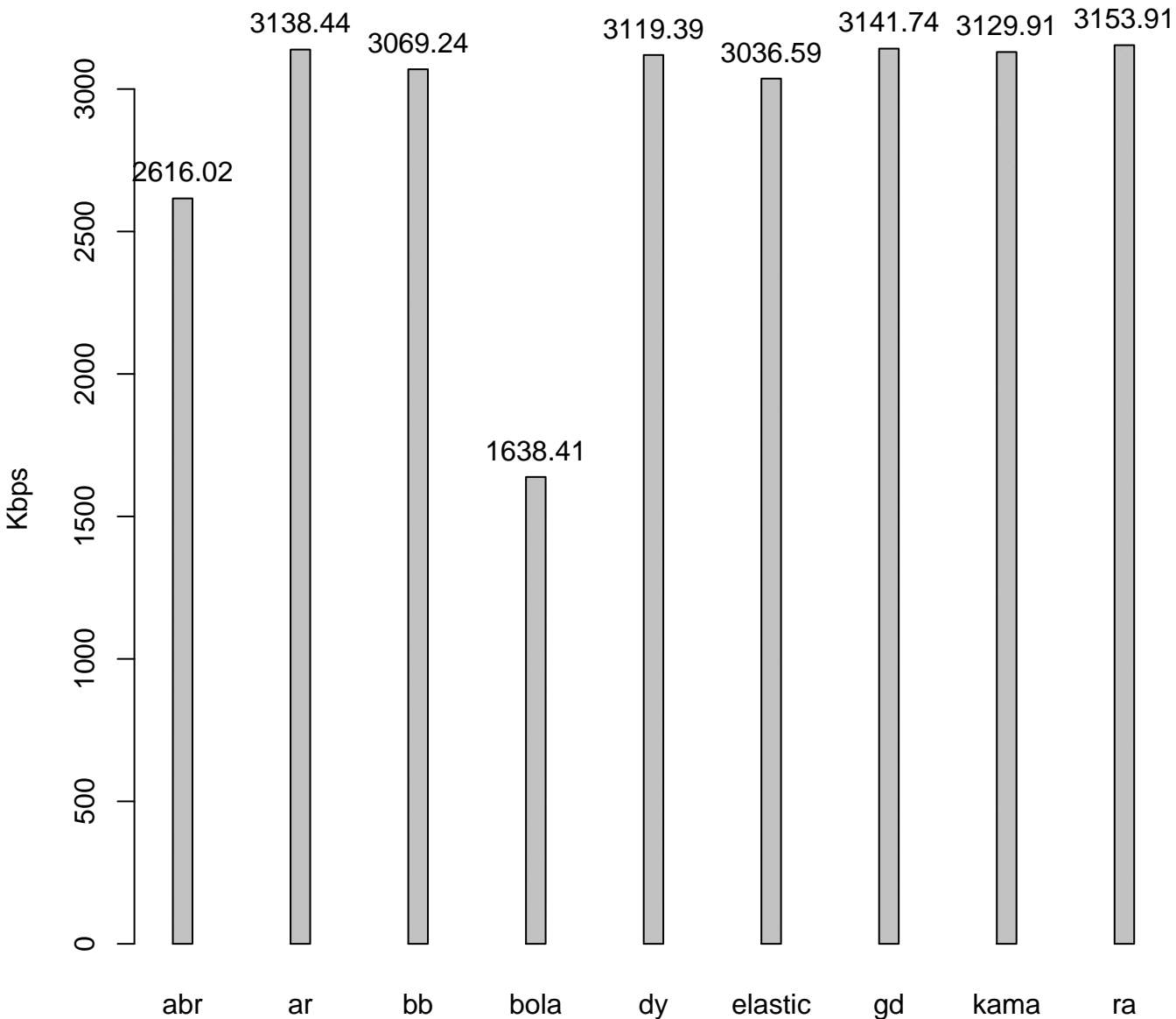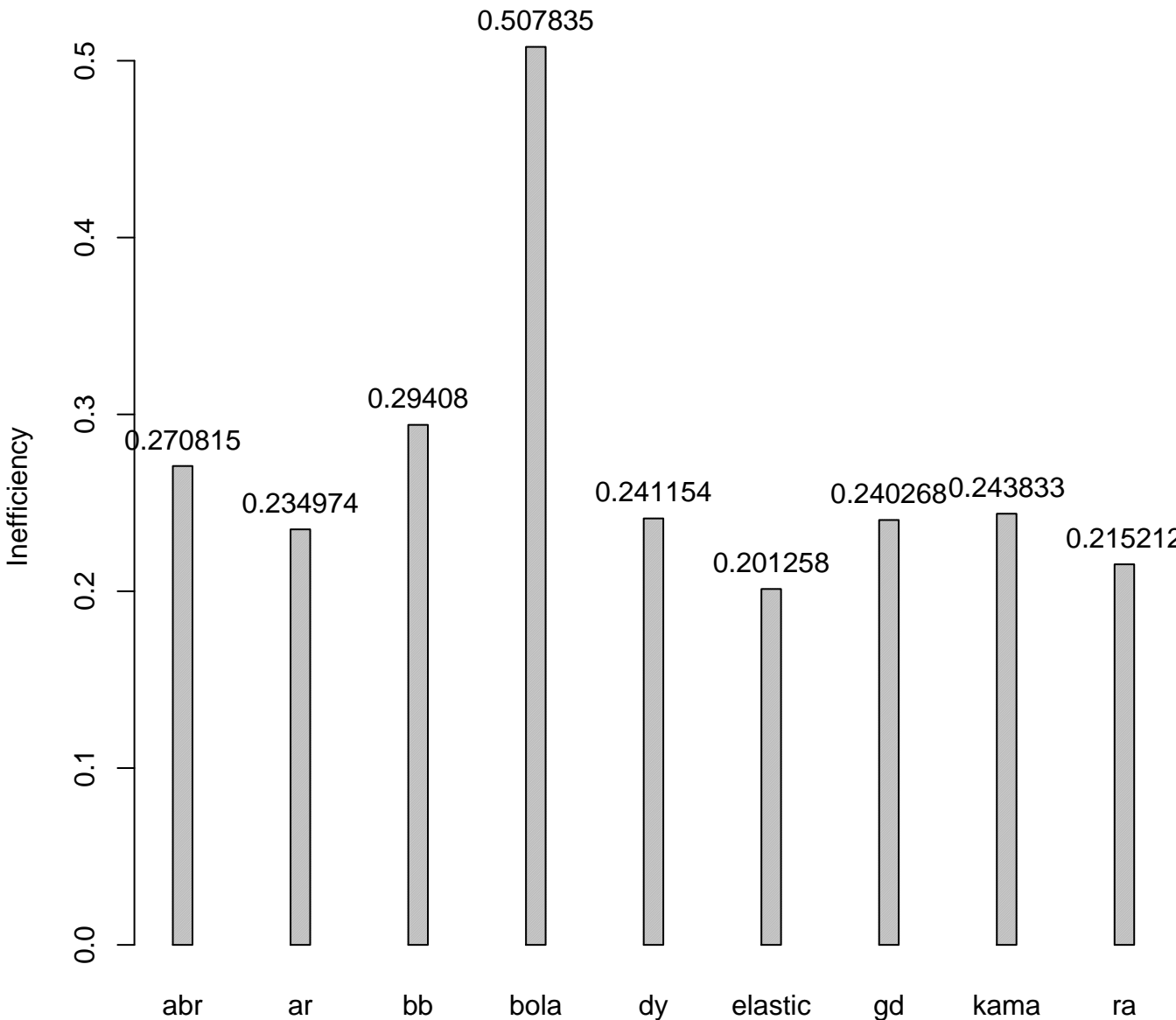**Network profile: p1 Sample: t1 Metric: Avg−Bitrate**
Buffer: 30/60 max: ra

Network profile: p1 Sample: t1 Metric: Inefficiency
Buffer: 30/60   min: elastic

Network profile: p1 Sample: t1 Metric: # quality change
Buffer: 30/60   min: bola

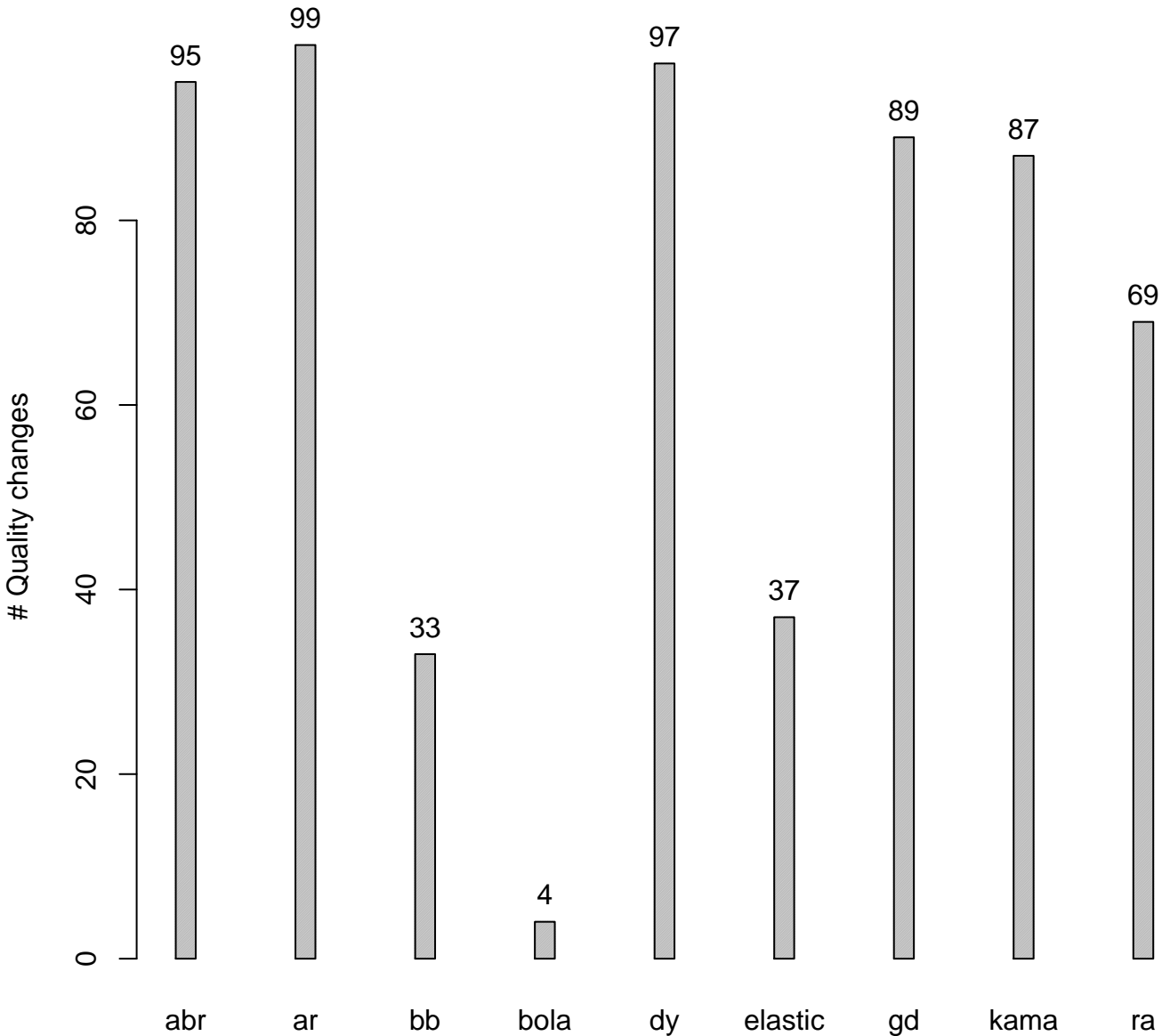**Network profile: p1 Sample: t2 Metric: Avg−Bitrate**
Buffer: 30/60 max: gd

Network profile: p1 Sample: t2 Metric: Inefficiency
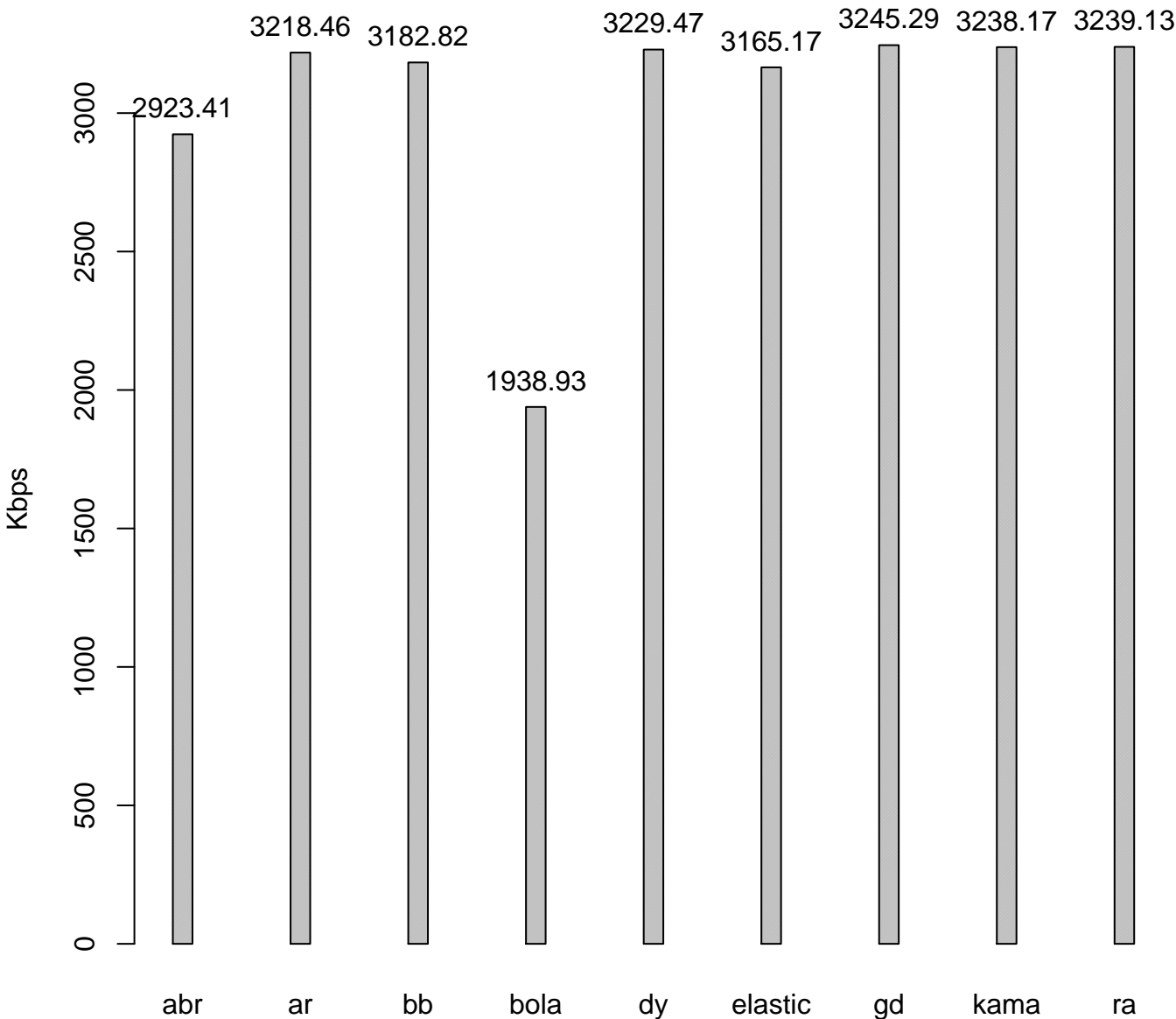**Buffer: 30/60   min: kama**

Network profile: p1 Sample: t2 Metric: # quality change
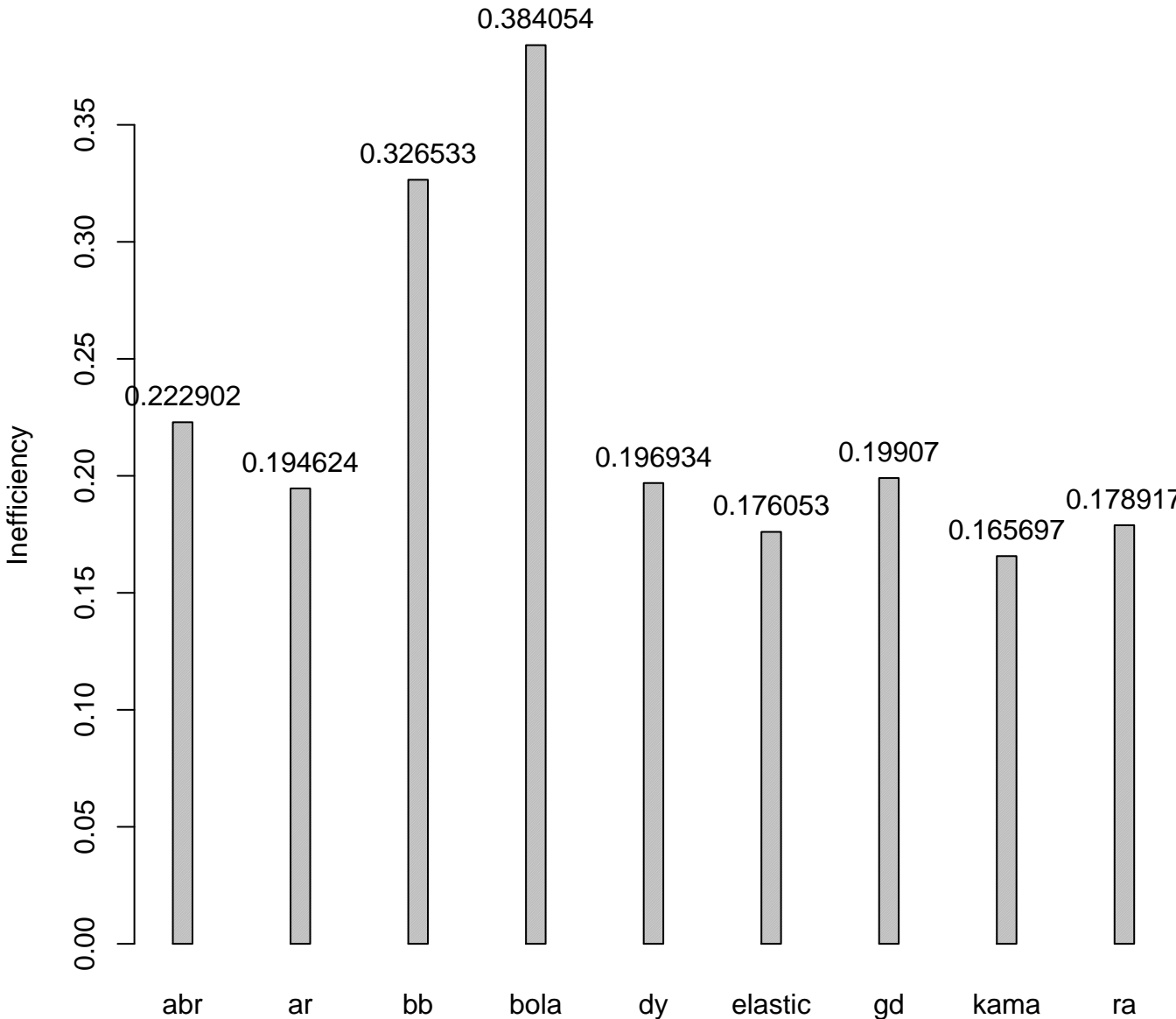**Buffer: 30/60   min: bola**

Network profile: p1 Sample: t3 Metric: Avg−Bitrate
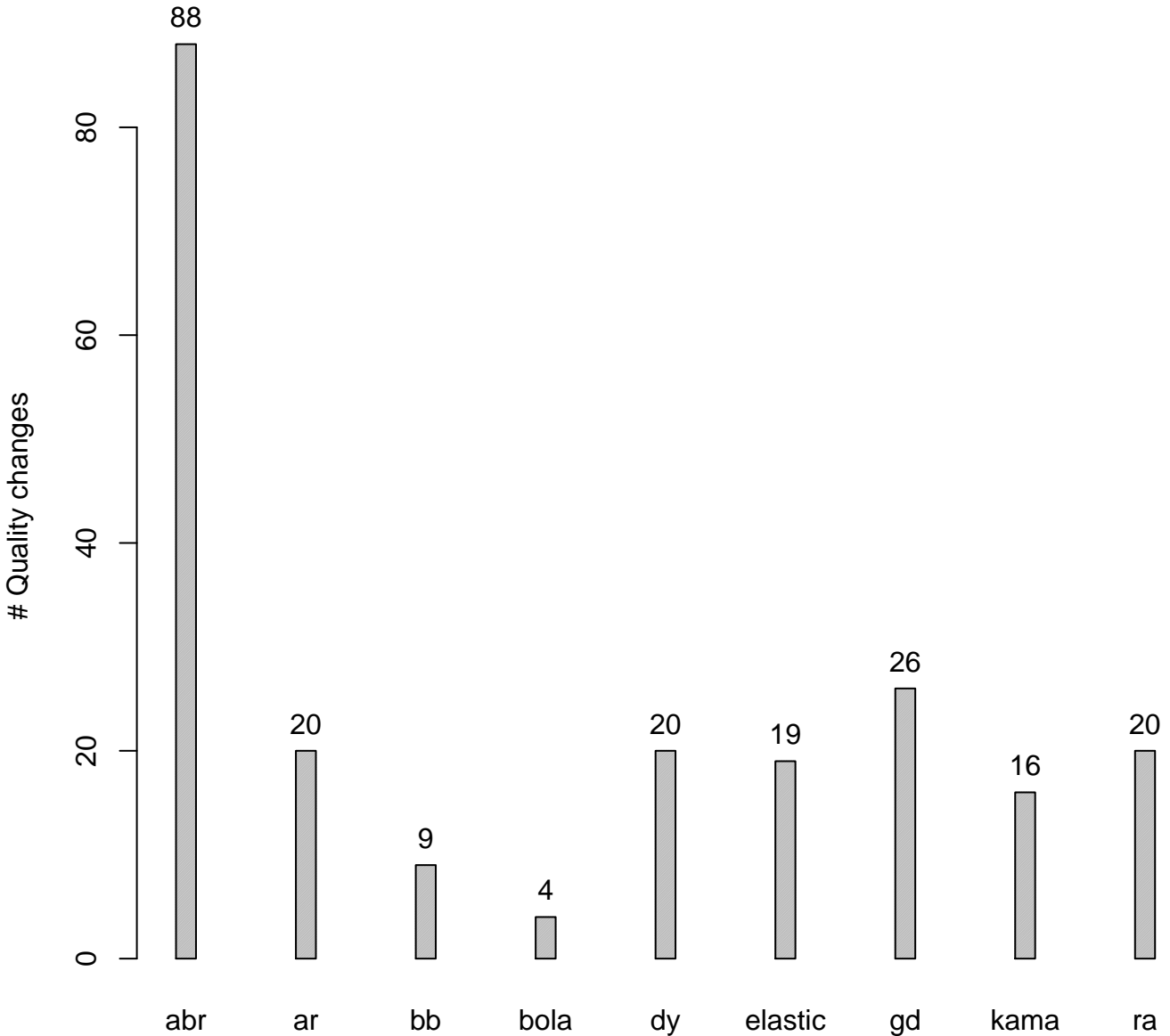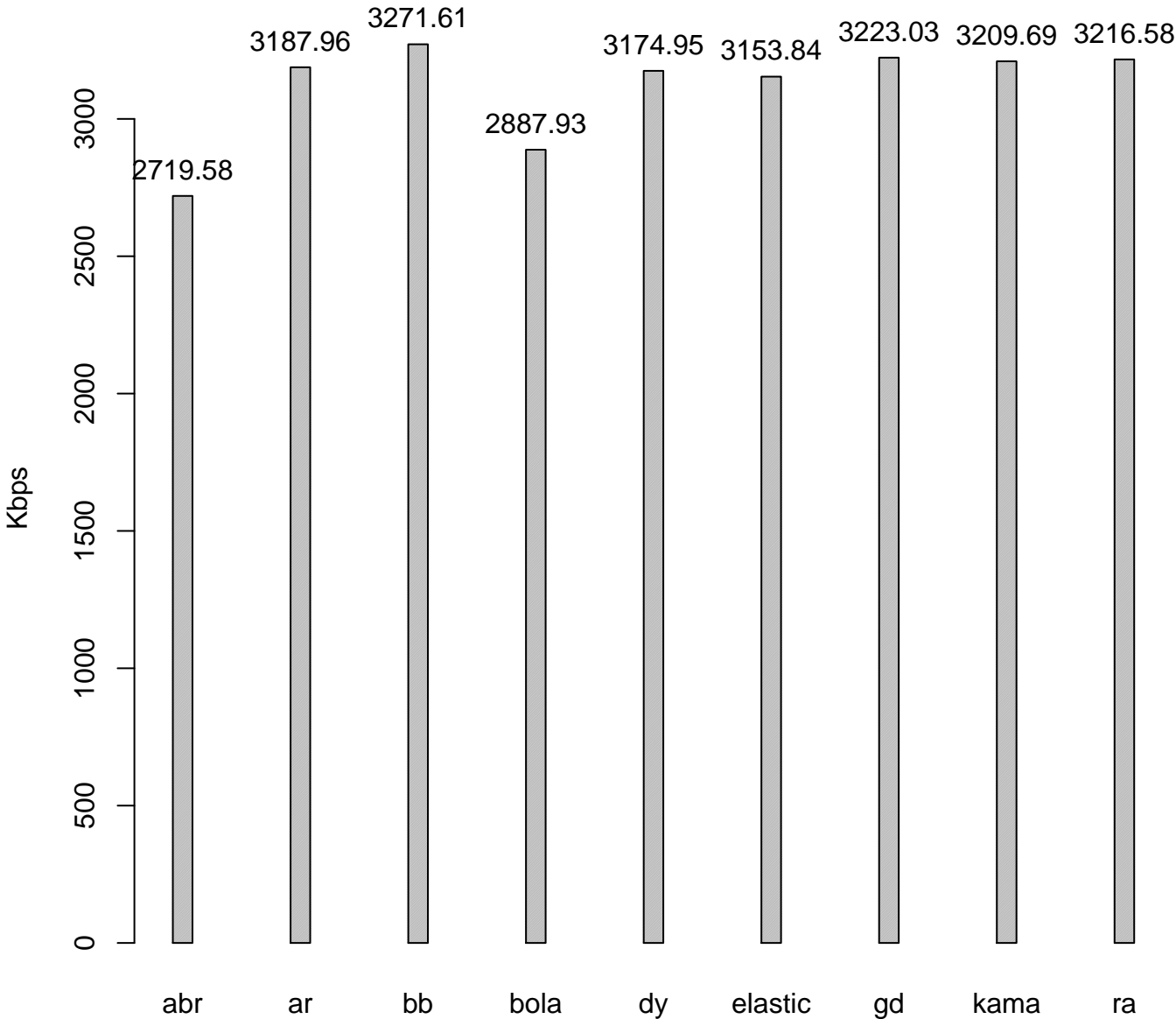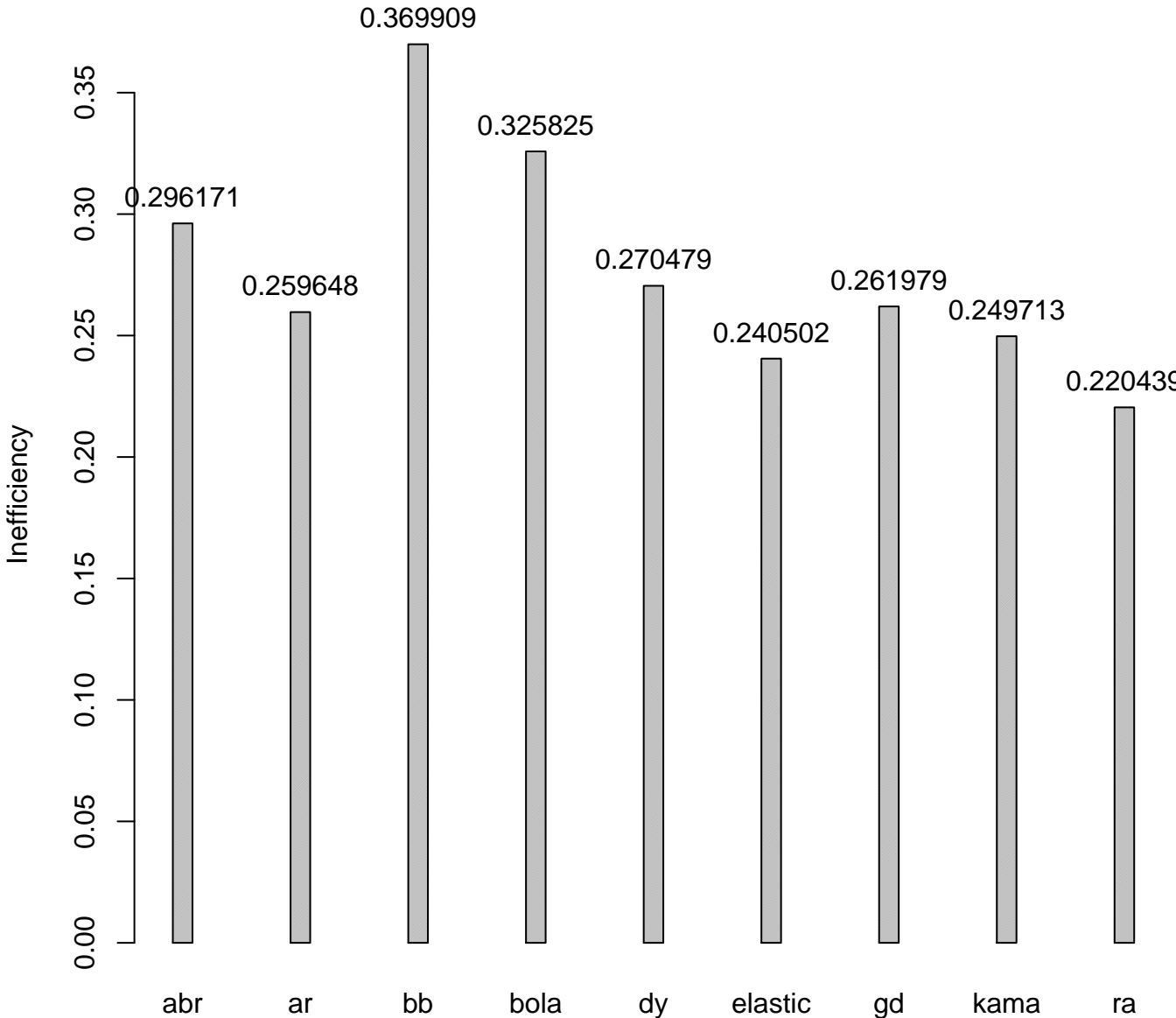**Buffer: 30/60   max: bb**

Network profile: p1 Sample: t3 Metric: Inefficiency
Buffer: 30/60   min: ra

Network profile: p1 Sample: t3 Metric: # quality change
Buffer: 30/60   min: bola

Quality changes

146

37

25   25   27   25

23

9

7

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p1 Sample: t4 Metric: Avg−Bitrate
Buffer: 30/60 max: ra

Network profile: p1 Sample: t4 Metric: Inefficiency
Buffer: 30/60   min: kama

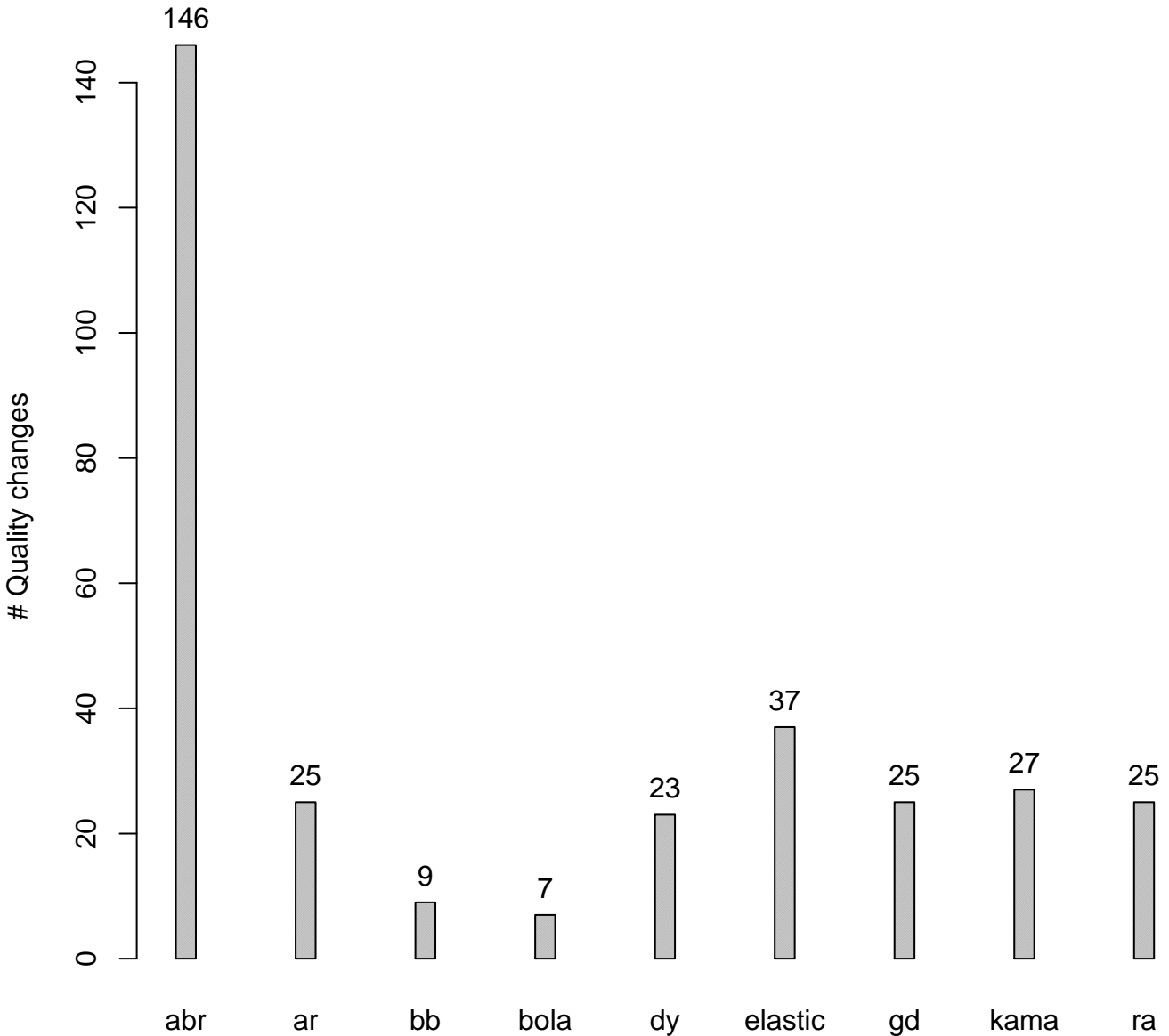**Network profile: p1 Sample: t4 Metric: # quality change**
Buffer: 30/60   min: bola

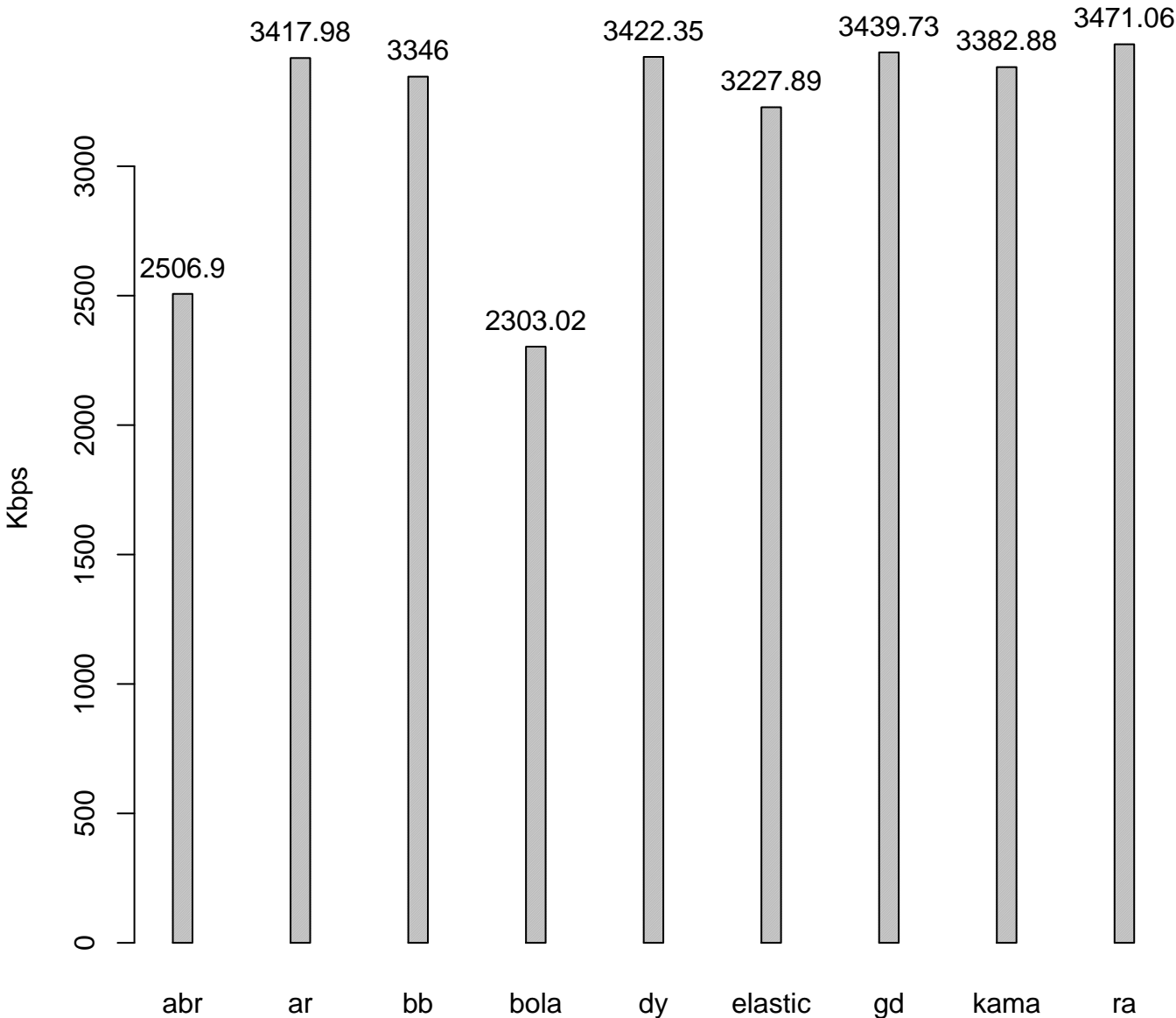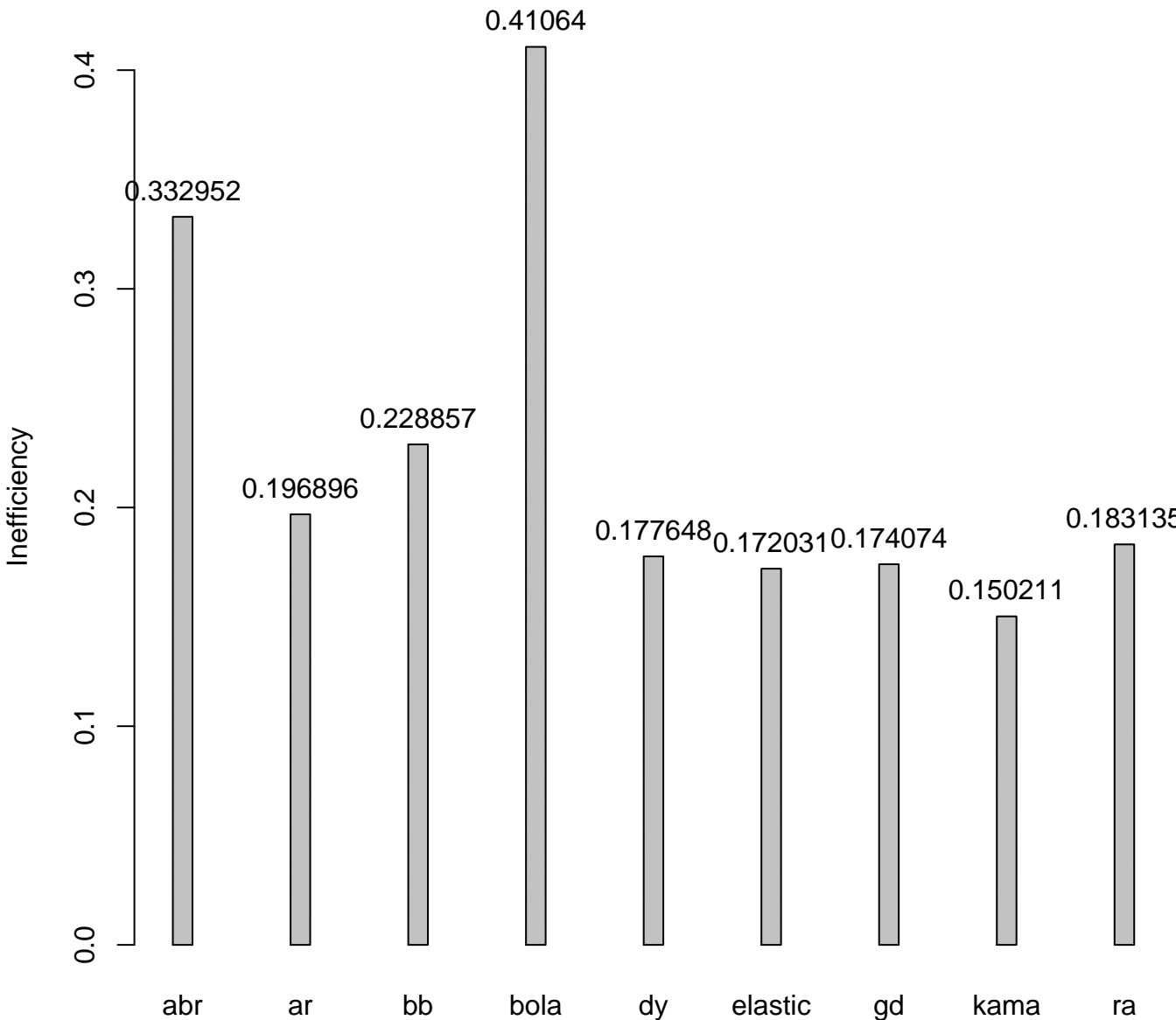**Network profile: p1 Sample: t5 Metric: Avg−Bitrate**
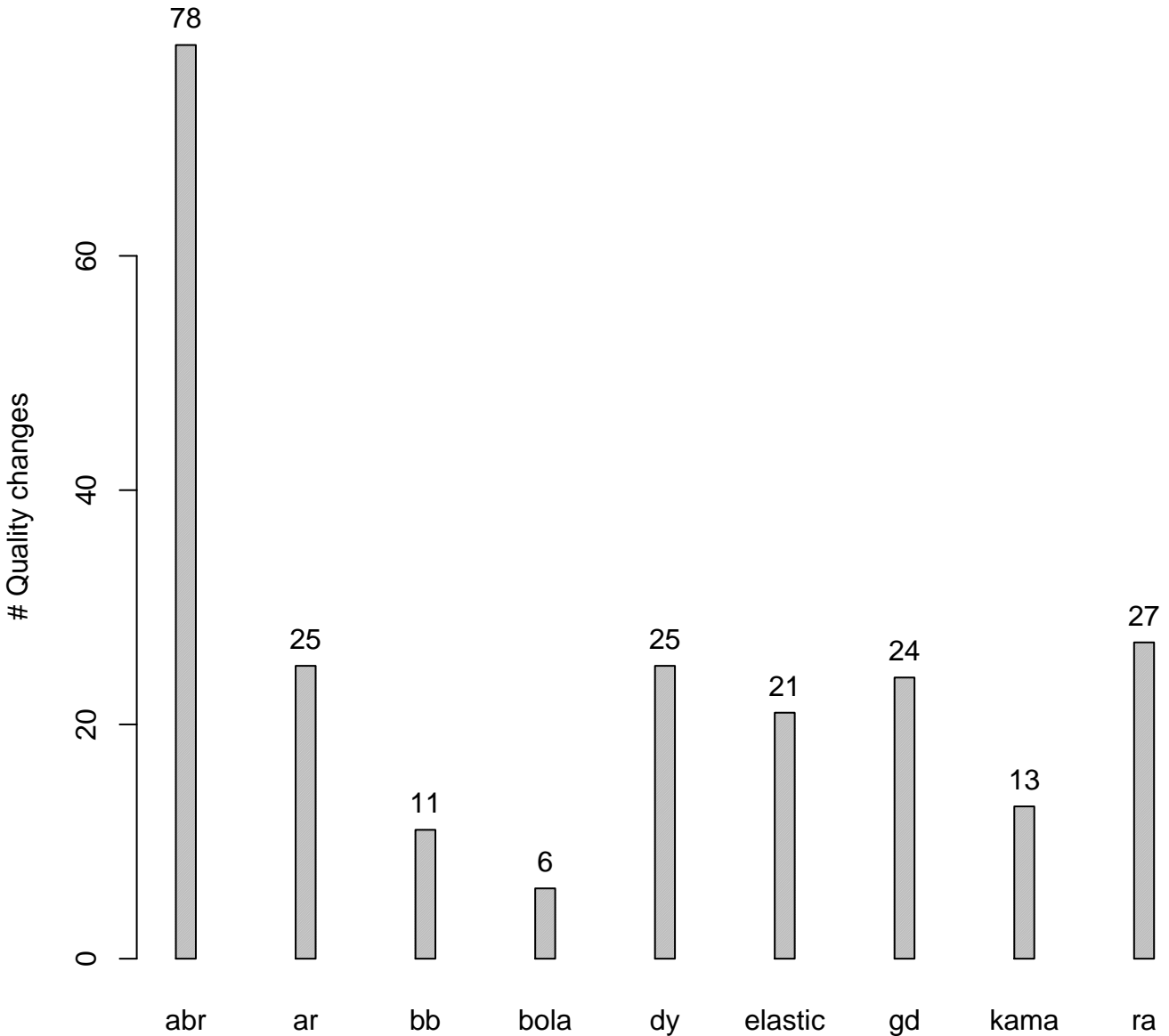**Buffer: 30/60 max: kama**

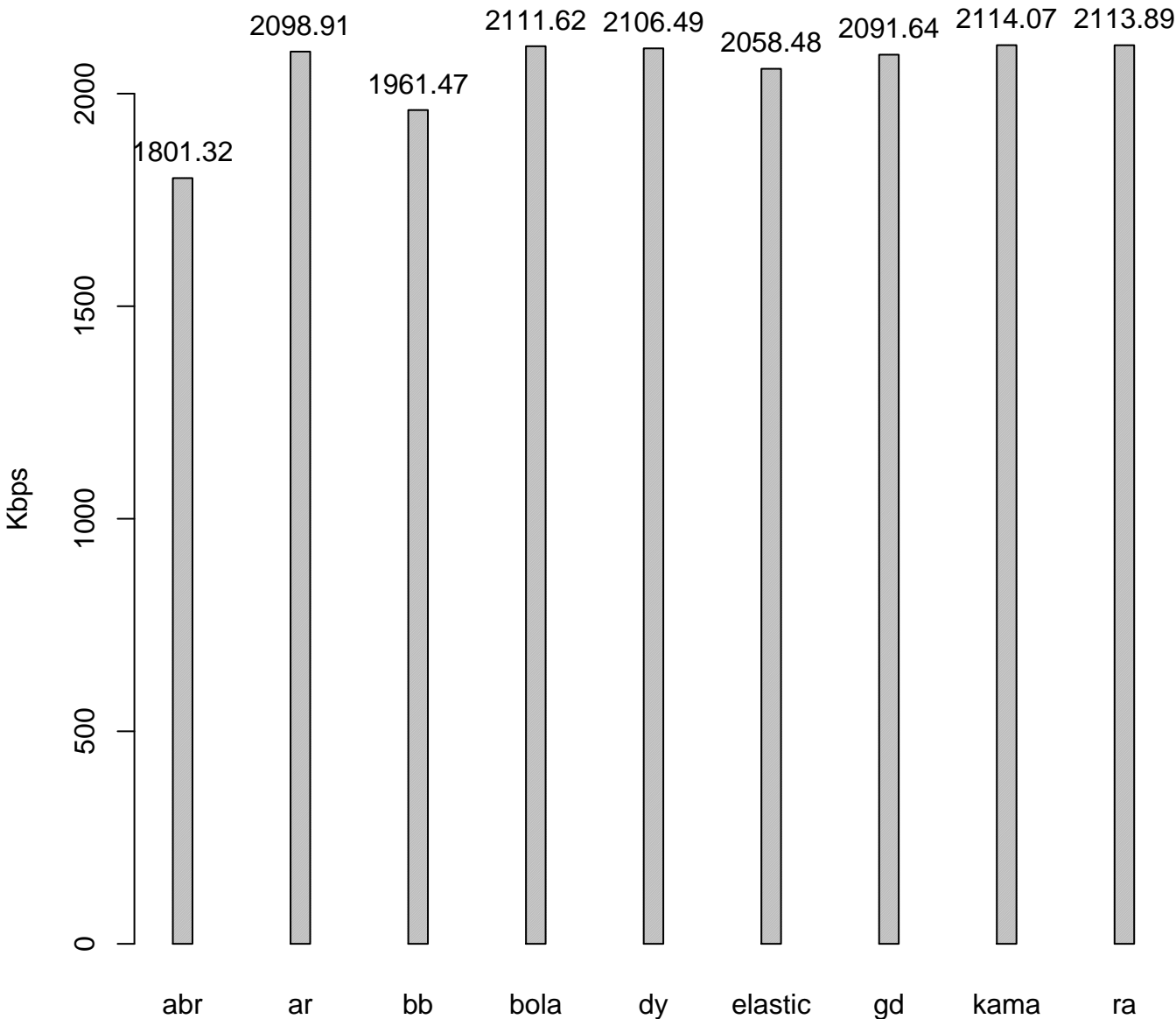**Network profile: p1 Sample: t5 Metric: Inefficiency**
Buffer: 30/60   min: ar

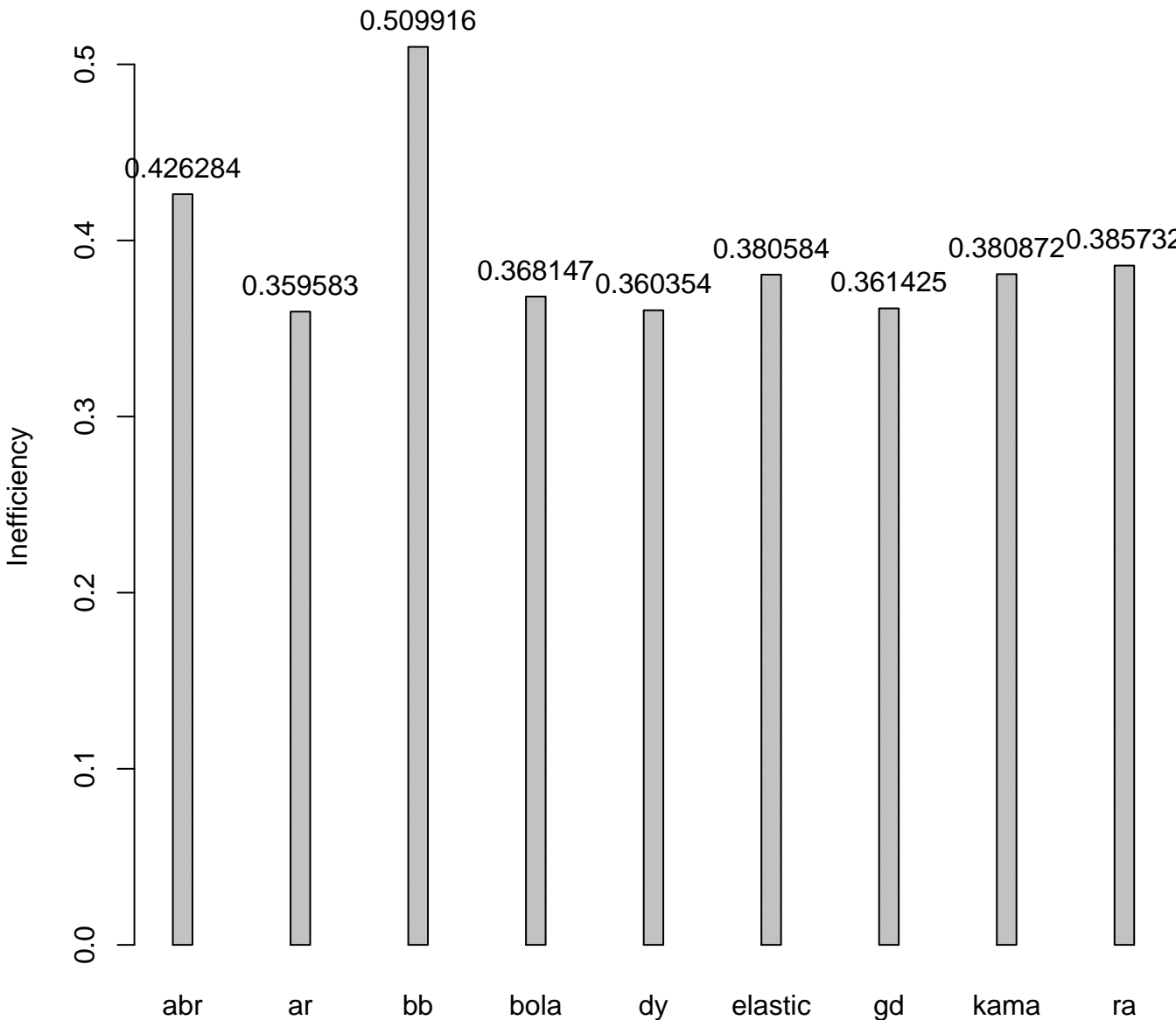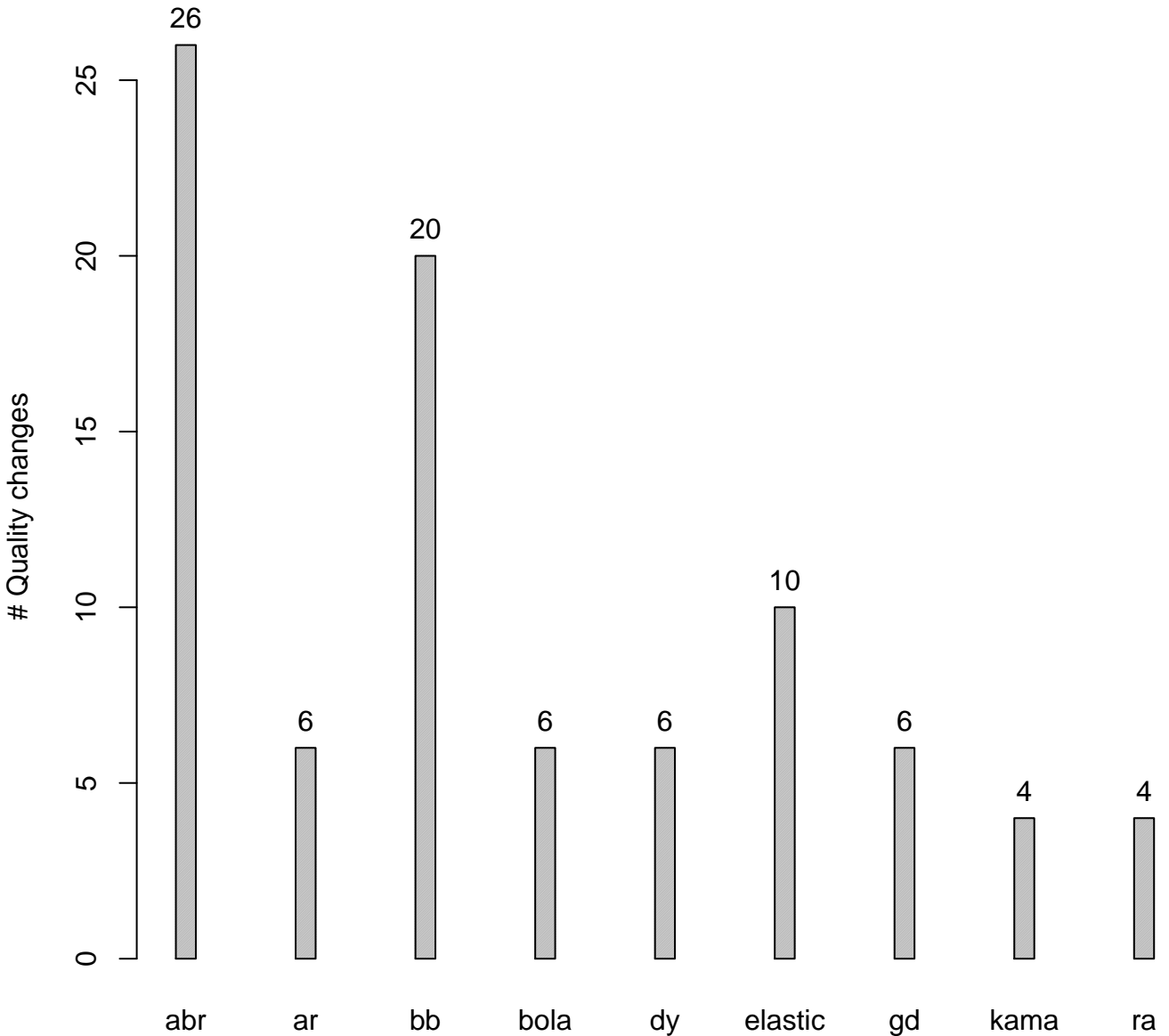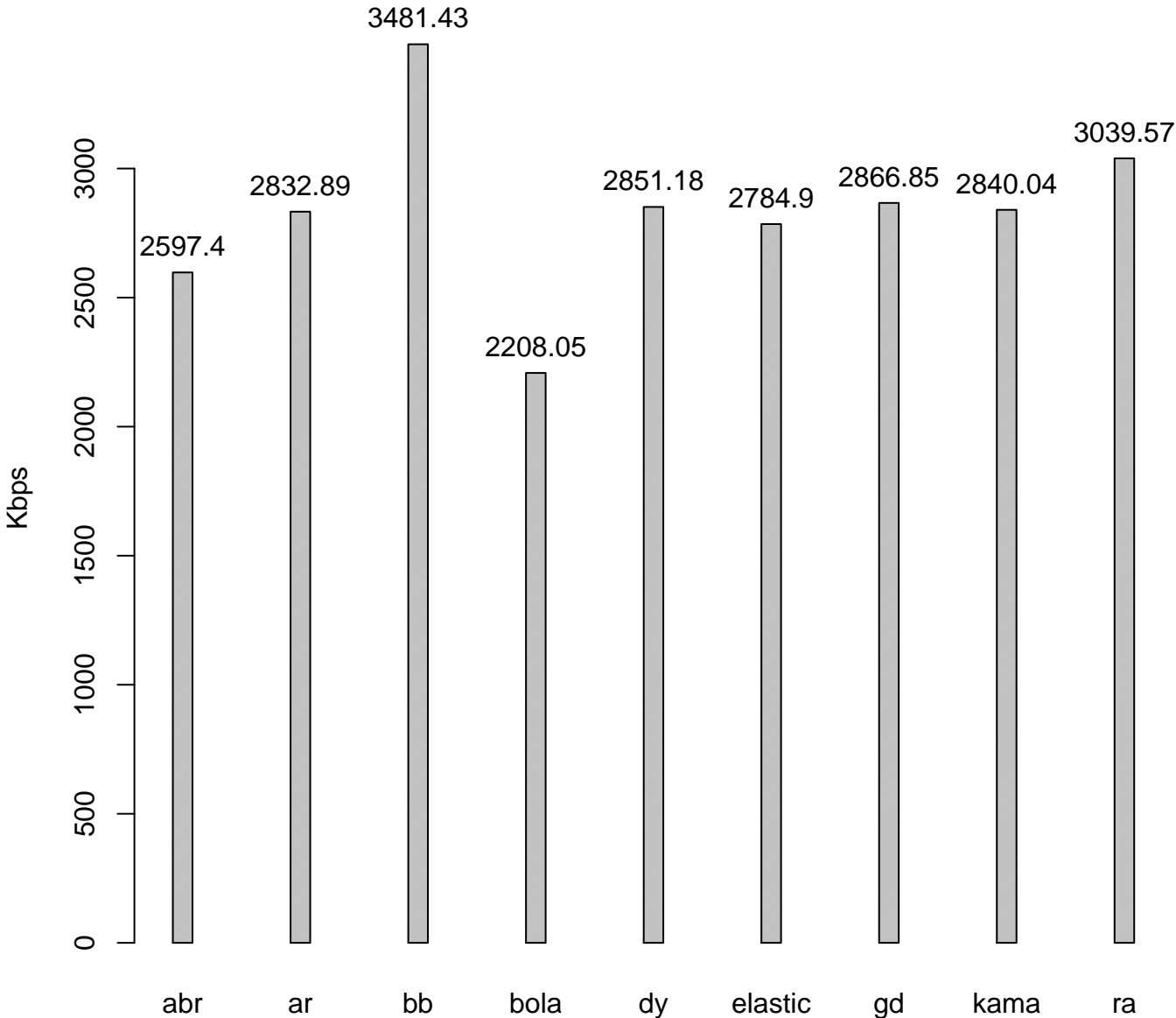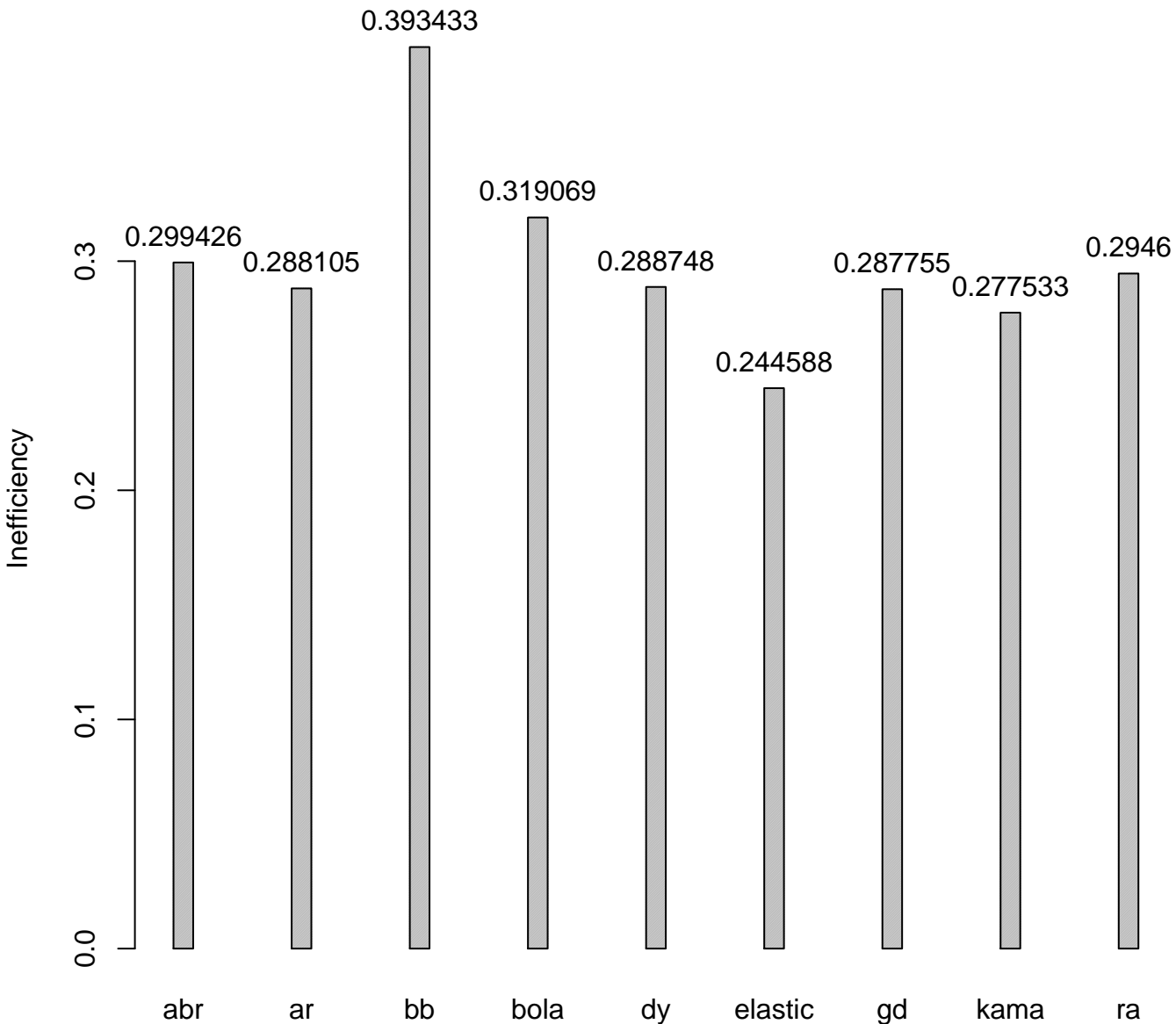**Network profile: p1 Sample: t5 Metric: # quality change**
Buffer: 30/60   min: kama

Network profile: p1 Sample: t6 Metric: Avg−Bitrate
Buffer: 30/60   max: bb

Network profile: p1 Sample: t6 Metric: Inefficiency
Buffer: 30/60   min: elastic

Inefficiency

abr: 0.299426
ar: 0.288105
bb: 0.393433
bola: 0.319069
dy: 0.288748
elastic: 0.244588
gd: 0.287755
kama: 0.277533
ra: 0.2946

Network profile: p1 Sample: t6 Metric: # quality change
Buffer: 30/60   min: ra

Network profile: p1 Sample: t7 Metric: Avg−Bitrate
Buffer: 30/60   max: gd

Kbps

2580.9   2715.41   2612.64   2635.24   2658.29   2662.98   2742.77   2716.72   2730.93

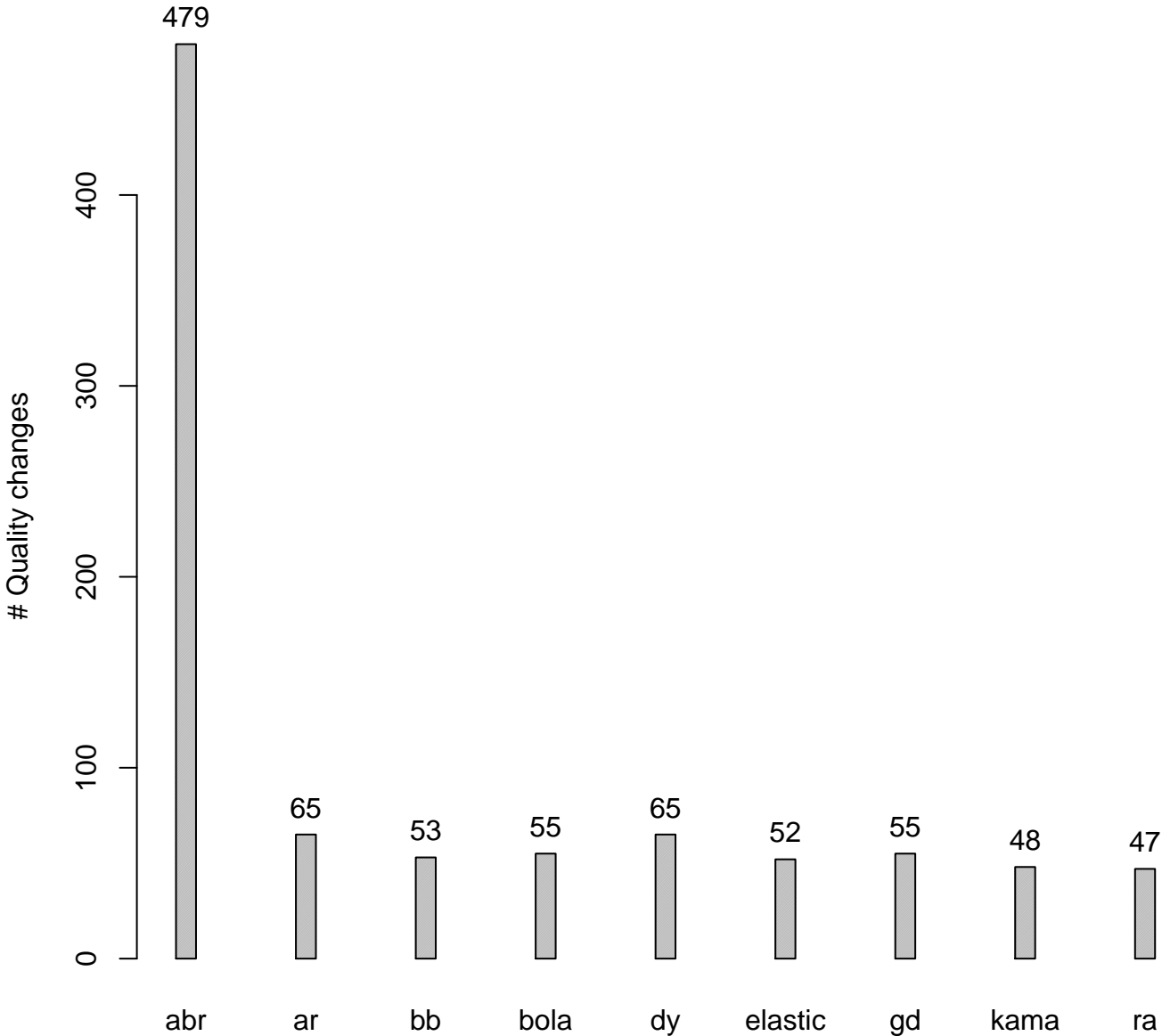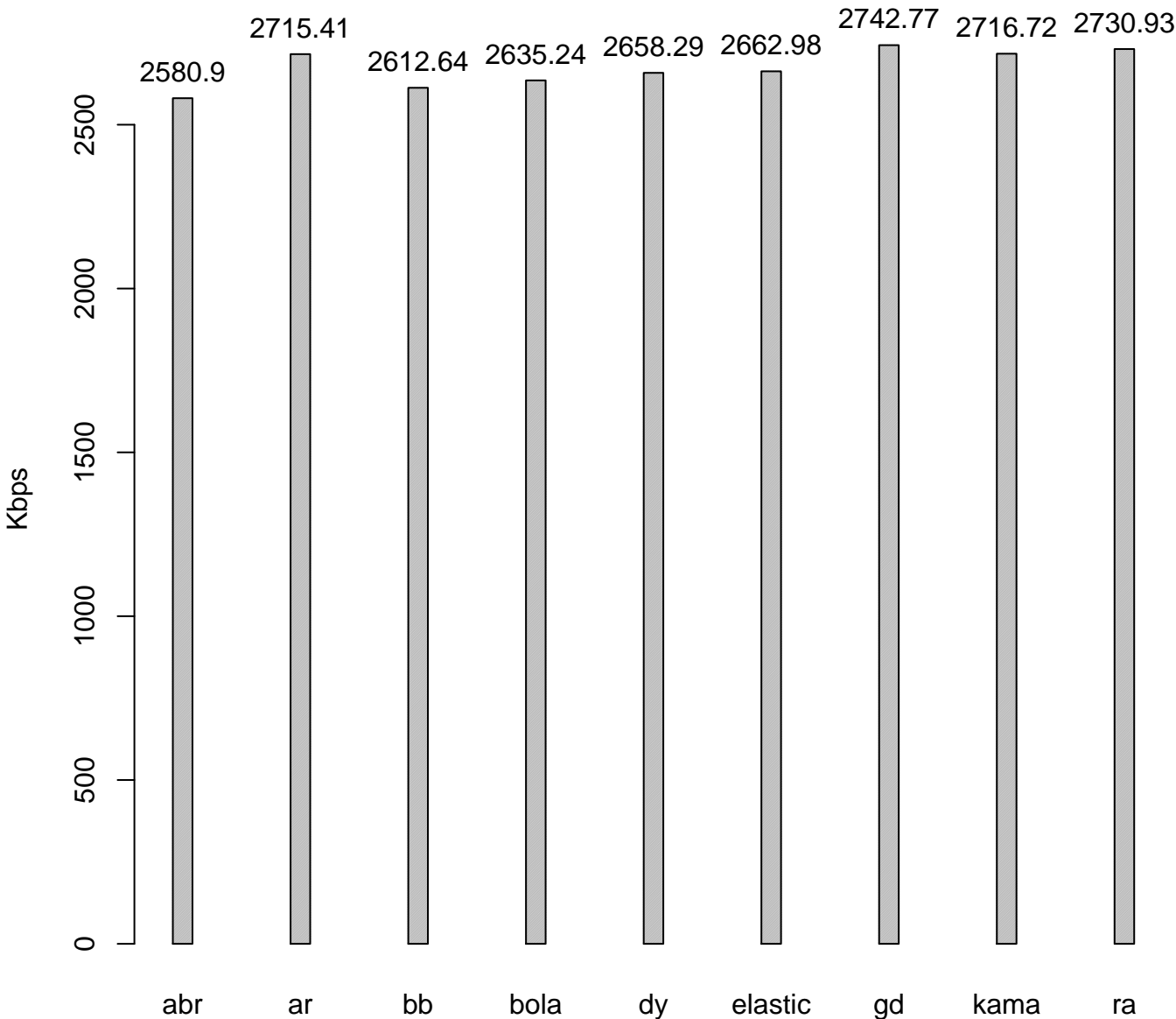abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p1 Sample: t7 Metric: Inefficiency
Buffer: 30/60 min: elastic

Network profile: p1 Sample: t7 Metric: # quality change
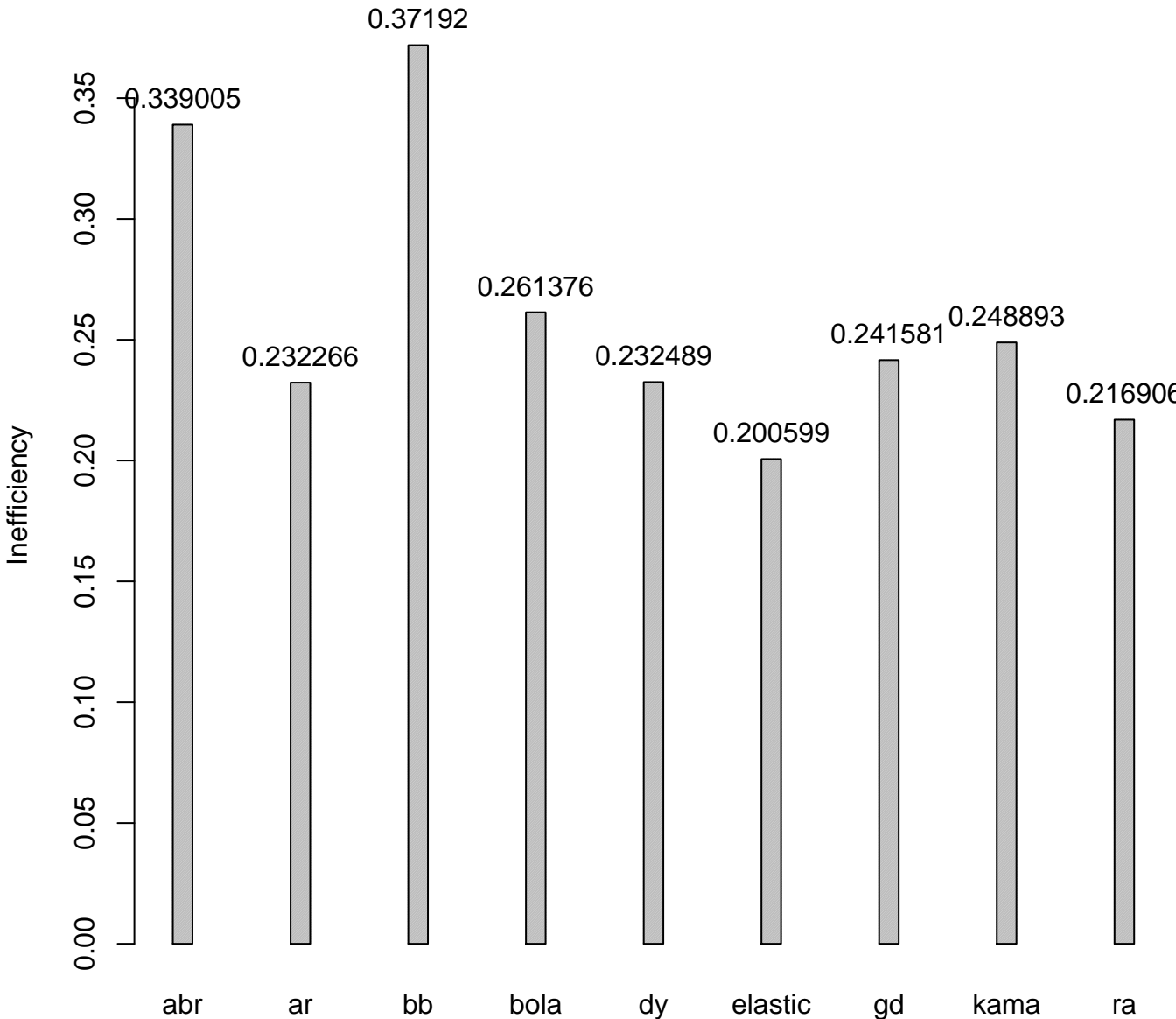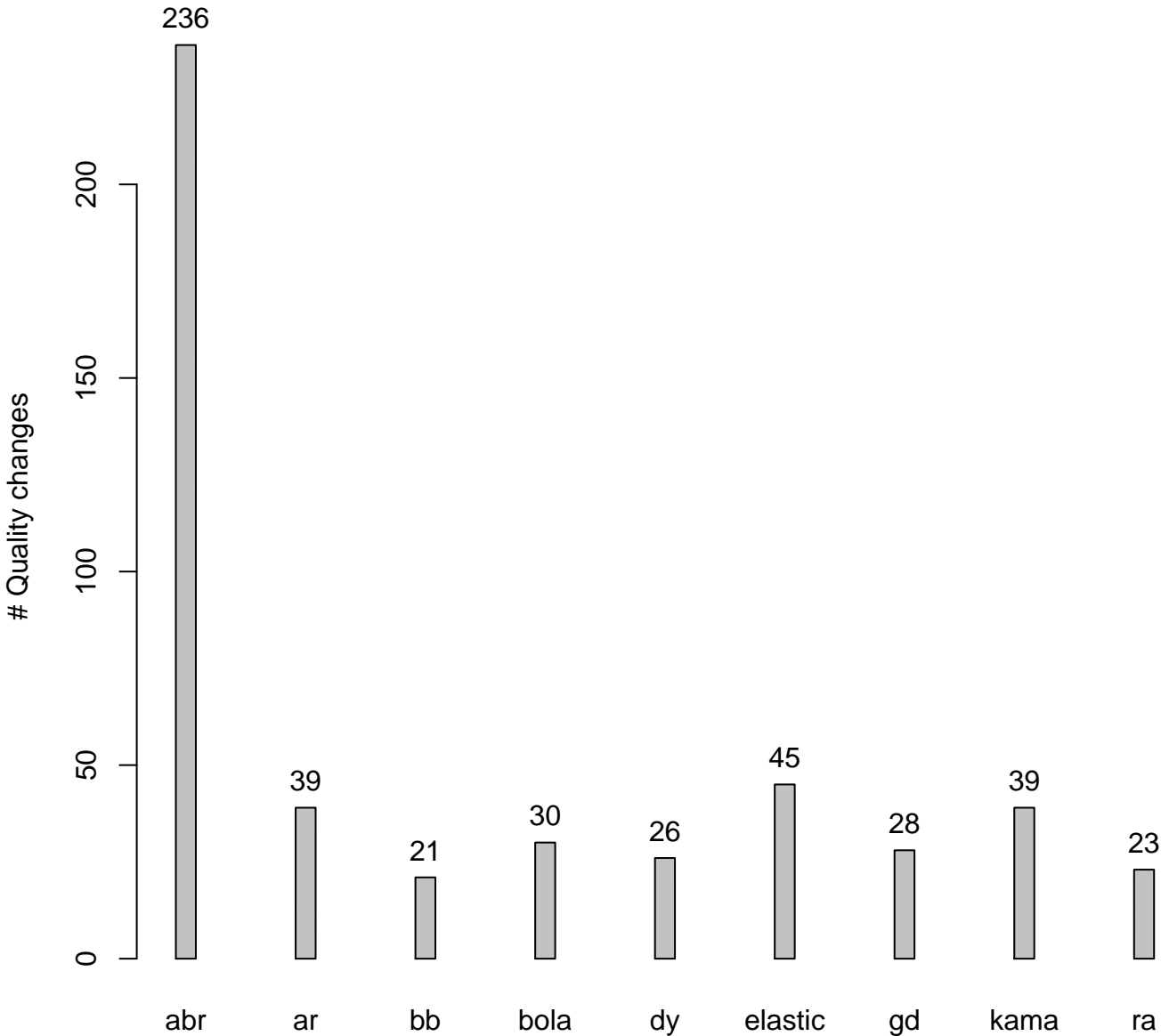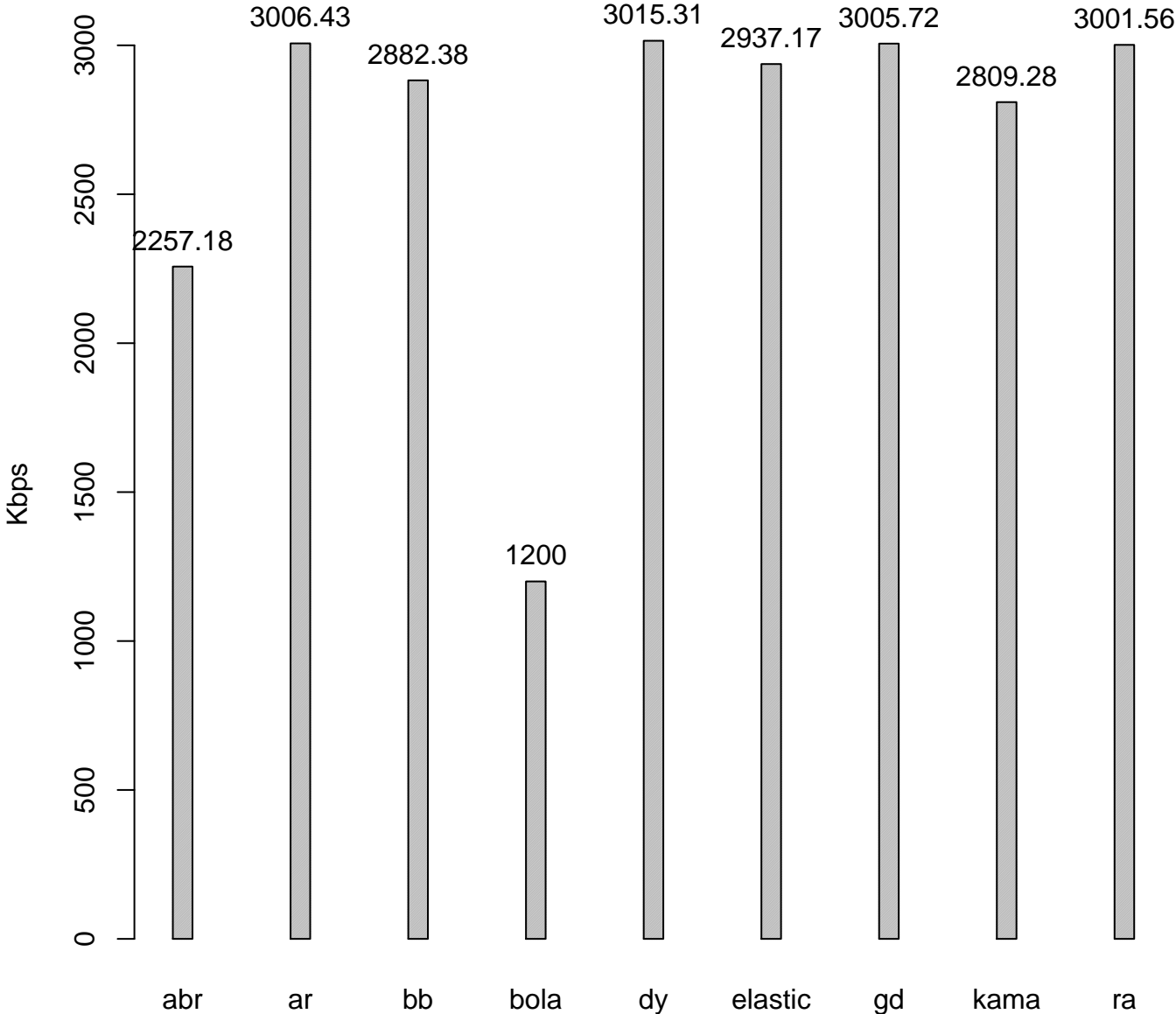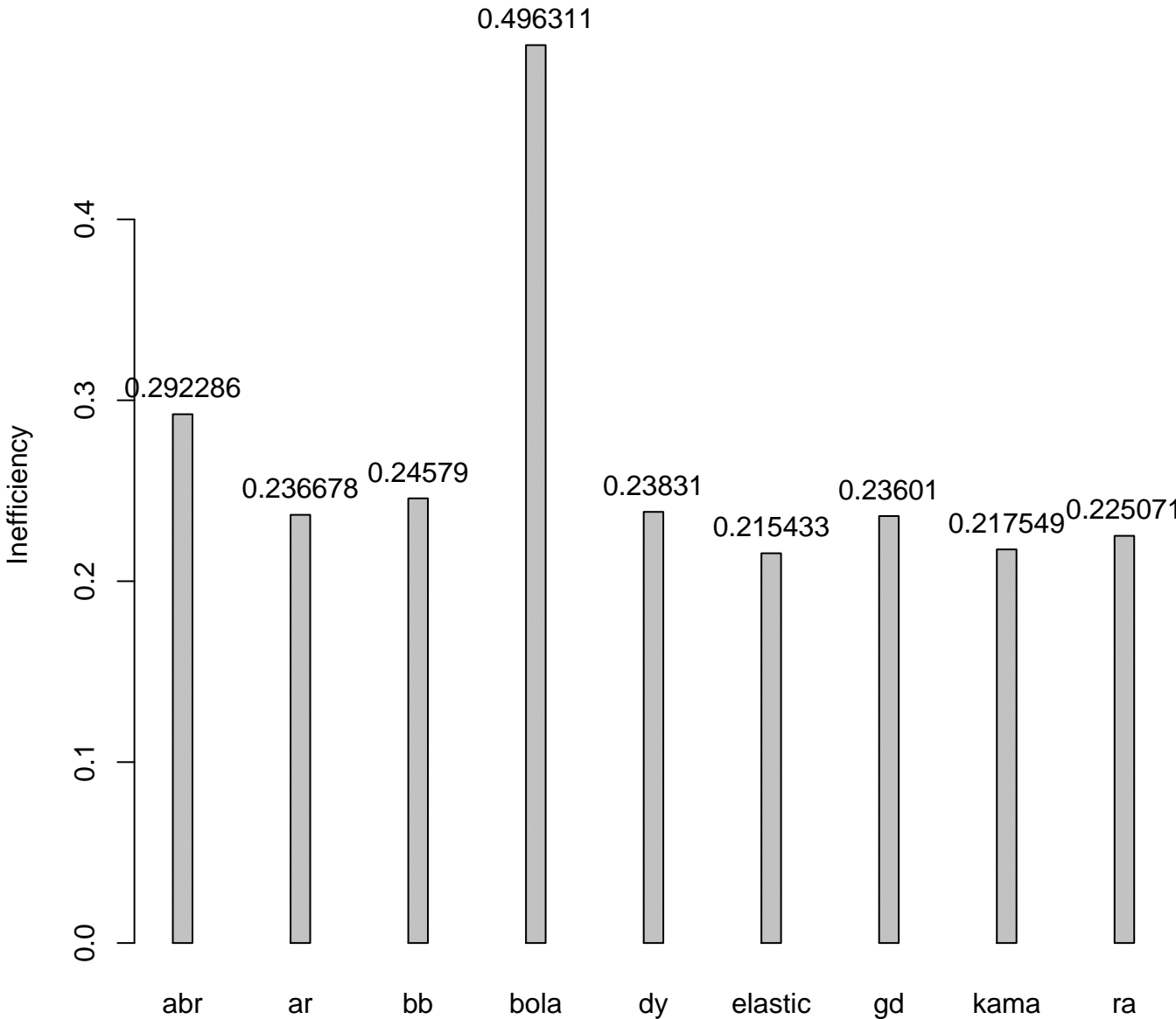**Buffer: 30/60   min: bb**

Network profile: p2 Sample: t1 Metric: Avg−Bitrate
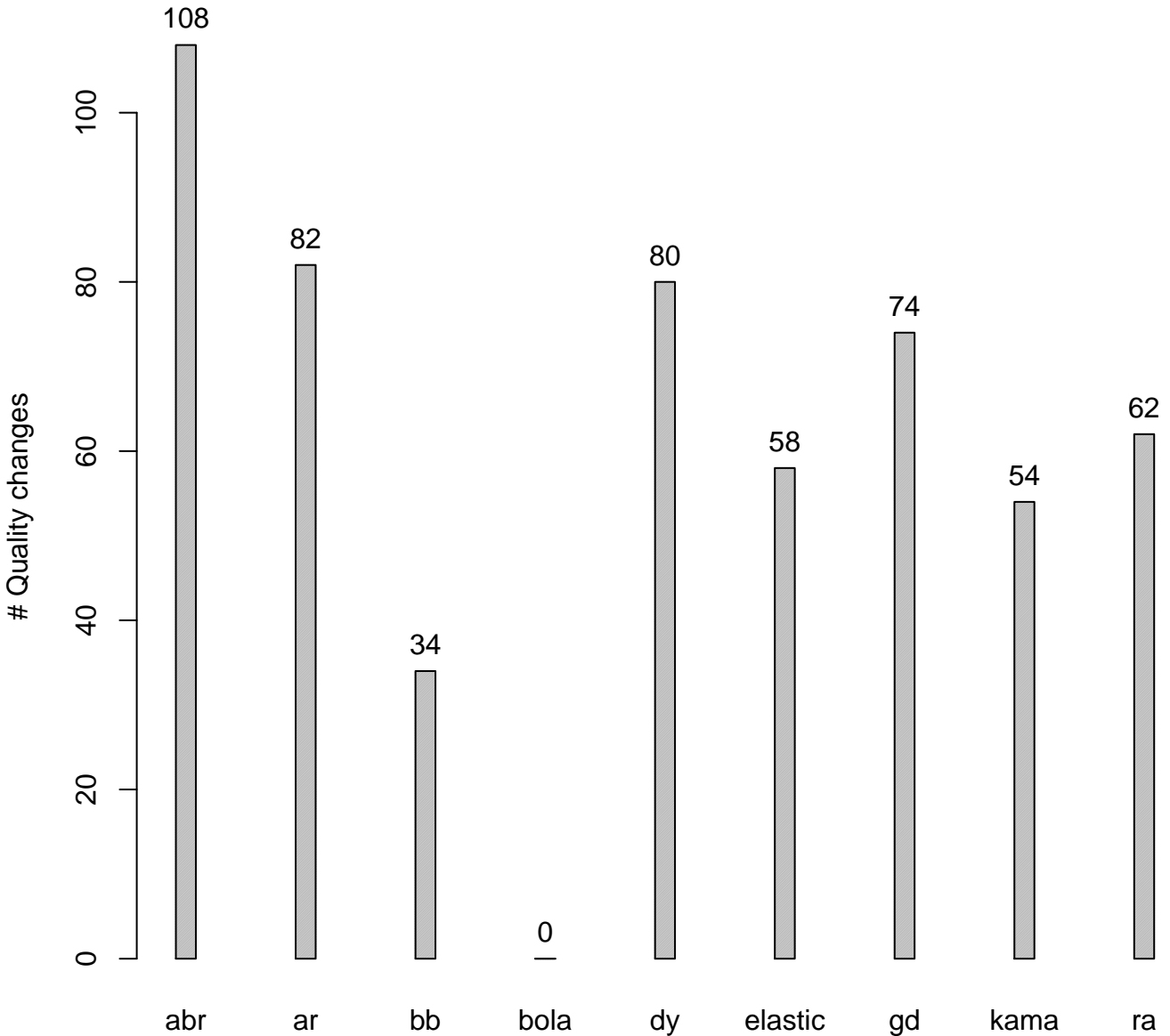**Buffer: 30/60 max: dy**
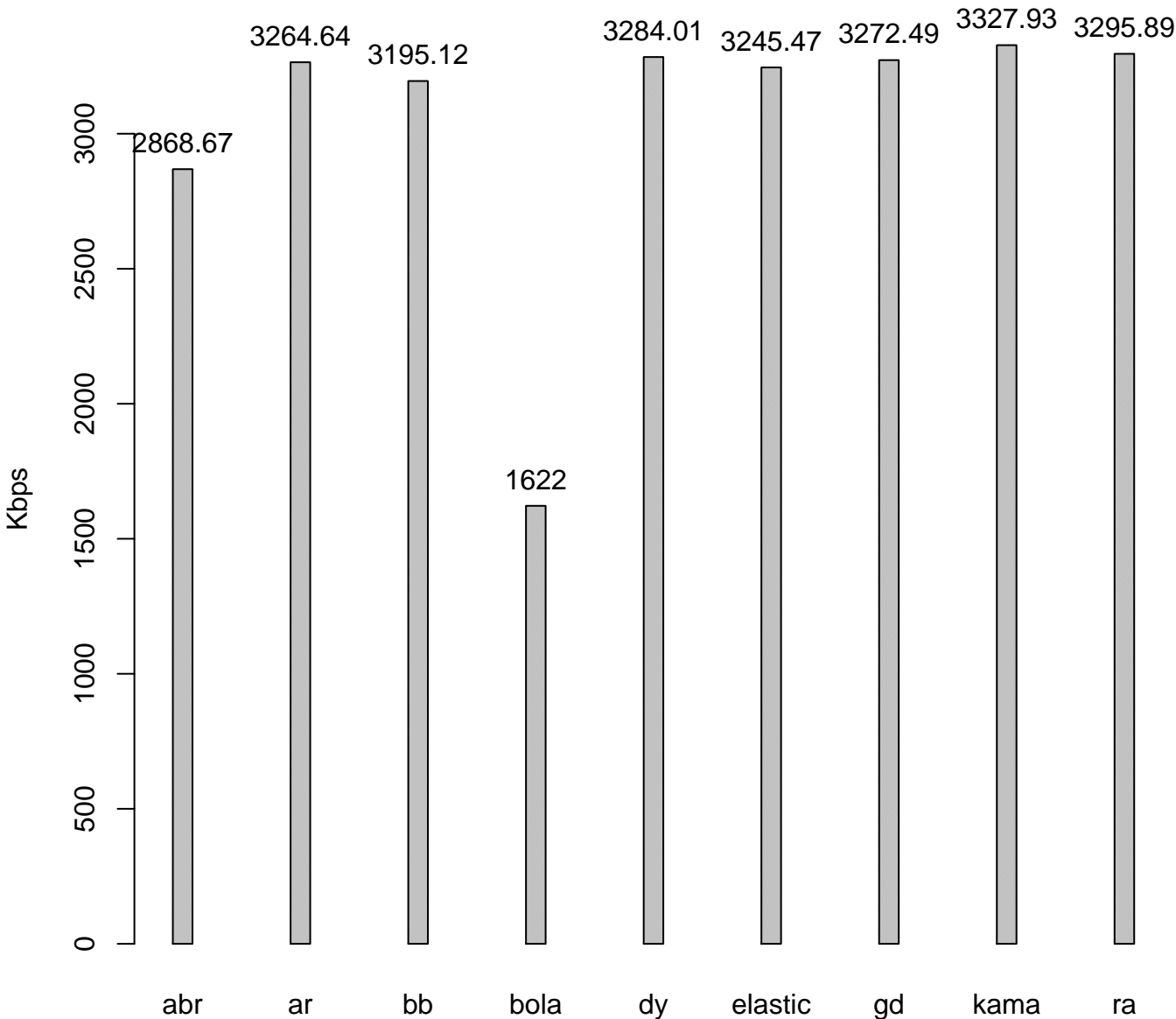
Network profile: p2 Sample: t1 Metric: Inefficiency
Buffer: 30/60   min: elastic

Network profile: p2 Sample: t1 Metric: # quality change
Buffer: 30/60   min: bola

Quality changes

108

82

34

0

80

58

74

54

62

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p2 Sample: t2 Metric: Avg−Bitrate
Buffer: 30/60 max: kama

Kbps

	abr	ar	bb	bola	dy	elastic	gd	kama	ra
	2868.67	3264.64	3195.12	1622	3284.01	3245.47	3272.49	3327.93	3295.89

Network profile: p2 Sample: t2 Metric: Inefficiency
Buffer: 30/60   min: gd

Network profile: p2 Sample: t2 Metric: # quality change
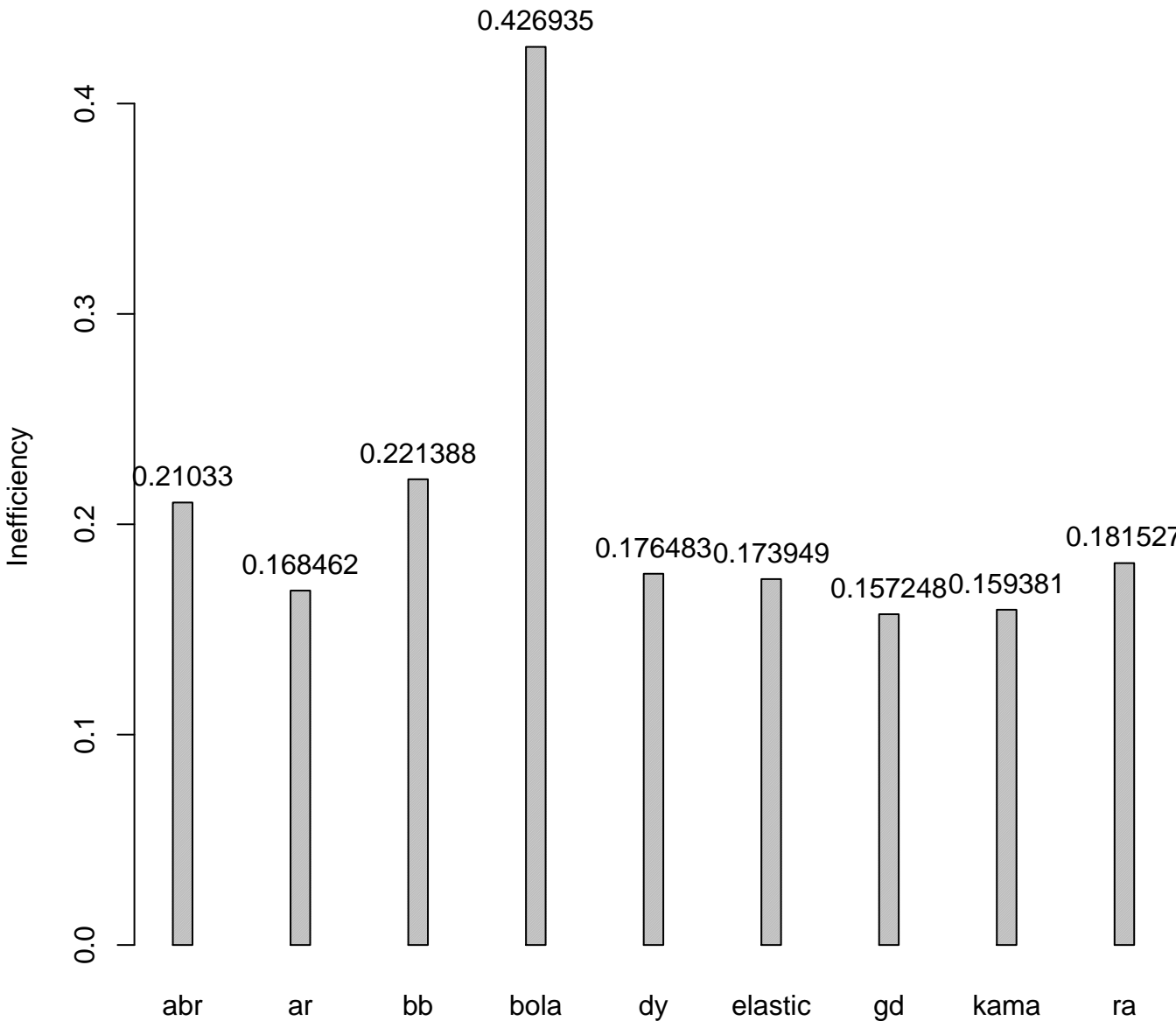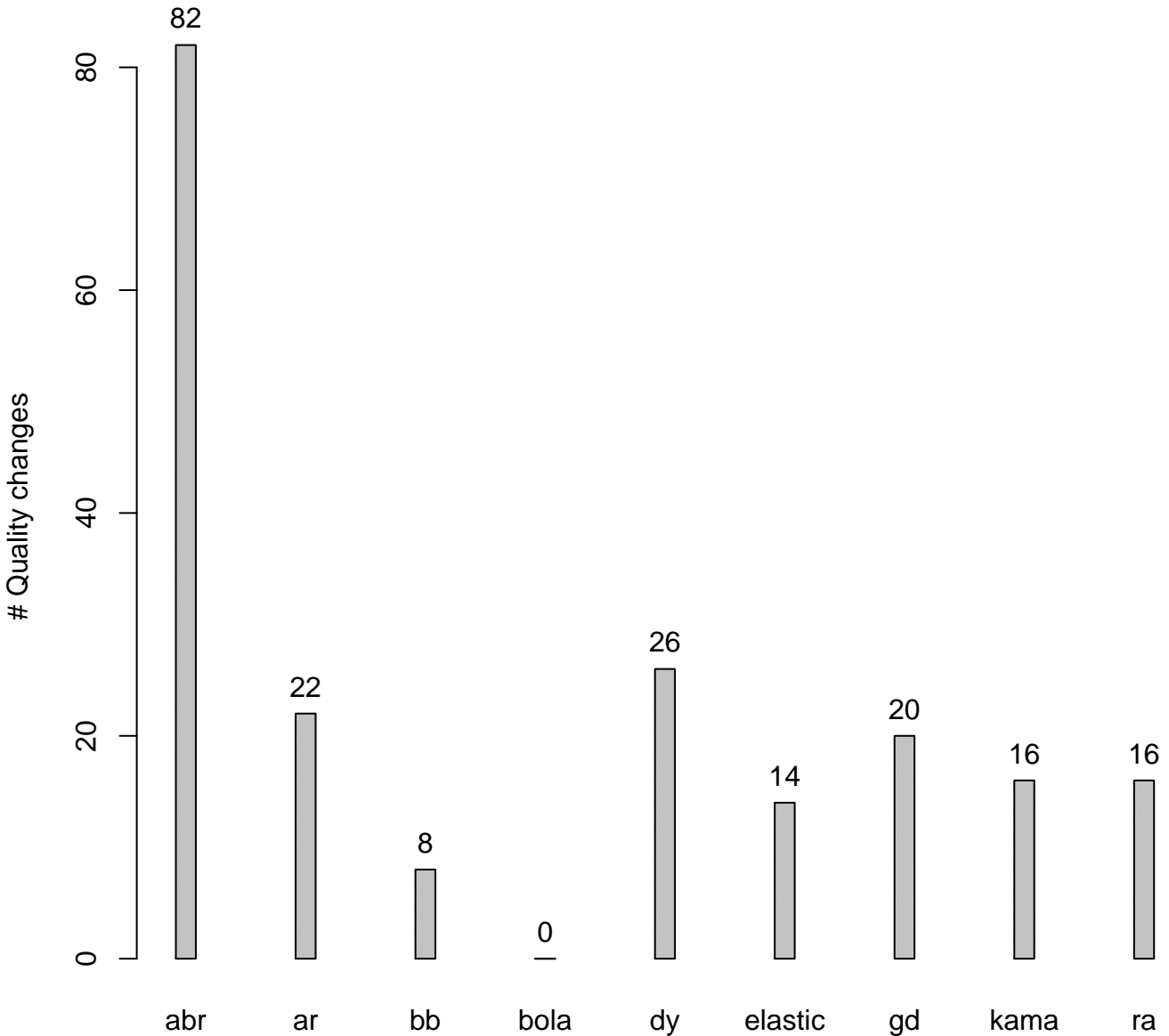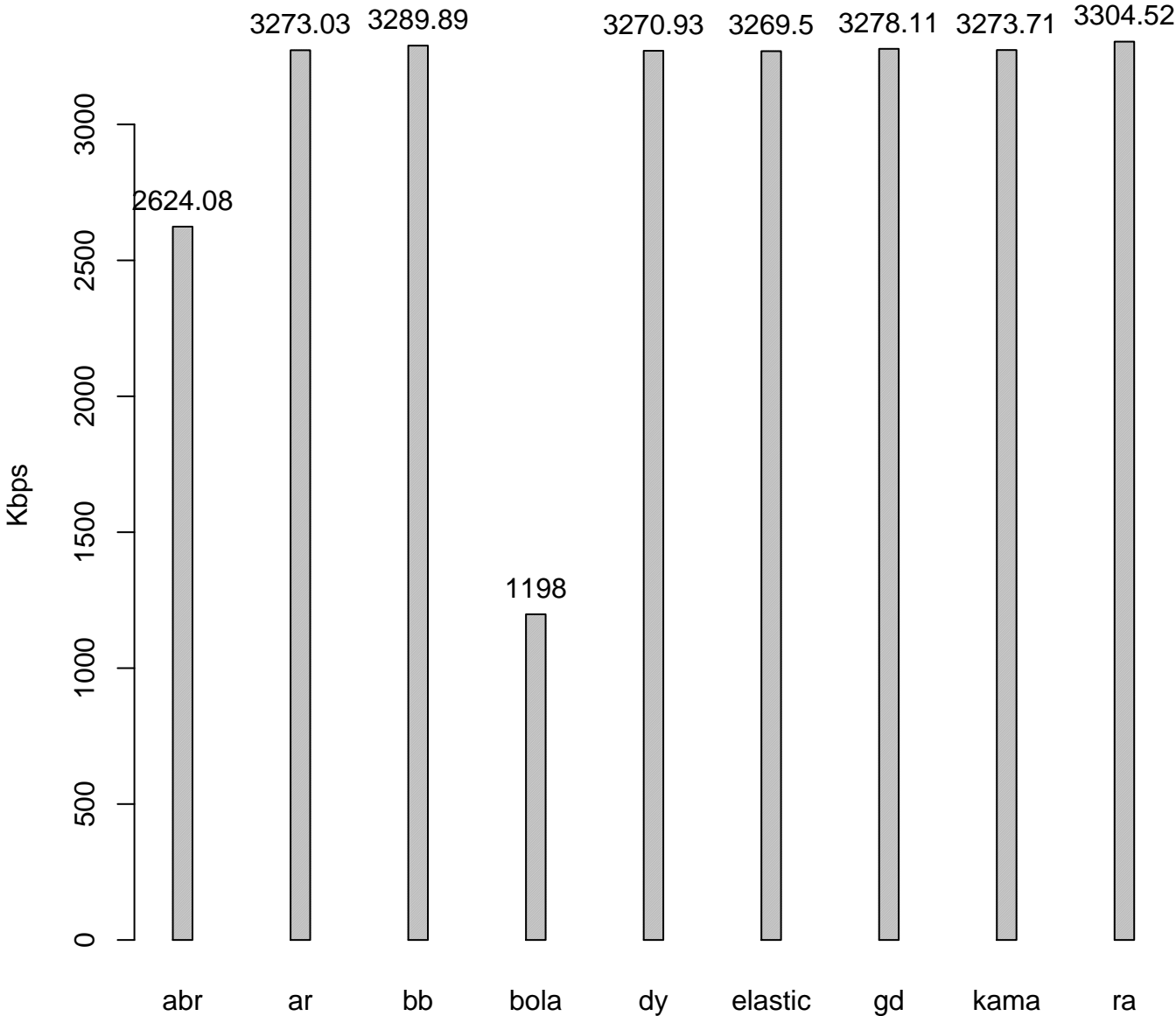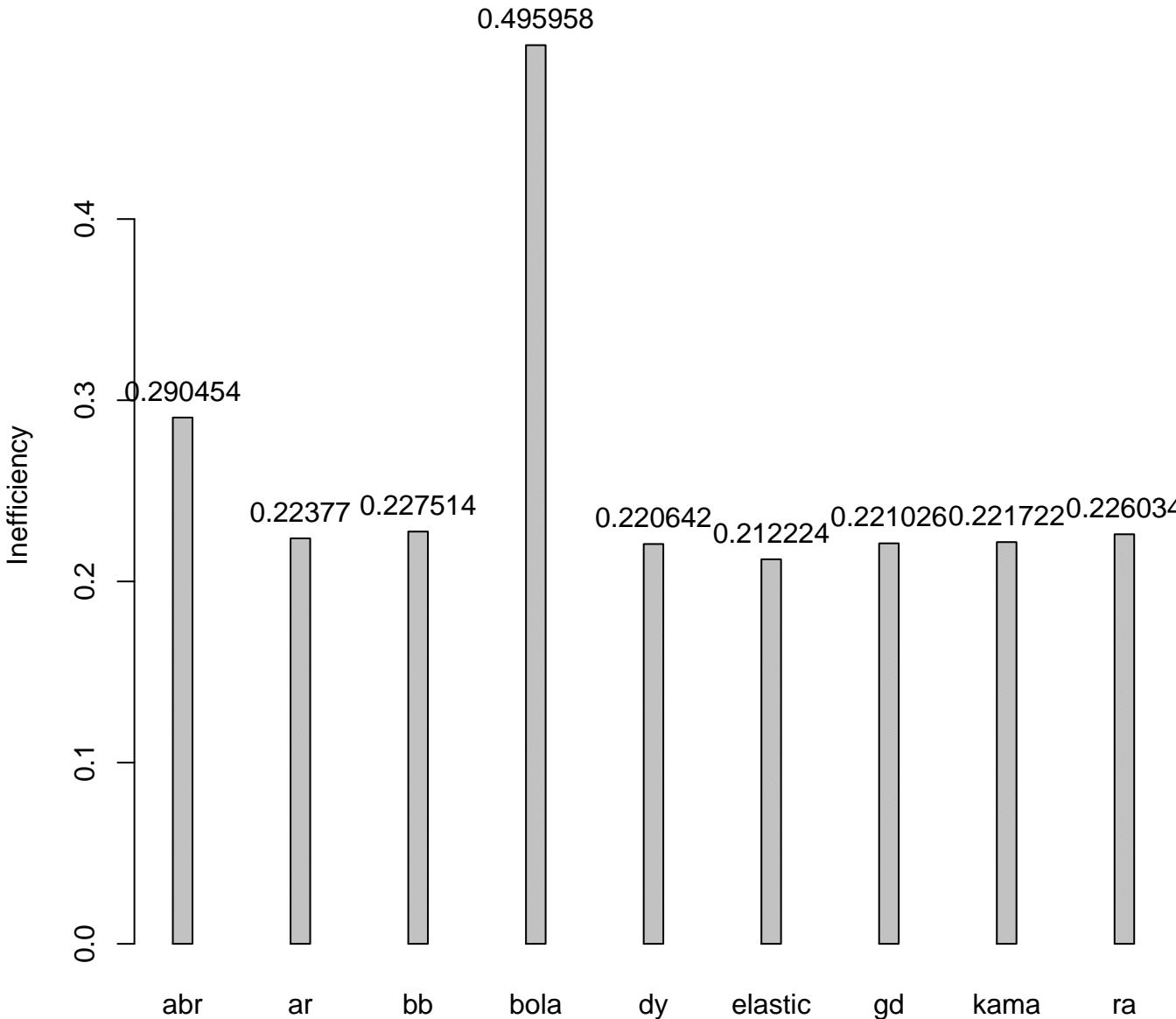**Buffer: 30/60   min: bola**

Network profile: p2 Sample: t3 Metric: Avg−Bitrate
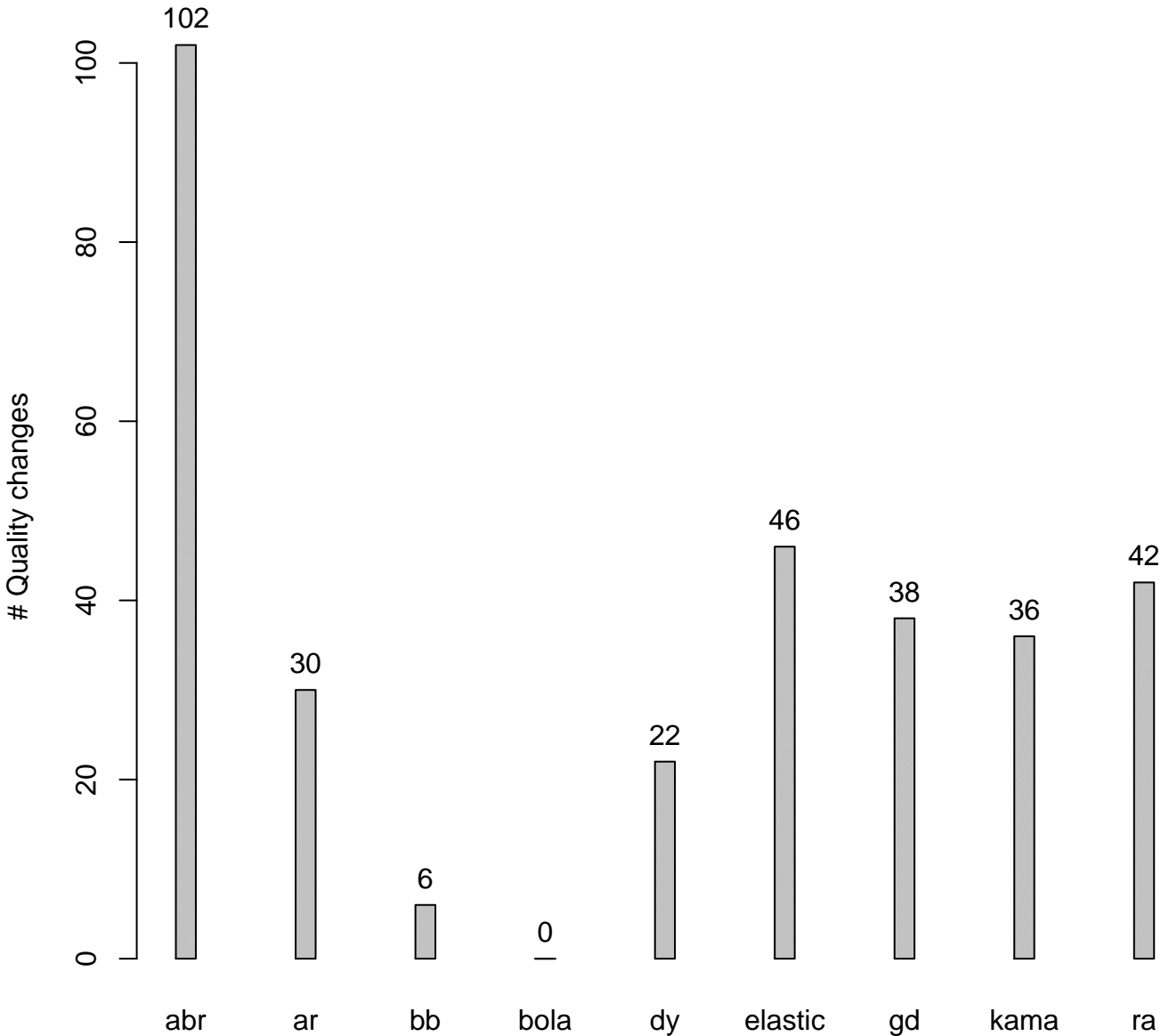**Buffer: 30/60 max: ra**

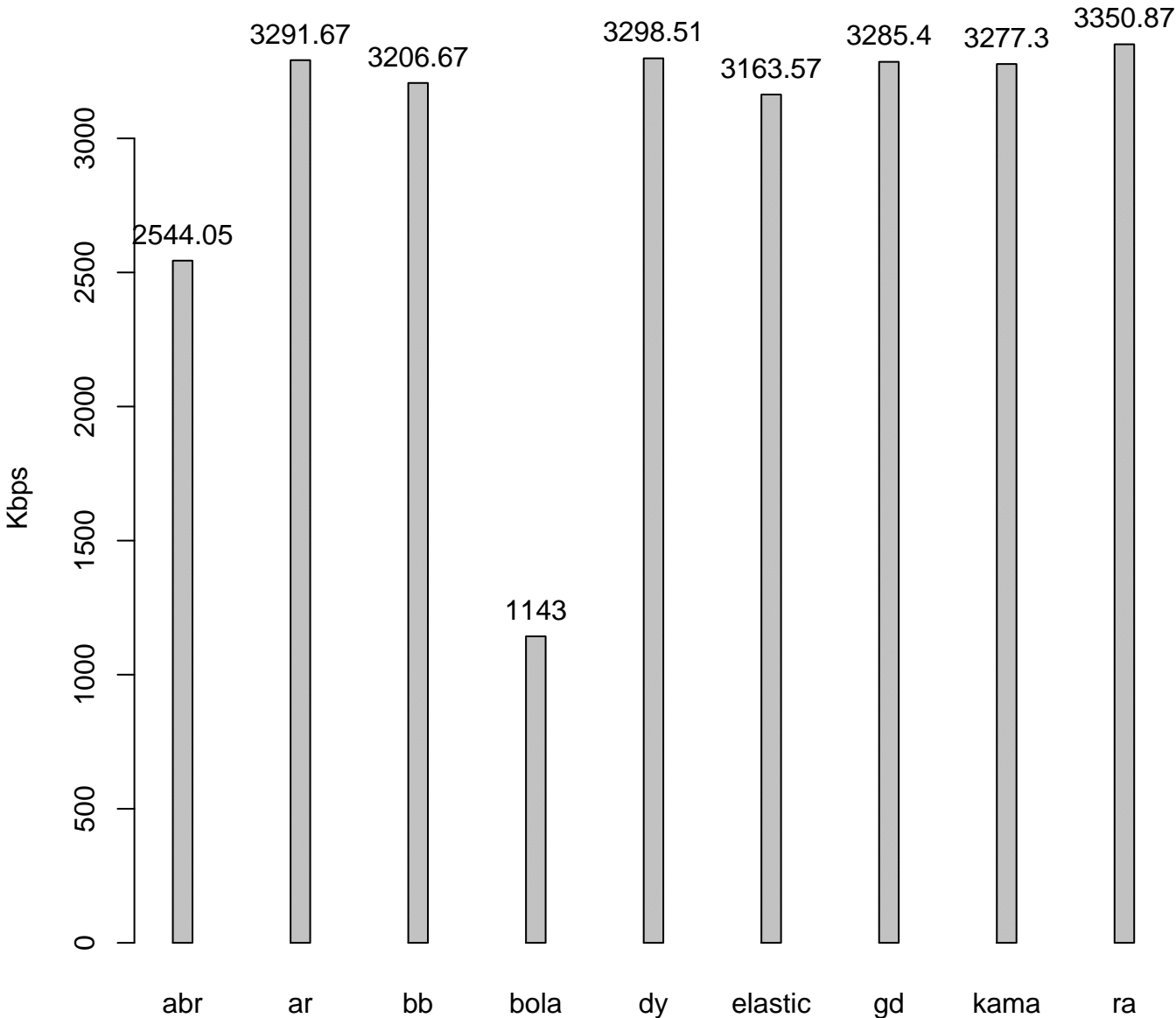**Network profile: p2 Sample: t3 Metric: Inefficiency**
Buffer: 30/60   min: elastic

Network profile: p2 Sample: t3 Metric: # quality change
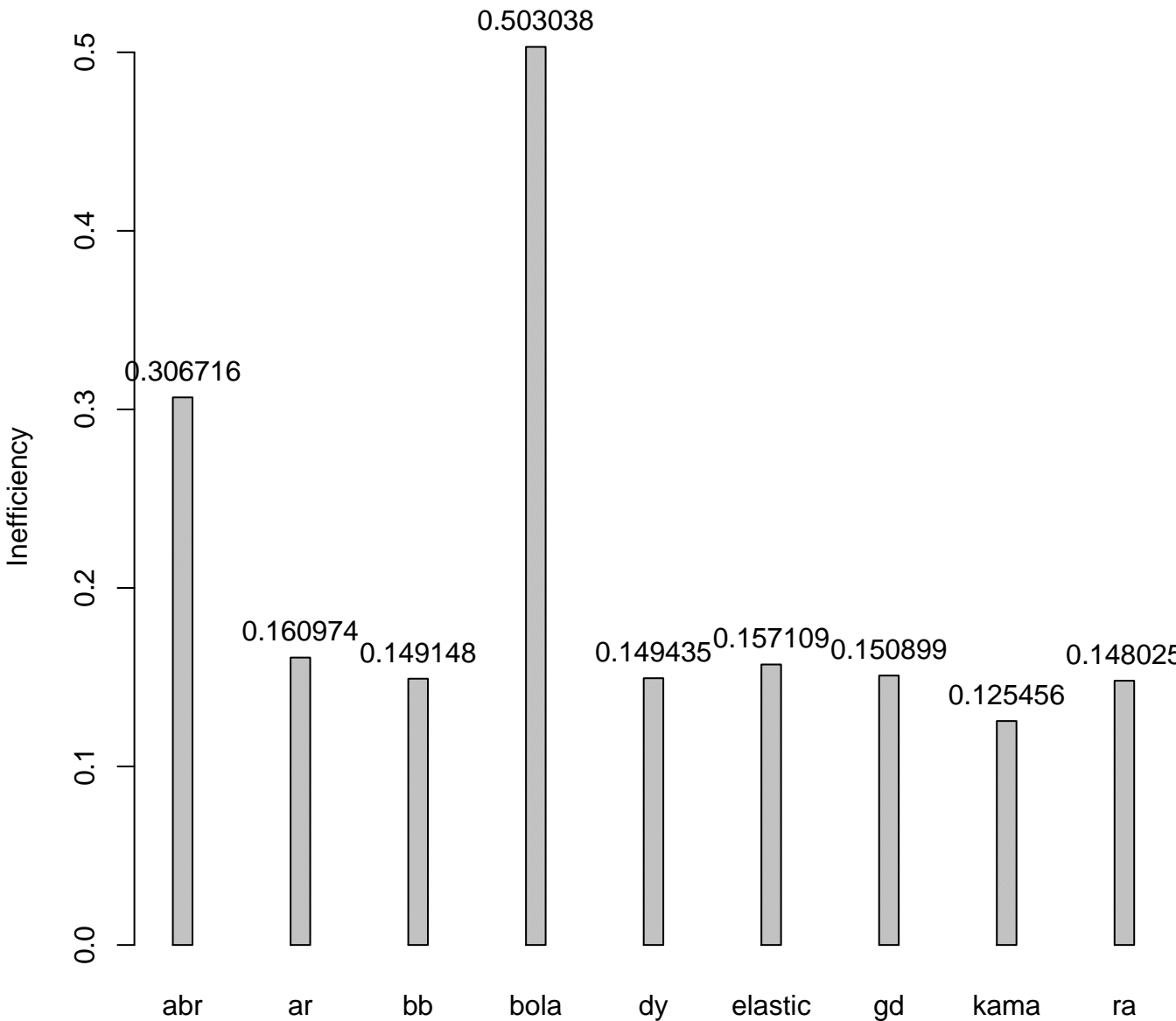**Buffer: 30/60   min: bola**

Network profile: p2 Sample: t4 Metric: Avg−Bitrate
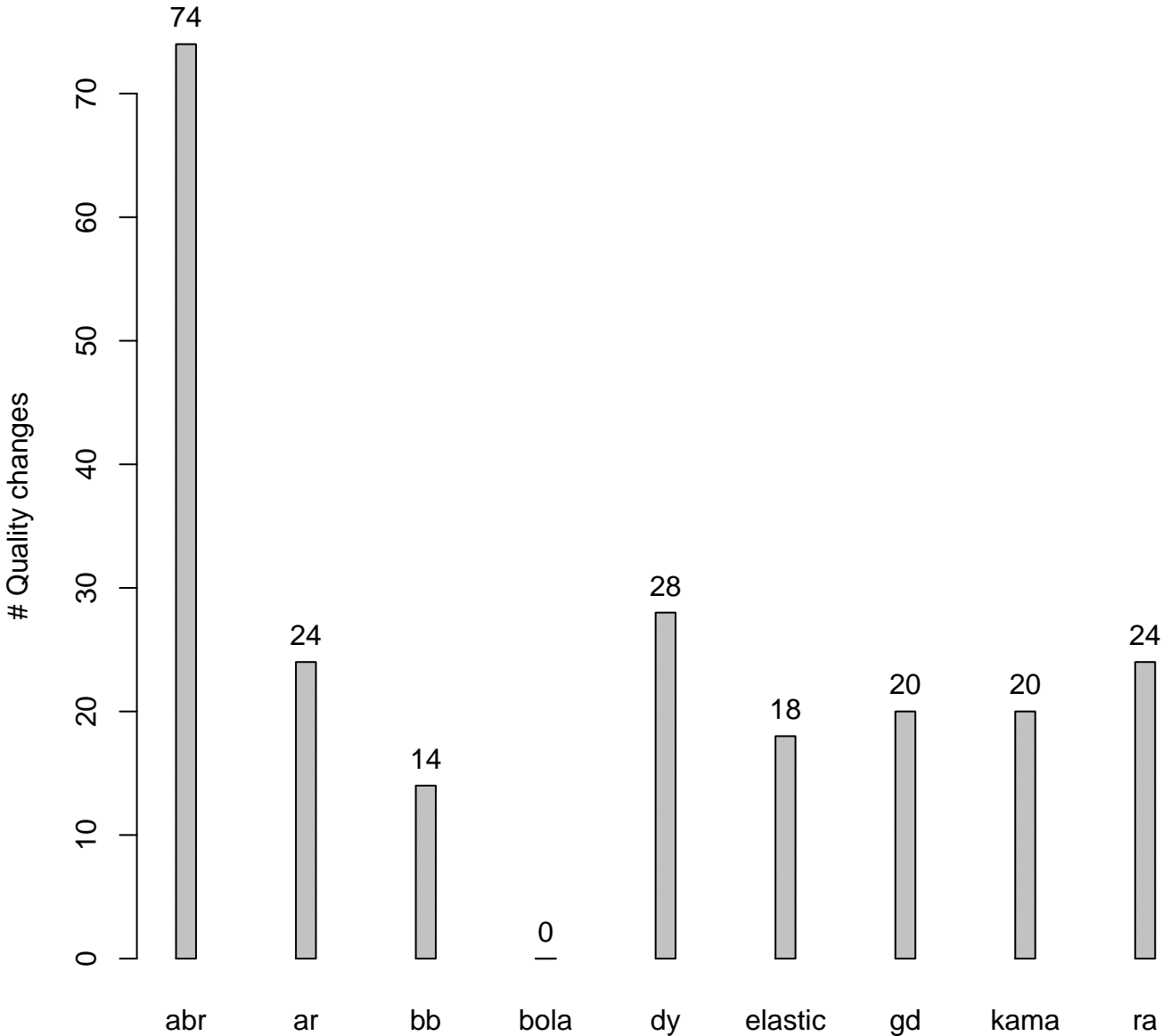**Buffer: 30/60 max: ra**

Network profile: p2 Sample: t4 Metric: Inefficiency
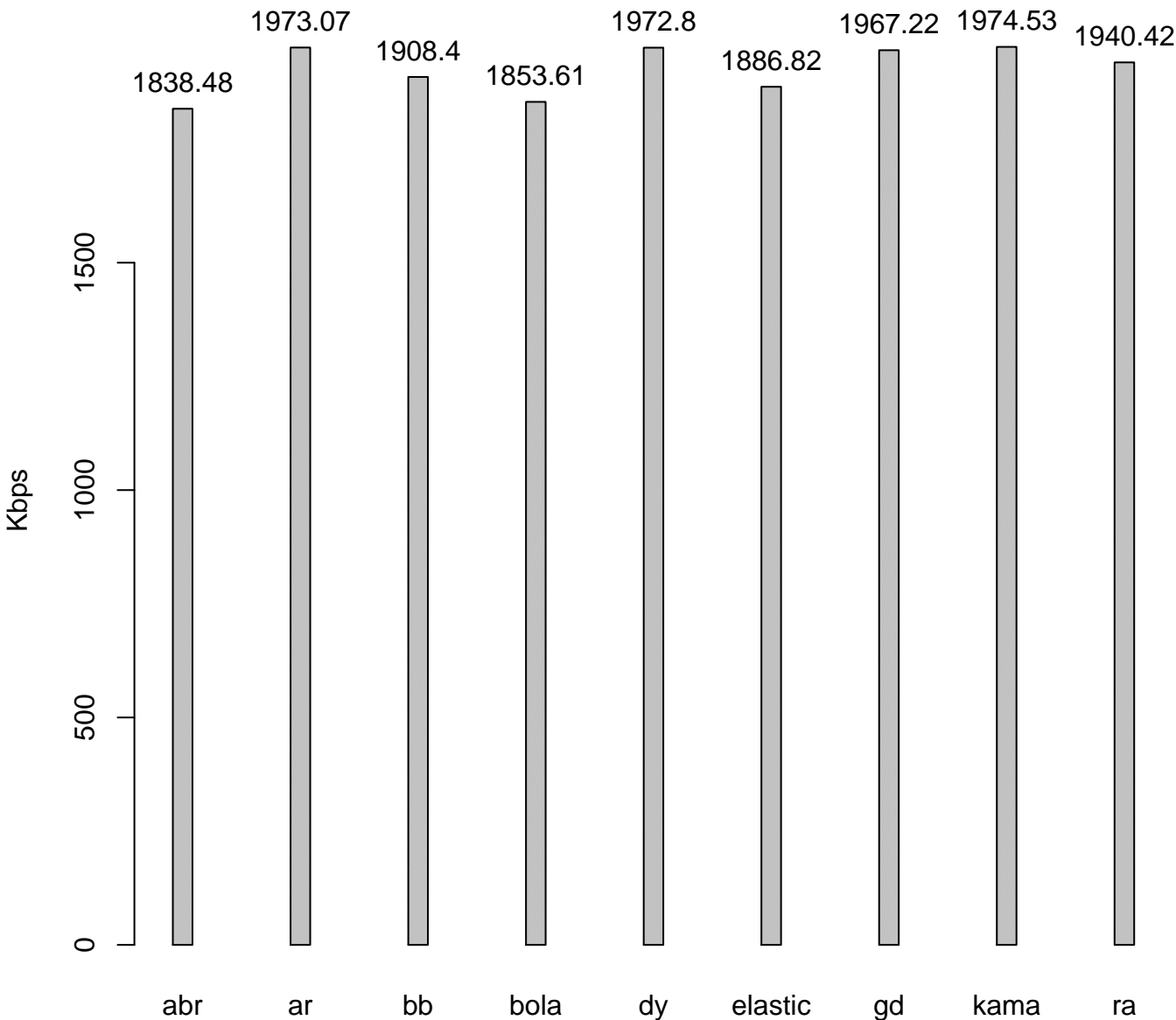**Buffer: 30/60   min: kama**

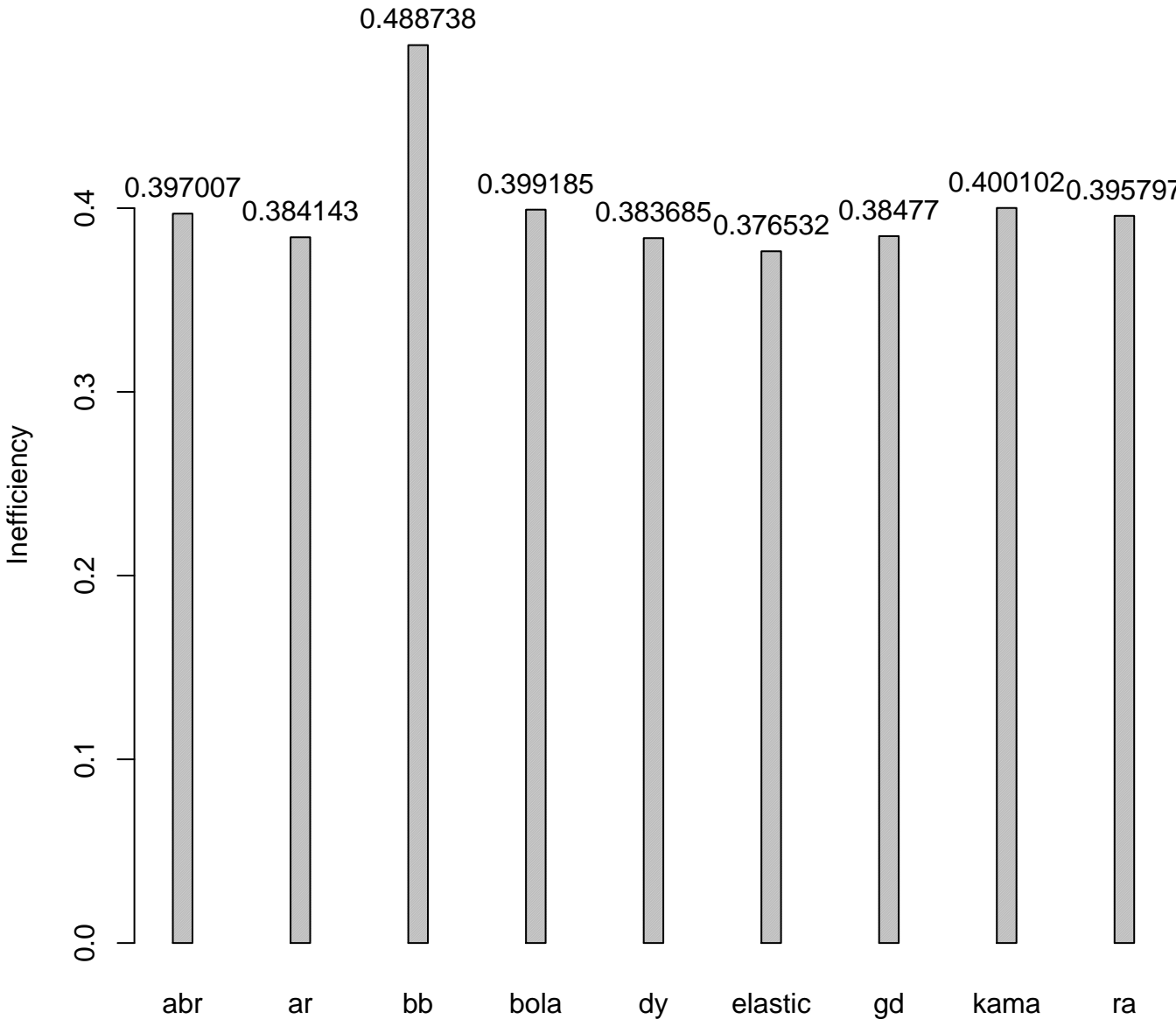**Network profile: p2 Sample: t4 Metric: # quality change**
Buffer: 30/60   min: bola

Network profile: p2 Sample: t5 Metric: Avg−Bitrate
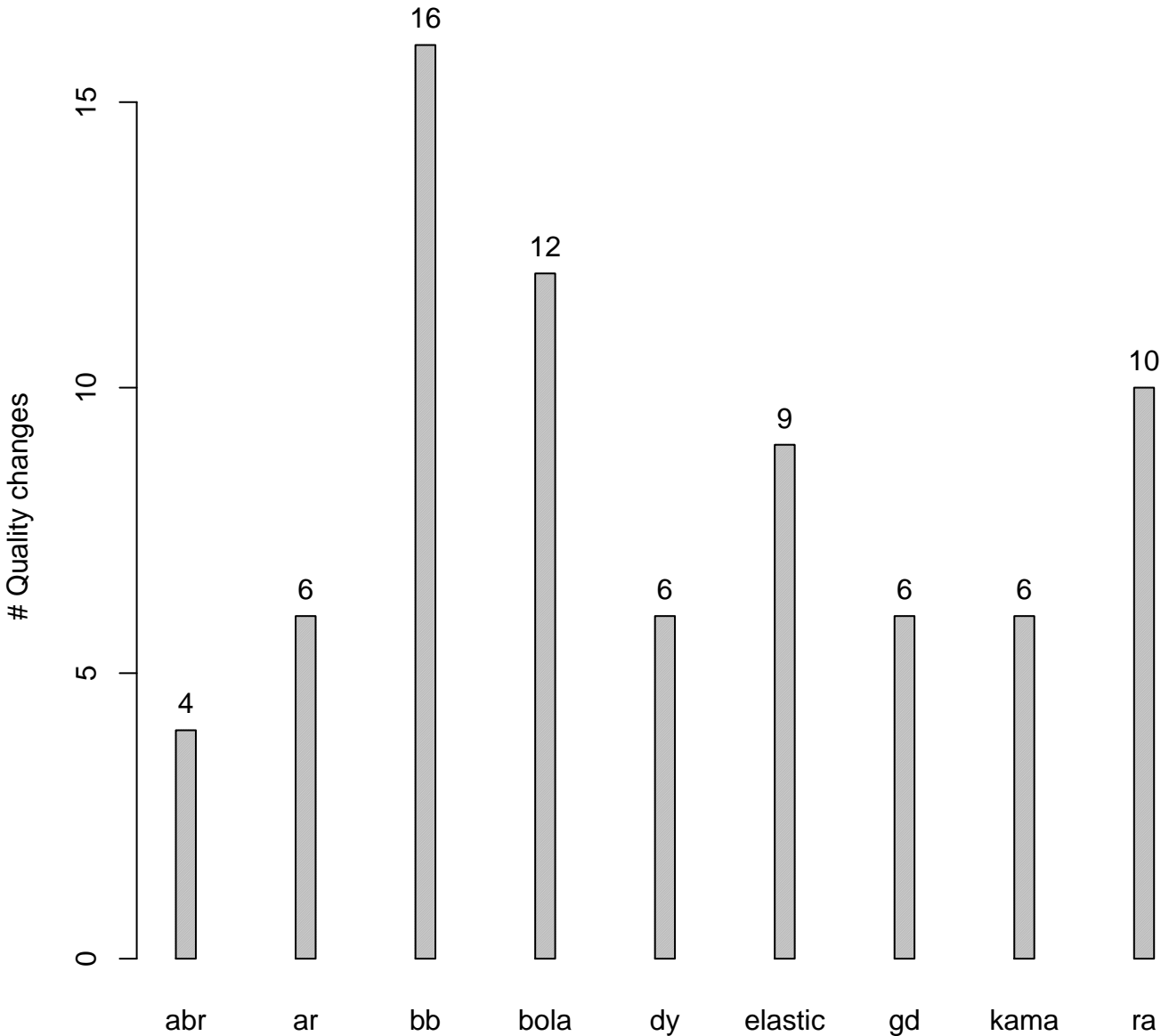**Buffer: 30/60 max: kama**

Network profile: p2 Sample: t5 Metric: Inefficiency
Buffer: 30/60   min: elastic

Network profile: p2 Sample: t5 Metric: # quality change
Buffer: 30/60   min: abr

Network profile: p2 Sample: t6 Metric: Avg−Bitrate
Buffer: 30/60 max: bb

Network profile: p2 Sample: t6 Metric: Inefficiency
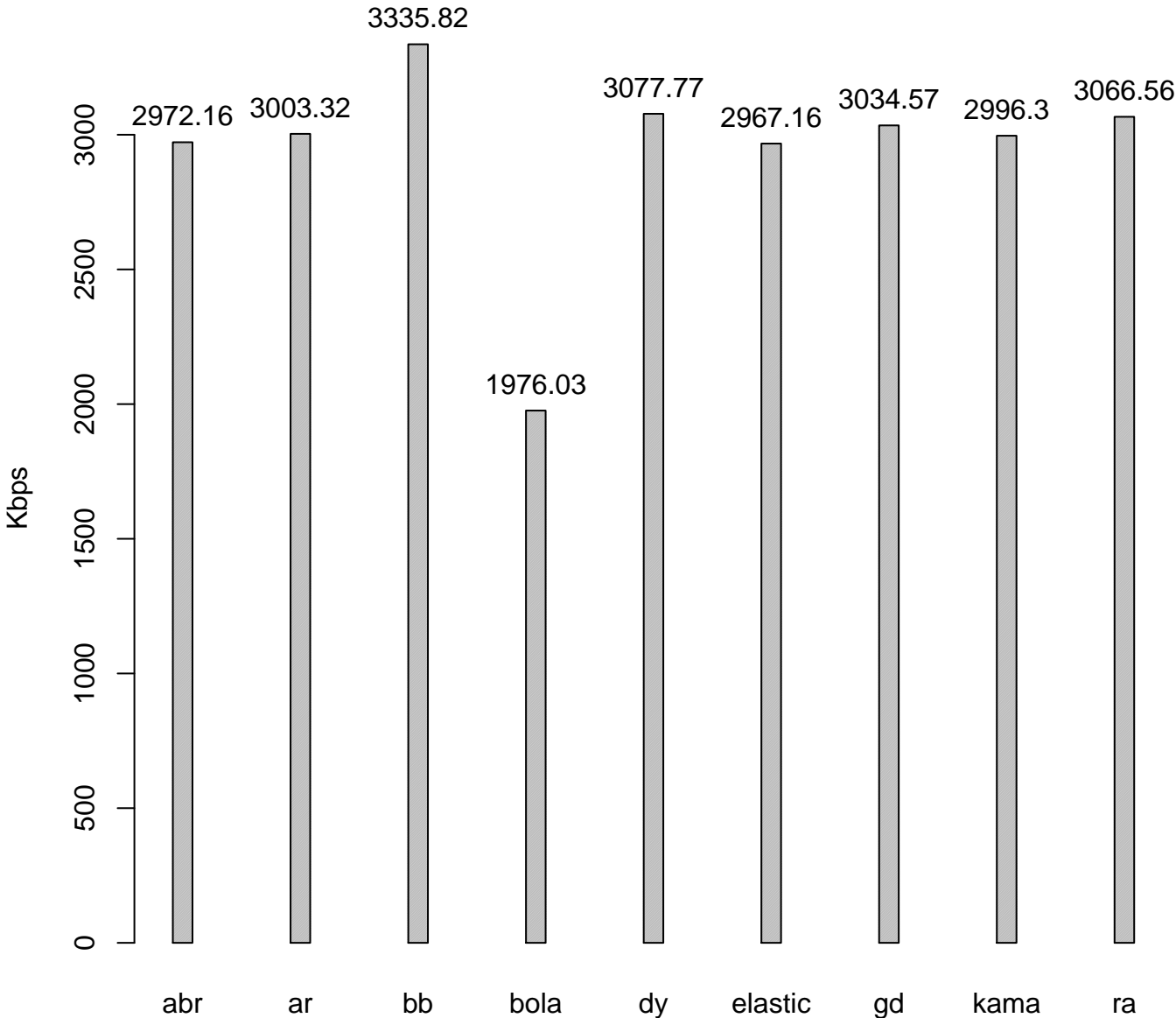**Buffer: 30/60   min: elastic**

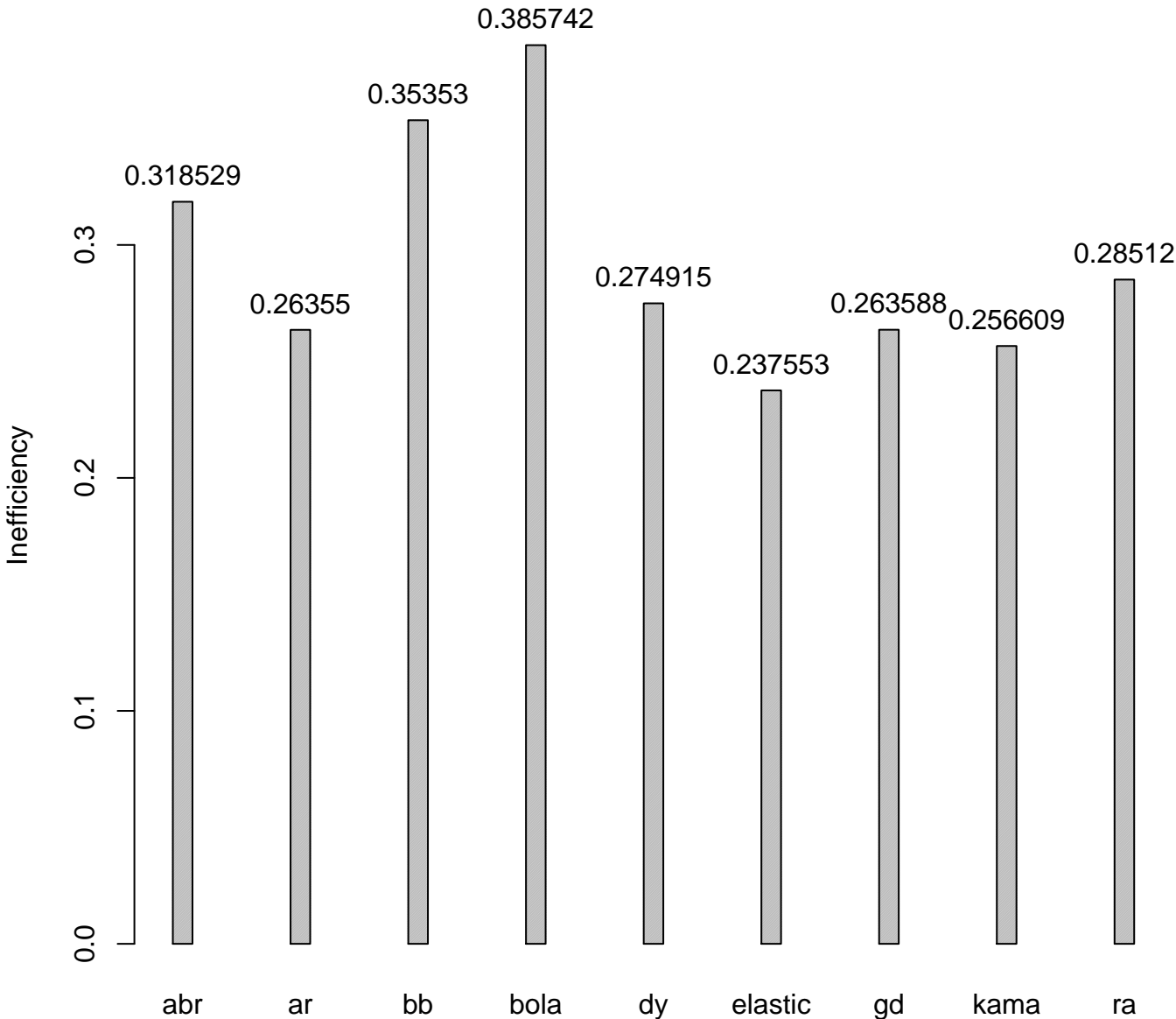**Network profile: p2 Sample: t6 Metric: # quality change**
Buffer: 30/60   min: ra

Network profile: p2 Sample: t7 Metric: Avg−Bitrate
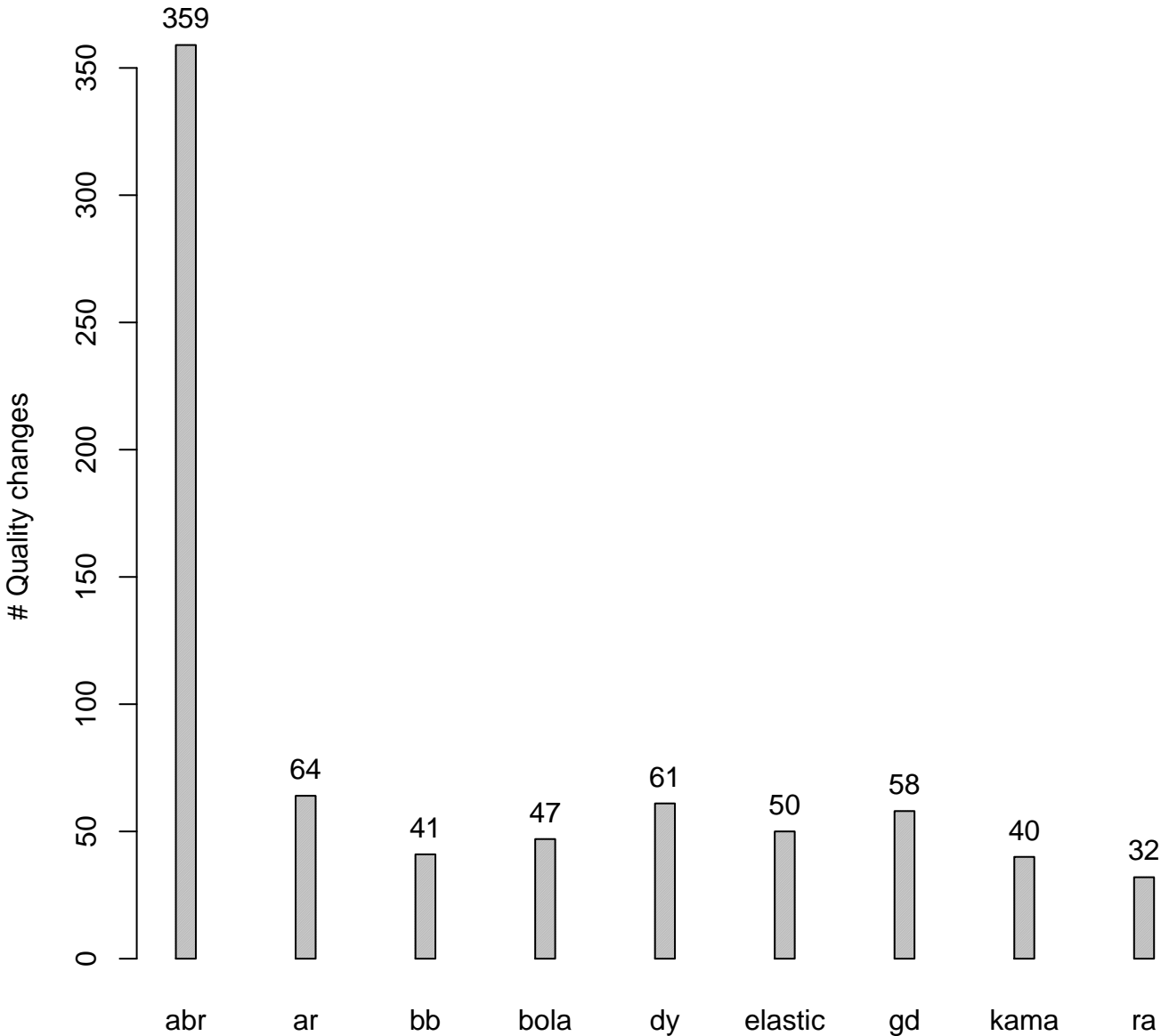**Buffer: 30/60 max: bb**
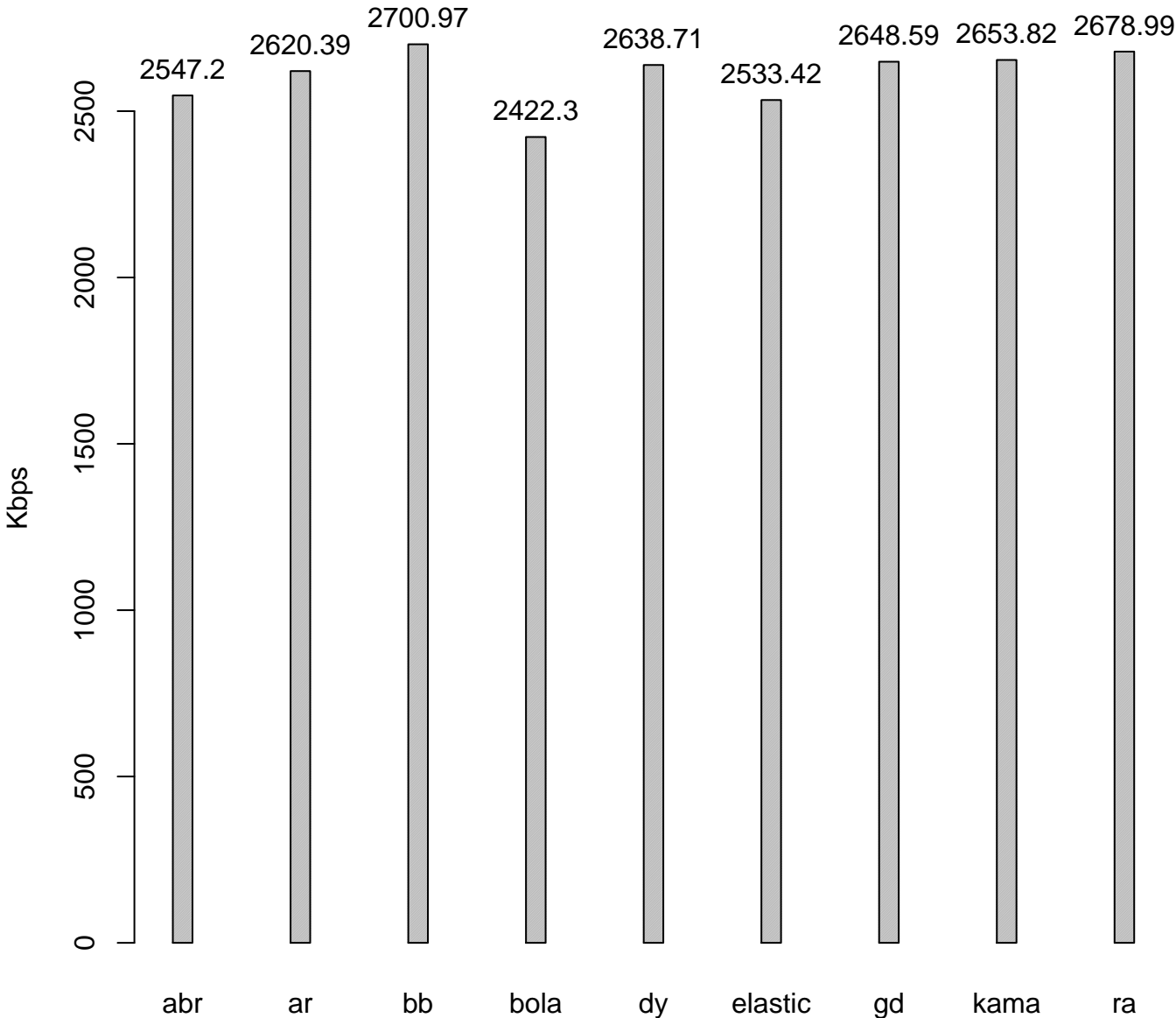
Network profile: p2 Sample: t7 Metric: Inefficiency
Buffer: 30/60   min: elastic

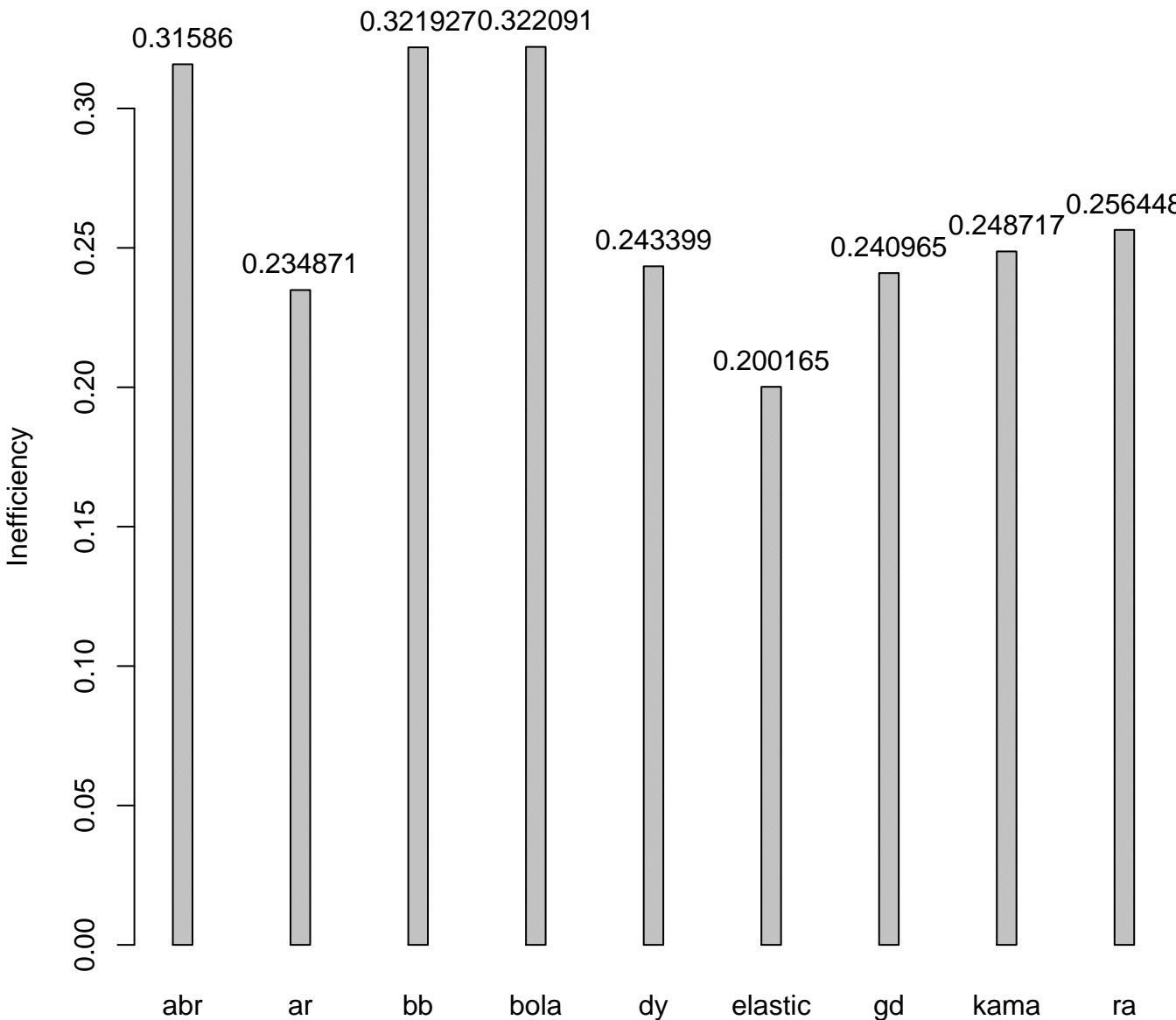**Network profile: p2 Sample: t7 Metric: # quality change**
Buffer: 30/60   min: bb

Network profile: p3 Sample: t1 Metric: Avg−Bitrate
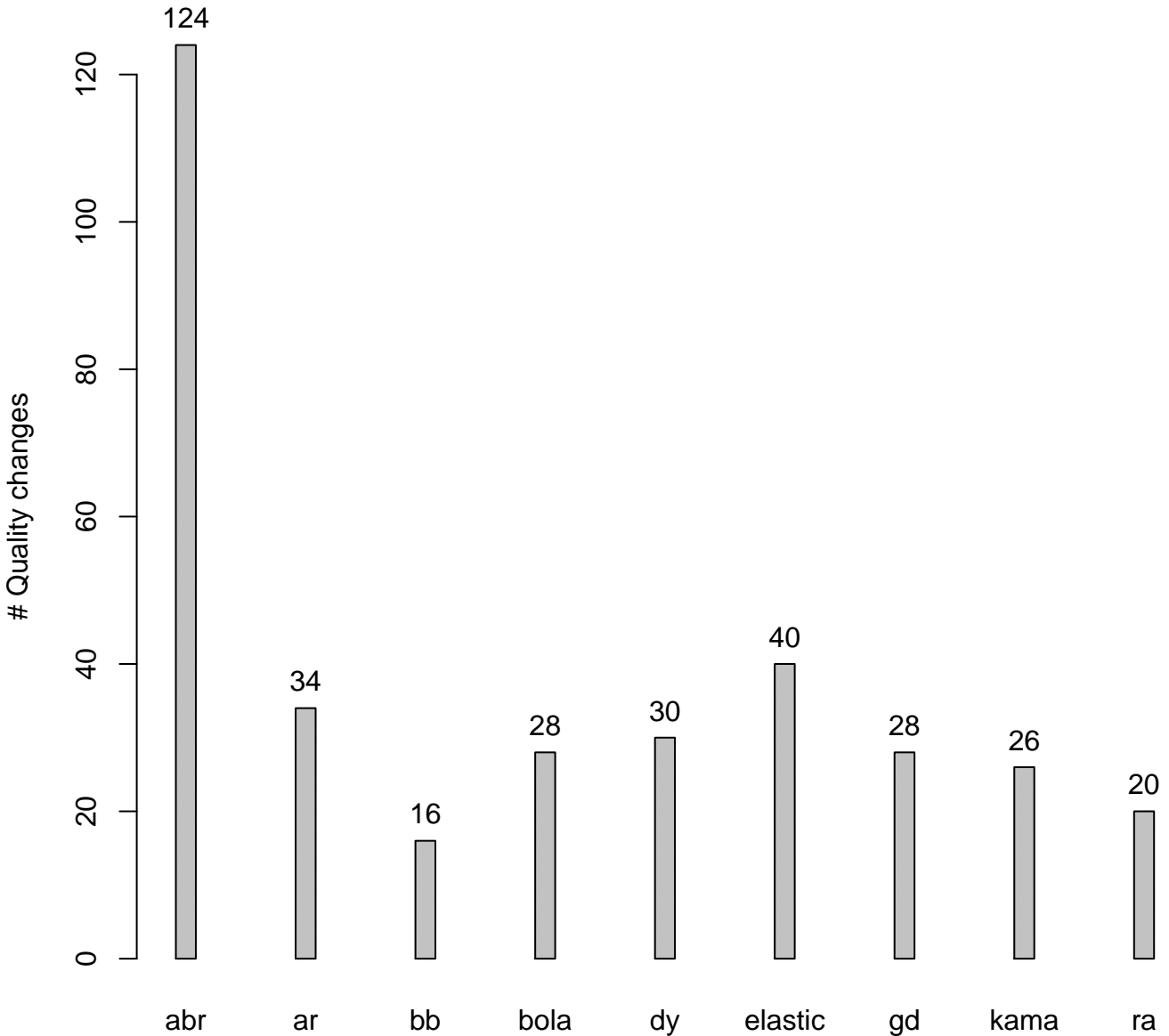**Buffer: 30/60   max: ar**

Network profile: p3 Sample: t1 Metric: Inefficiency
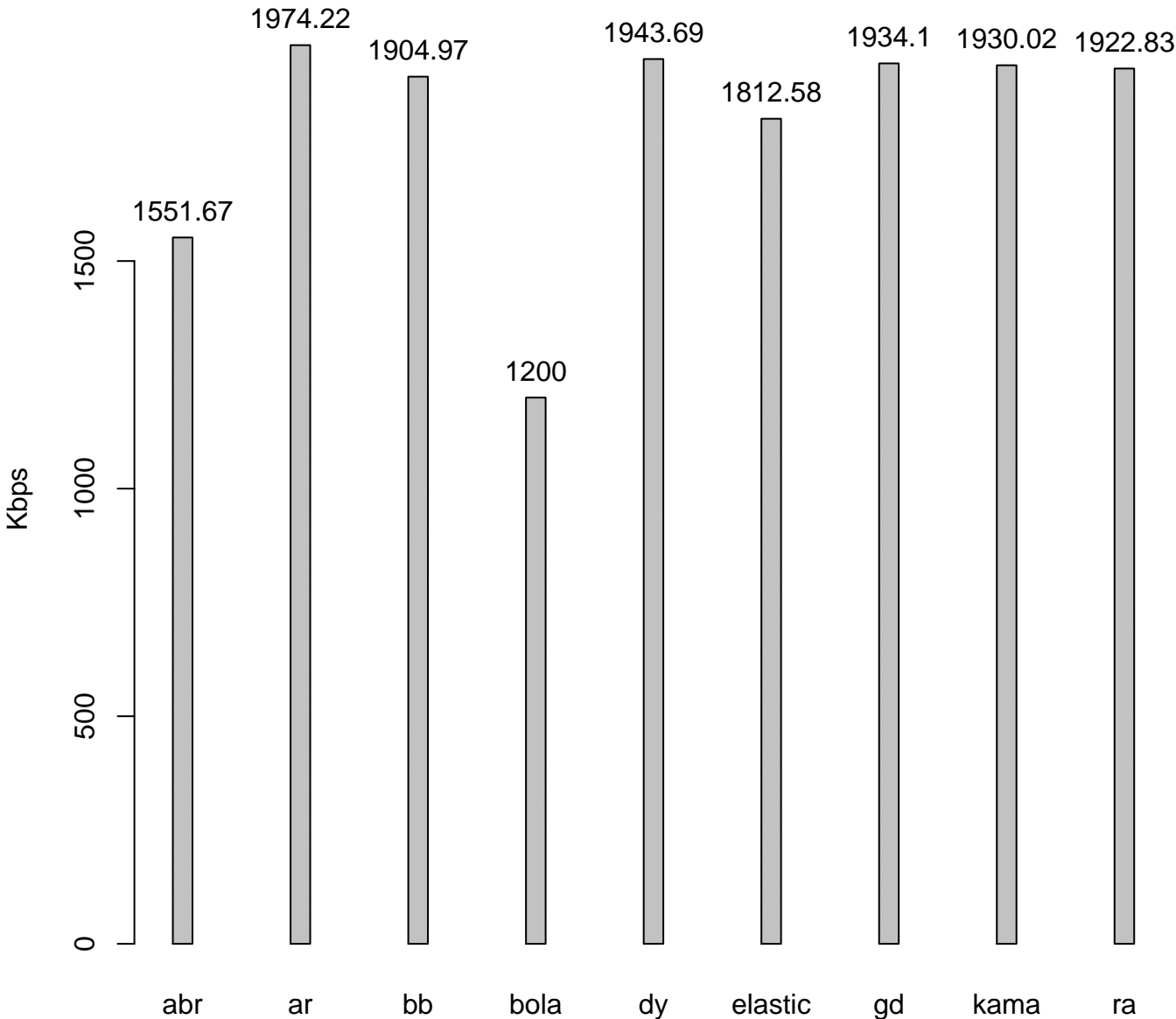**Buffer: 30/60   min: elastic**

Network profile: p3 Sample: t1 Metric: # quality change
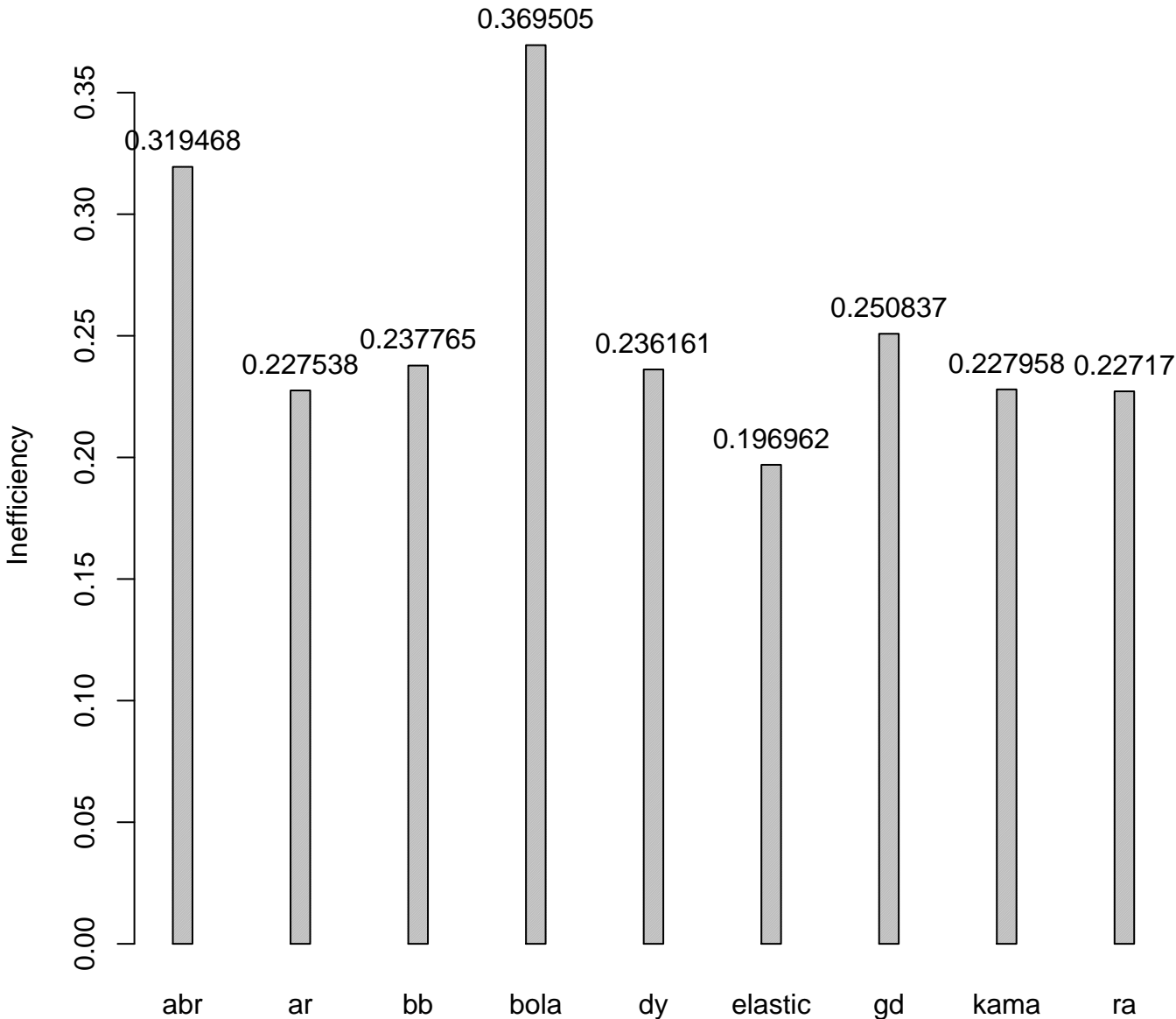**Buffer: 30/60   min: bola**

Network profile: p3 Sample: t2 Metric: Avg−Bitrate
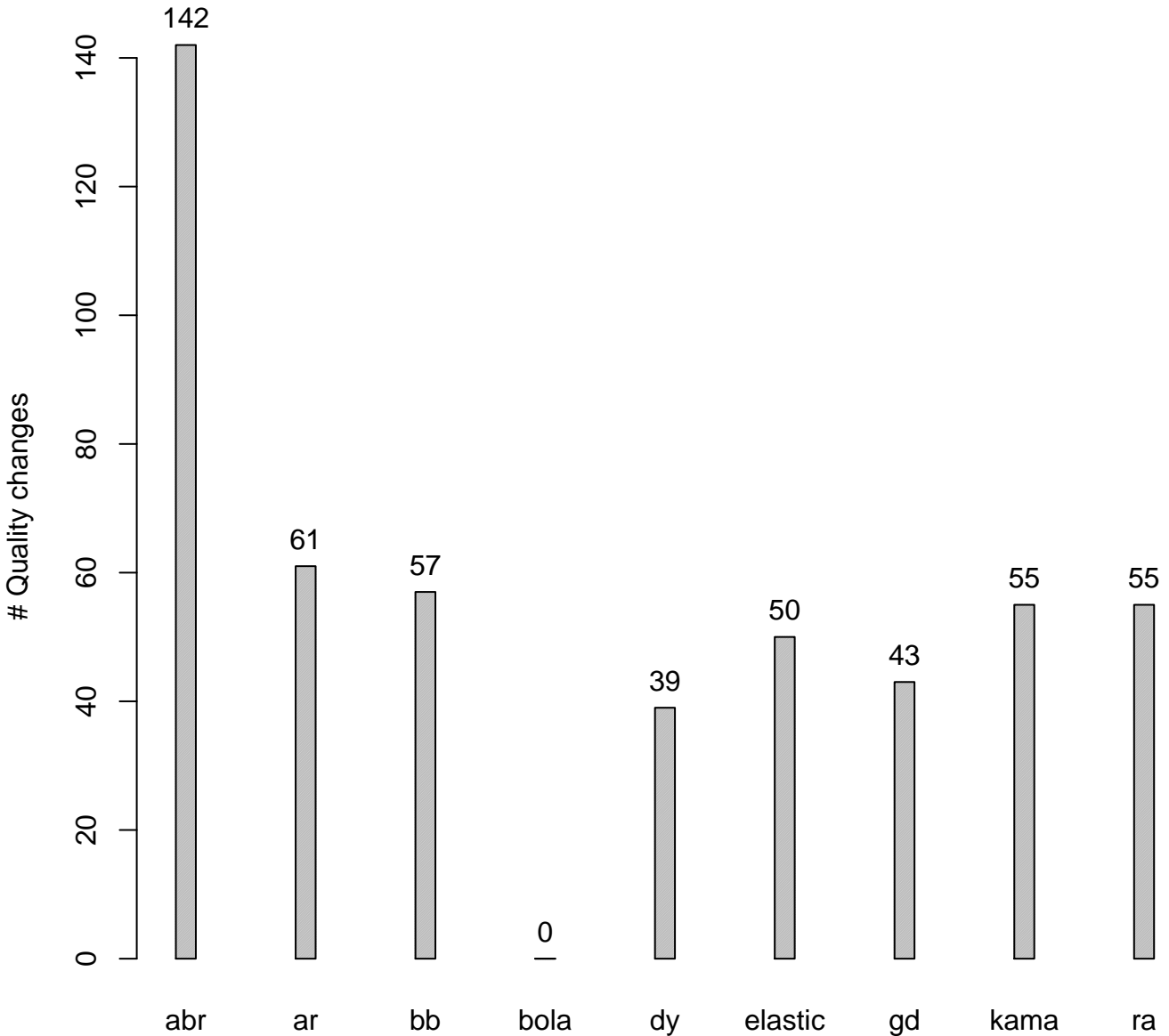**Buffer: 30/60   max: ar**

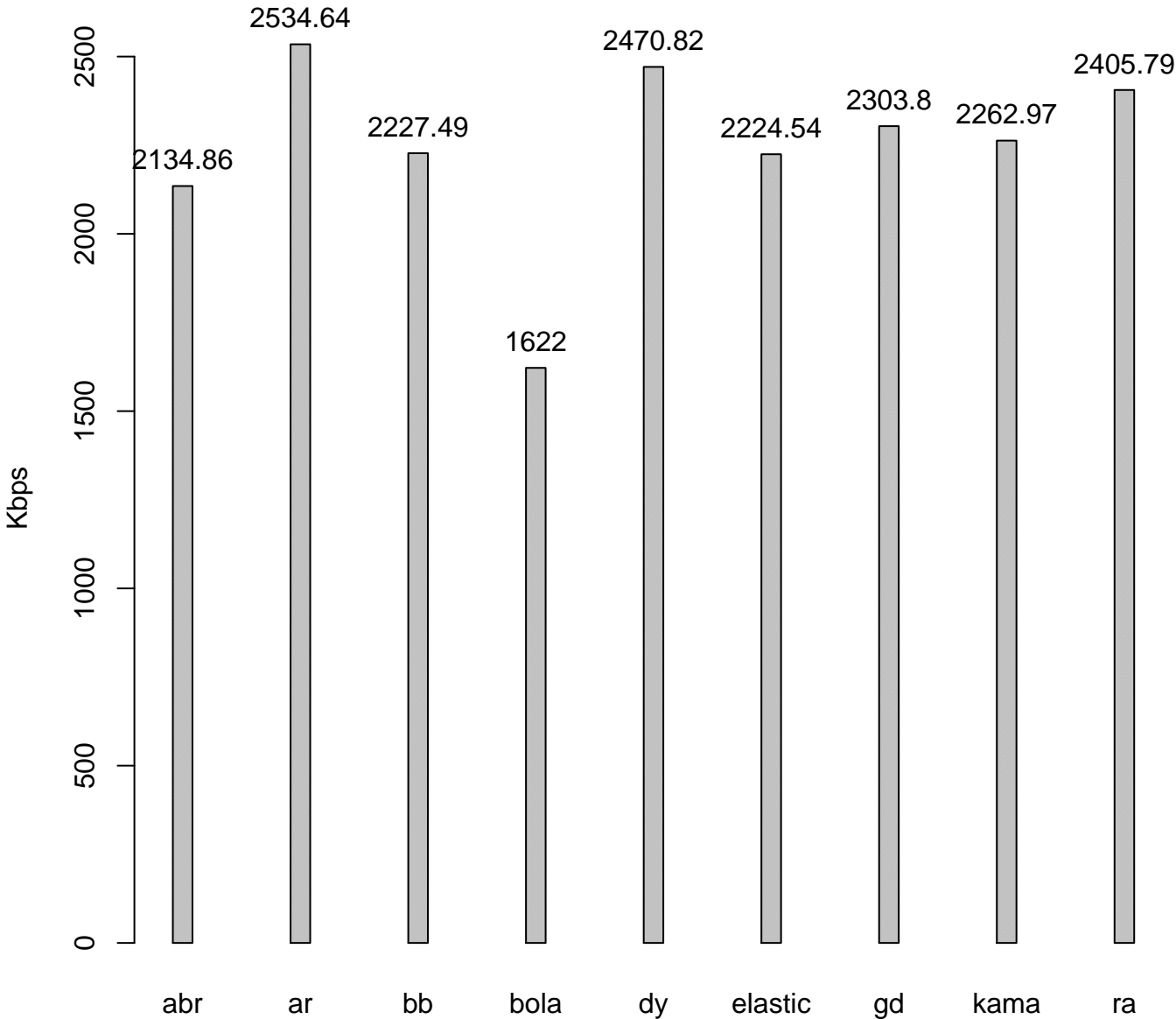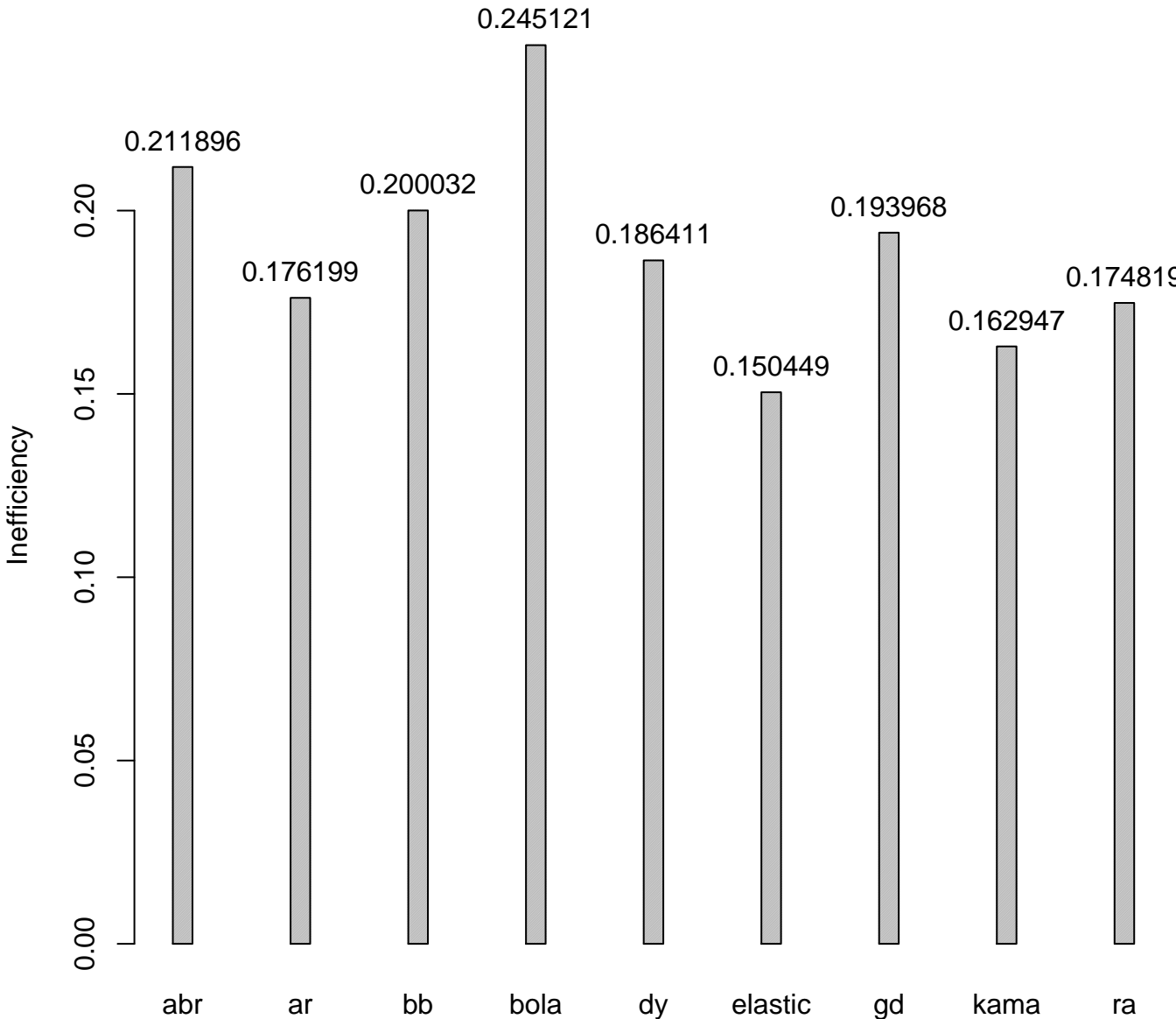**Network profile: p3 Sample: t2 Metric: Inefficiency**
Buffer: 30/60   min: elastic

Network profile: p3 Sample: t2 Metric: # quality change
Buffer: 30/60   min: bola

Network profile: p3 Sample: t3 Metric: Avg−Bitrate
Buffer: 30/60   max: kama

Kbps

1912.59 2565.24 2350.35 1198 2604.41 2263.28 2532.41 2676.39 2565.72
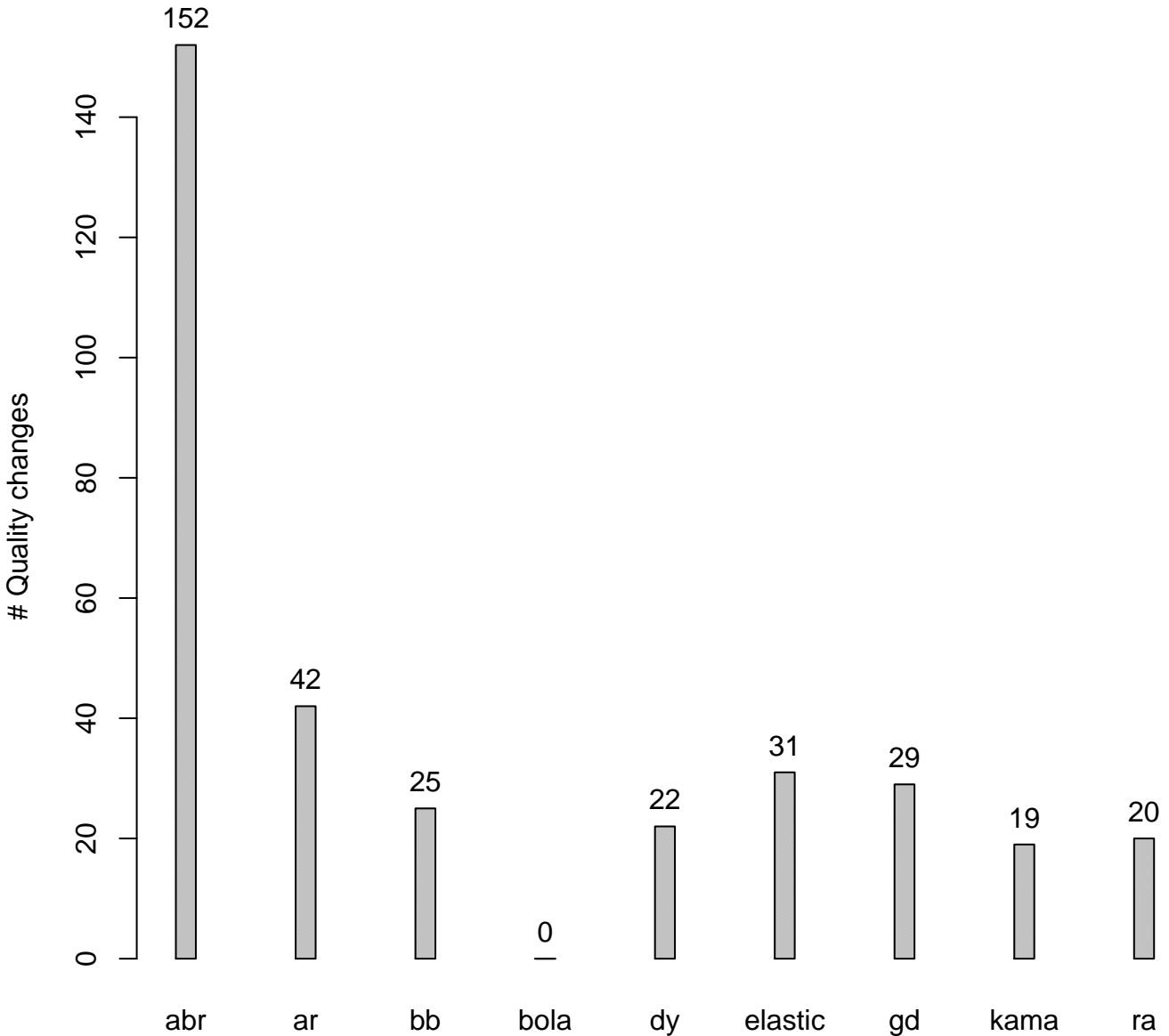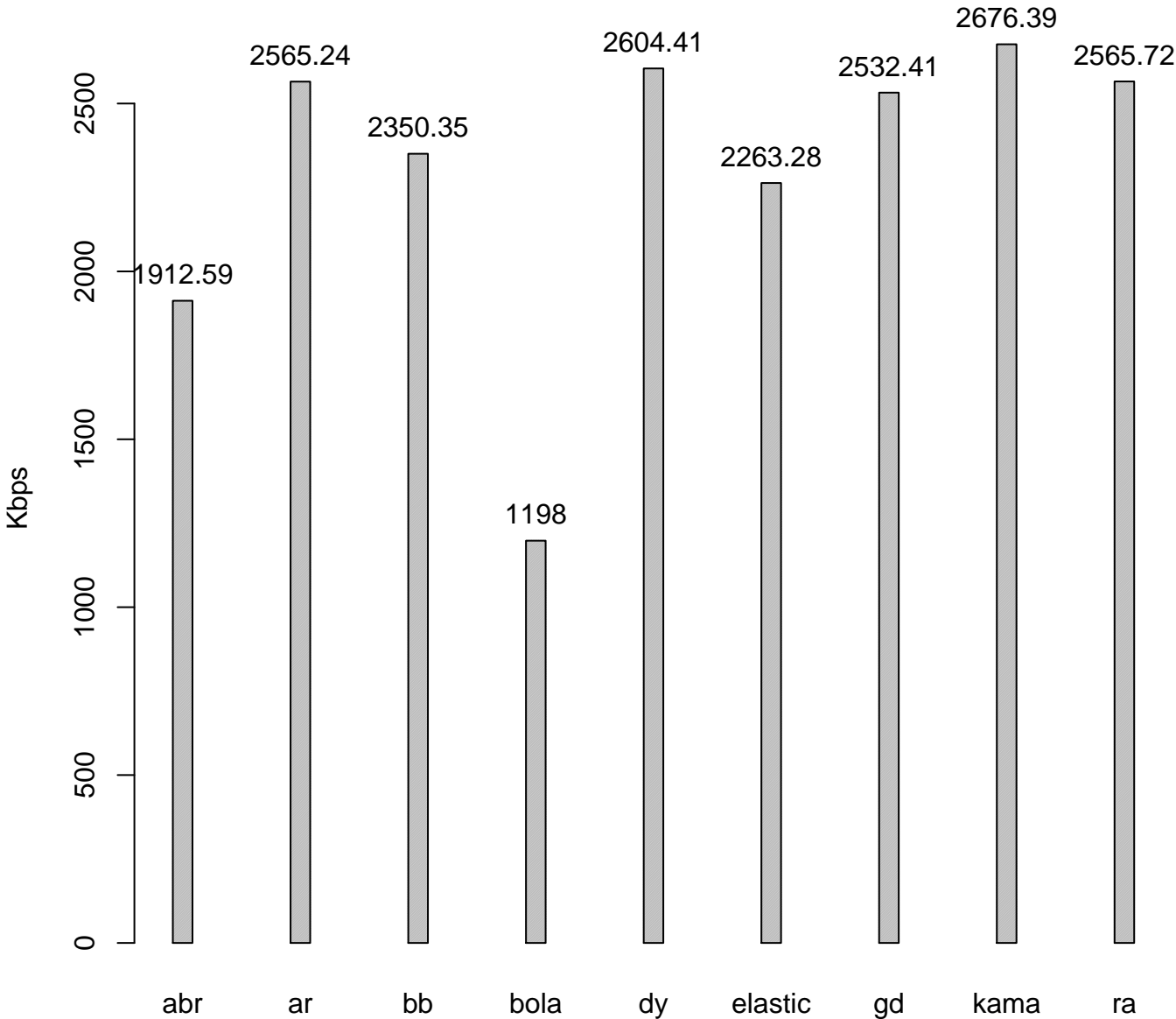
abr ar bb bola dy elastic gd kama ra

Network profile: p3 Sample: t3 Metric: Inefficiency
Buffer: 30/60   min: elastic

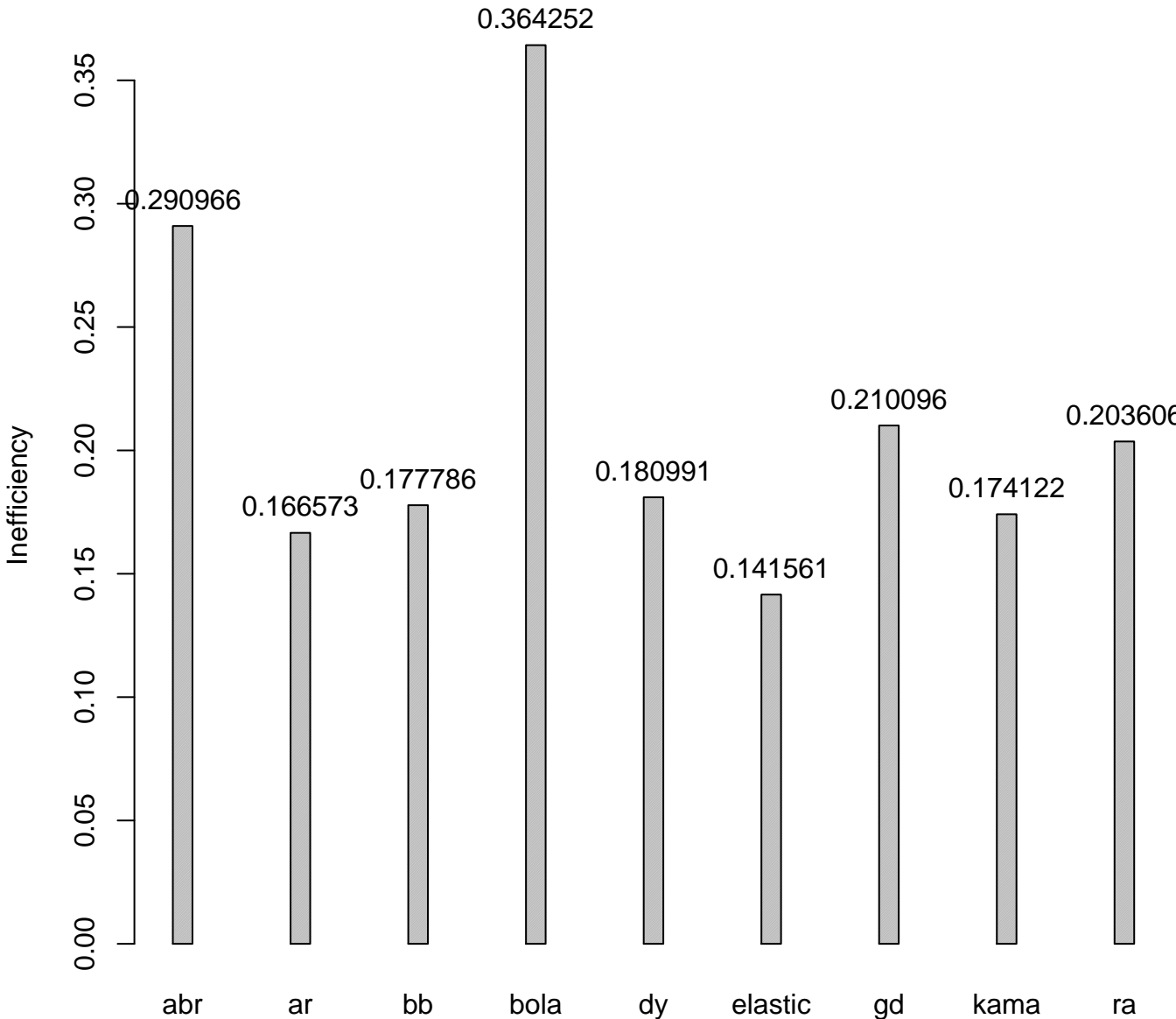**Network profile: p3 Sample: t3 Metric: # quality change**
Buffer: 30/60   min: bola

Quality changes

162
58
21
0
42
65
60
62
52

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p3 Sample: t4 Metric: Avg−Bitrate
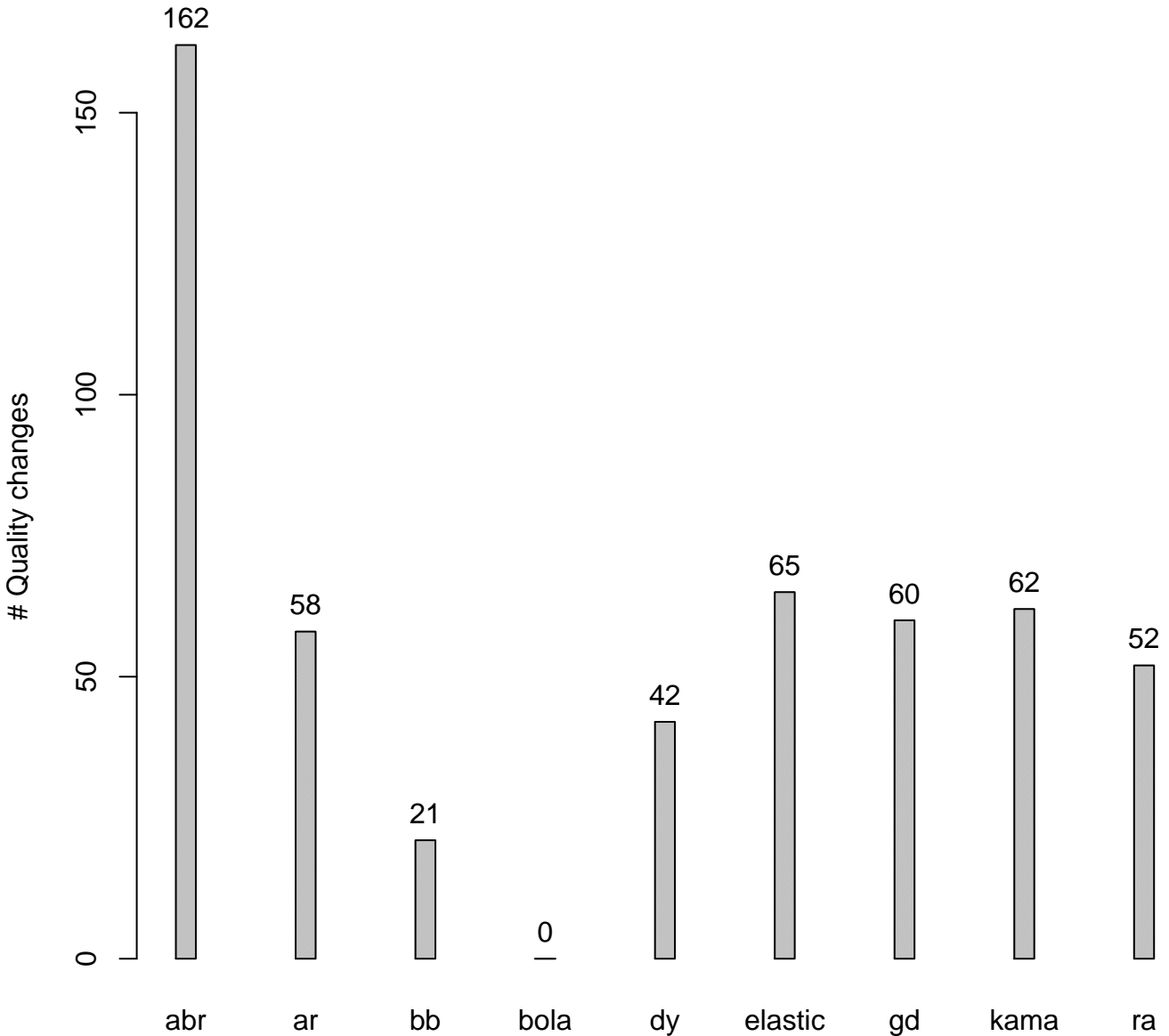**Buffer: 30/60   max: gd**

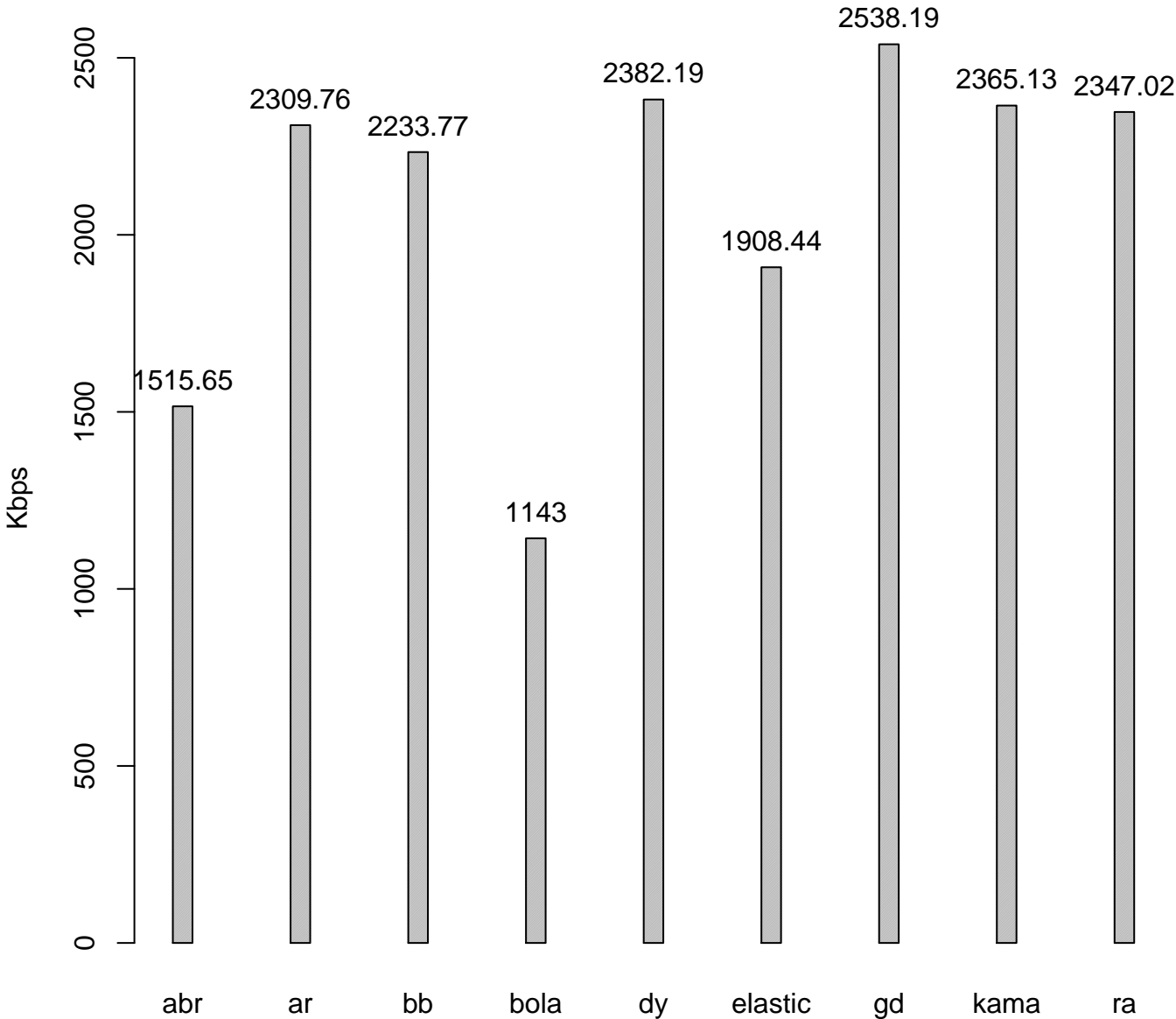**Network profile: p3 Sample: t4 Metric: Inefficiency**
Buffer: 30/60   min: ra

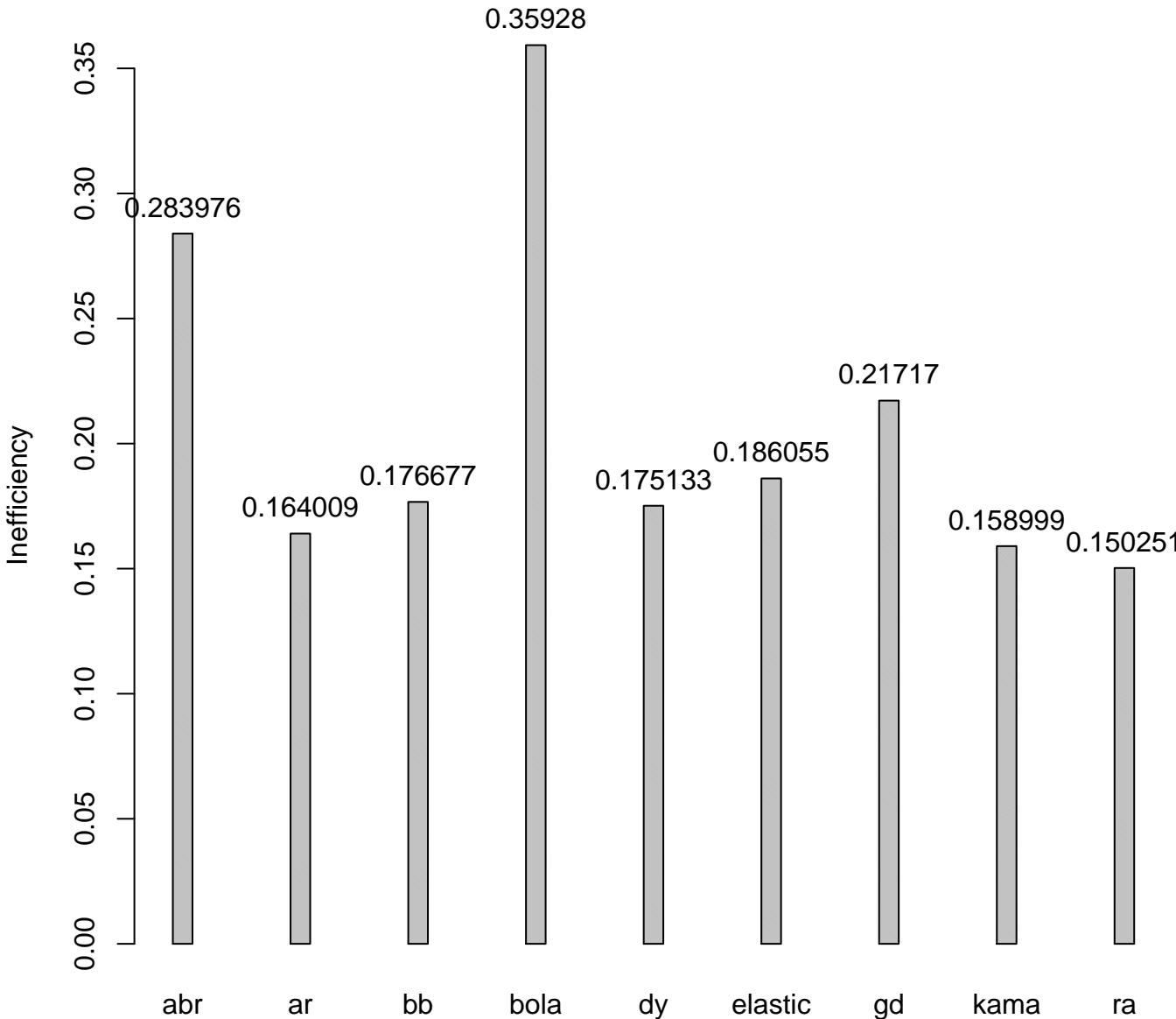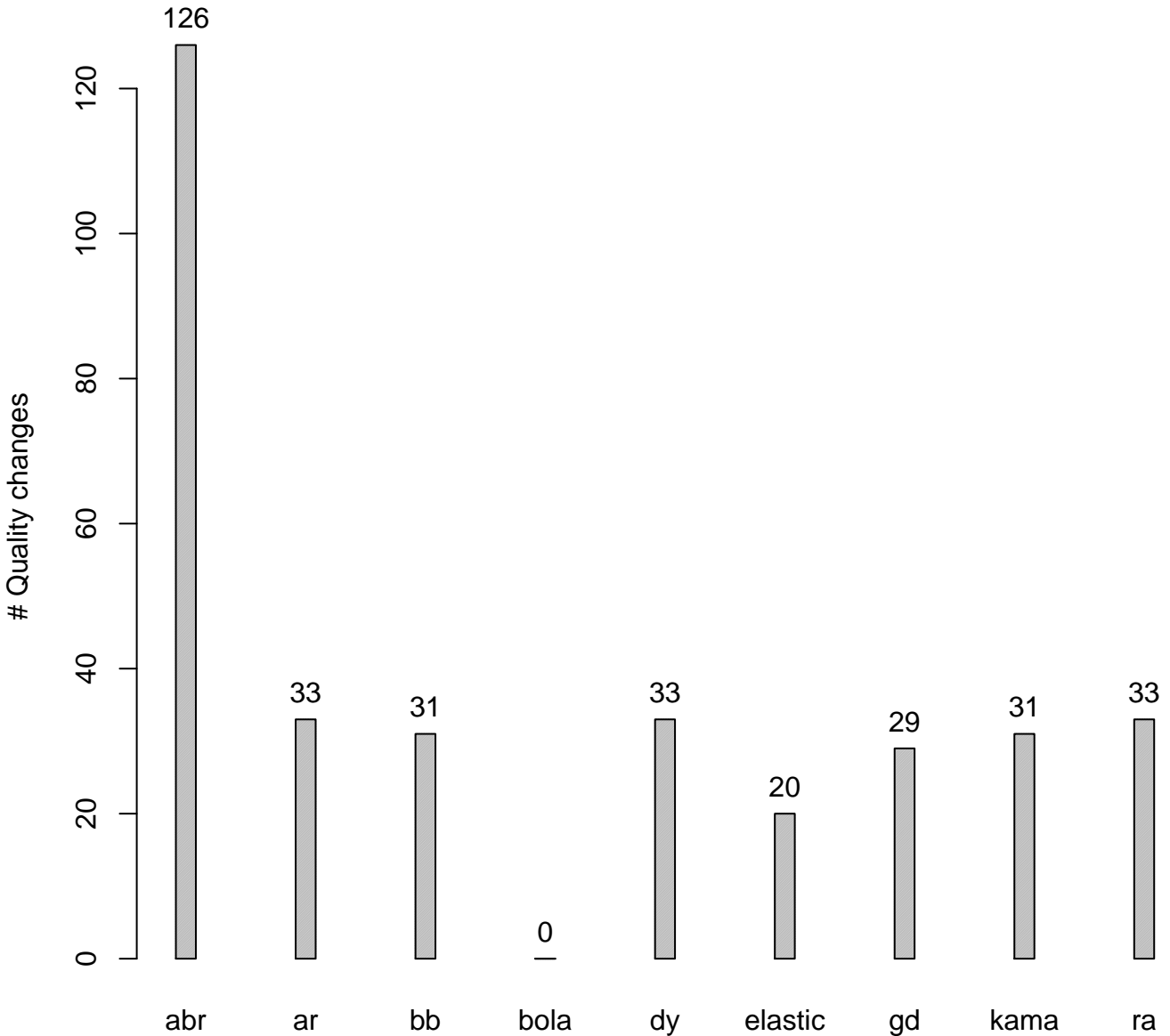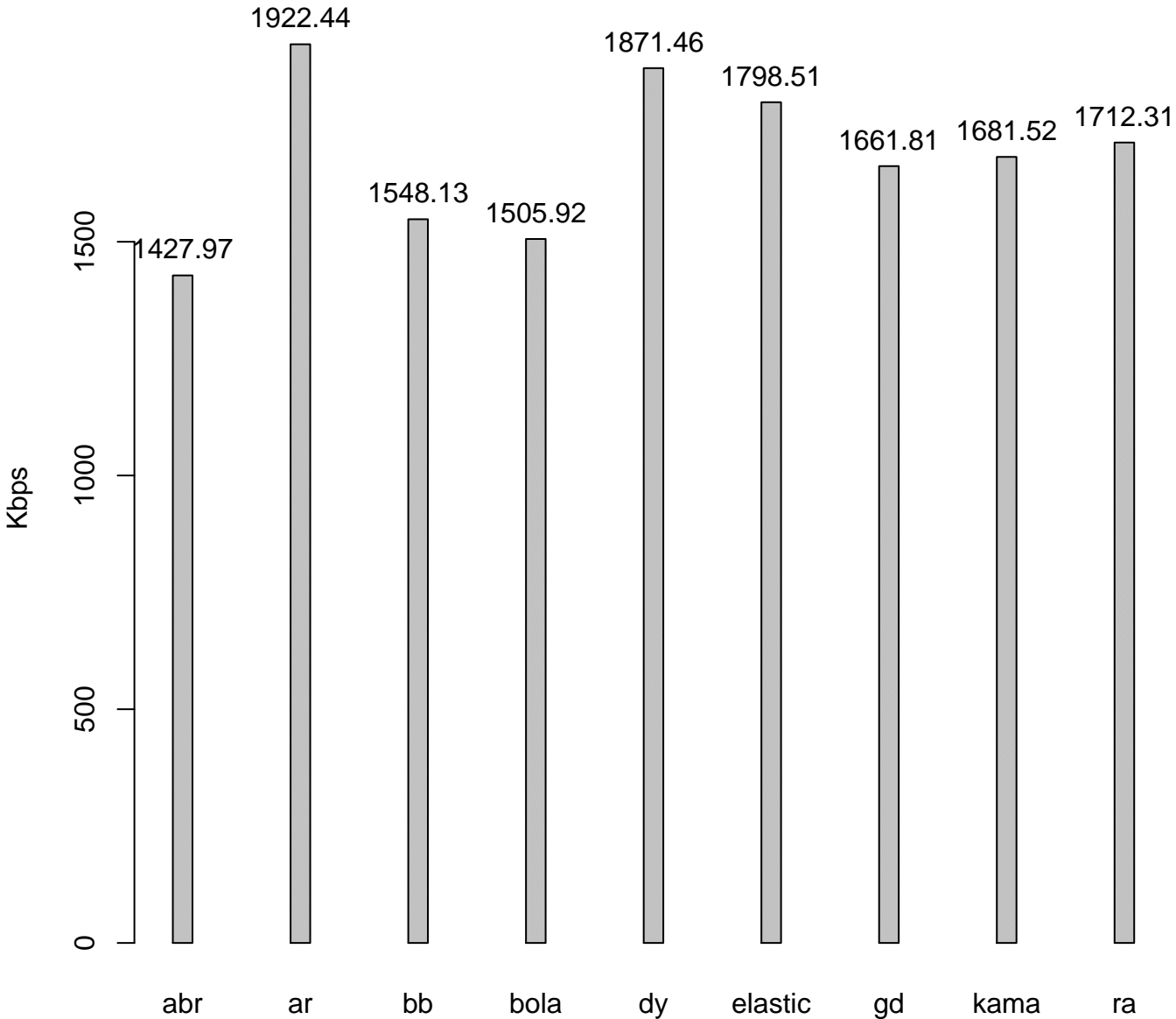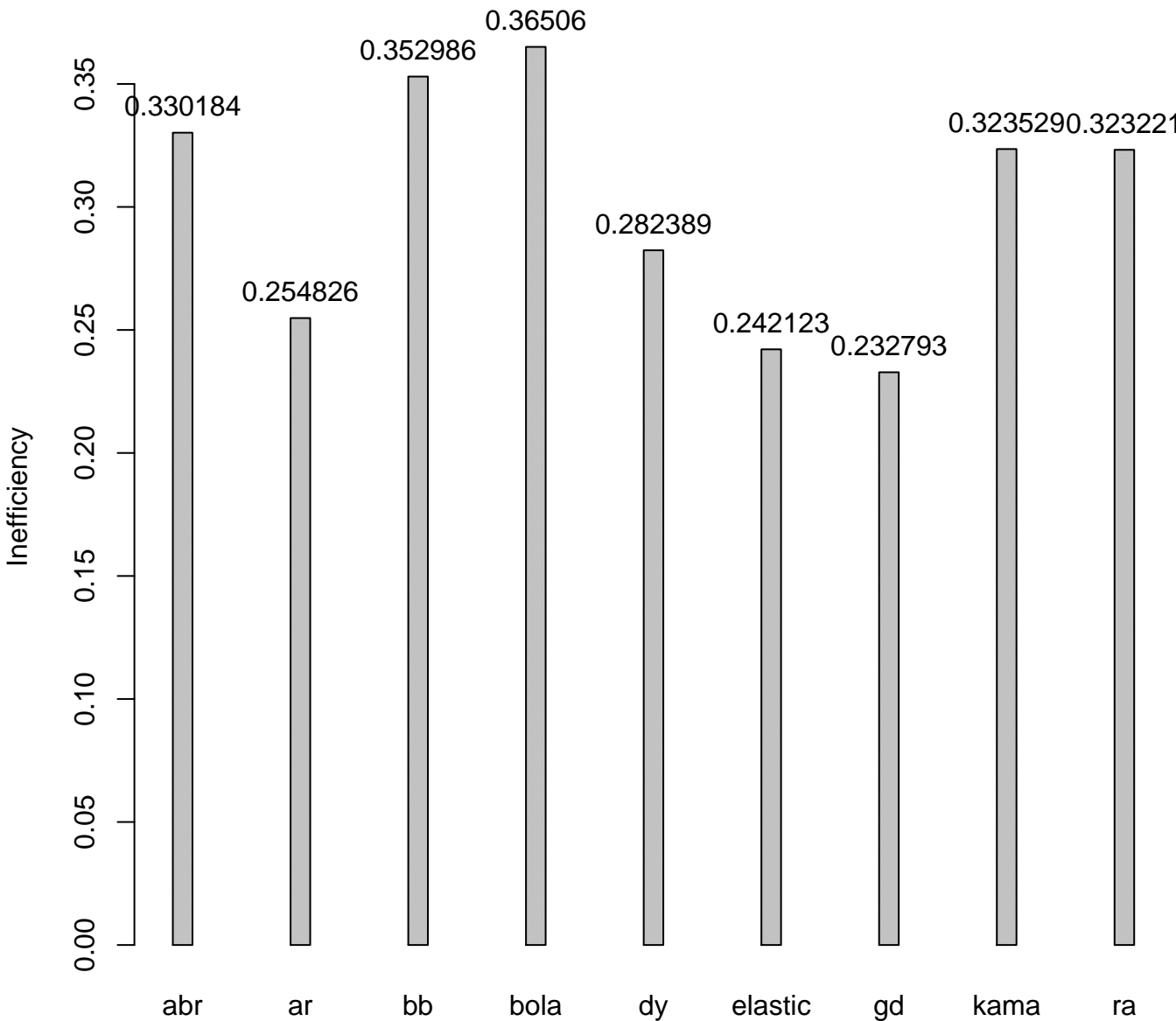**Network profile: p3 Sample: t4 Metric: # quality change**
Buffer: 30/60   min: bola

Network profile: p3 Sample: t5 Metric: Avg−Bitrate
Buffer: 30/60 max: ar

Network profile: p3 Sample: t5 Metric: Inefficiency
Buffer: 30/60   min: gd

Bar chart showing Inefficiency values:
- abr: 0.330184
- ar: 0.254826
- bb: 0.352986
- bola: 0.36506
- dy: 0.282389
- elastic: 0.242123
- gd: 0.232793
- kama: 0.323529
- ra: 0.323221

Network profile: p3 Sample: t5 Metric: # quality change
Buffer: 30/60   min: bb

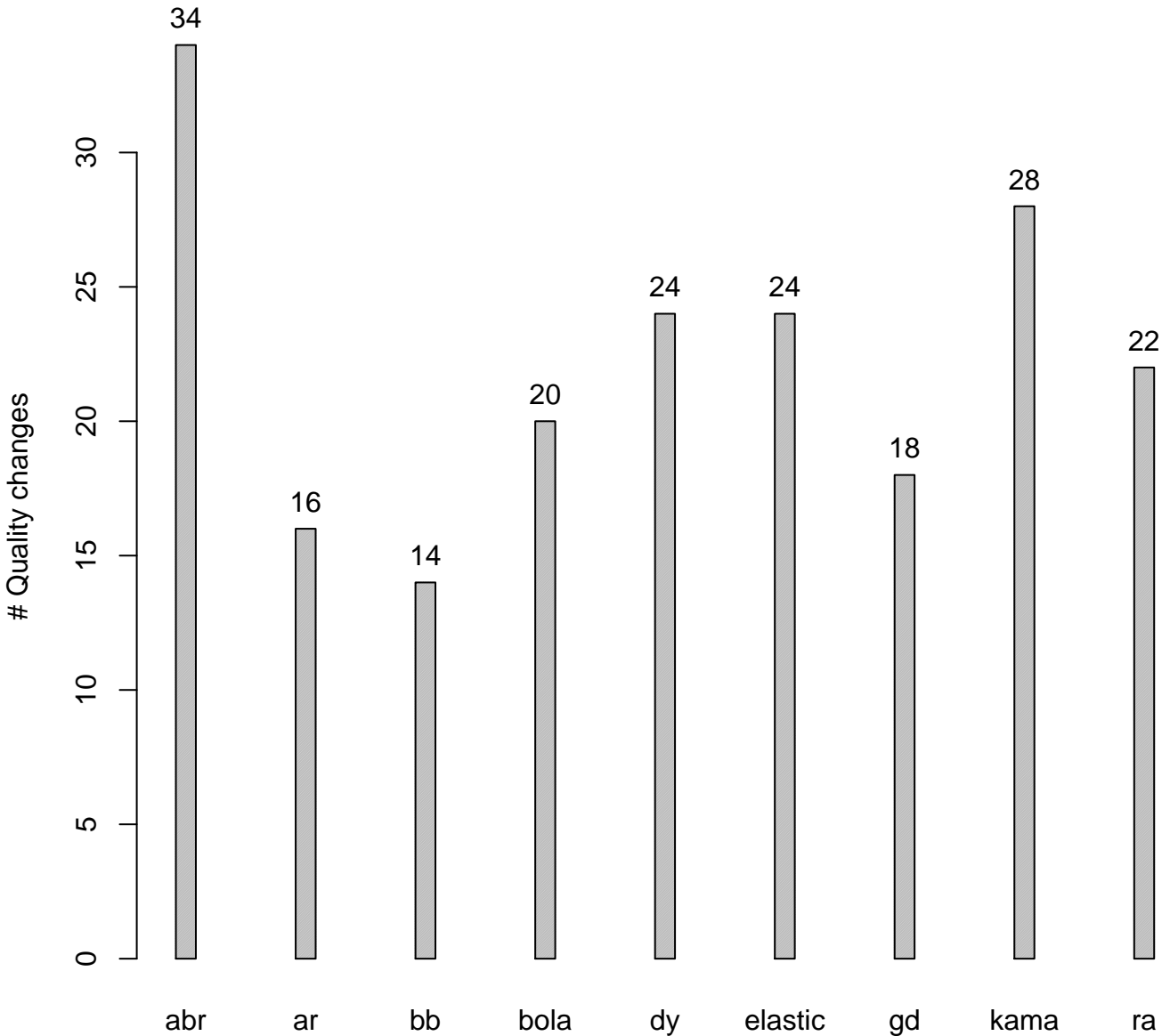**Network profile: p3 Sample: t6 Metric: Avg−Bitrate
Buffer: 30/60   max: bb**
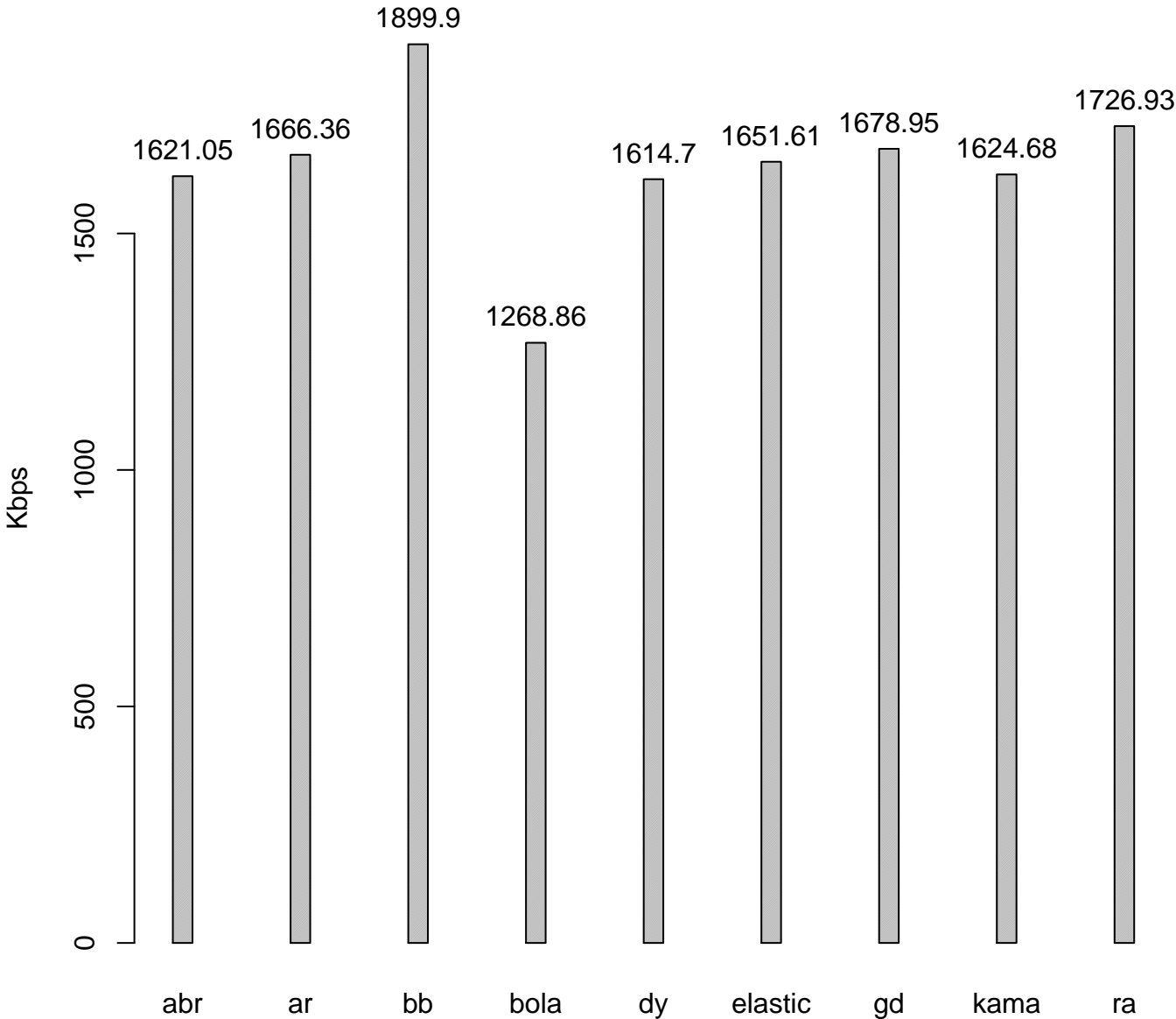
Kbps

Network profile: p3 Sample: t6 Metric: Inefficiency
Buffer: 30/60   min: elastic

Network profile: p3 Sample: t6 Metric: # quality change
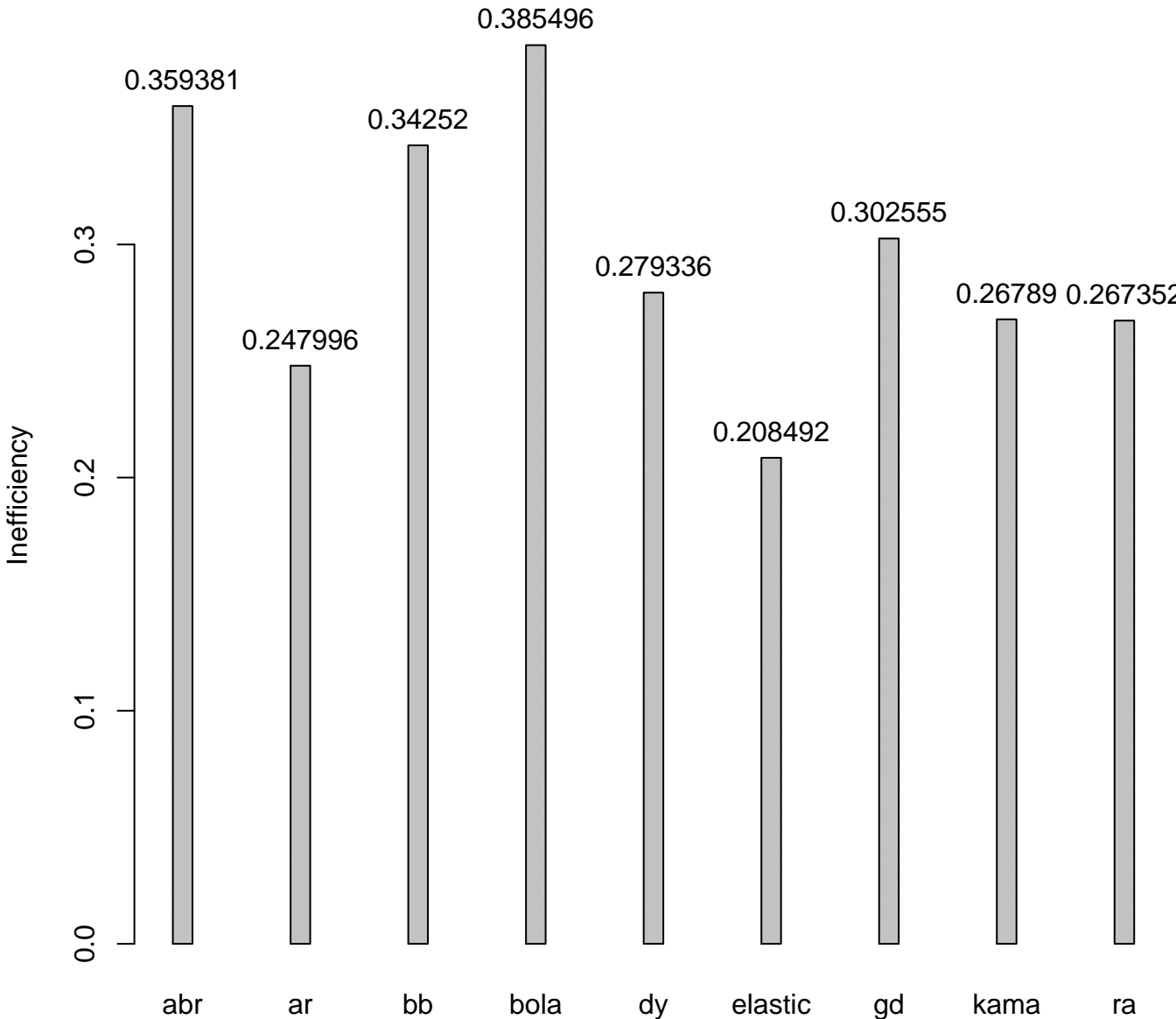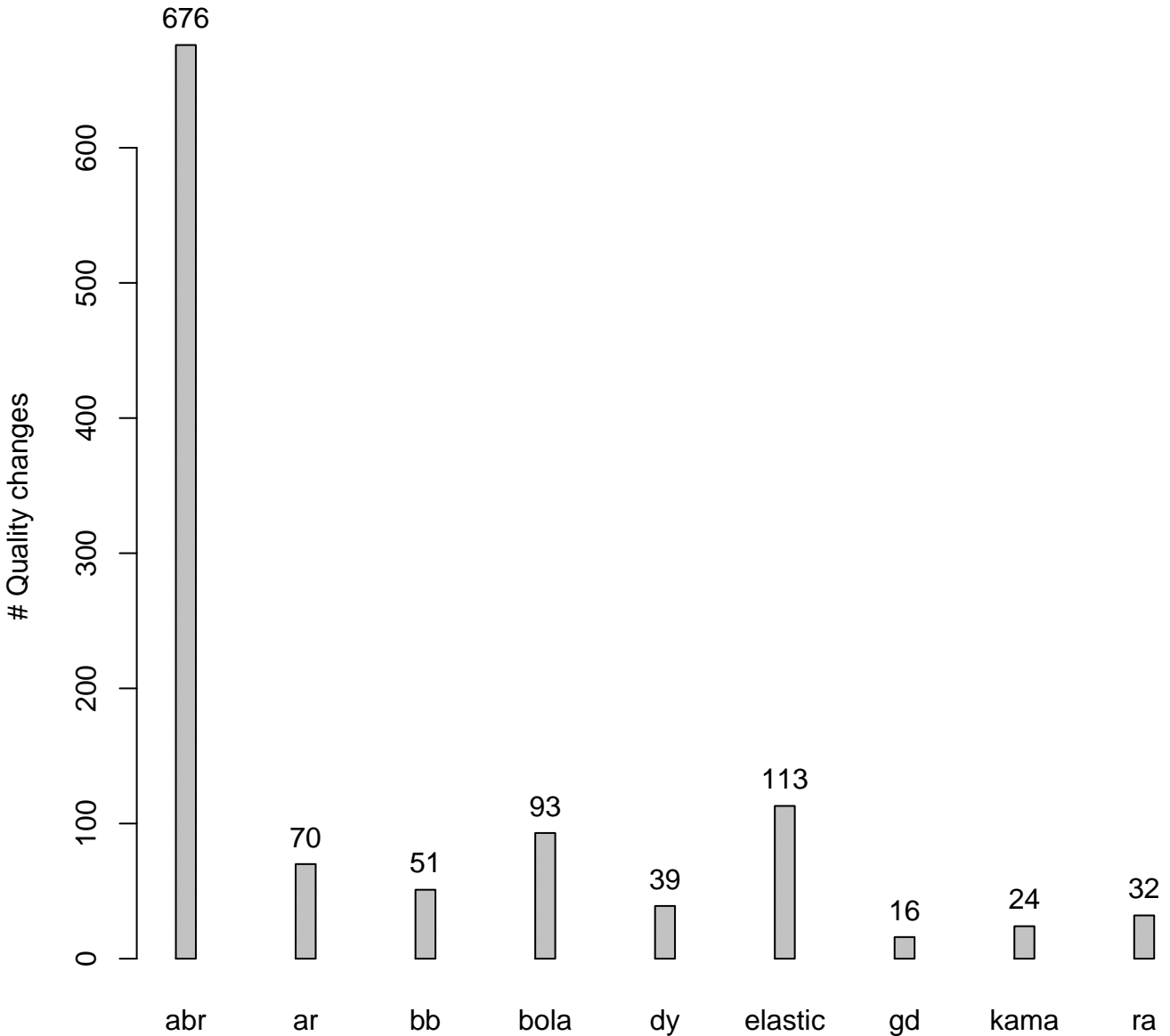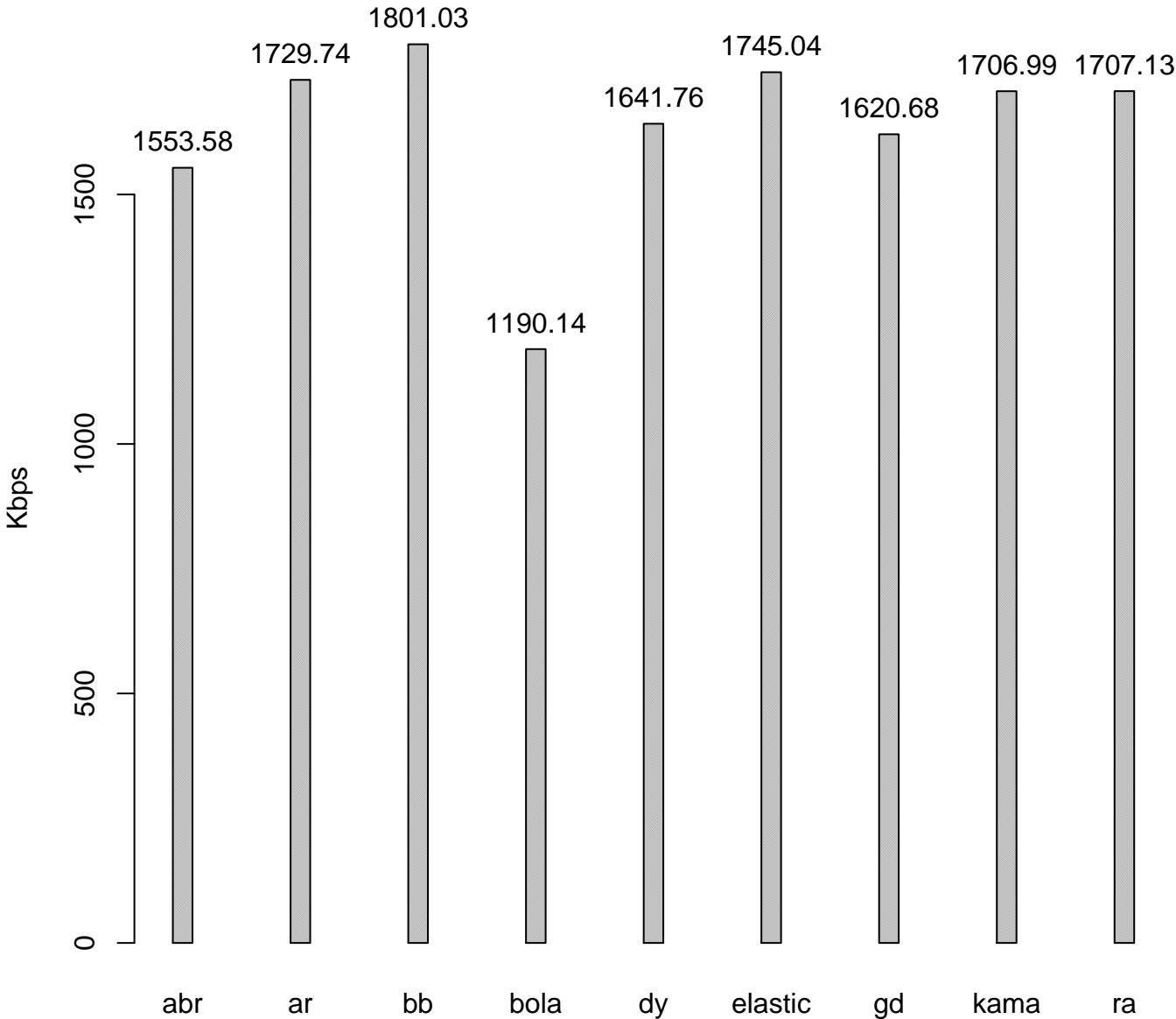**Buffer: 30/60   min: gd**

Network profile: p3 Sample: t7 Metric: Avg−Bitrate
Buffer: 30/60   max: bb

Network profile: p3 Sample: t7 Metric: Inefficiency
Buffer: 30/60   min: elastic

Inefficiency

0.445035 0.410874 0.361322 0.282149 0.262959 0.309209 0.294693 0.298888

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p3 Sample: t7 Metric: # quality change
Buffer: 30/60   min: bola

Network profile: p4 Sample: t1 Metric: Avg−Bitrate
Buffer: 30/60 max: ar

Network profile: p4 Sample: t1 Metric: Inefficiency
Buffer: 30/60   min: elastic

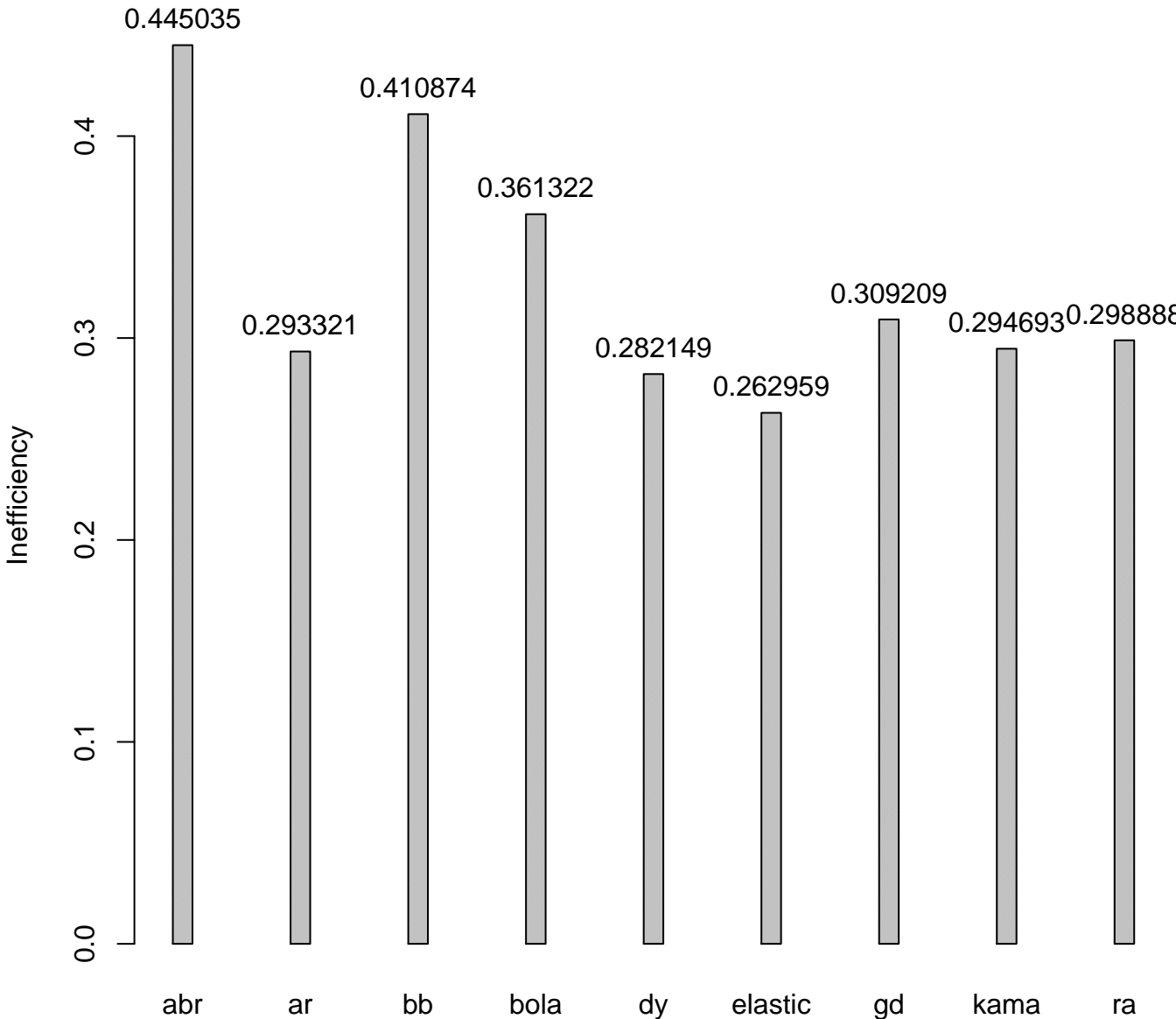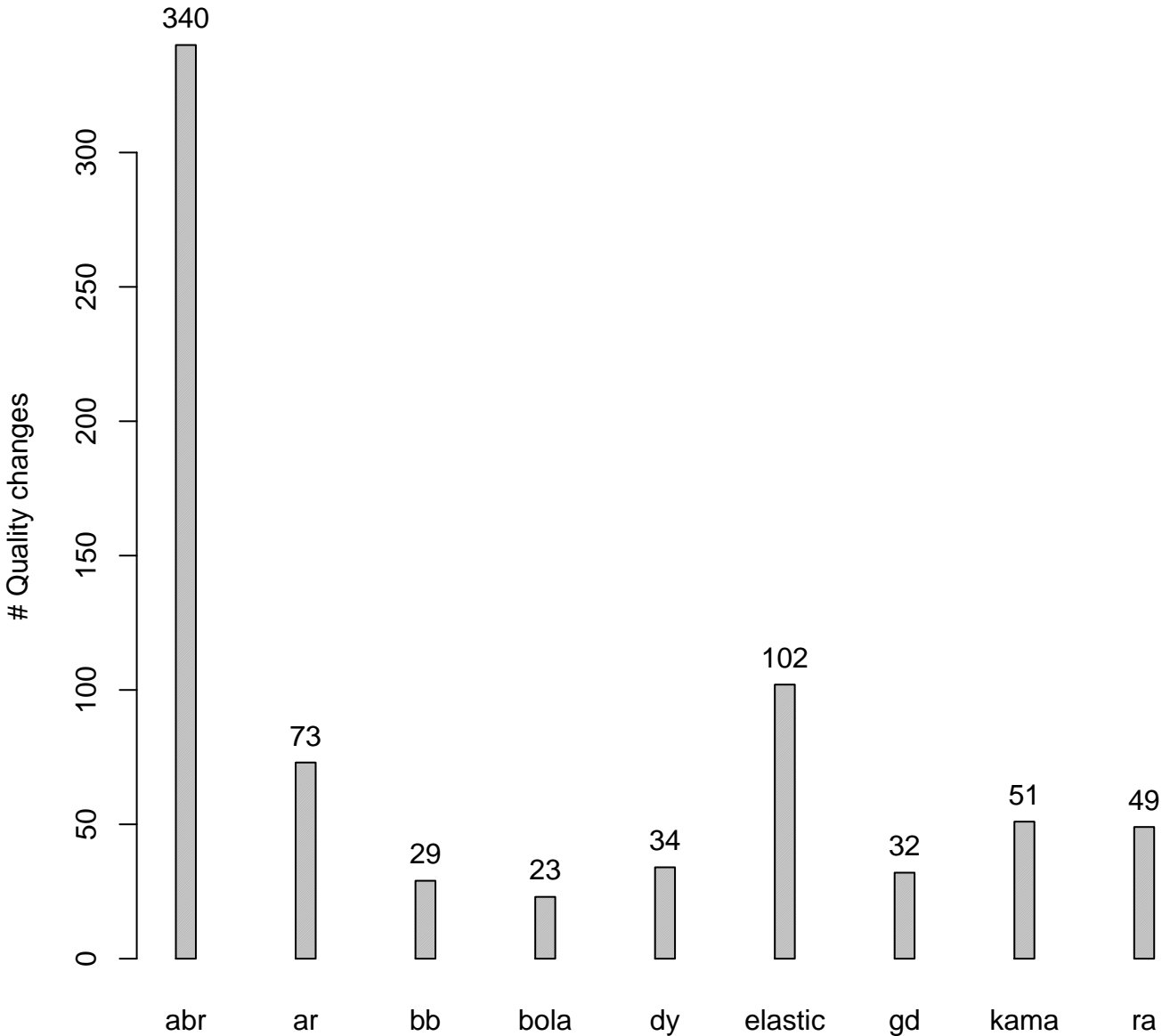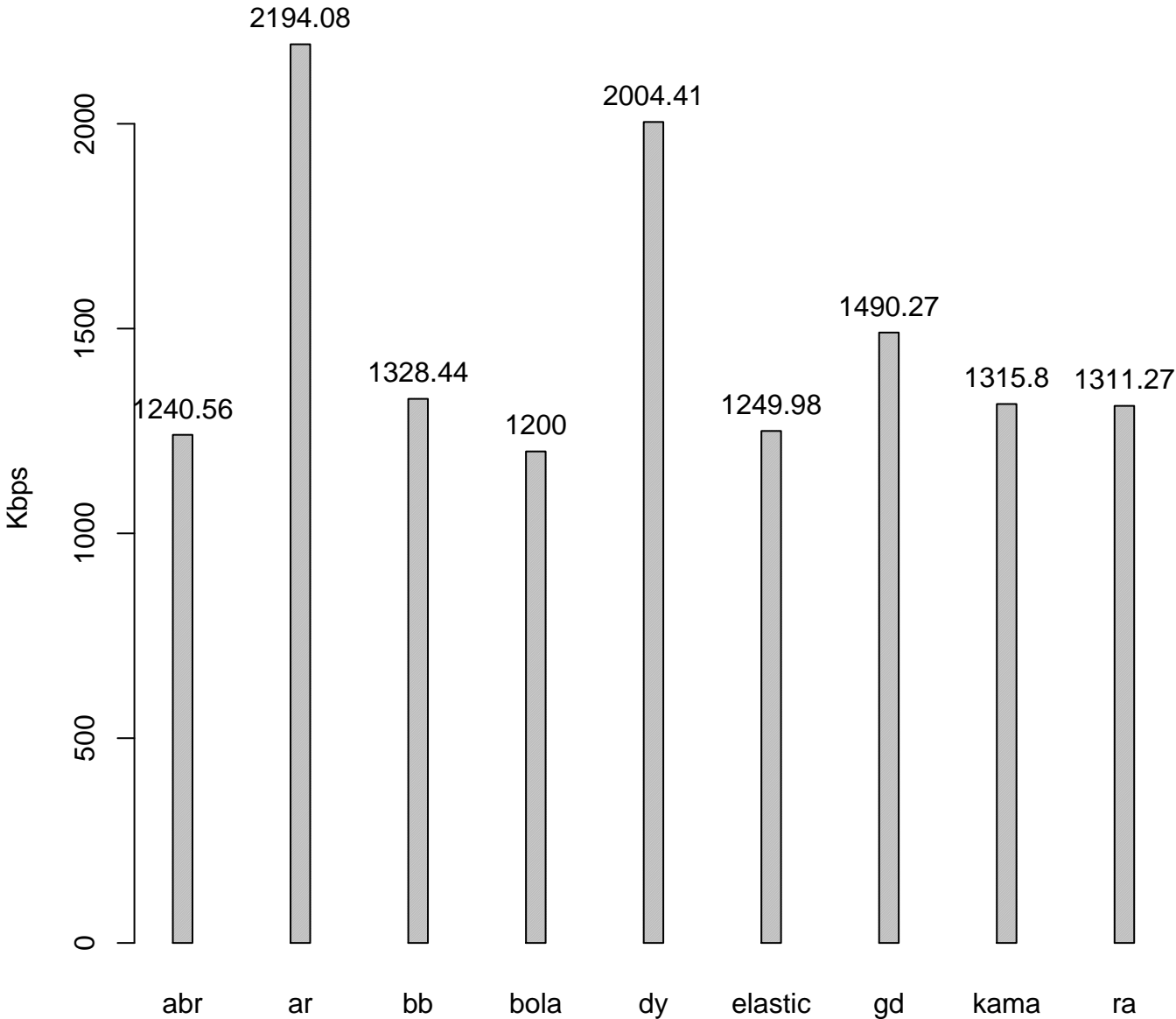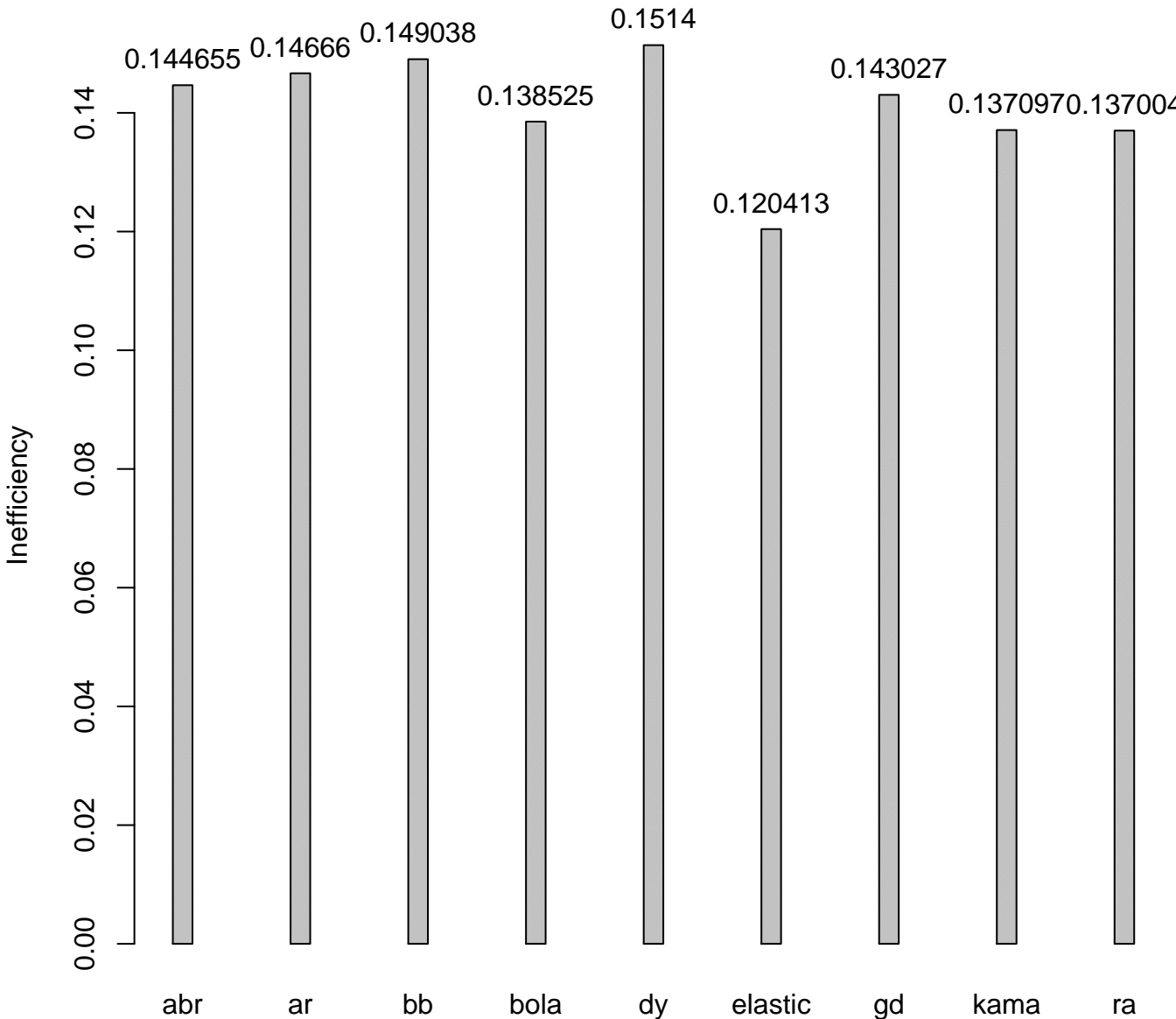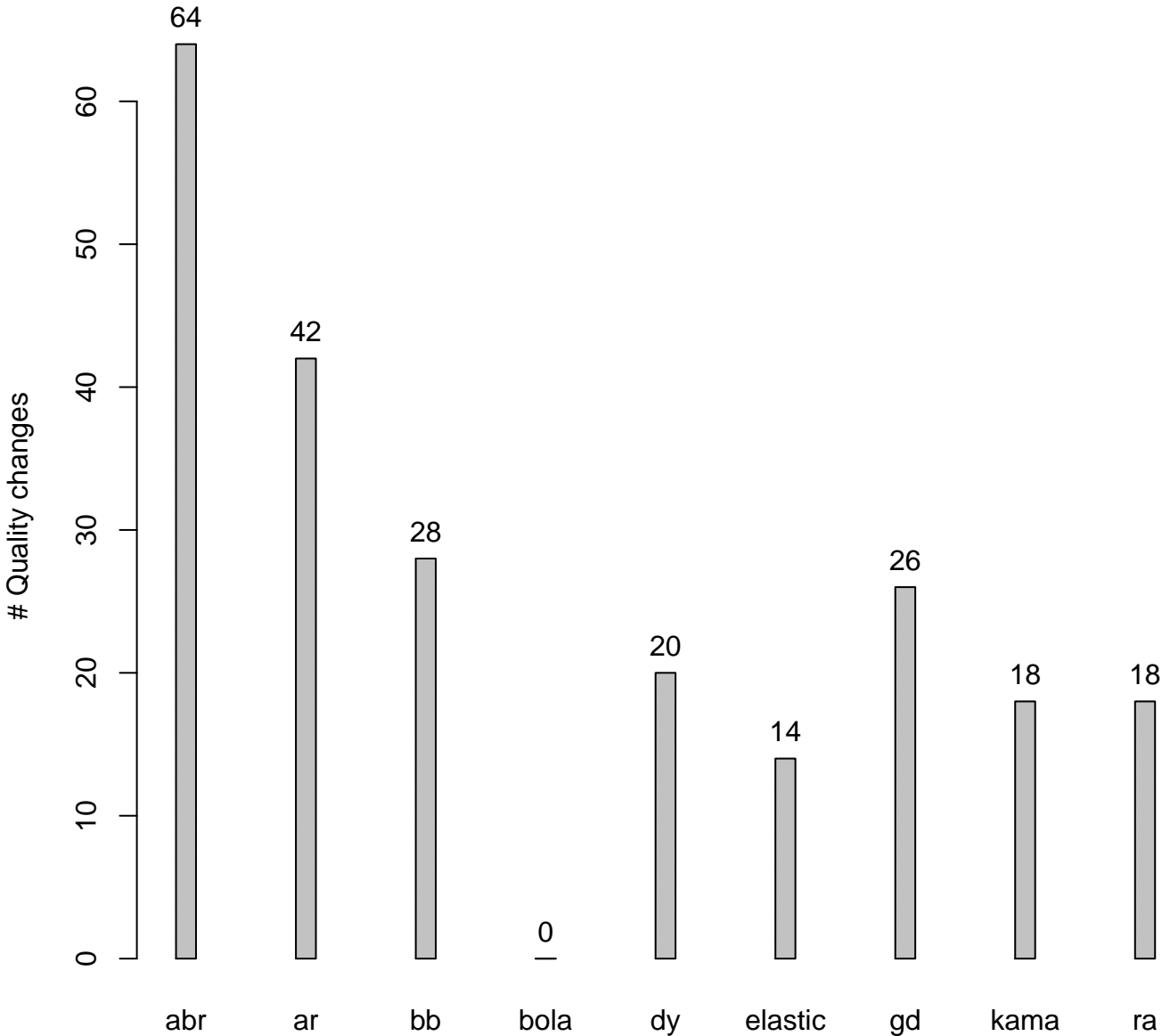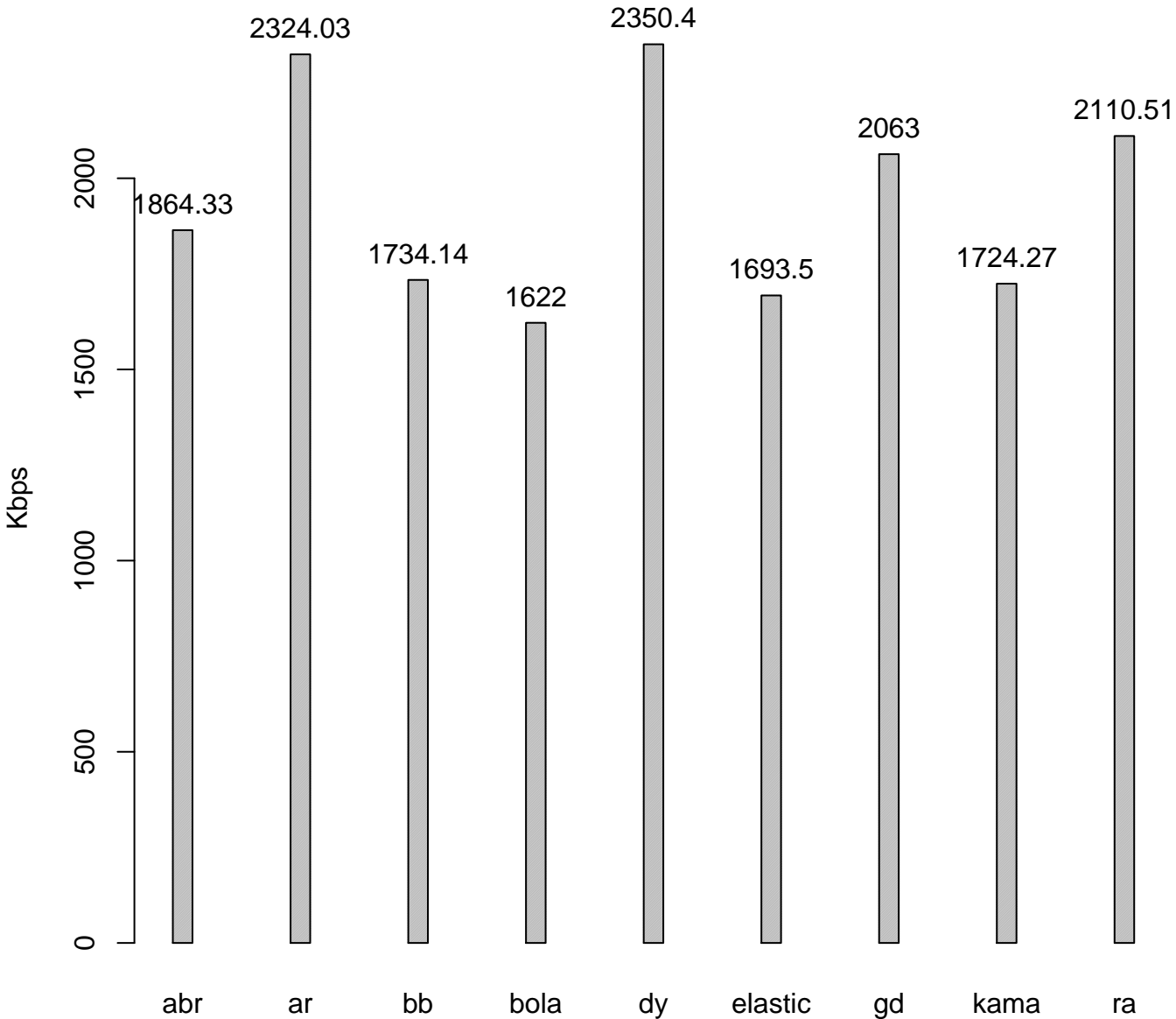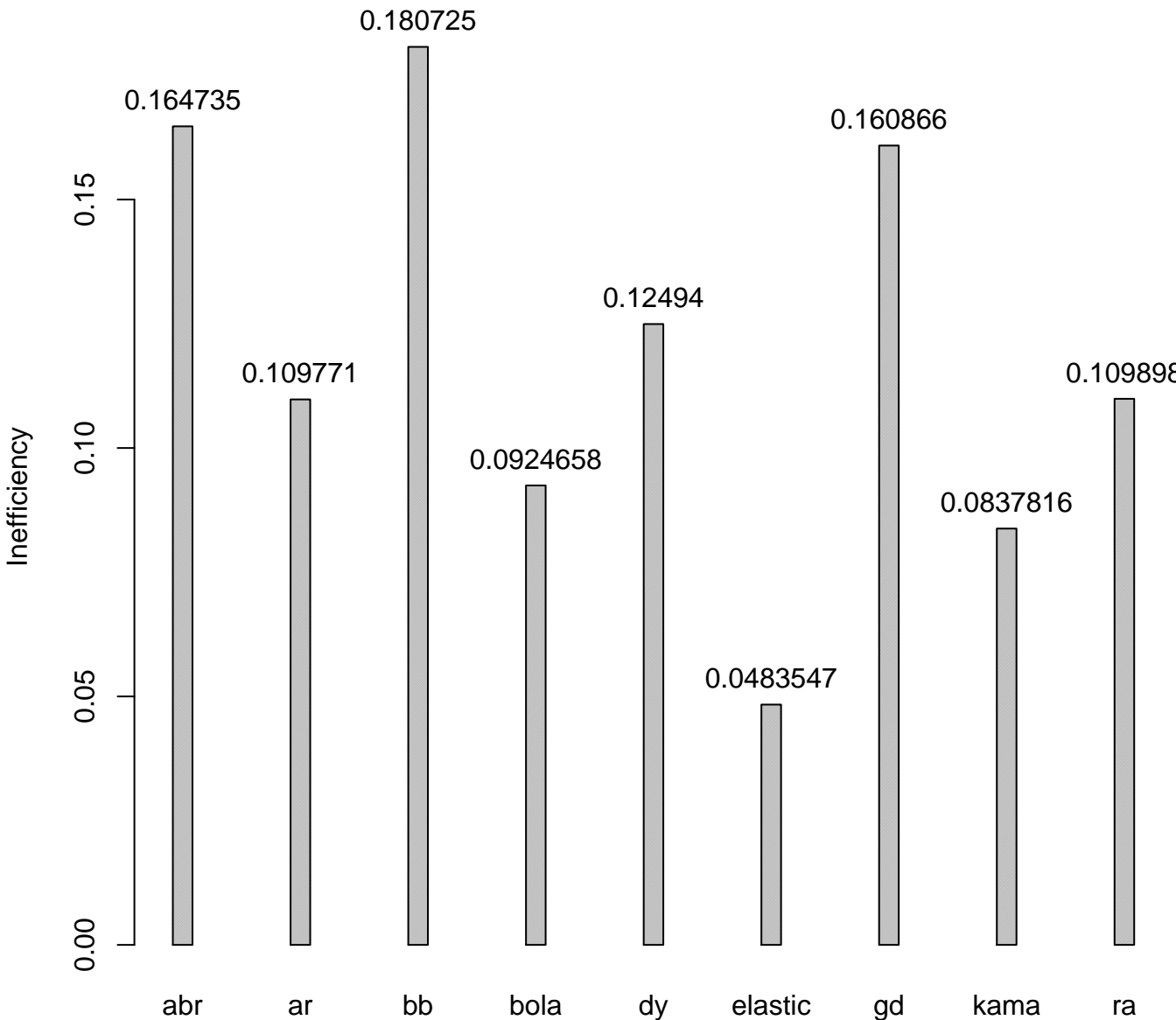**Network profile: p4 Sample: t1 Metric: # quality change**
Buffer: 30/60   min: bola

Network profile: p4 Sample: t2 Metric: Avg−Bitrate
Buffer: 30/60   max: dy

Network profile: p4 Sample: t2 Metric: Inefficiency
Buffer: 30/60   min: elastic

Inefficiency

0.164735	0.180725	0.160866
0.109771	0.12494	0.109898
0.0924658	0.0483547	0.0837816

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p4 Sample: t2 Metric: # quality change
Buffer: 30/60   min: bola

Network profile: p4 Sample: t3 Metric: Avg−Bitrate
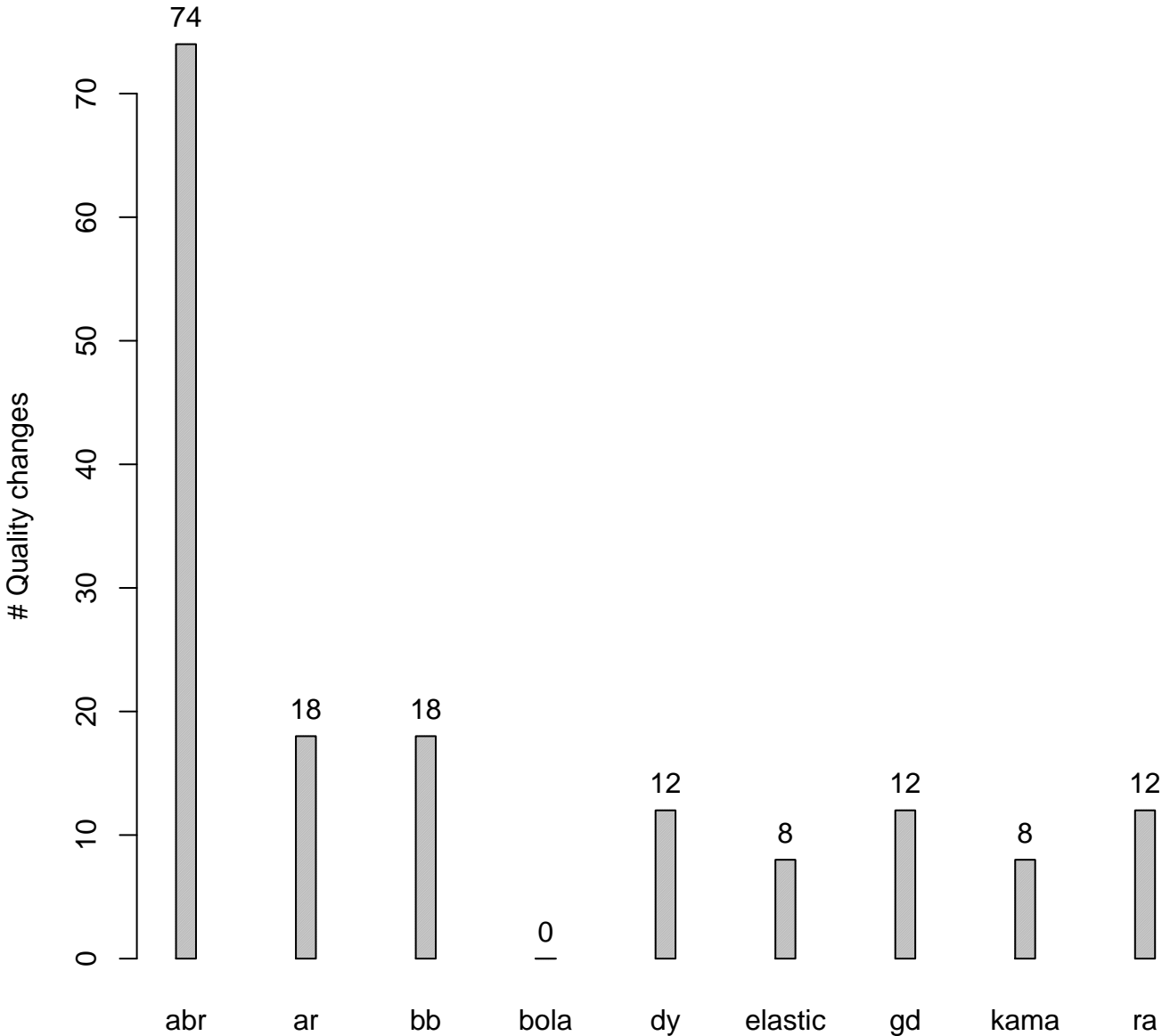**Buffer: 30/60 max: ar**
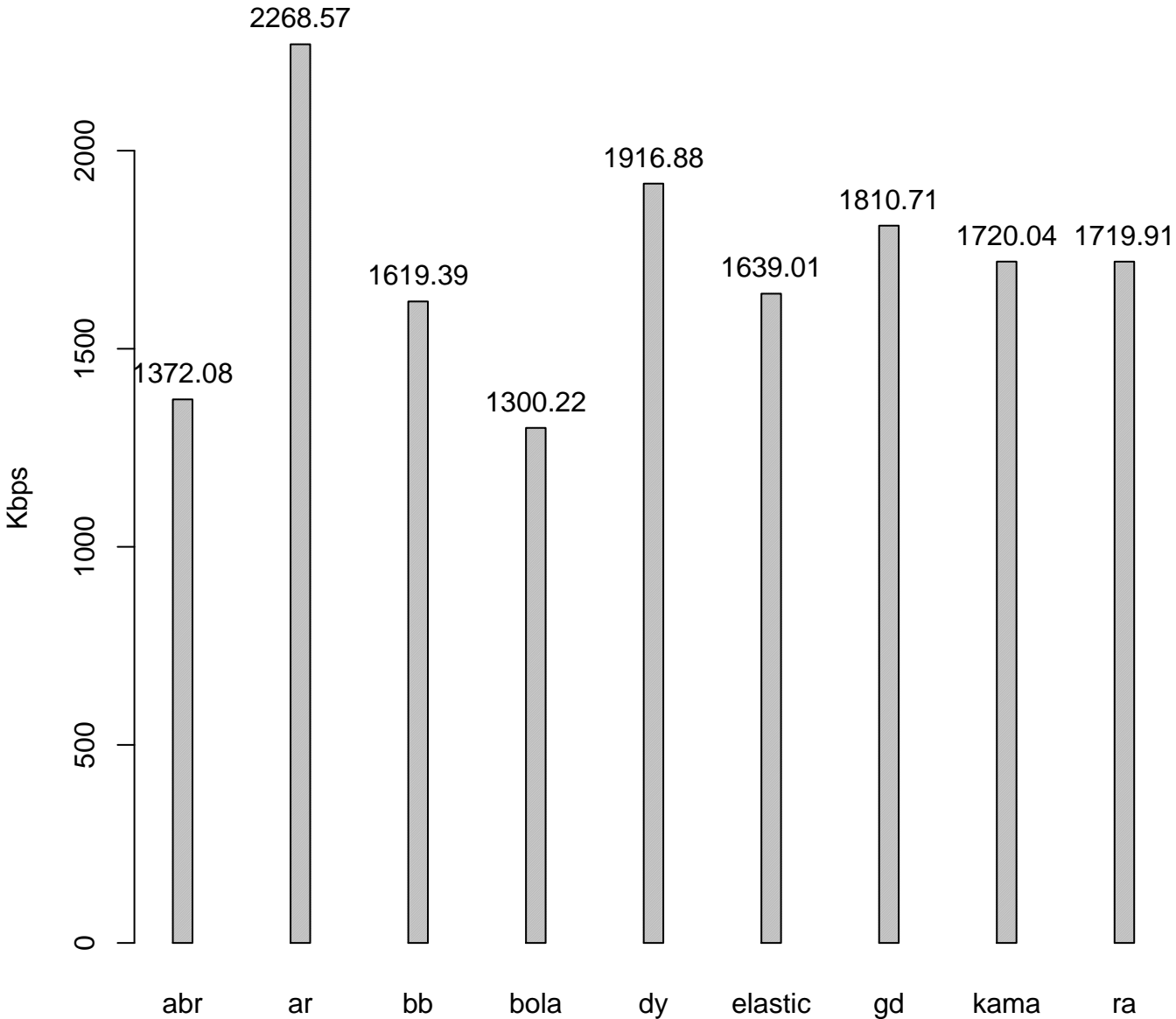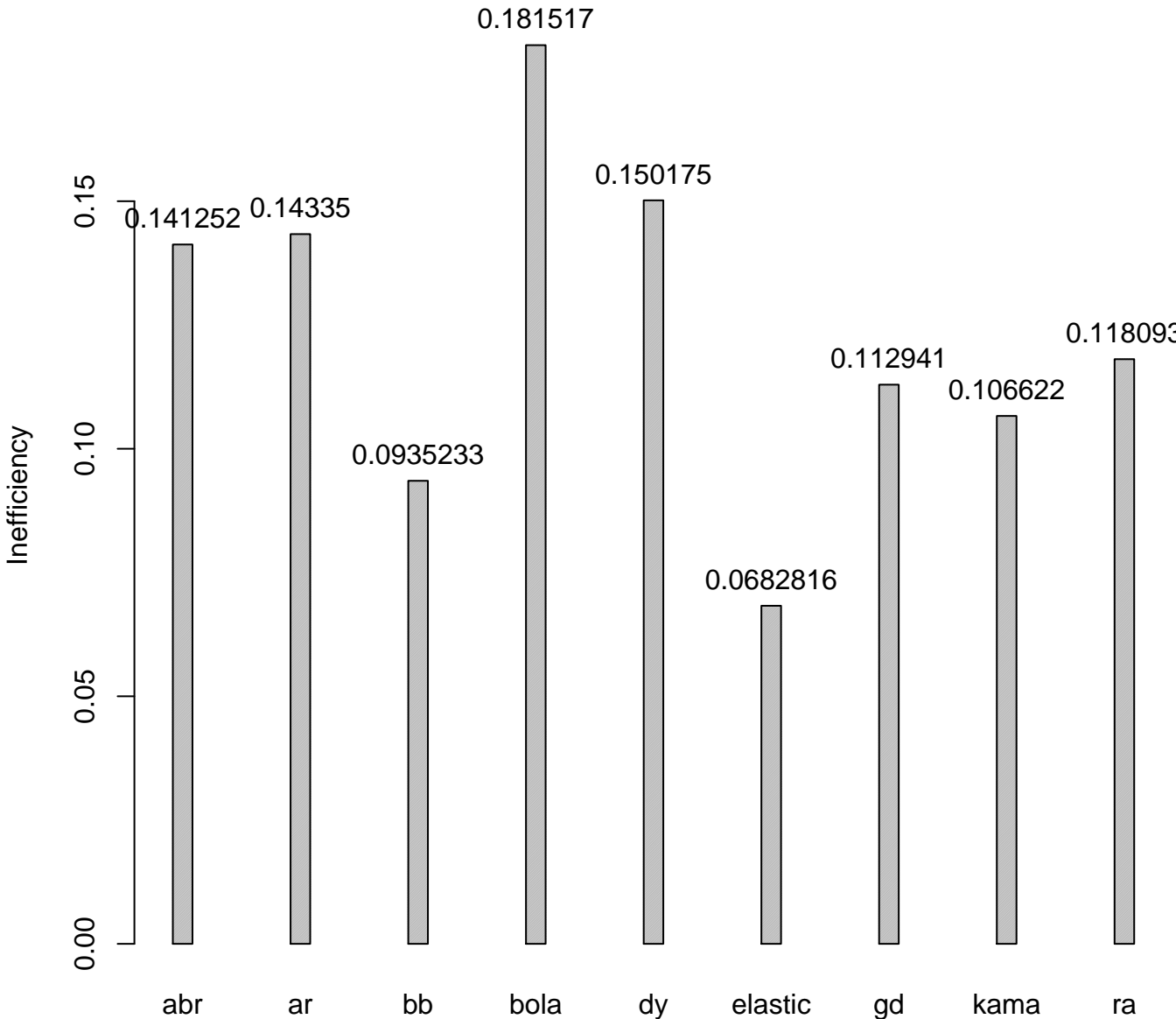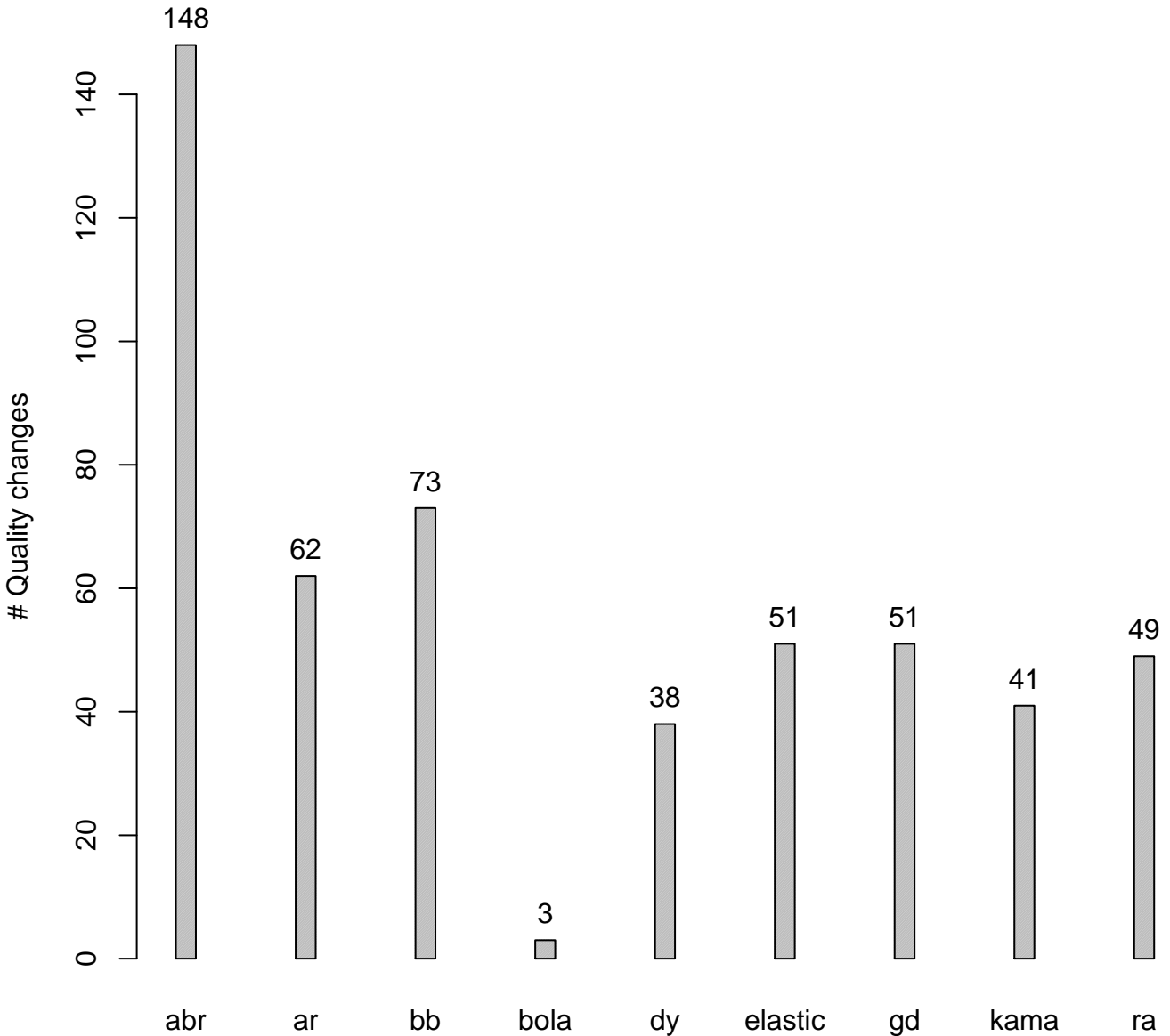
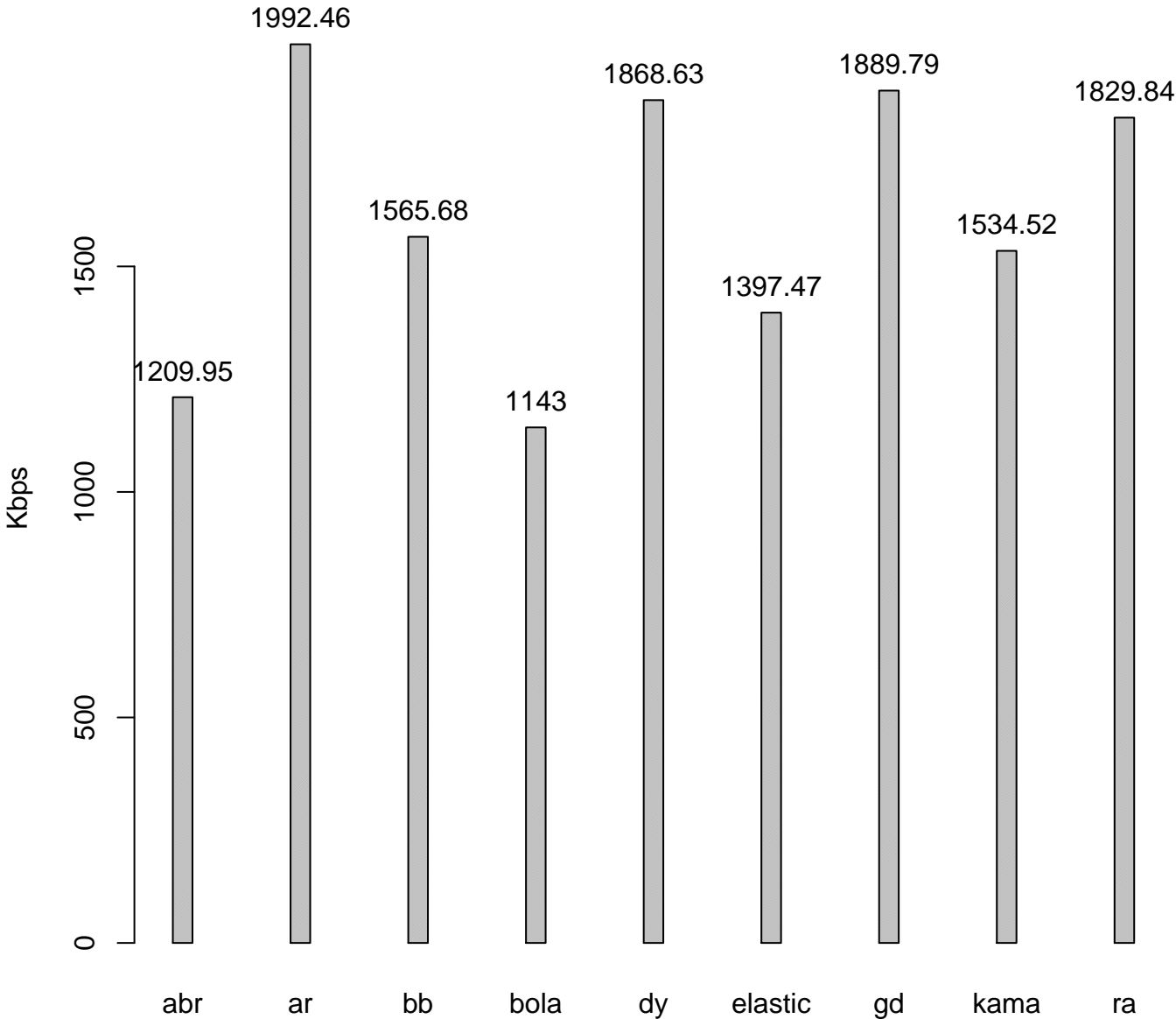**Network profile: p4 Sample: t3 Metric: Inefficiency**
Buffer: 30/60   min: elastic

Network profile: p4 Sample: t3 Metric: # quality change
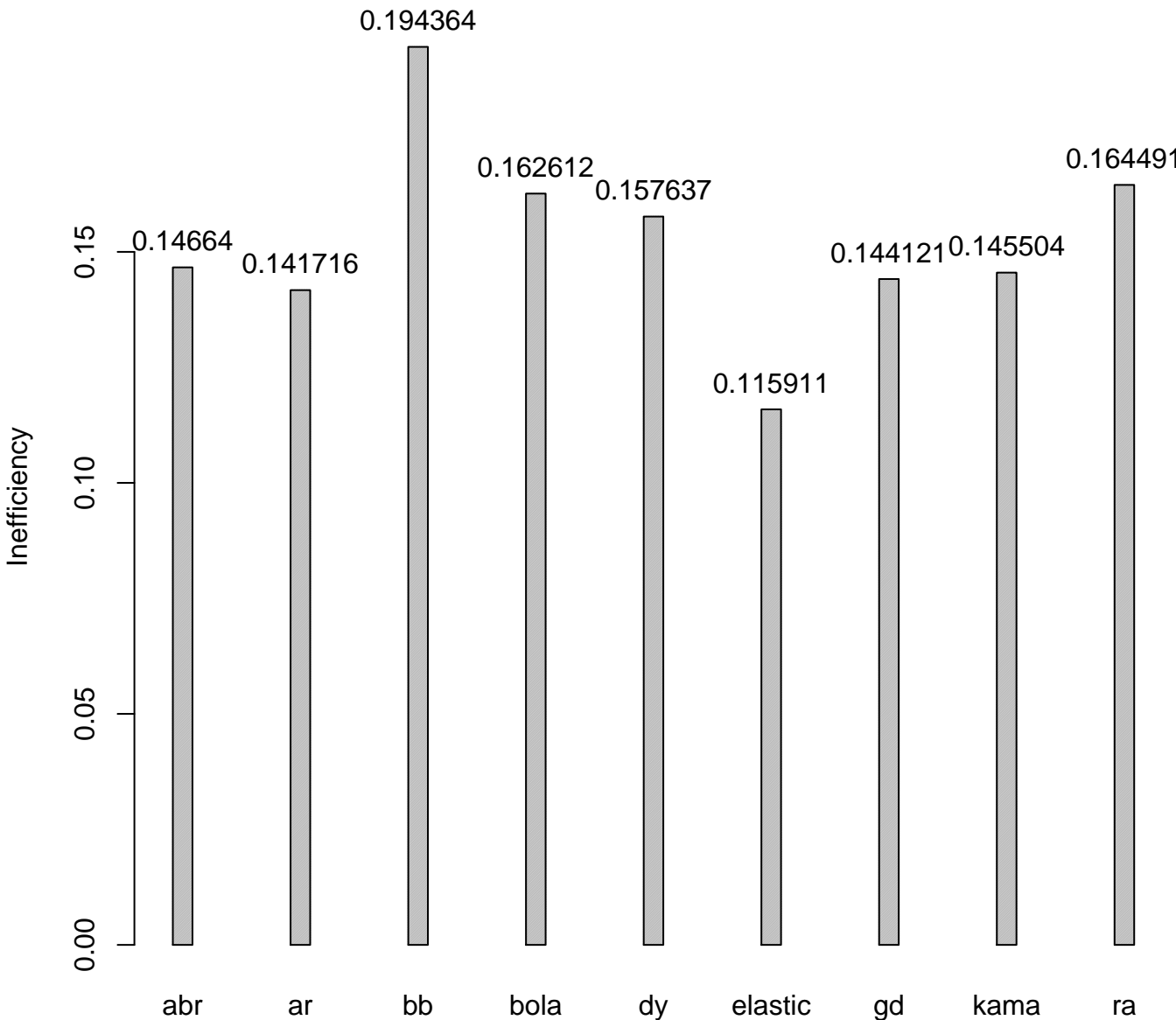**Buffer: 30/60   min: bola**

Network profile: p4 Sample: t4 Metric: Avg−Bitrate
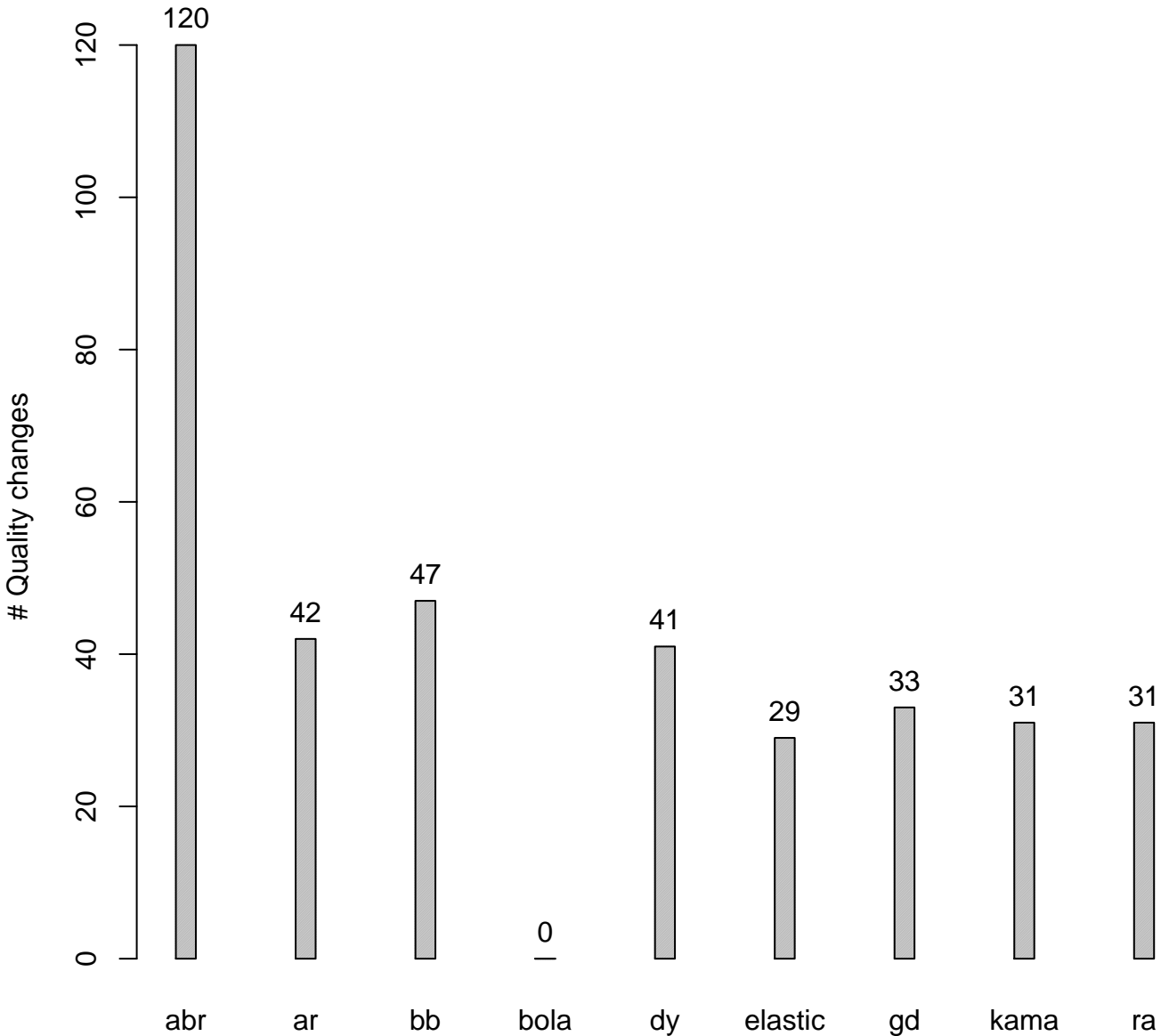**Buffer: 30/60   max: ar**

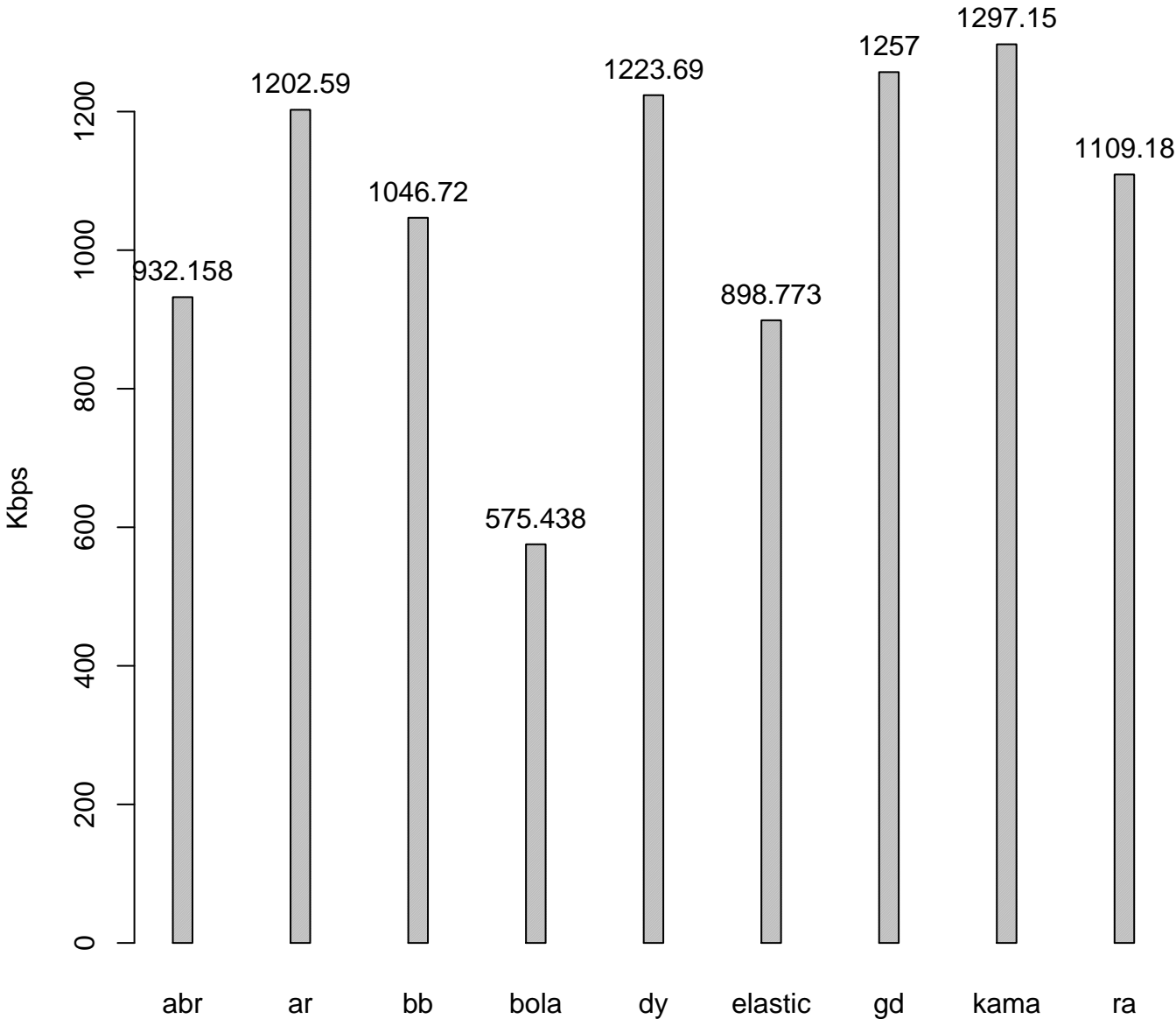**Network profile: p4 Sample: t4 Metric: Inefficiency**
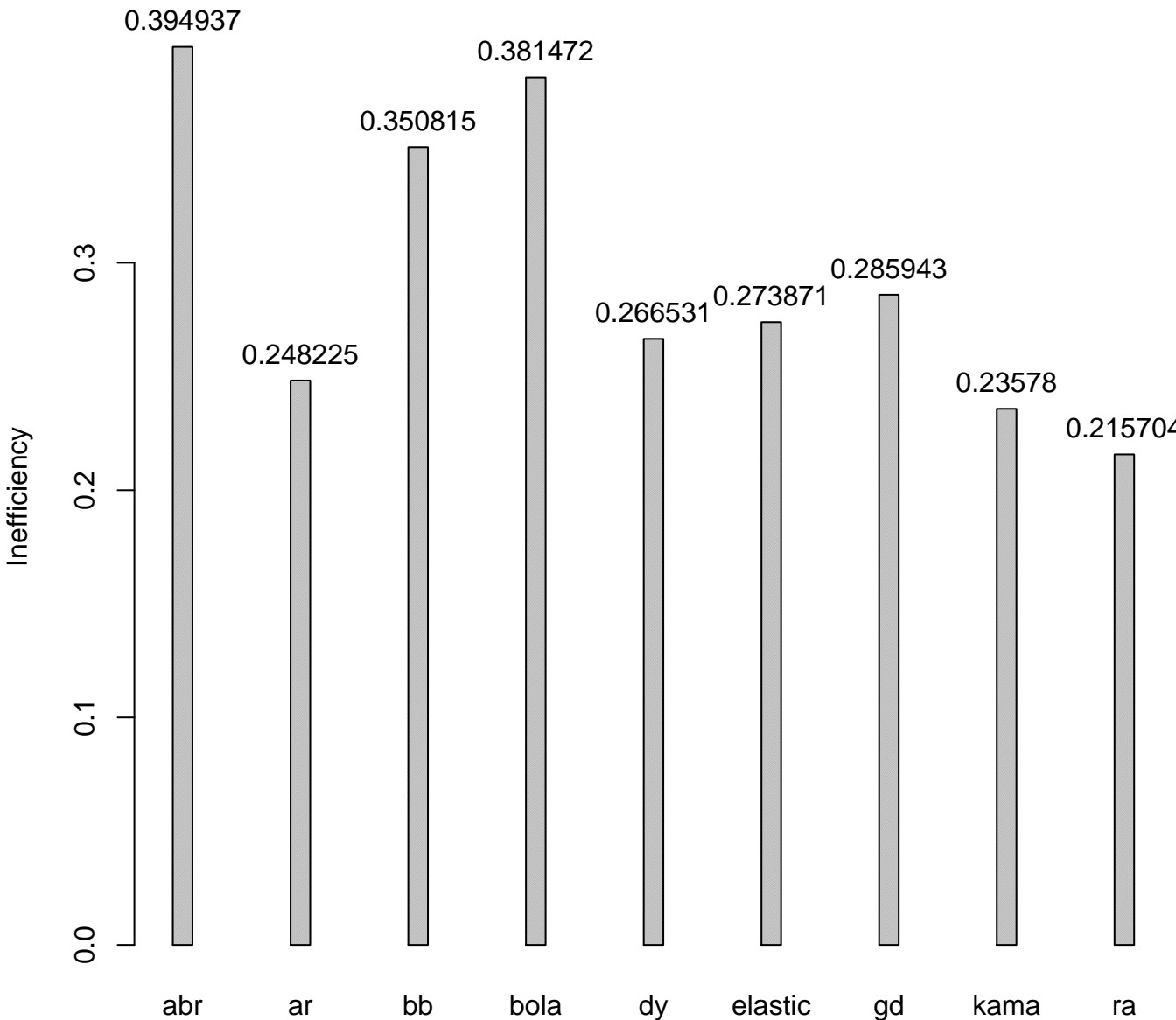**Buffer: 30/60   min: elastic**

Network profile: p4 Sample: t4 Metric: # quality change
Buffer: 30/60   min: bola

Network profile: p4 Sample: t5 Metric: Avg−Bitrate
Buffer: 30/60   max: kama

Kbps

932.158 1202.59 1046.72 575.438 1223.69 898.773 1257 1297.15 1109.18

abr   ar   bb   bola   dy   elastic   gd   kama   ra

Network profile: p4 Sample: t5 Metric: Inefficiency
Buffer: 30/60   min: ra

Network profile: p4 Sample: t5 Metric: # quality change
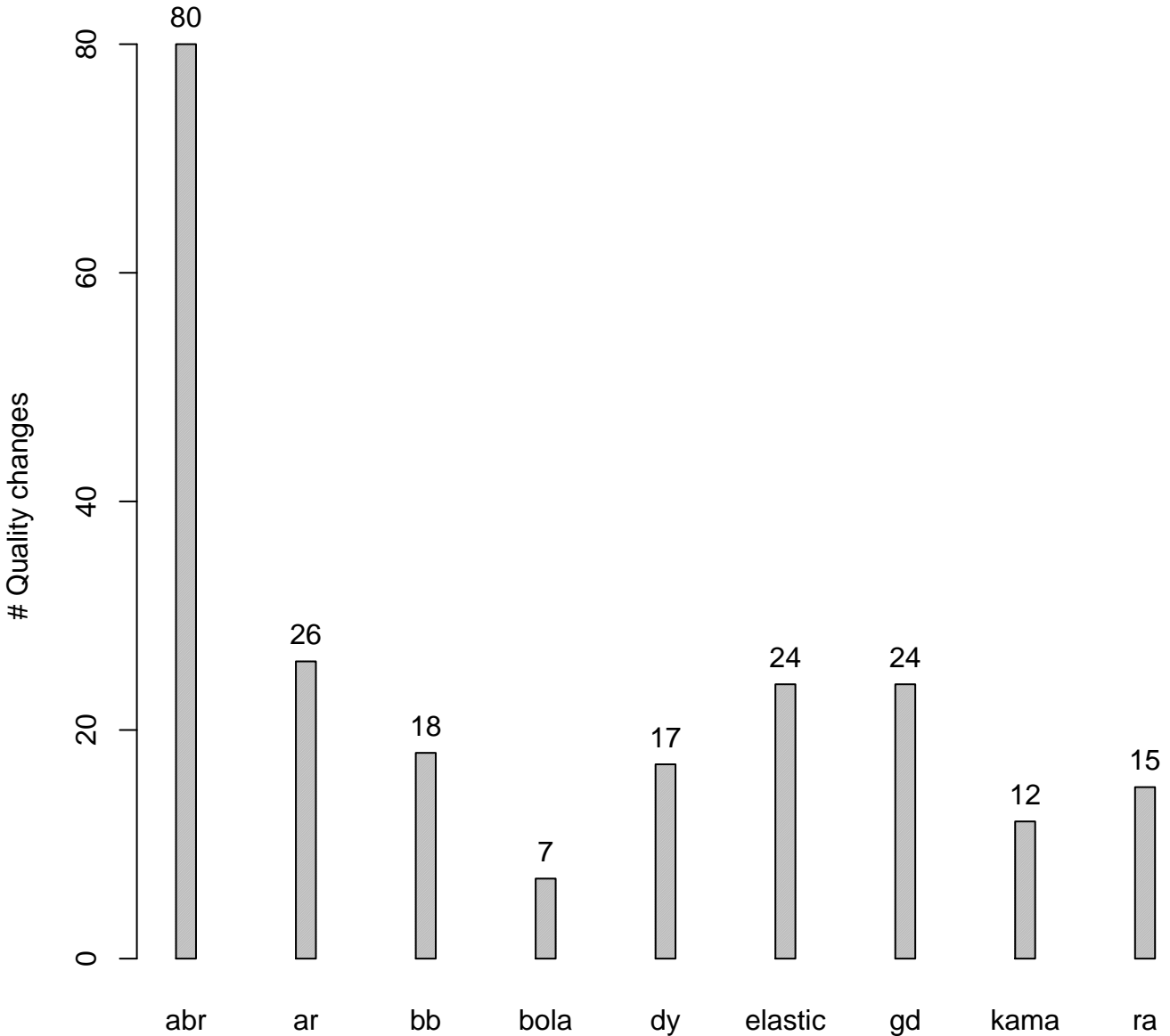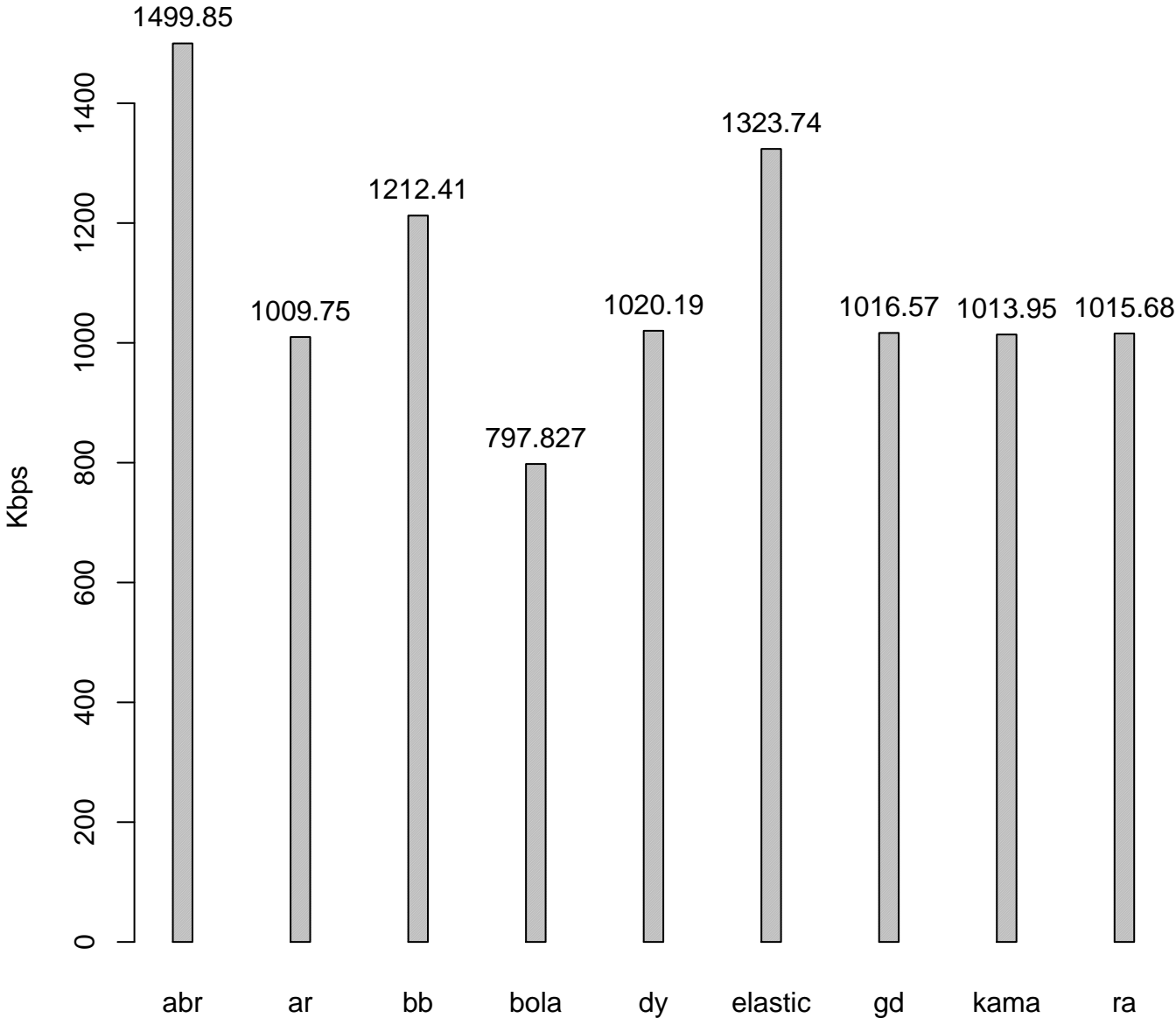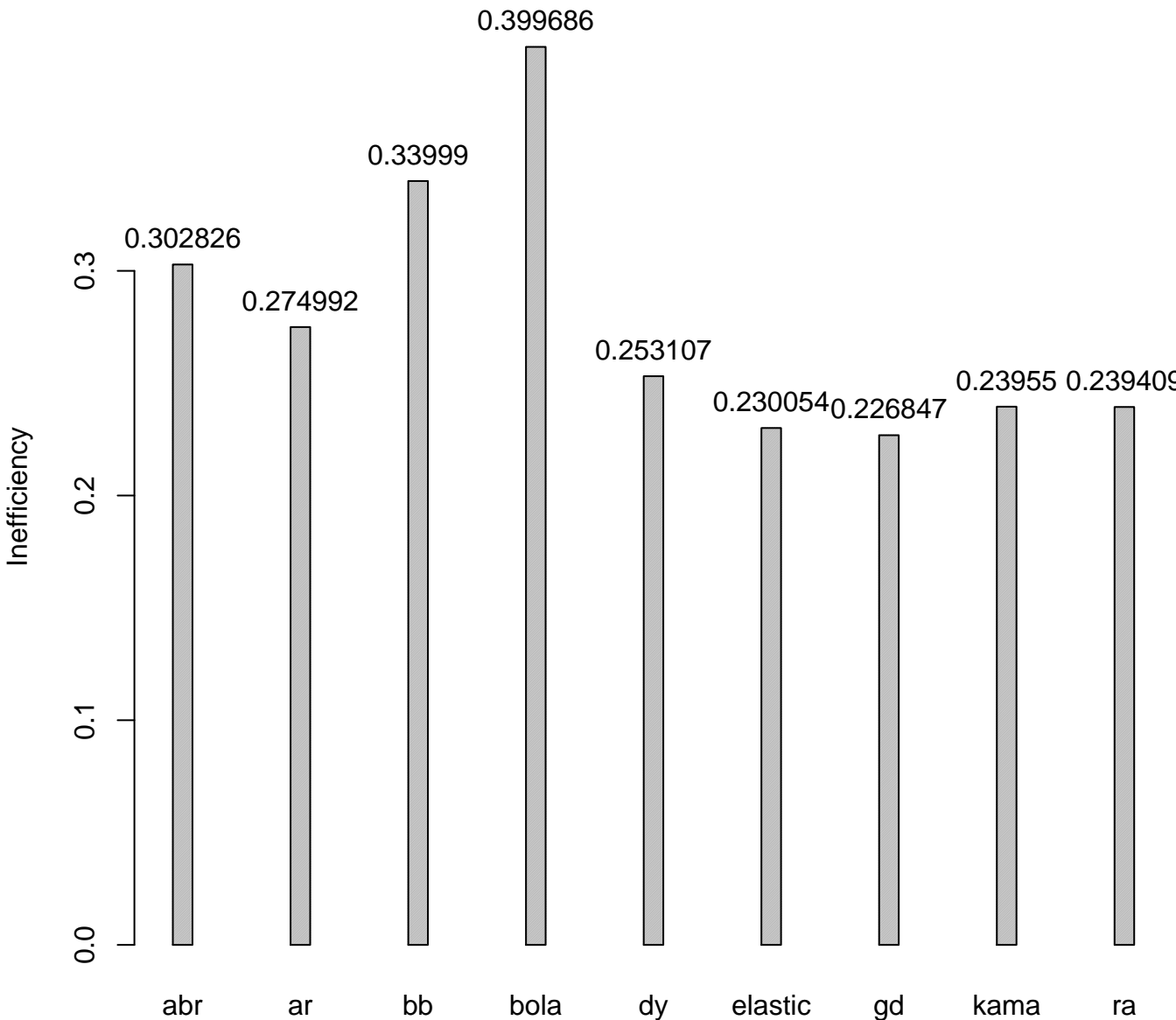**Buffer: 30/60   min: bola**

Network profile: p4 Sample: t6 Metric: Avg−Bitrate
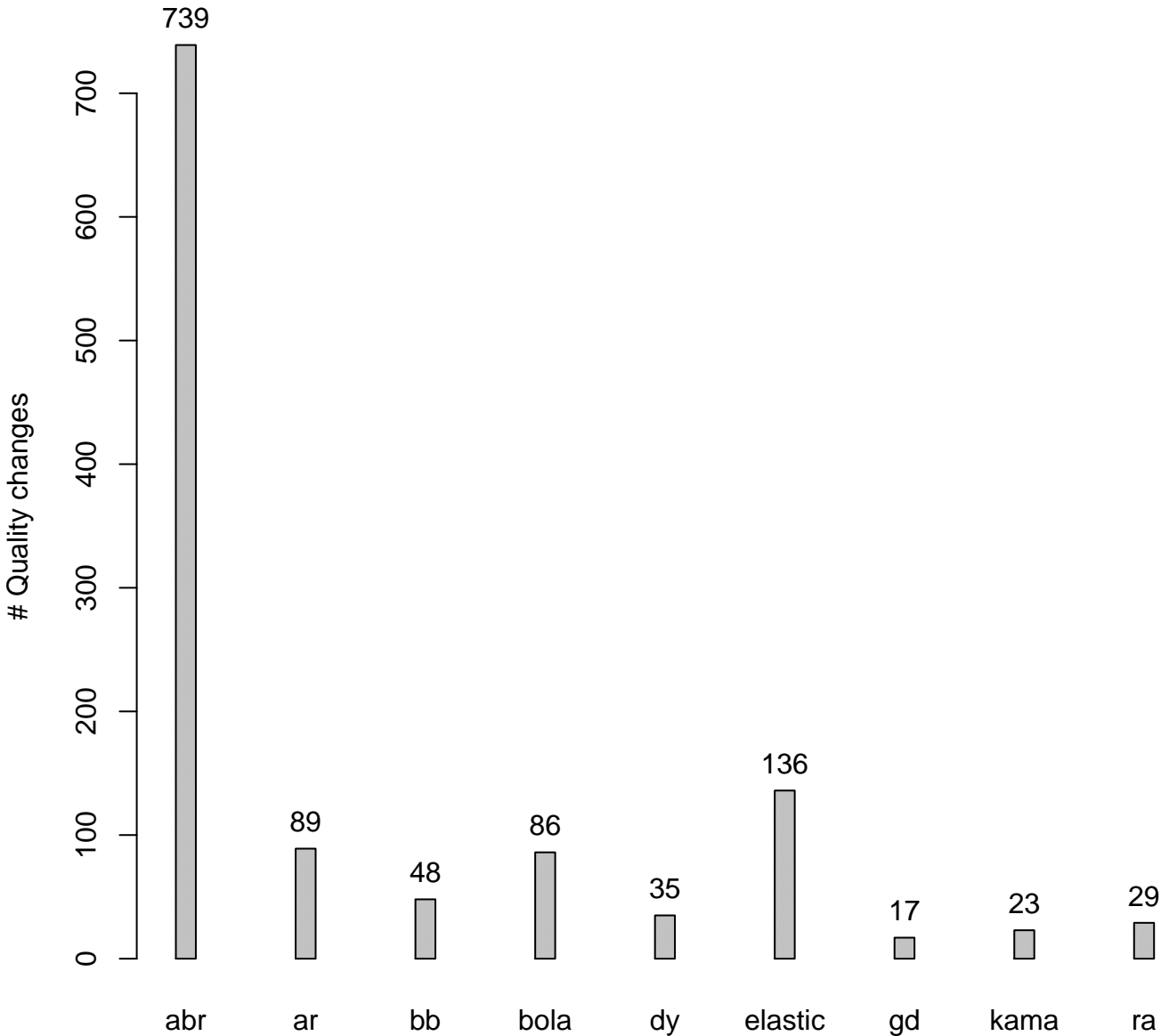**Buffer: 30/60 max: abr**

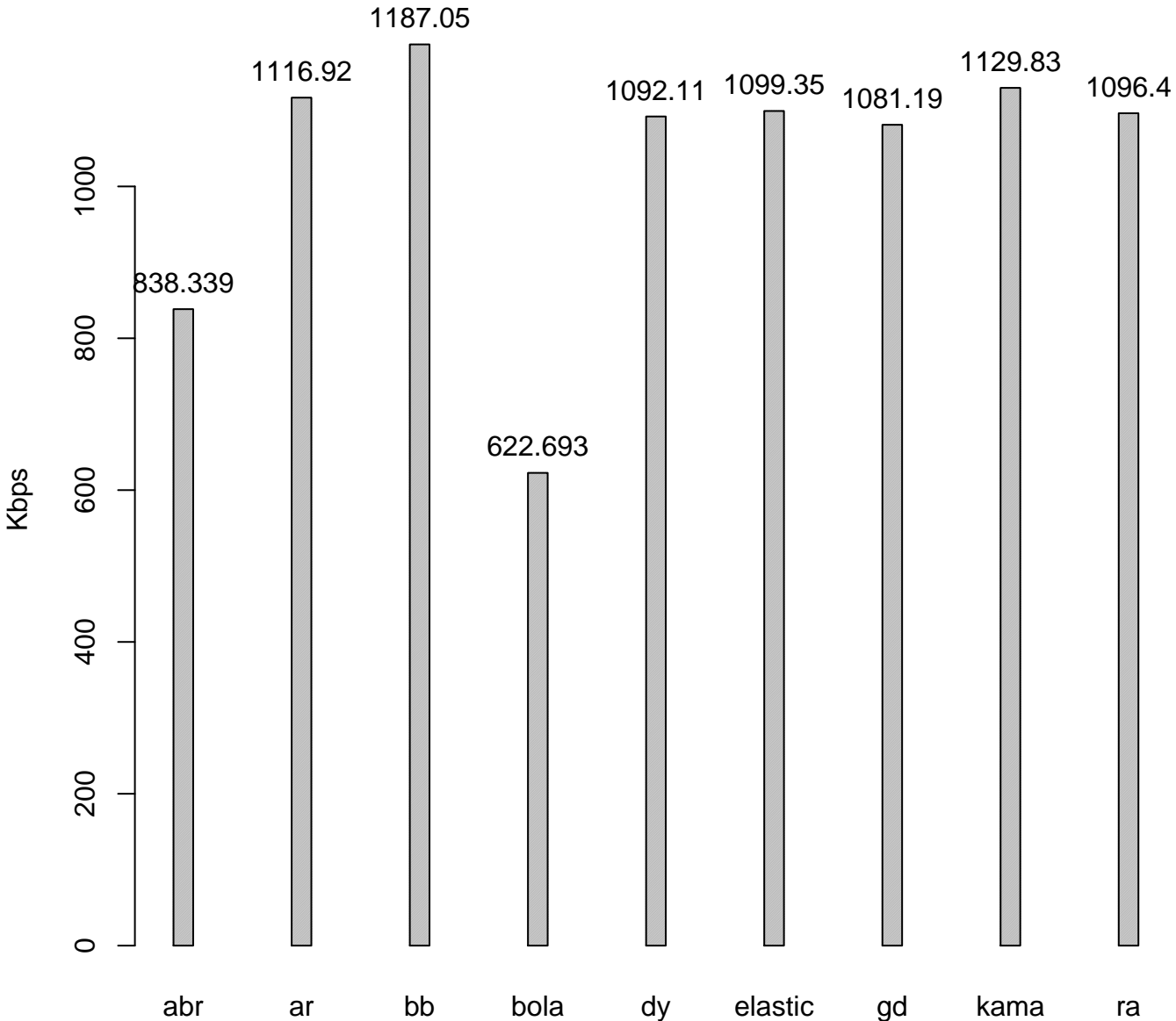**Network profile: p4 Sample: t6 Metric: Inefficiency**
Buffer: 30/60   min: gd

Network profile: p4 Sample: t6 Metric: # quality change
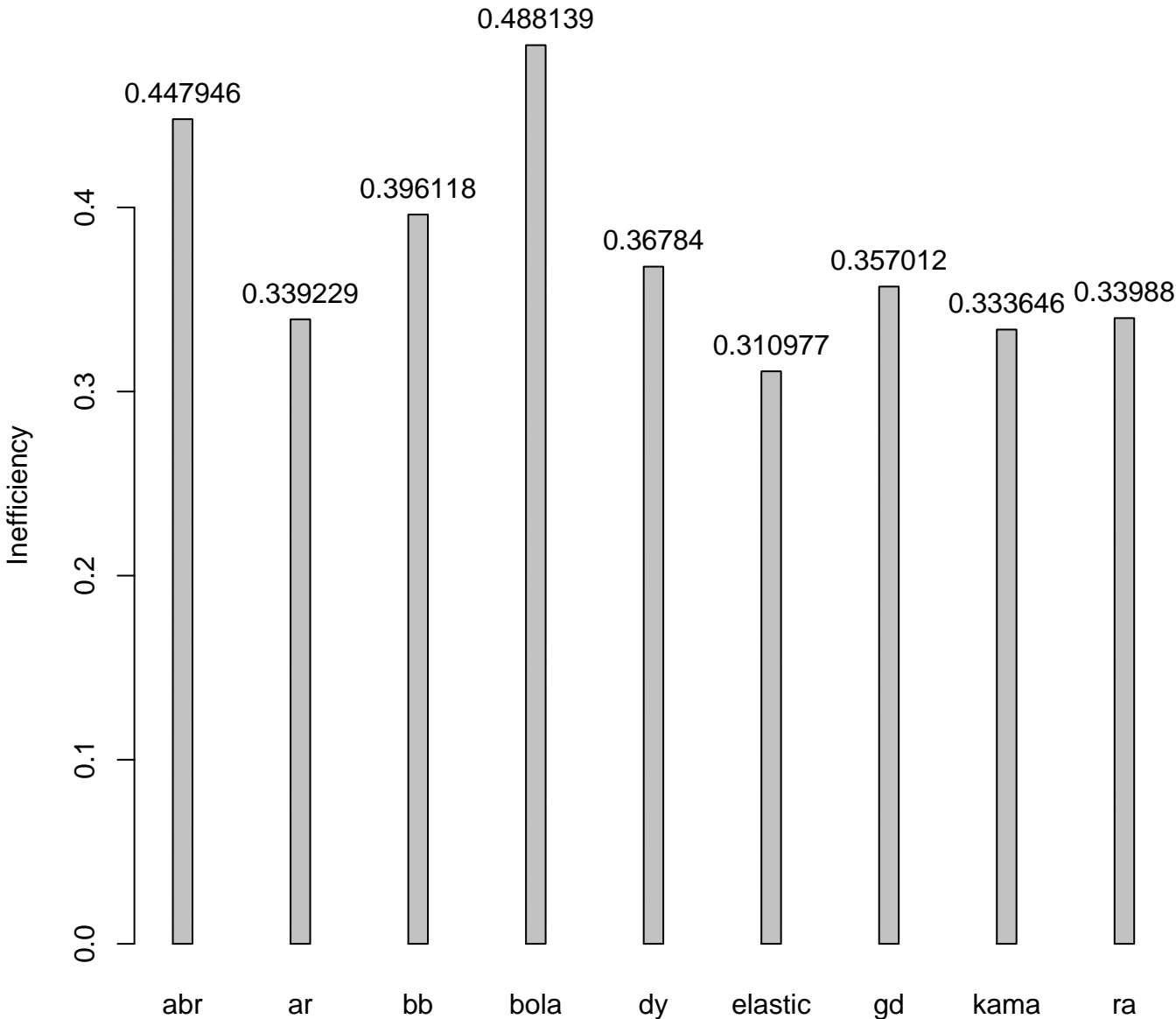**Buffer: 30/60 min: gd**

Network profile: p4 Sample: t7 Metric: Avg−Bitrate
Buffer: 30/60 max: bb

Network profile: p4 Sample: t7 Metric: Inefficiency
Buffer: 30/60   min: elastic

Network profile: p4 Sample: t7 Metric: # quality change
Buffer: 30/60   min: bola