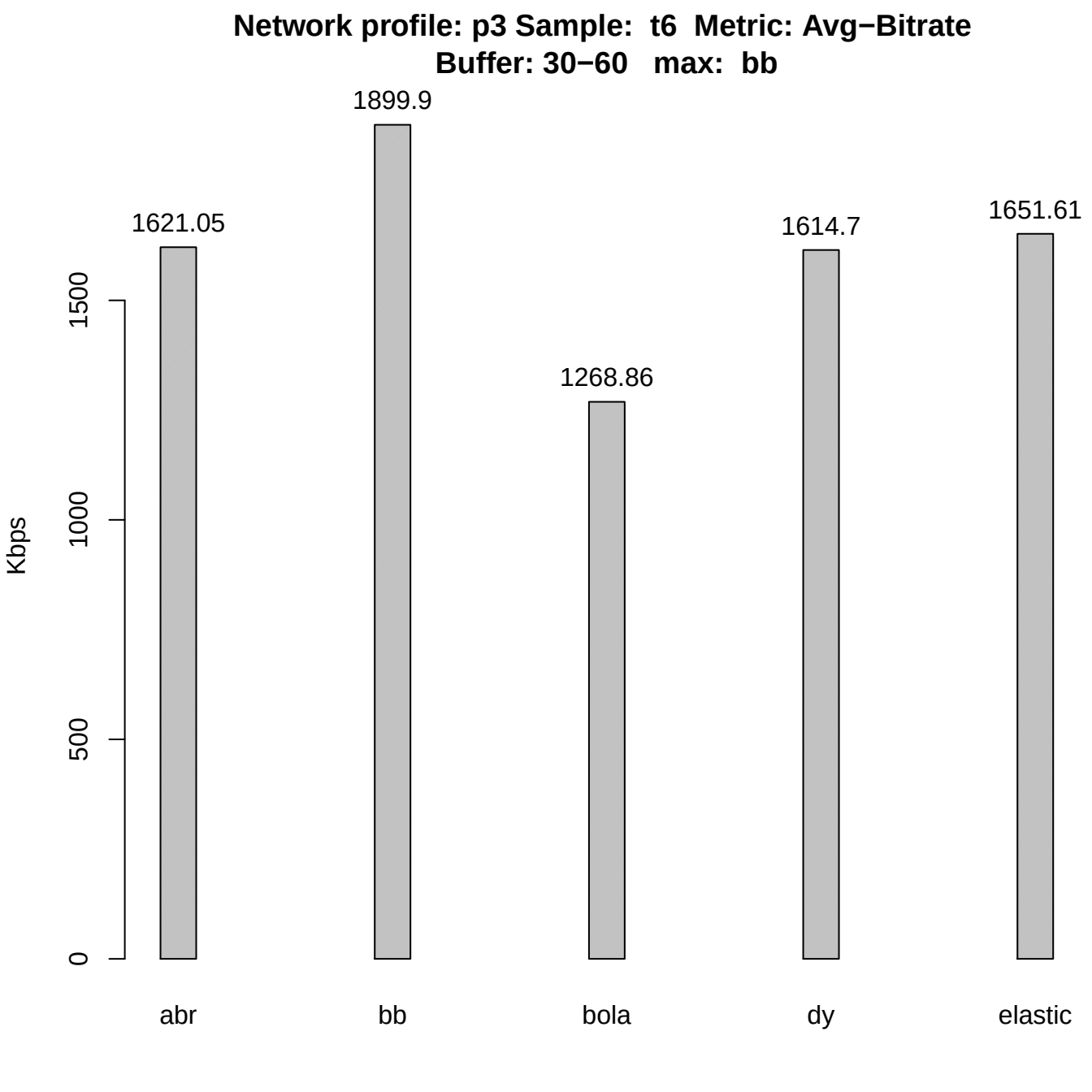

Network profile: p3 Sample: t4 Metric: Inefficiency
Buffer: 30−60 min: dy
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.283976
0.176677
0.35928
0.175133
0.186055
abr
bb
bola
dy
elastic

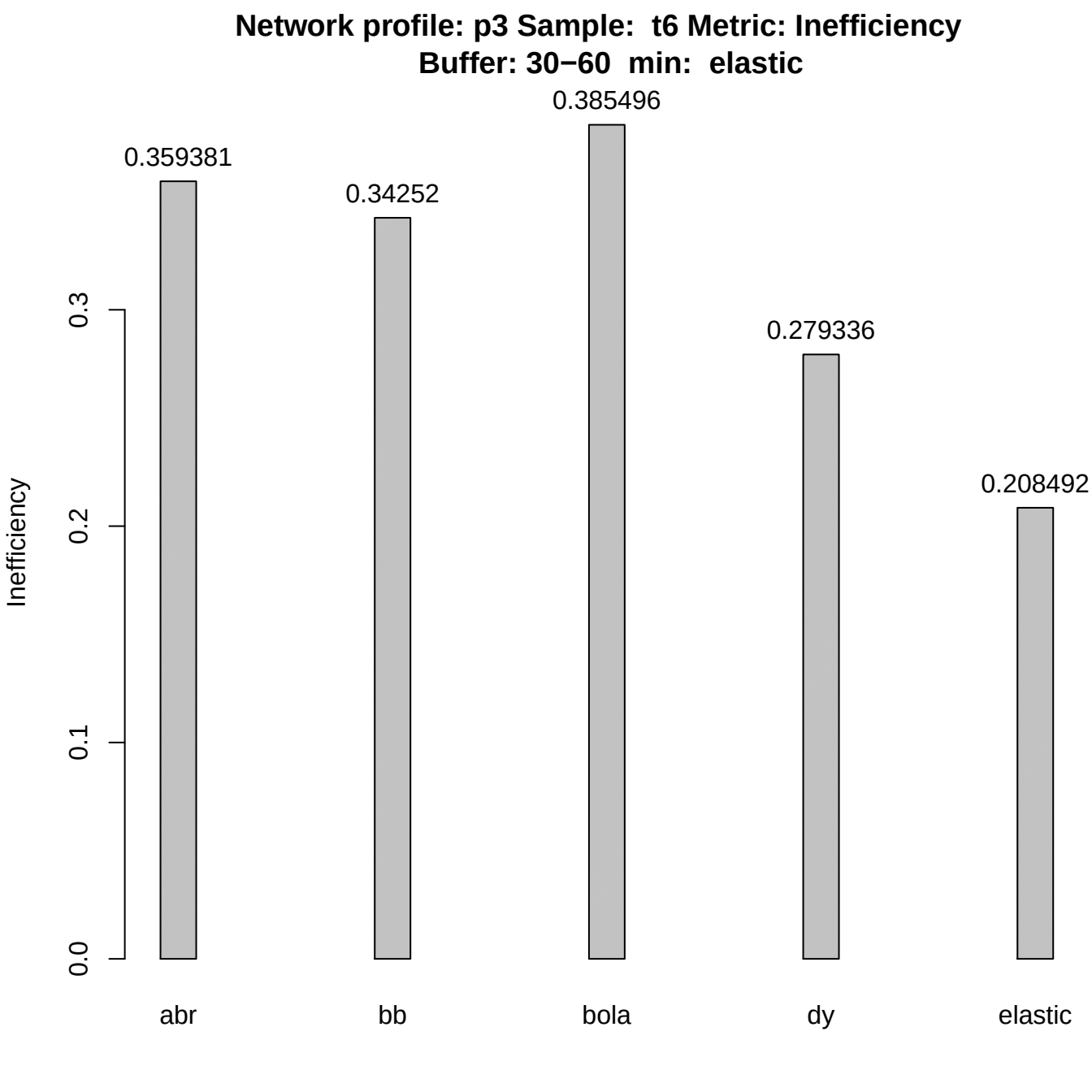

Network profile: p3 Sample: t4 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
126
31
0
33
20
abr
bb
bola
dy
elastic

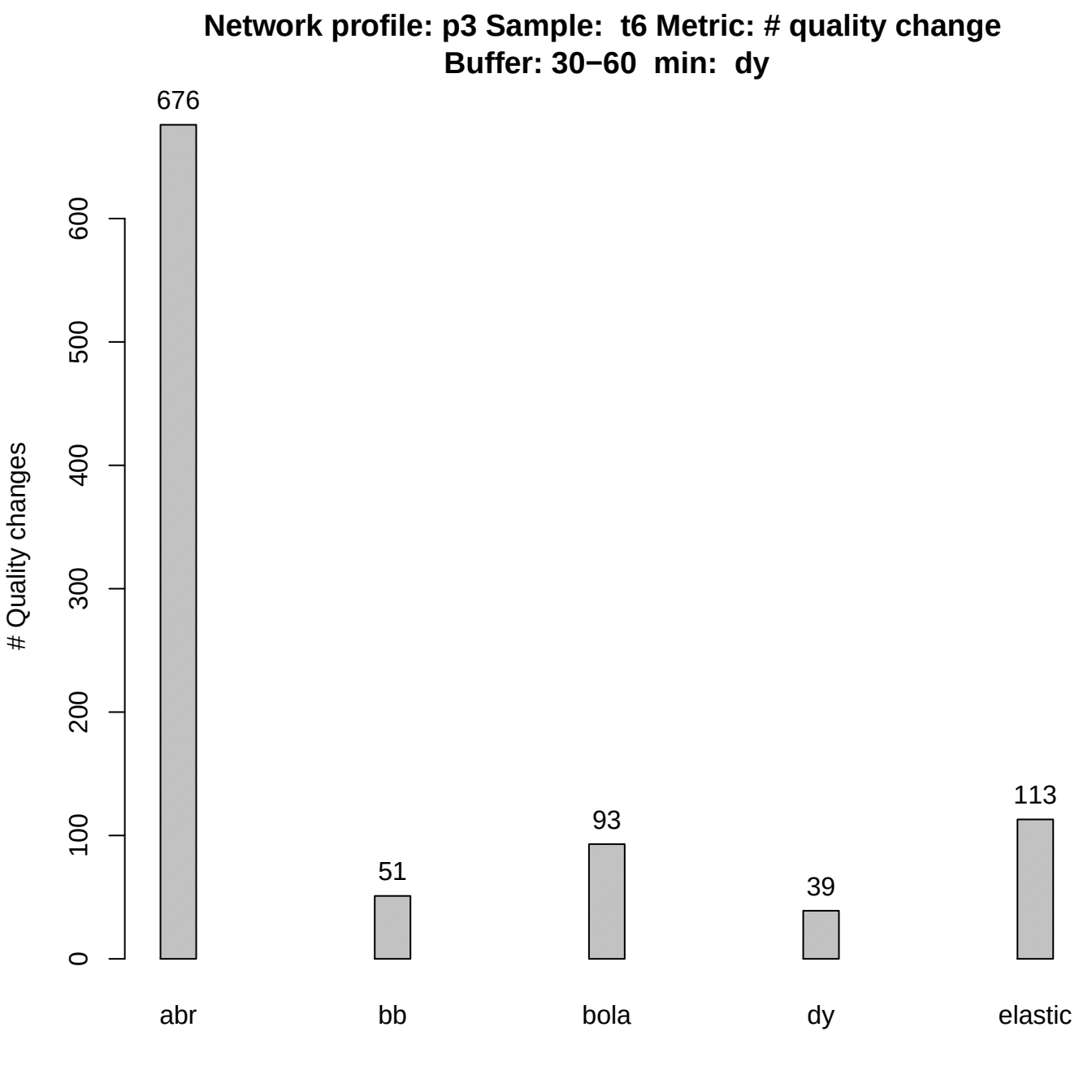

Network profile: p3 Sample: t5 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
1427.97
1548.13
1505.92
1871.46
1798.51
abr
bb
bola
dy
elastic

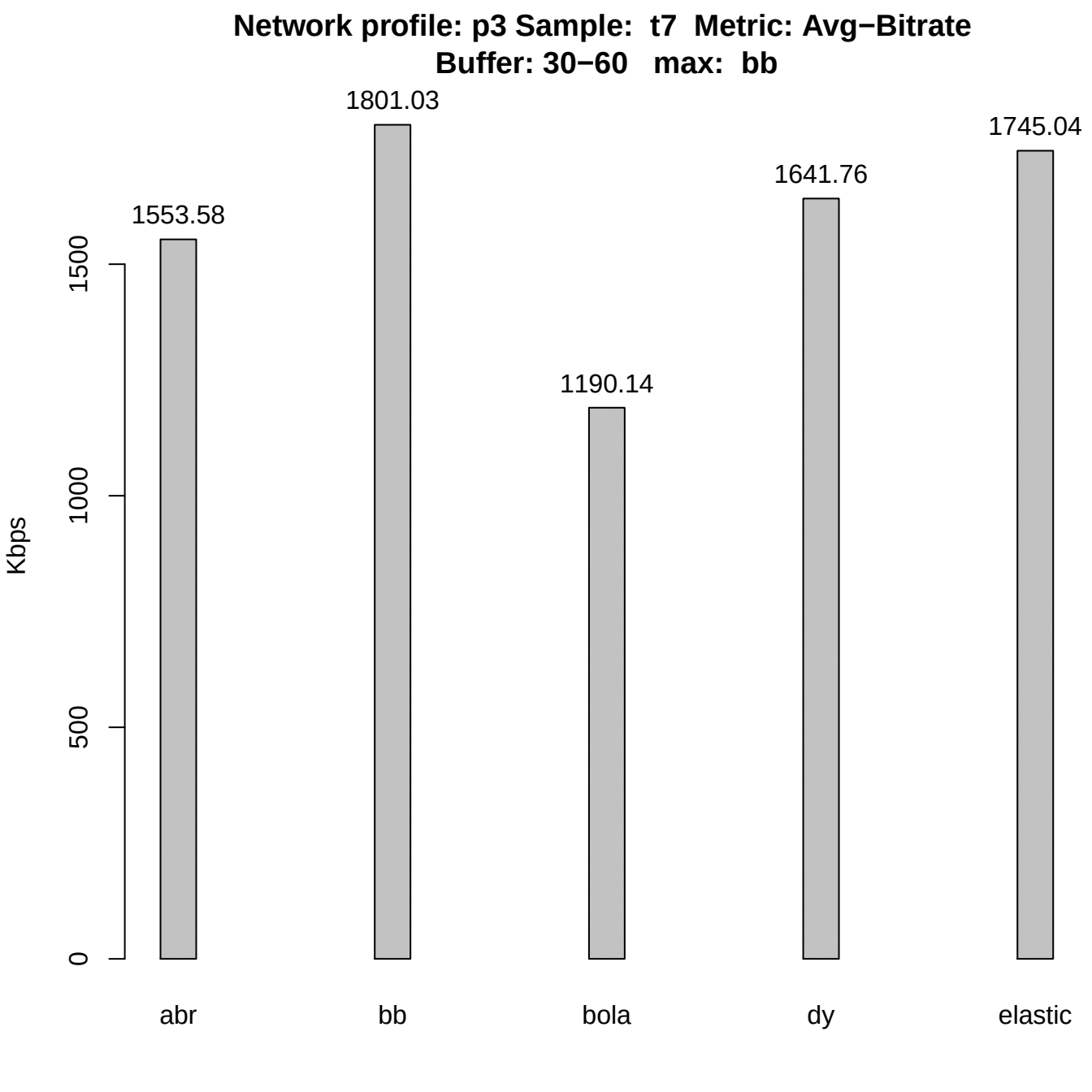

Network profile: p3 Sample: t5 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.330184
0.352986
0.36506
0.282389
0.242123
abr
bb
bola
dy
elastic

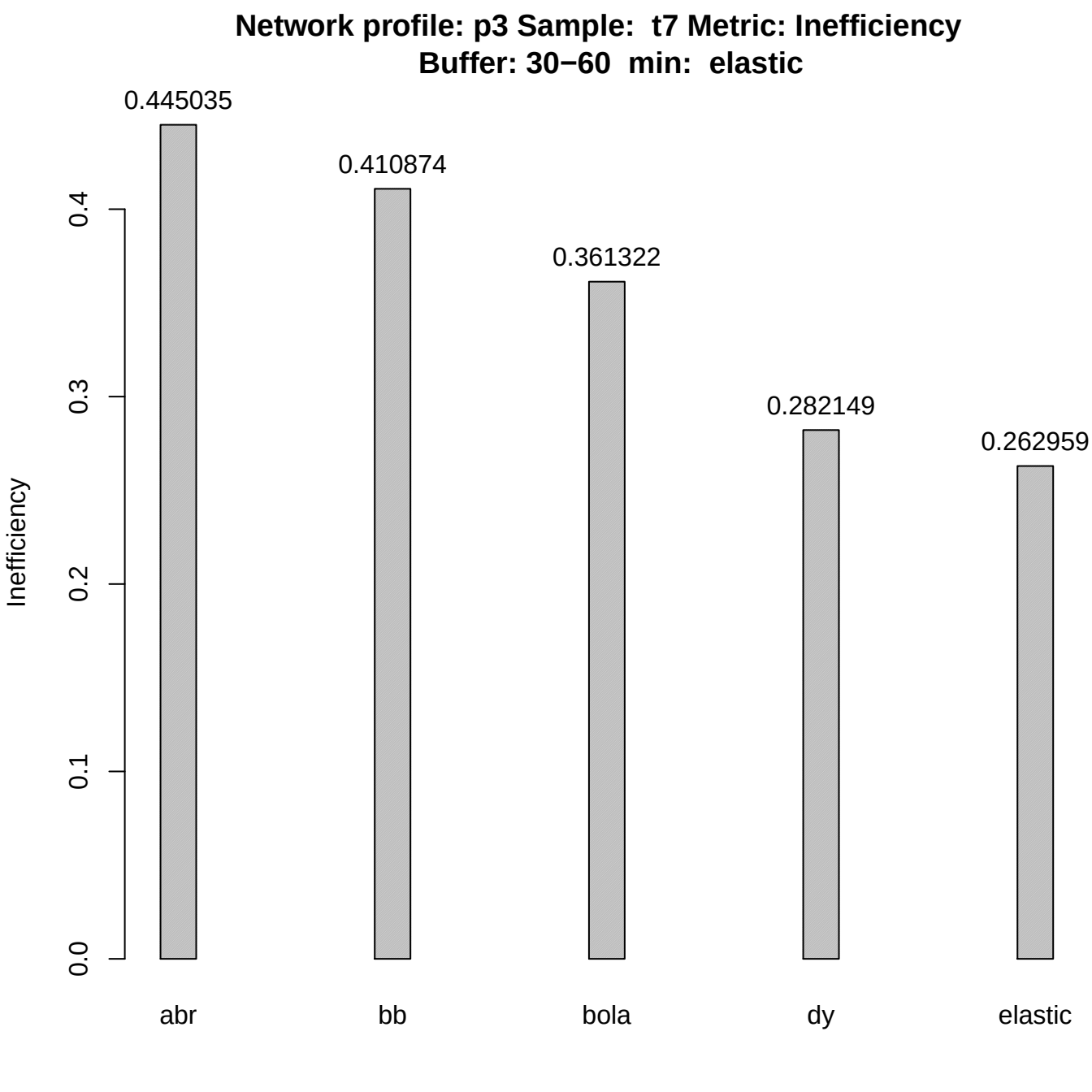

Network profile: p3 Sample: t5 Metric: # quality change
Buffer: 30−60 min: bb
Quality changes
0
5
10
15
20
25
30
34
14
20
24
24
abr
bb
bola
dy
elastic

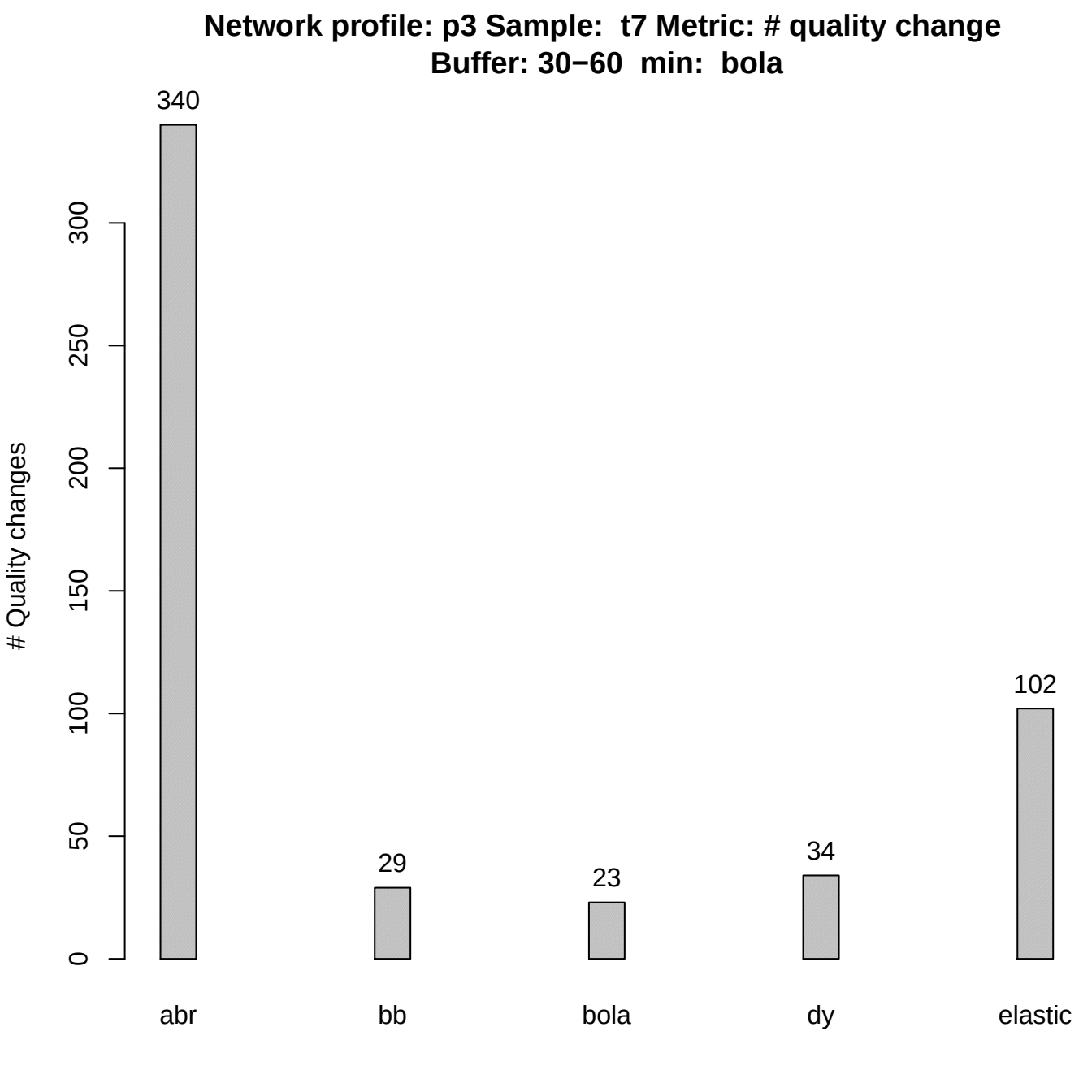

Network profile: p3 Sample: t6 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
1899.9
1621.05
1614.7
1651.61
1268.86
Kbps
0
500
1000
1500
abr
bb
bola
dy
elastic

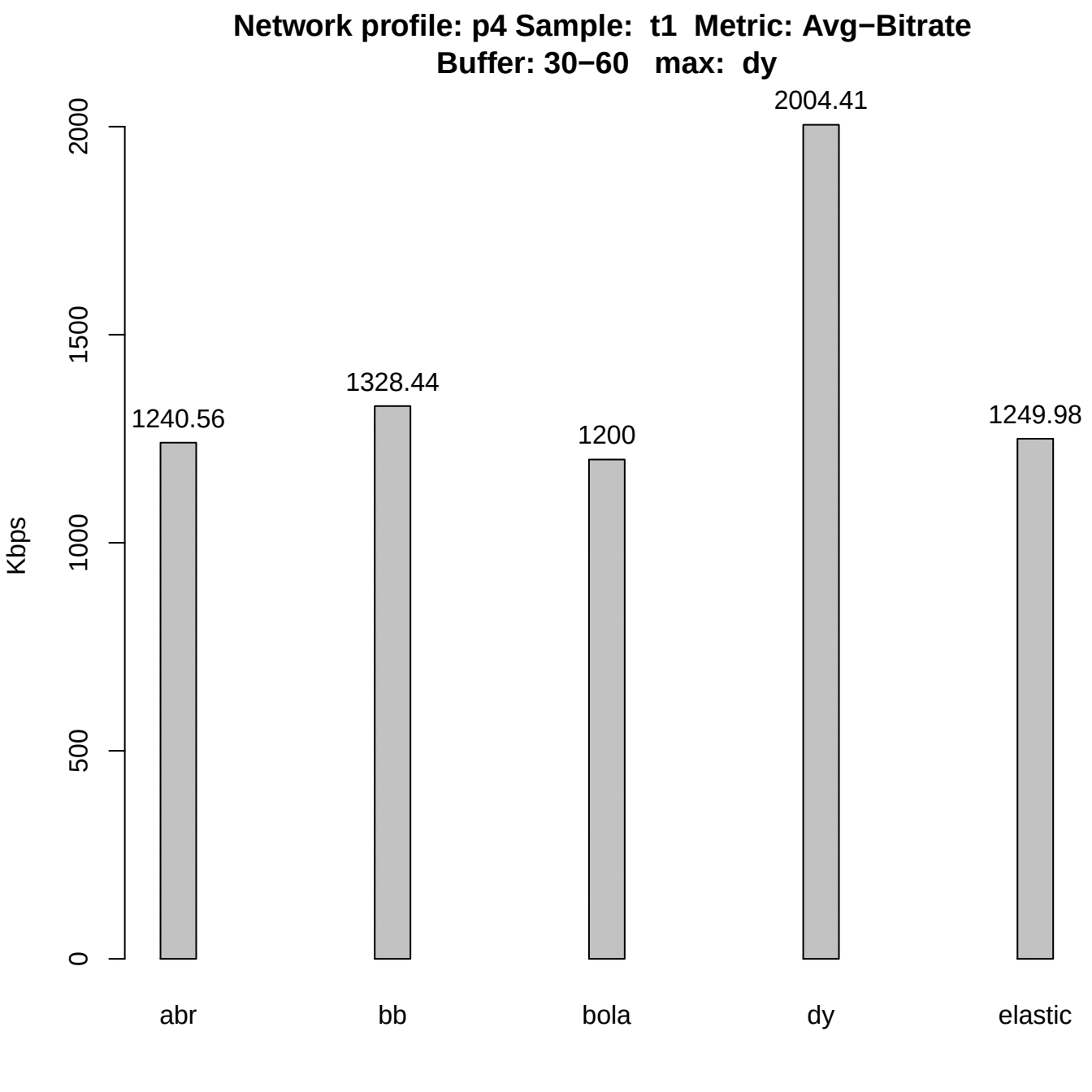

Network profile: p3 Sample: t6 Metric: Inefficiency
Buffer: 30−60 min: elastic
0.359381
0.34252
0.385496
0.279336
0.208492
Inefficiency
0.0
0.1
0.2
0.3
abr
bb
bola
dy
elastic

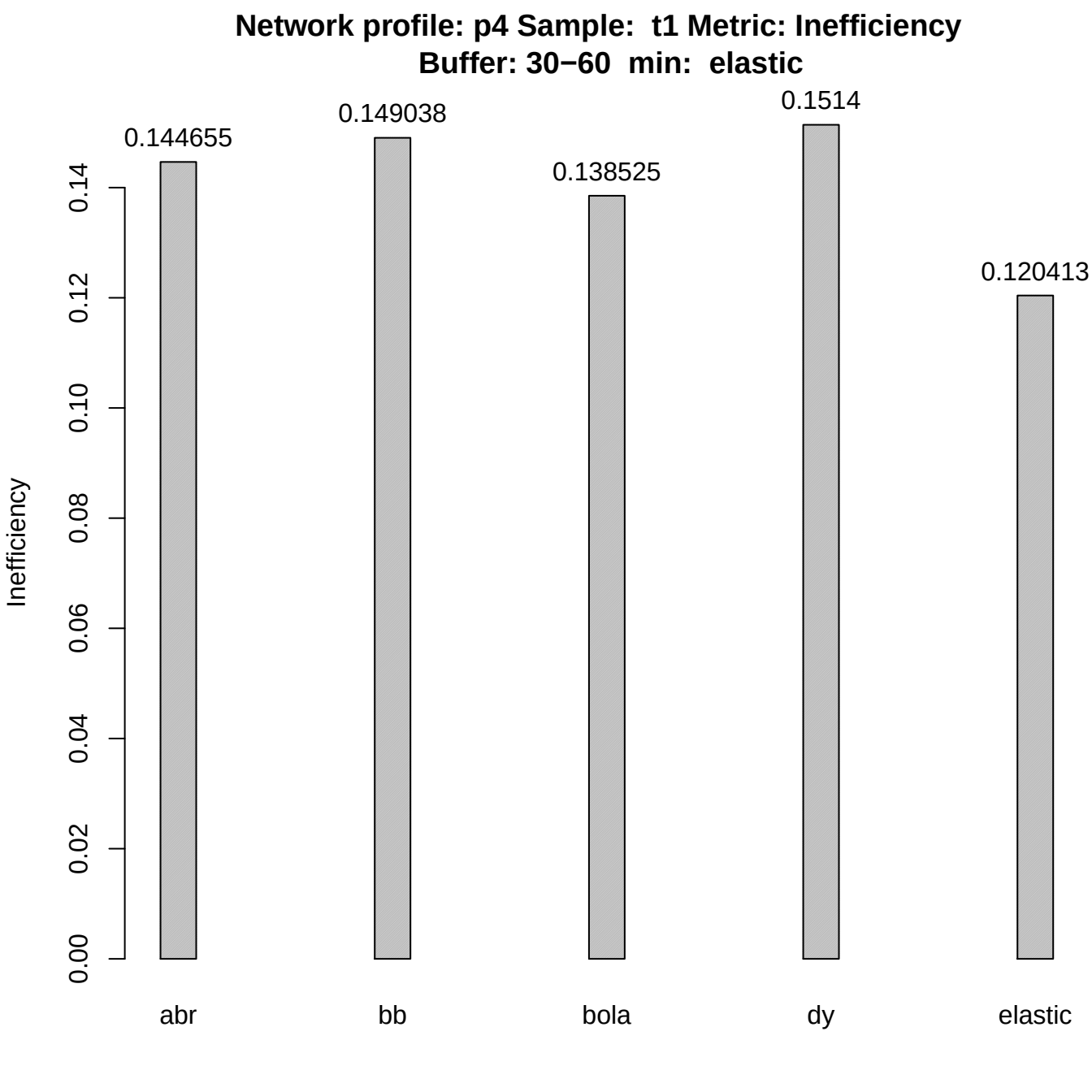

Network profile: p3 Sample: t6 Metric: # quality change
Buffer: 30−60 min: dy
Quality changes
0
100
200
300
400
500
600
676
51
93
39
113
abr
bb
bola
dy
elastic

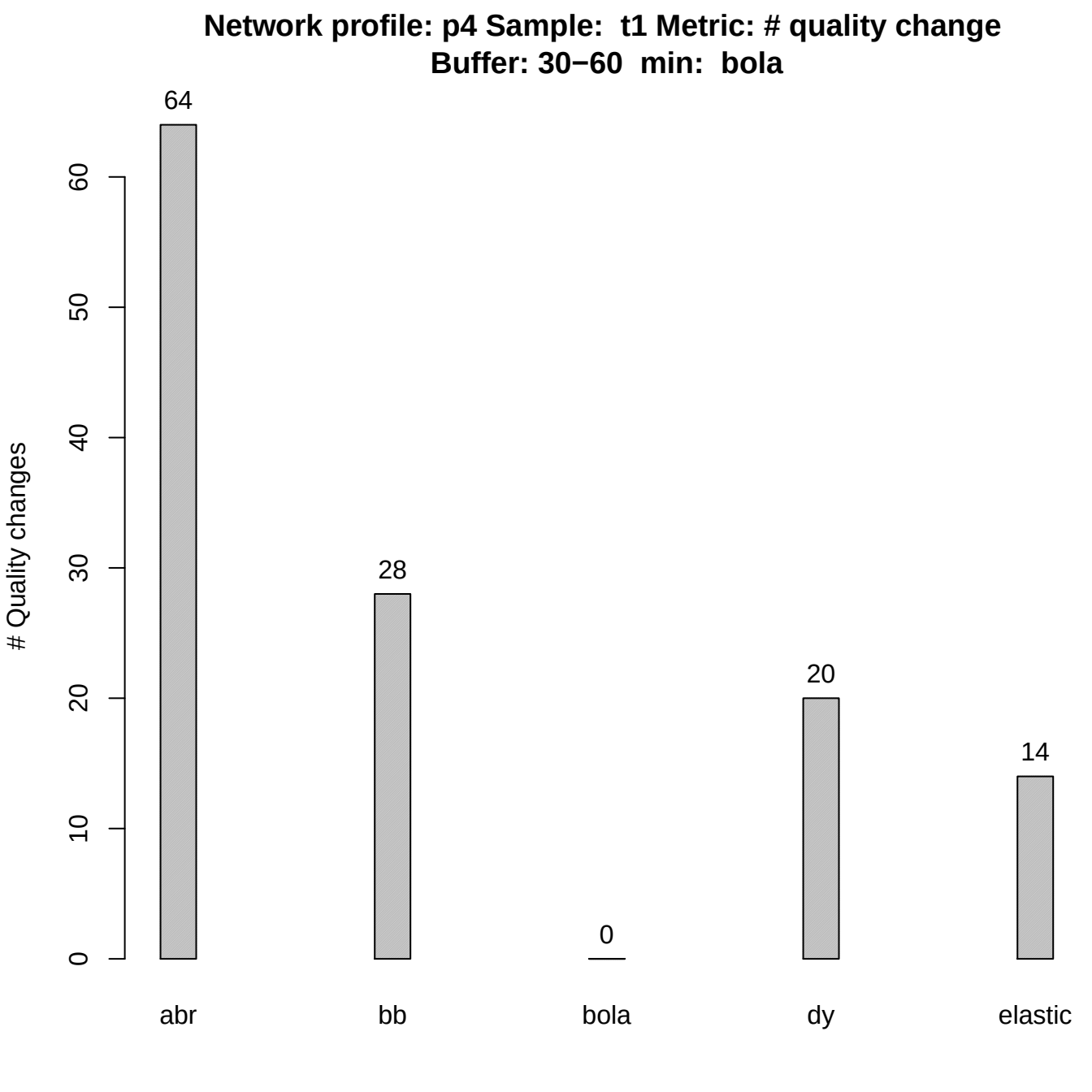

Network profile: p3 Sample: t7 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
1801.03
1745.04
1641.76
1553.58
1190.14
Kbps
0
500
1000
1500
abr
bb
bola
dy
elastic

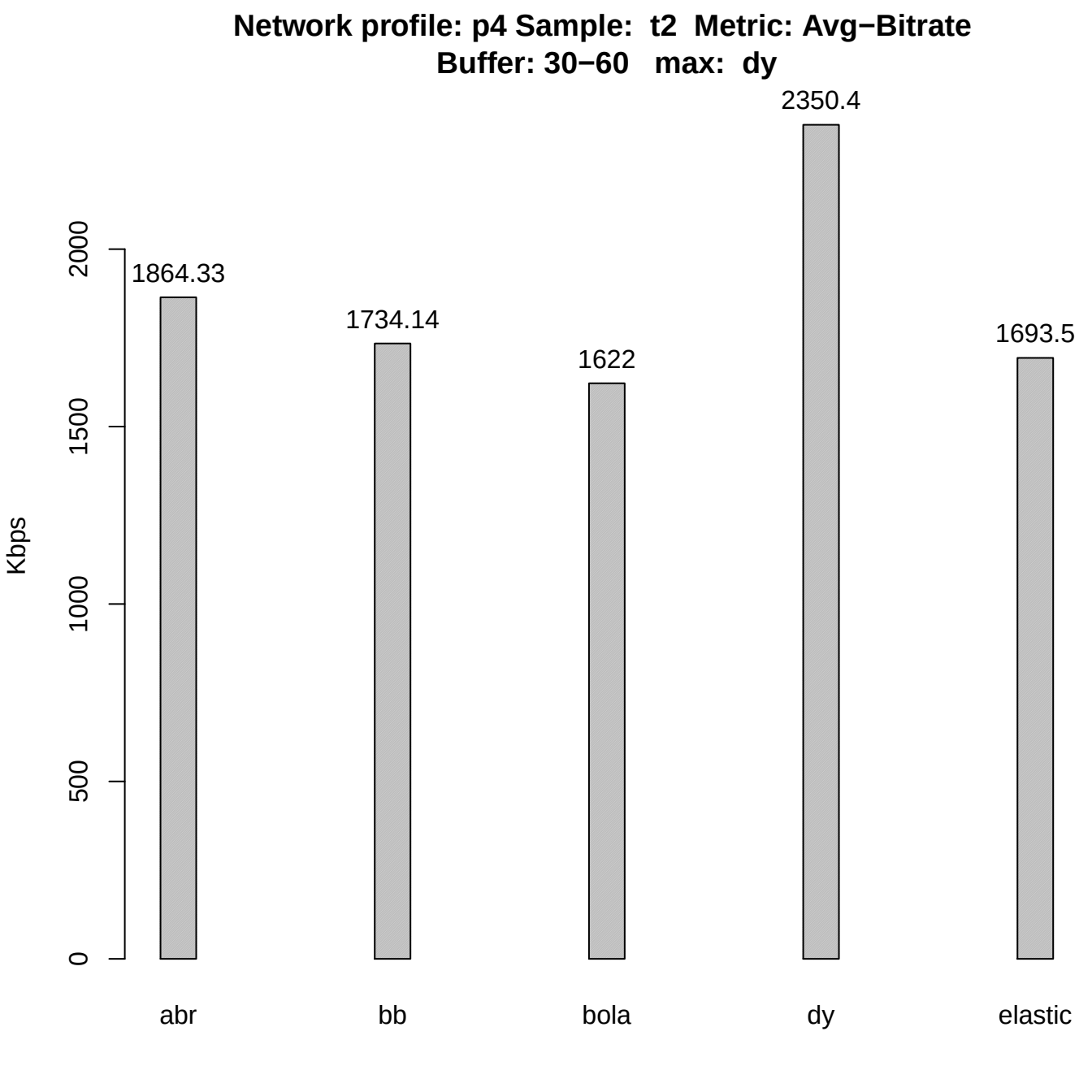

Network profile: p3 Sample: t7 Metric: Inefficiency
Buffer: 30−60 min: elastic
0.445035
0.410874
0.361322
0.282149
0.262959
Inefficiency
0.0
0.1
0.2
0.3
0.4
abr
bb
bola
dy
elastic

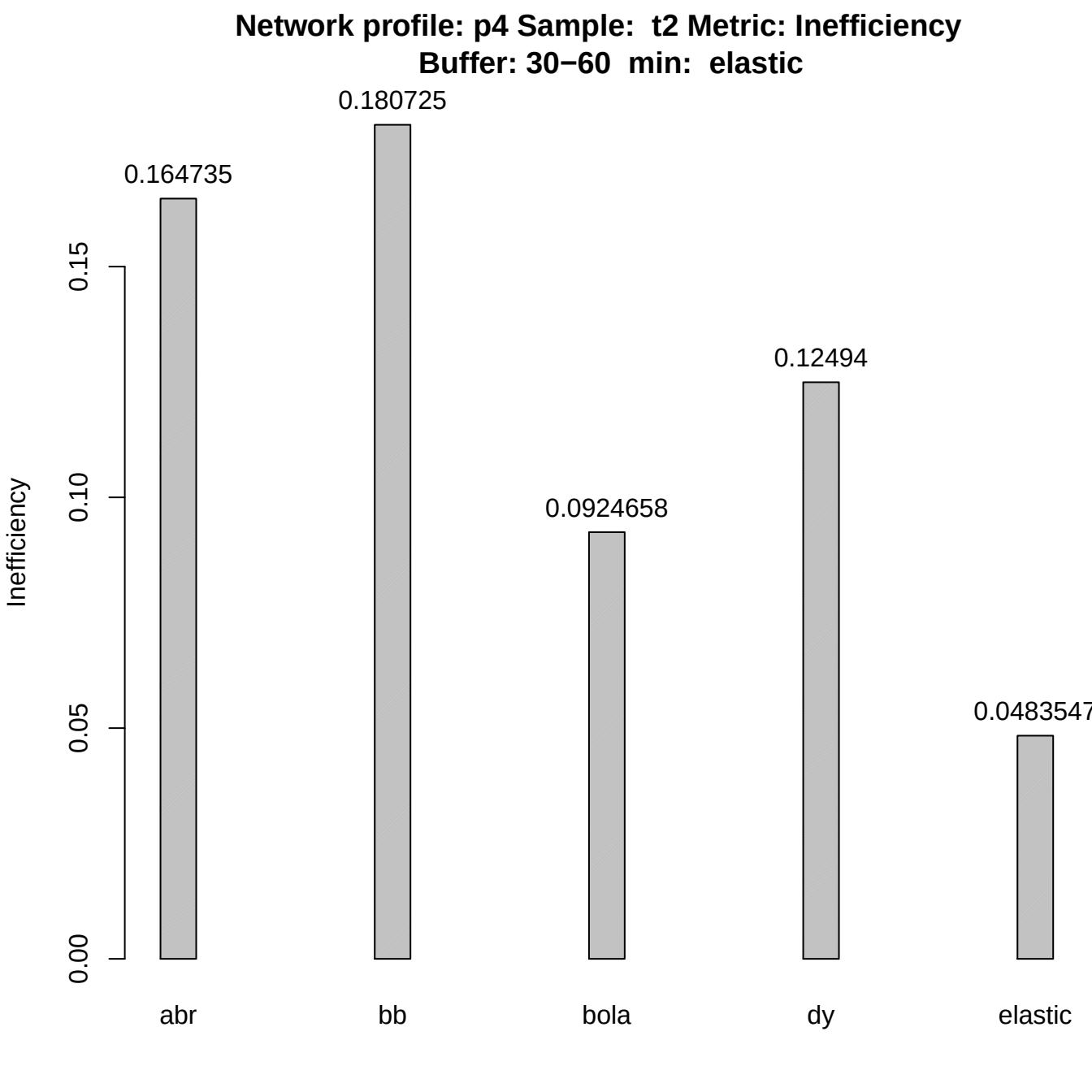

Network profile: p3 Sample: t7 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
50
100
150
200
250
300
340
29
23
34
102
abr
bb
bola
dy
elastic

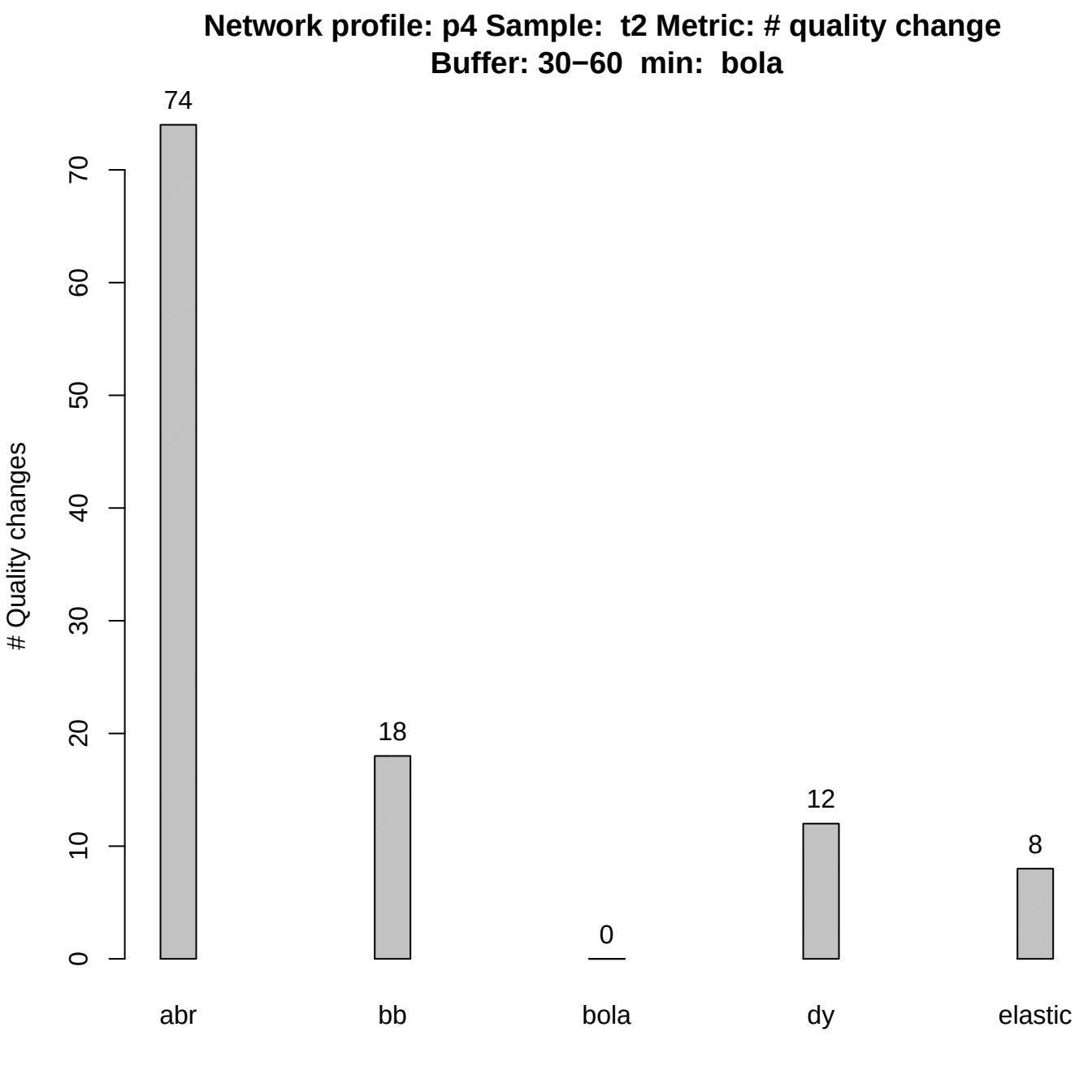

Network profile: p4 Sample: t1 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
1240.56
1328.44
1200
2004.41
1249.98
abr
bb
bola
dy
elastic

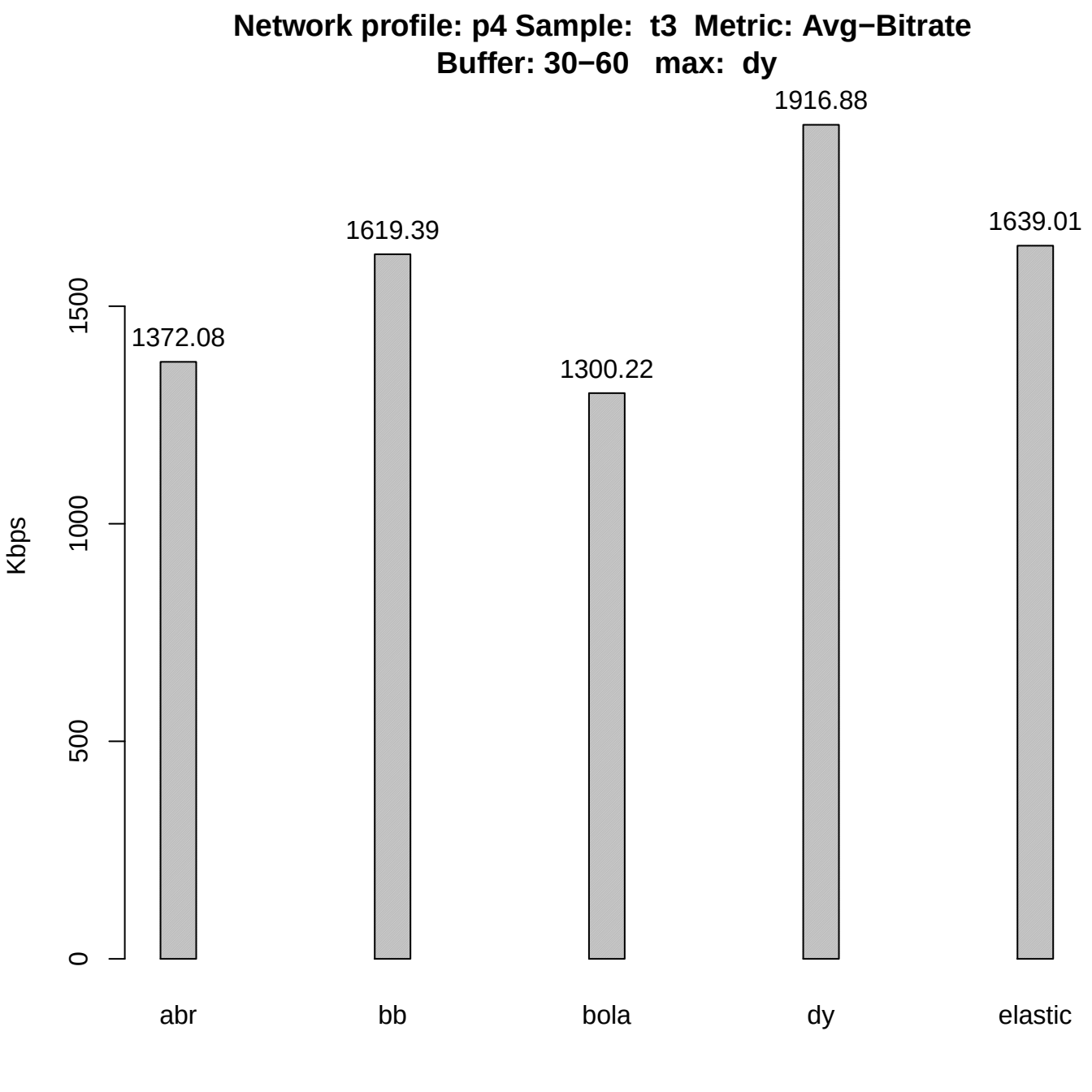

Network profile: p4 Sample: t1 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.144655
0.149038
0.138525
0.1514
0.120413
abr
bb
bola
dy
elastic

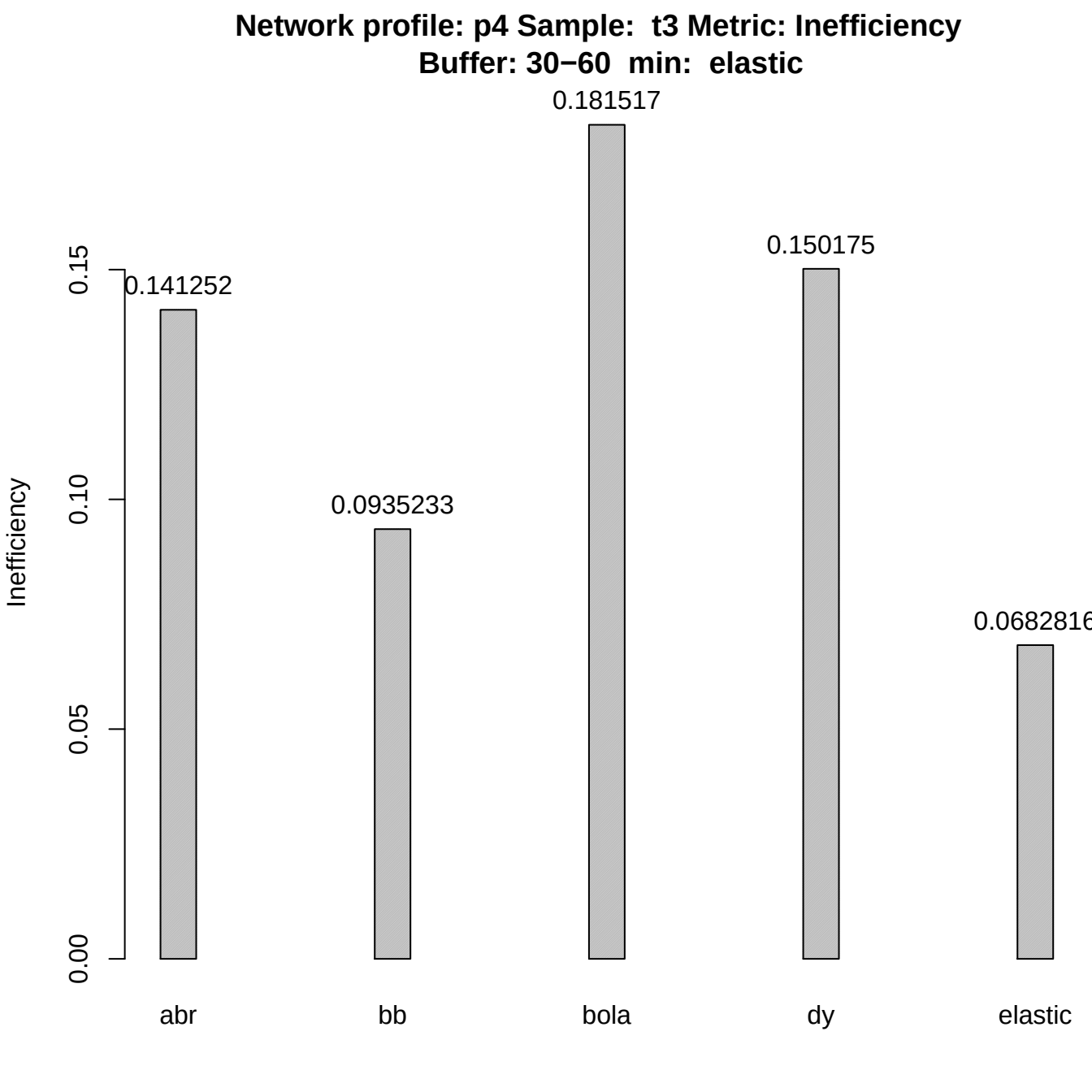

Network profile: p4 Sample: t1 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
10
20
30
40
50
60
64
28
0
20
14
abr
bb
bola
dy
elastic

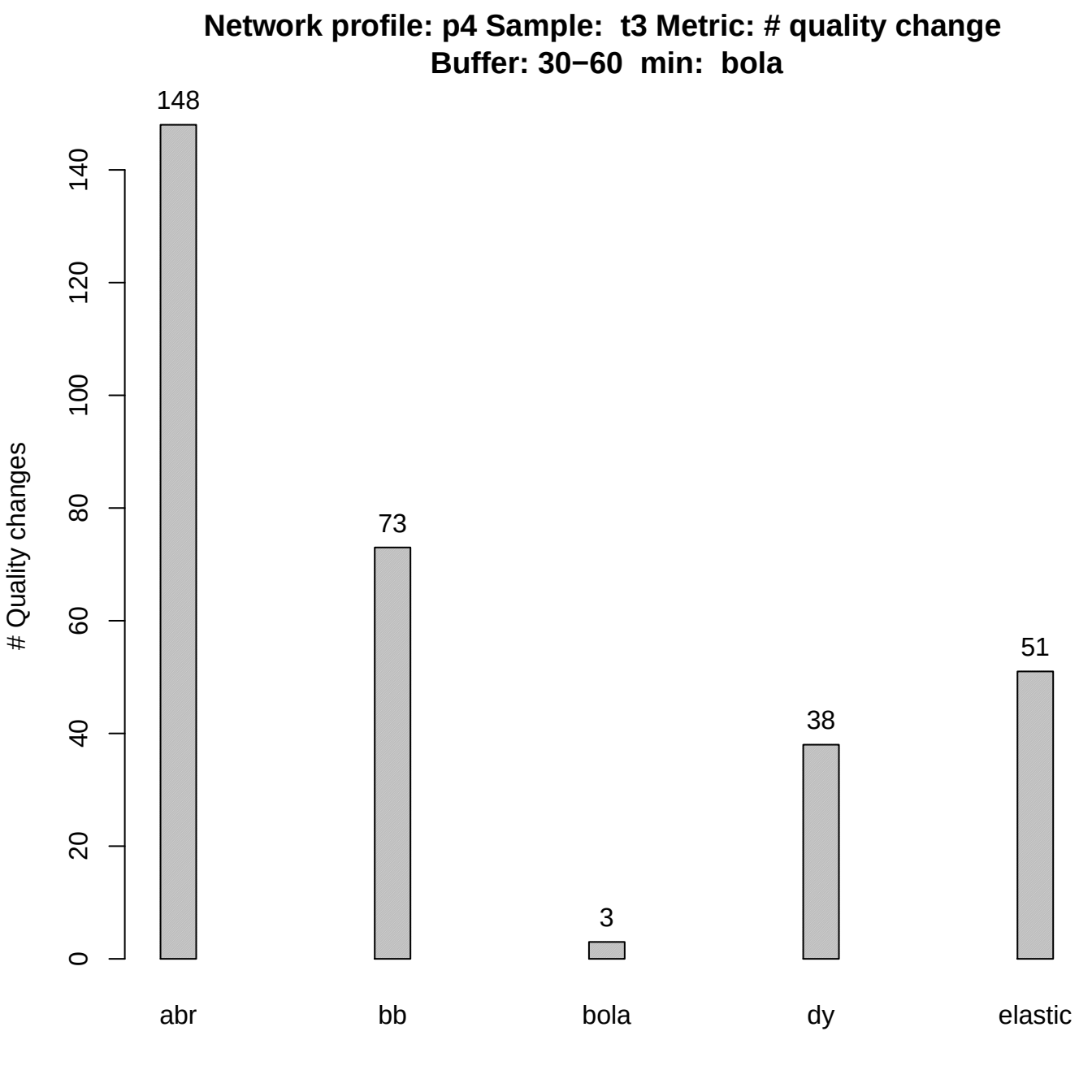

Network profile: p4 Sample: t2 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
2000
1864.33
1734.14
1622
2350.4
1693.5
abr
bb
bola
dy
elastic

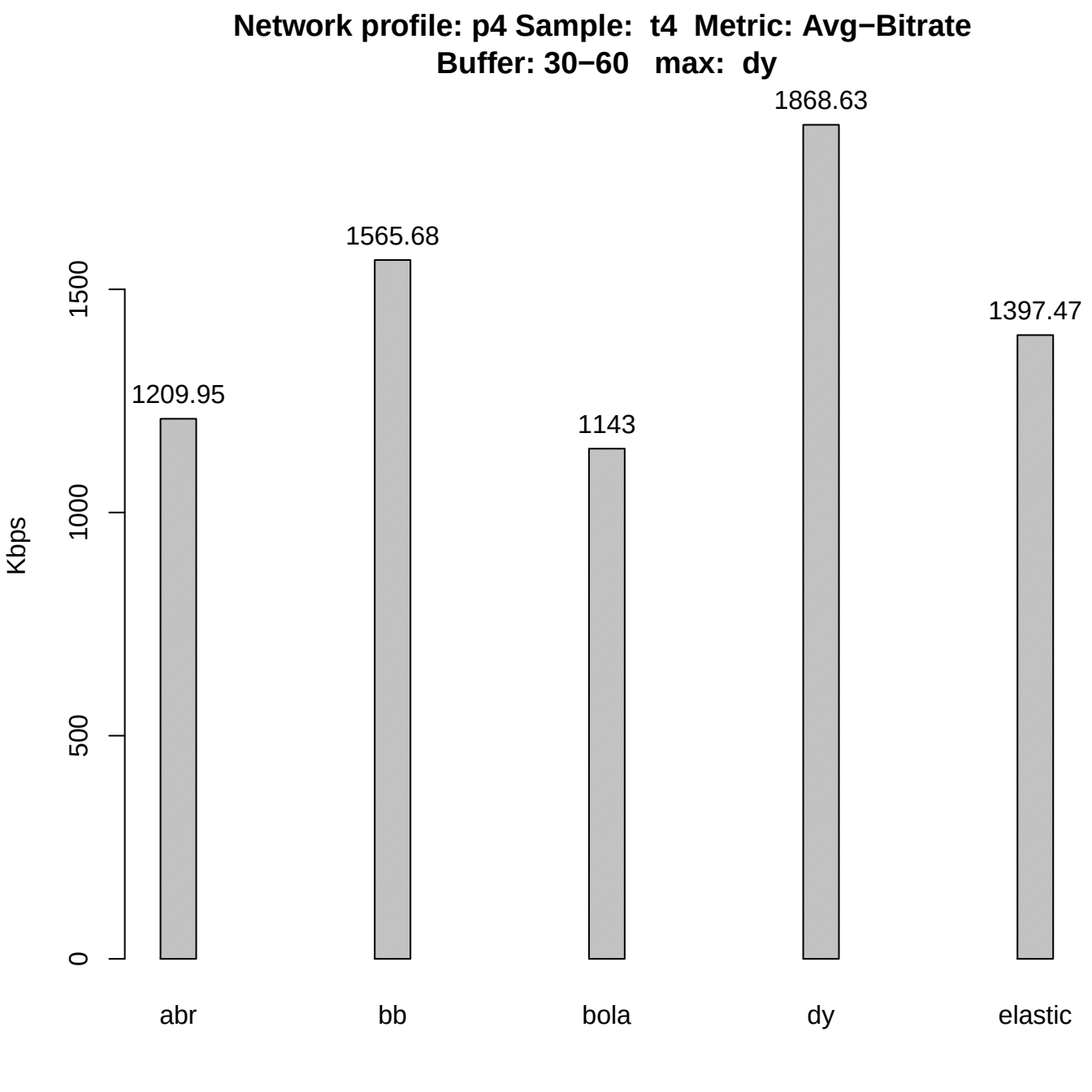

Network profile: p4 Sample: t2 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.164735
0.180725
0.0924658
0.12494
0.0483547
abr
bb
bola
dy
elastic

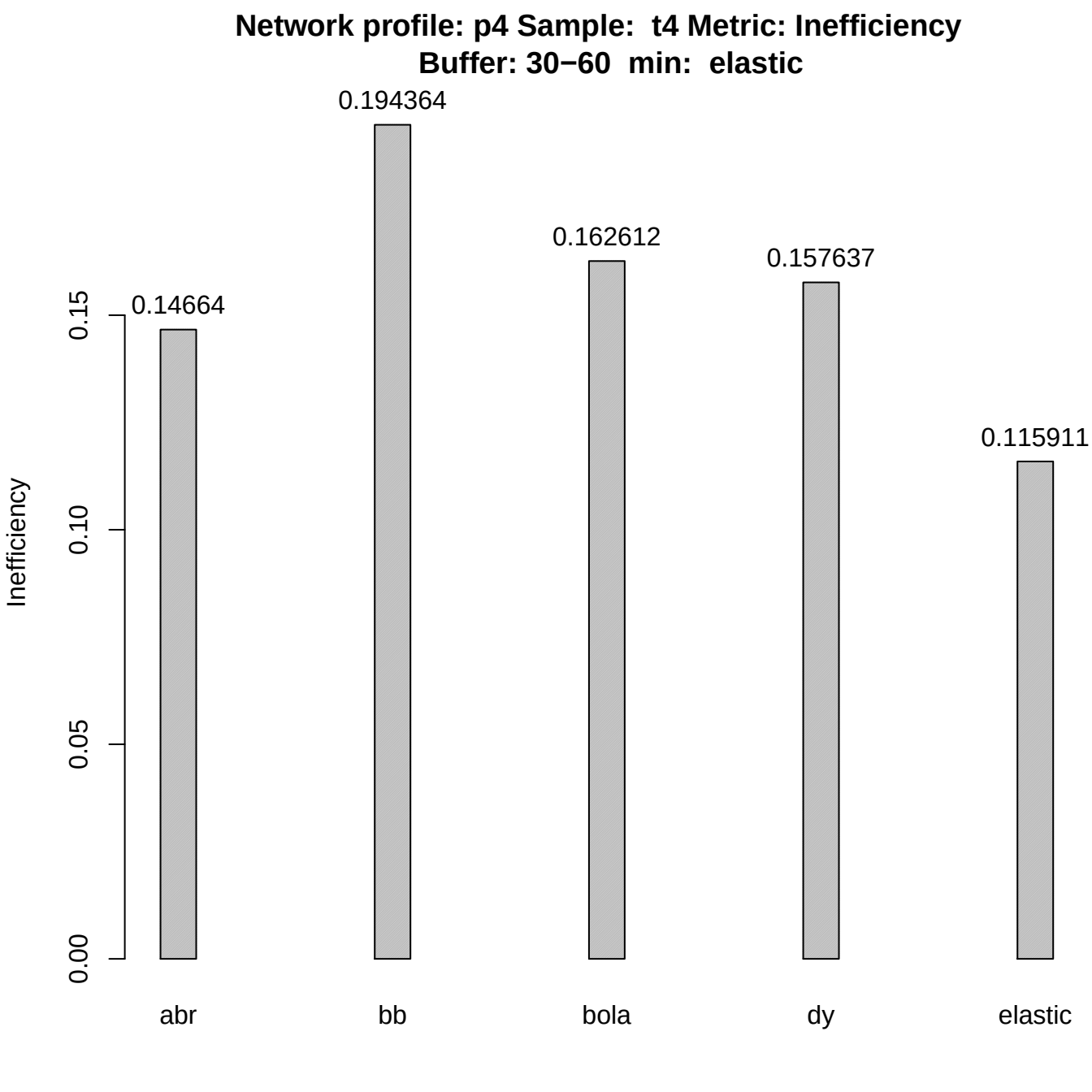

Network profile: p4 Sample: t2 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
10
20
30
40
50
60
70
74
18
0
12
8
abr
bb
bola
dy
elastic

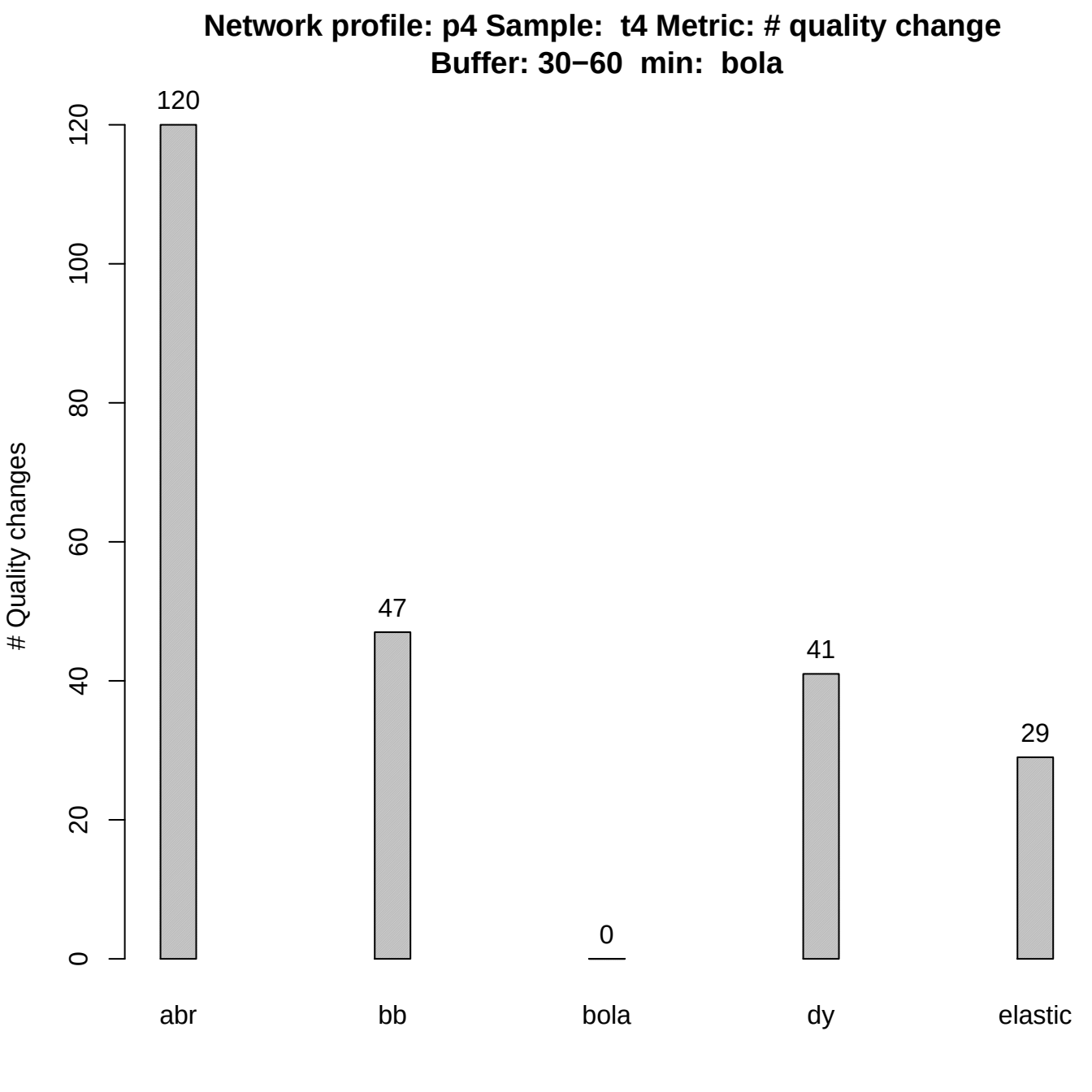

Network profile: p4 Sample: t3 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
1372.08
1619.39
1300.22
1916.88
1639.01
abr
bb
bola
dy
elastic

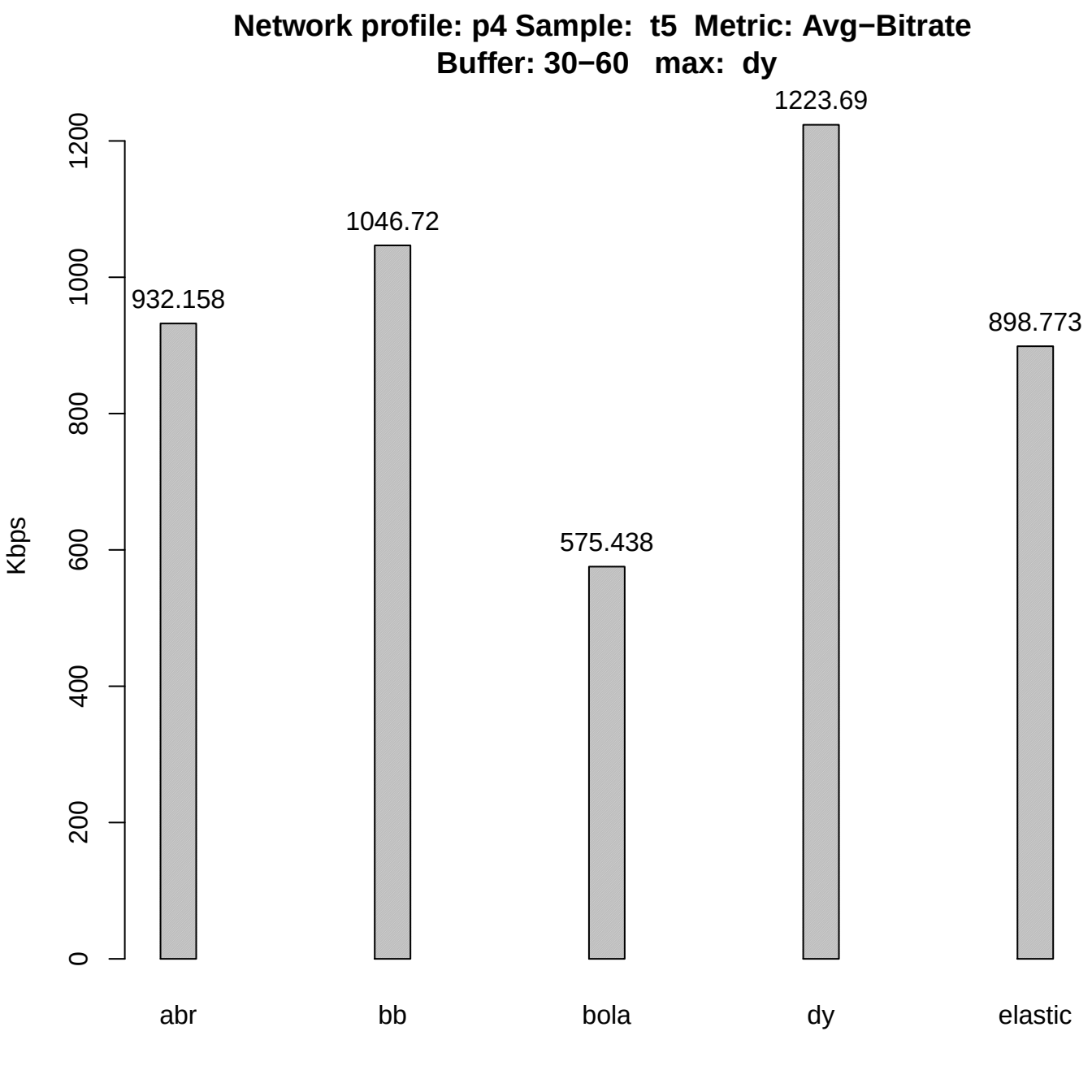

Network profile: p4 Sample: t3 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.141252
0.0935233
0.181517
0.150175
0.0682816
abr
bb
bola
dy
elastic

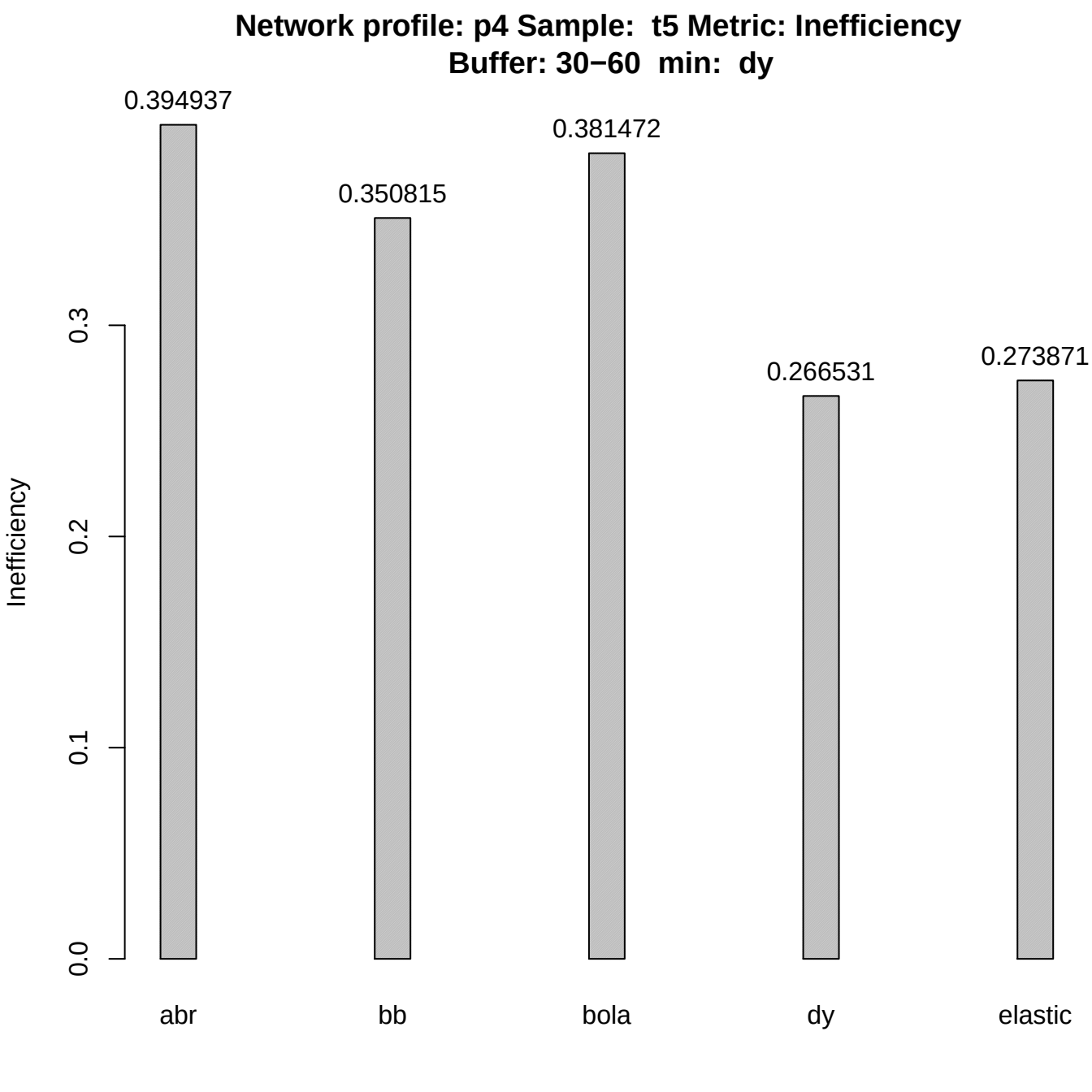

Network profile: p4 Sample: t3 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
140
148
73
3
38
51
abr
bb
bola
dy
elastic

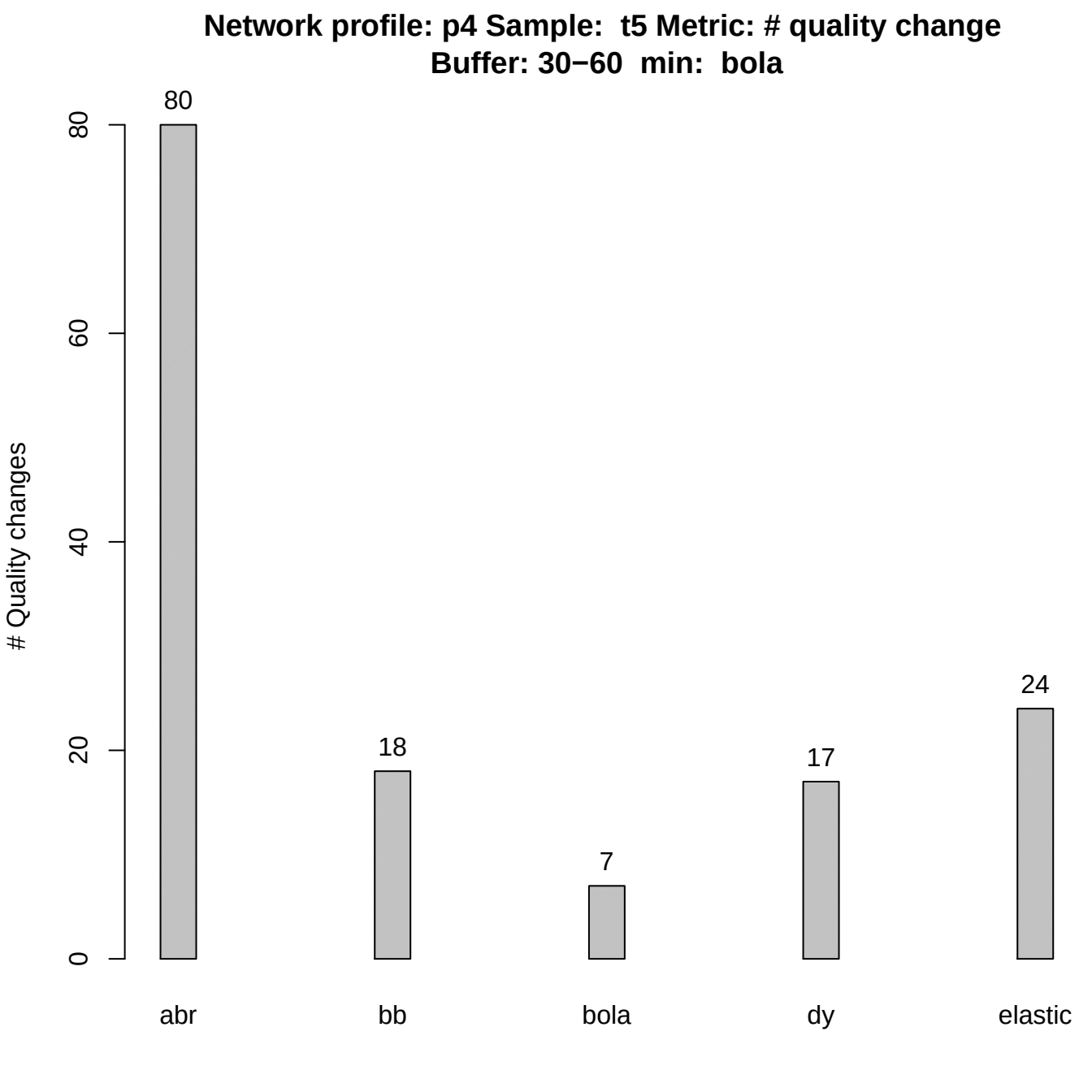

Network profile: p4 Sample: t4 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
500
1000
1500
1209.95
1565.68
1143
1868.63
1397.47
abr
bb
bola
dy
elastic

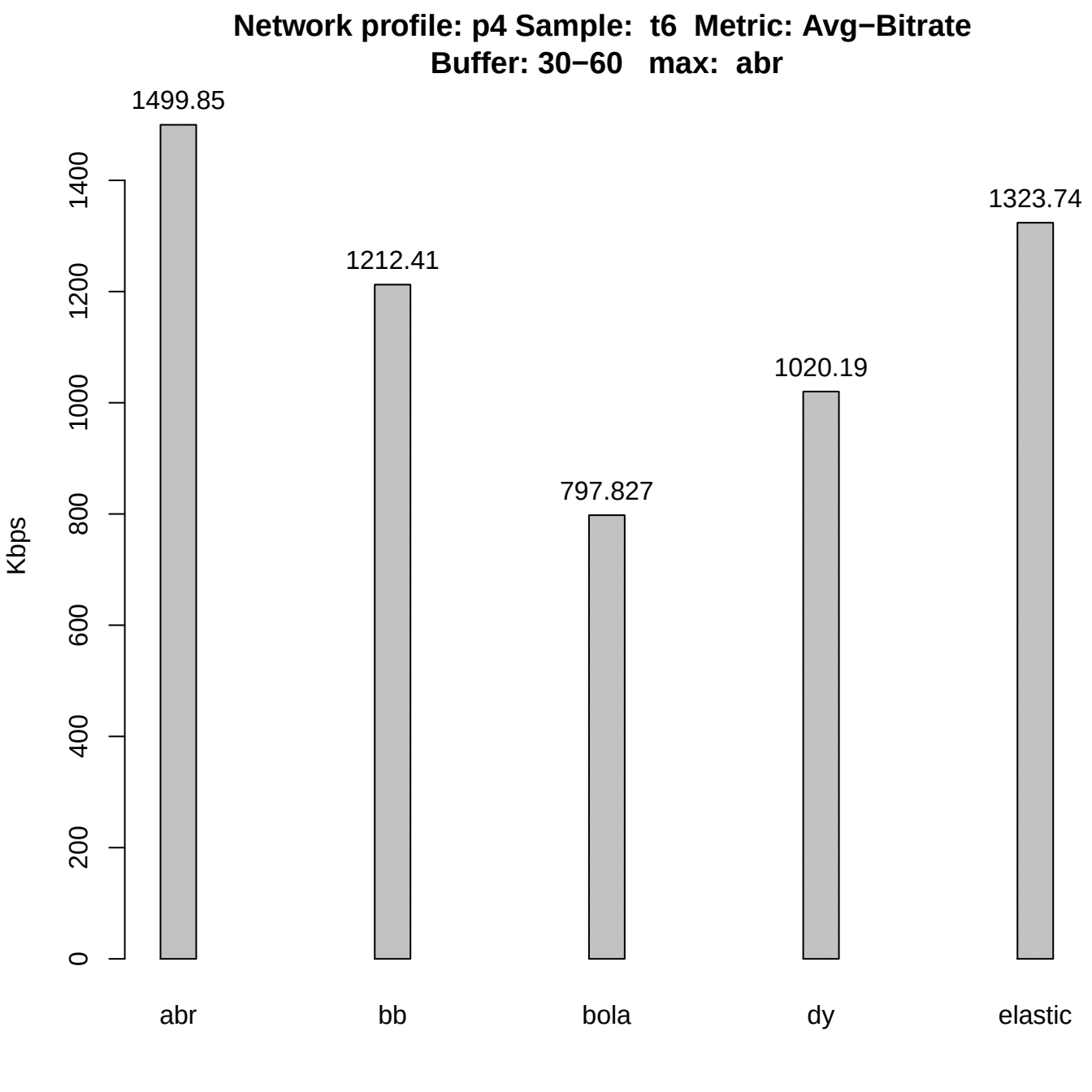

Network profile: p4 Sample: t4 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.00
0.05
0.10
0.15
0.14664
0.194364
0.162612
0.157637
0.115911
abr
bb
bola
dy
elastic

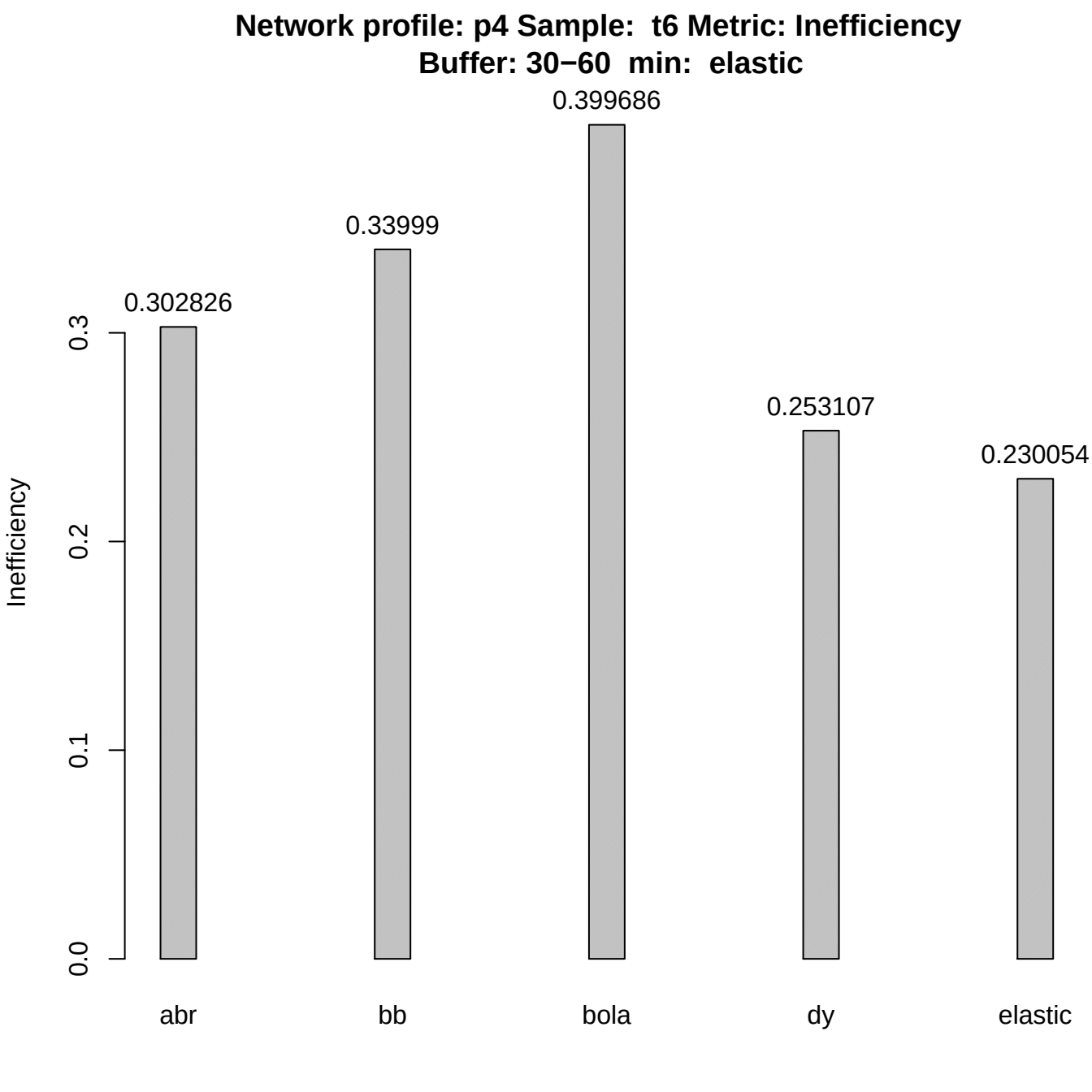

Network profile: p4 Sample: t4 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
100
120
120
47
0
41
29
abr
bb
bola
dy
elastic

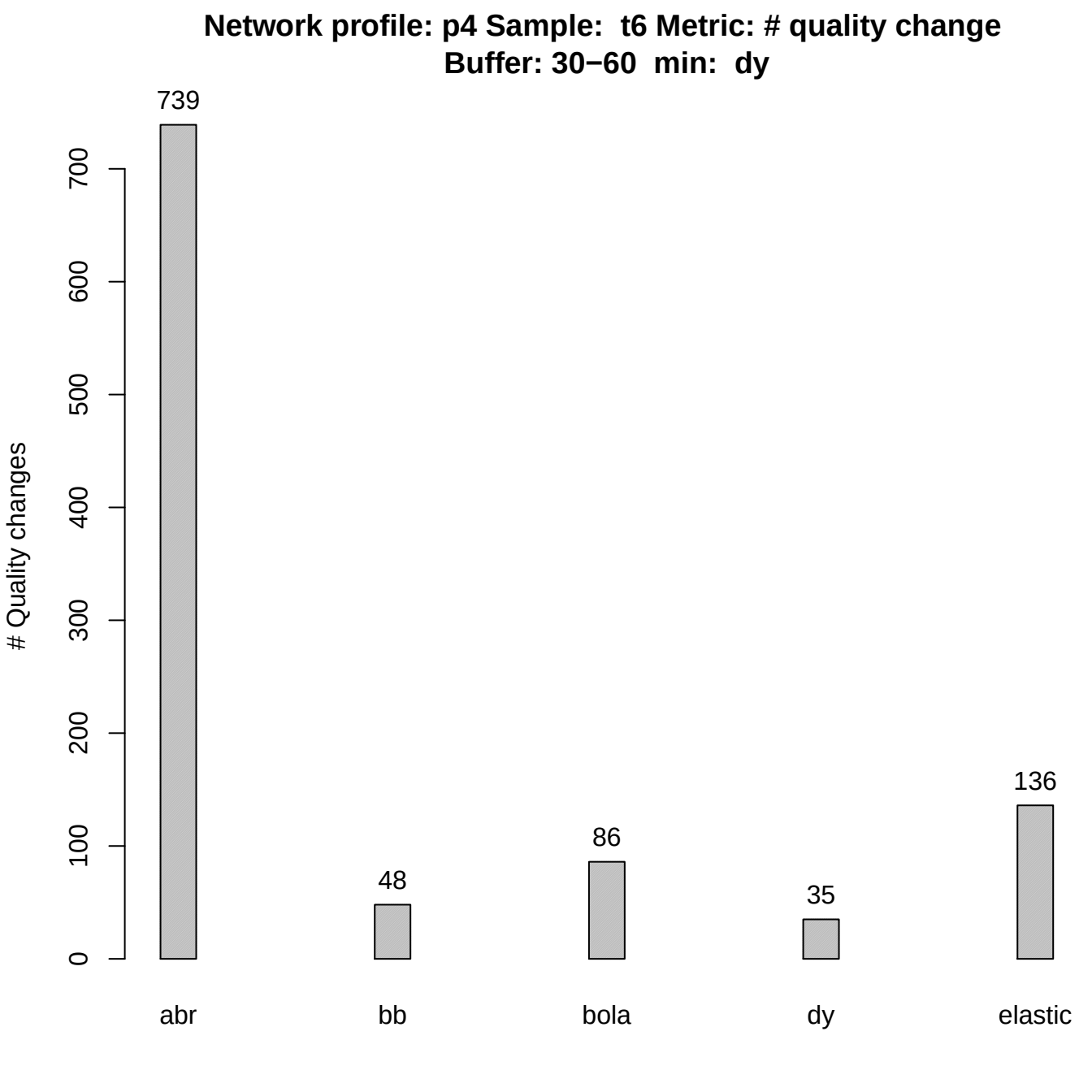

Network profile: p4 Sample: t5 Metric: Avg−Bitrate
Buffer: 30−60 max: dy
Kbps
0
200
400
600
800
1000
1200
932.158
1046.72
575.438
1223.69
898.773
abr
bb
bola
dy
elastic

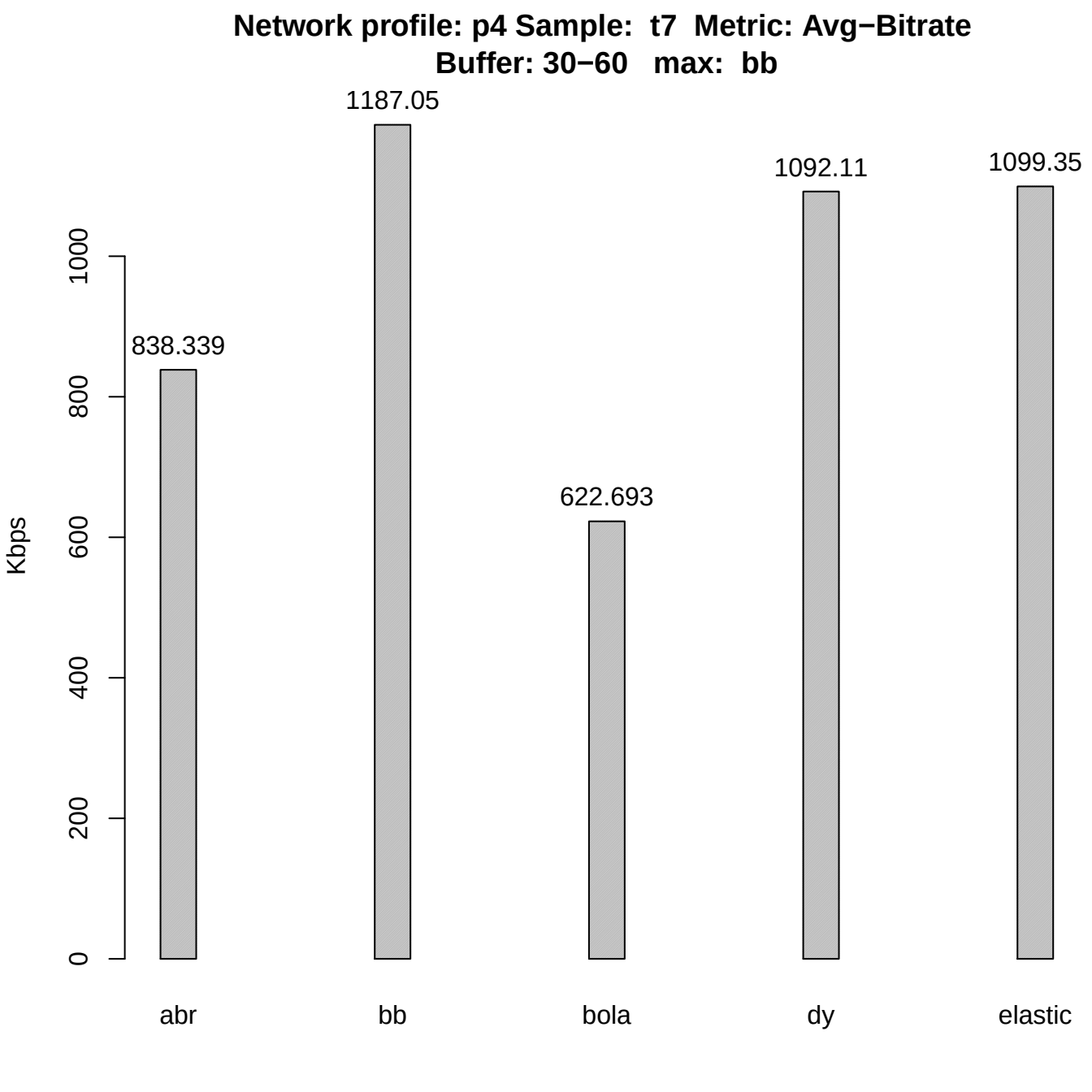

Network profile: p4 Sample: t5 Metric: Inefficiency
Buffer: 30−60 min: dy
0.394937
0.350815
0.381472
0.266531
0.273871
Inefficiency
0.0
0.1
0.2
0.3
abr
bb
bola
dy
elastic

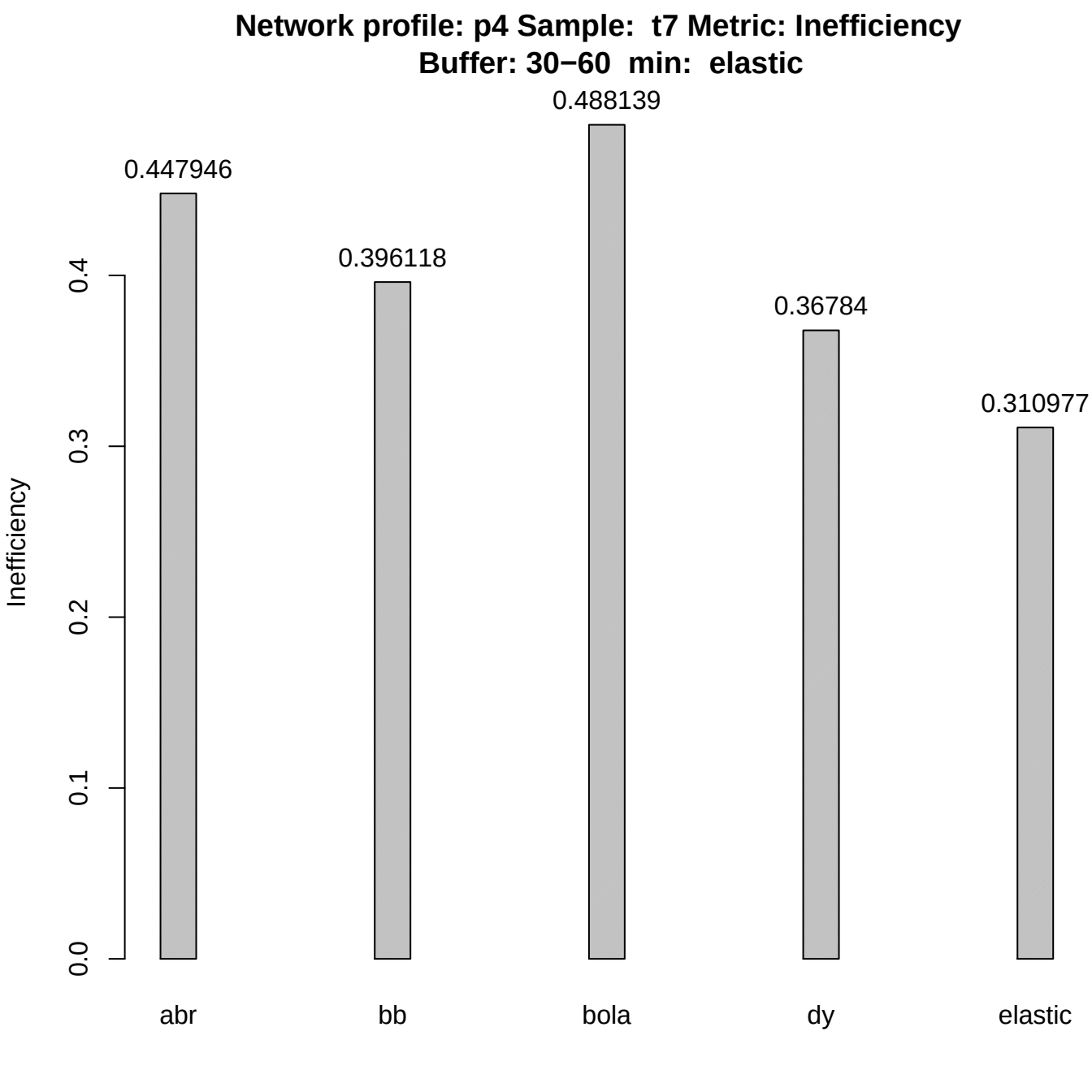

Network profile: p4 Sample: t5 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
20
40
60
80
80
18
7
17
24
abr
bb
bola
dy
elastic

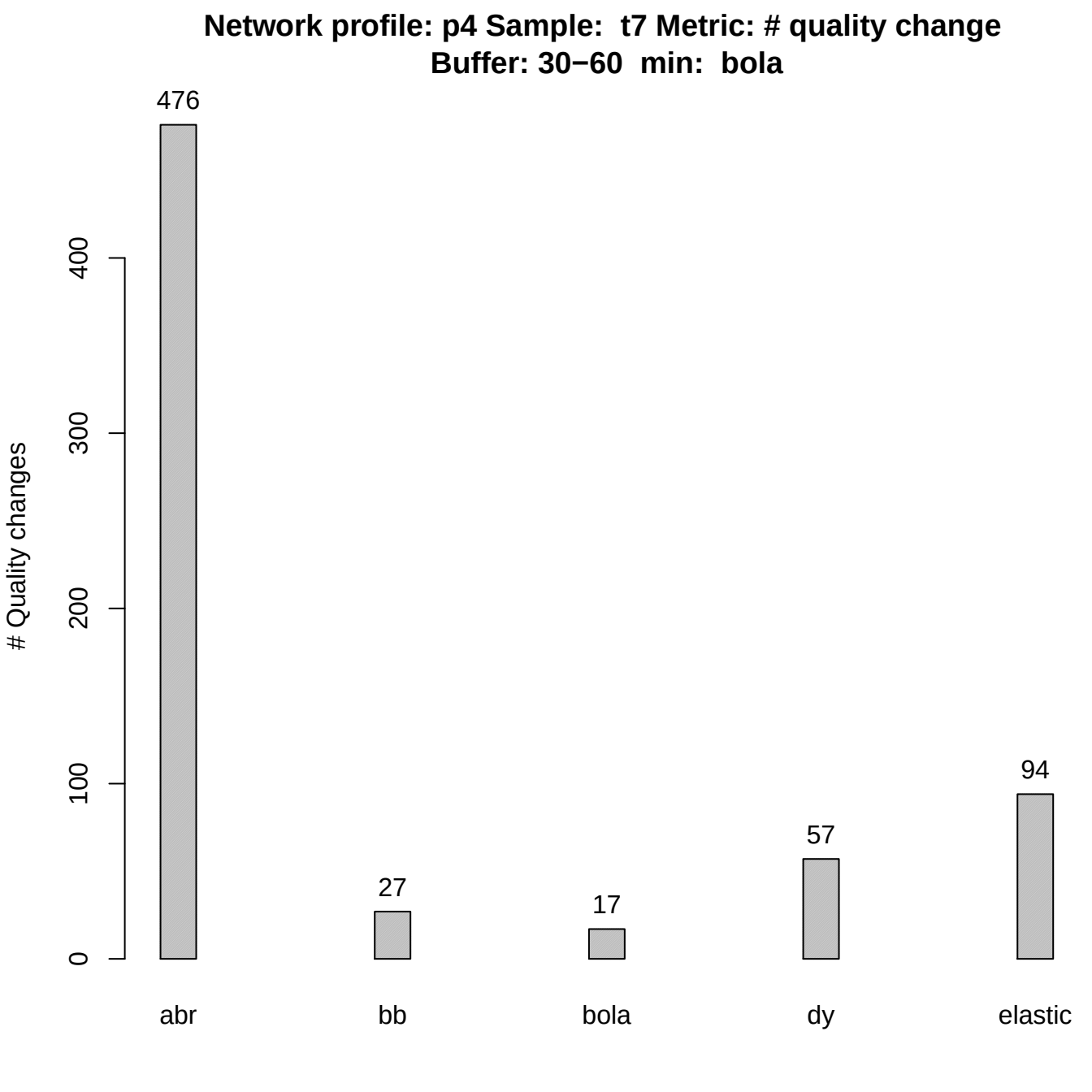

Network profile: p4 Sample: t6 Metric: Avg−Bitrate
Buffer: 30−60 max: abr
Kbps
0
200
400
600
800
1000
1200
1400
1499.85
1212.41
797.827
1020.19
1323.74
abr
bb
bola
dy
elastic


Network profile: p4 Sample: t6 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.302826
0.33999
0.399686
0.253107
0.230054
abr
bb
bola
dy
elastic


Network profile: p4 Sample: t6 Metric: # quality change
Buffer: 30−60 min: dy
Quality changes
0
100
200
300
400
500
600
700
739
48
86
35
136
abr
bb
bola
dy
elastic


Network profile: p4 Sample: t7 Metric: Avg−Bitrate
Buffer: 30−60 max: bb
Kbps
0
200
400
600
800
1000
838.339
1187.05
622.693
1092.11
1099.35
abr
bb
bola
dy
elastic


Network profile: p4 Sample: t7 Metric: Inefficiency
Buffer: 30−60 min: elastic
Inefficiency
0.0
0.1
0.2
0.3
0.4
0.447946
0.396118
0.488139
0.36784
0.310977
abr
bb
bola
dy
elastic


Network profile: p4 Sample: t7 Metric: # quality change
Buffer: 30−60 min: bola
Quality changes
0
100
200
300
400
476
27
17
57
94
abr
bb
bola
dy
elastic