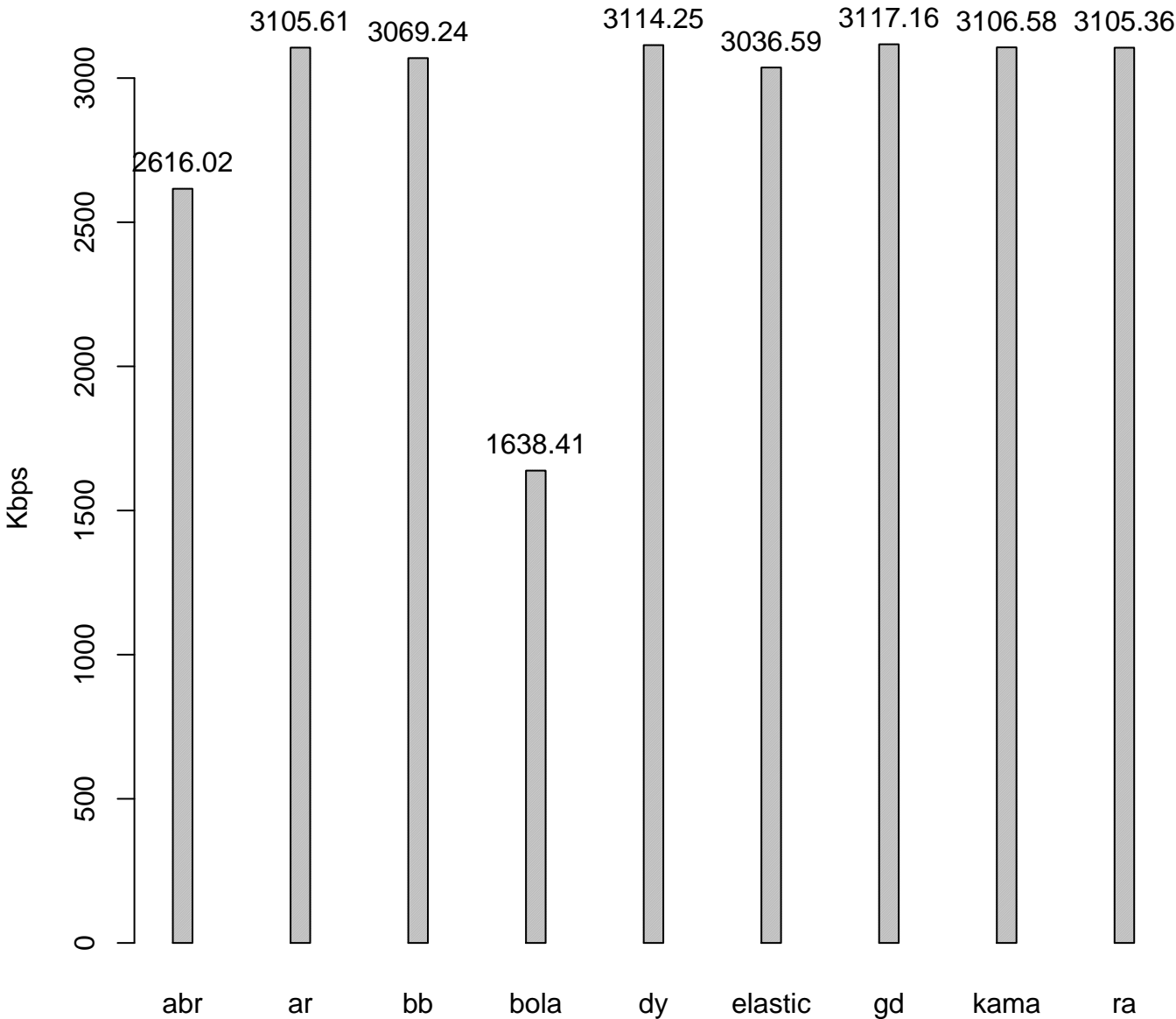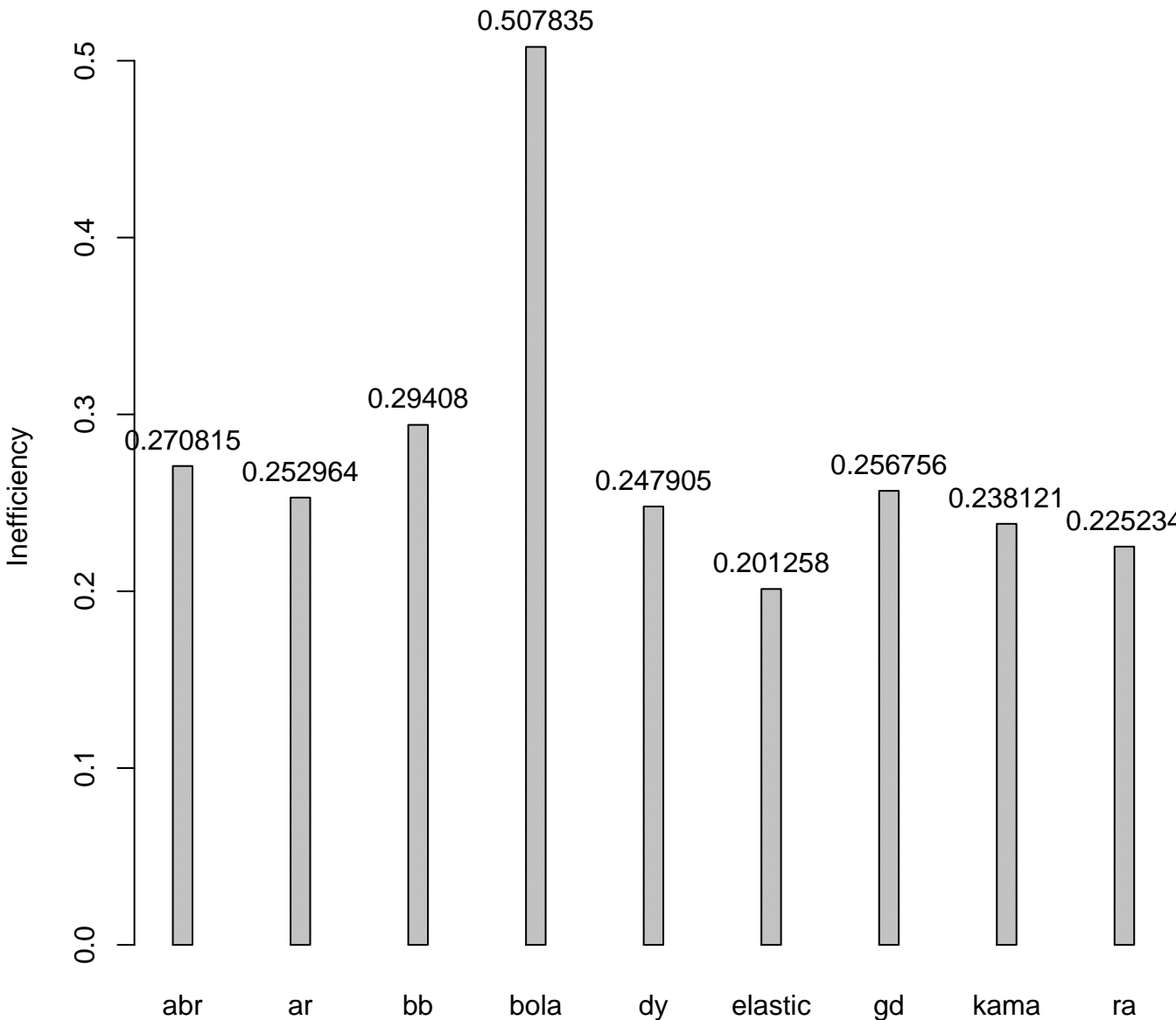**Network profile: p1 Sample: t1 Metric: Avg−Bitrate**
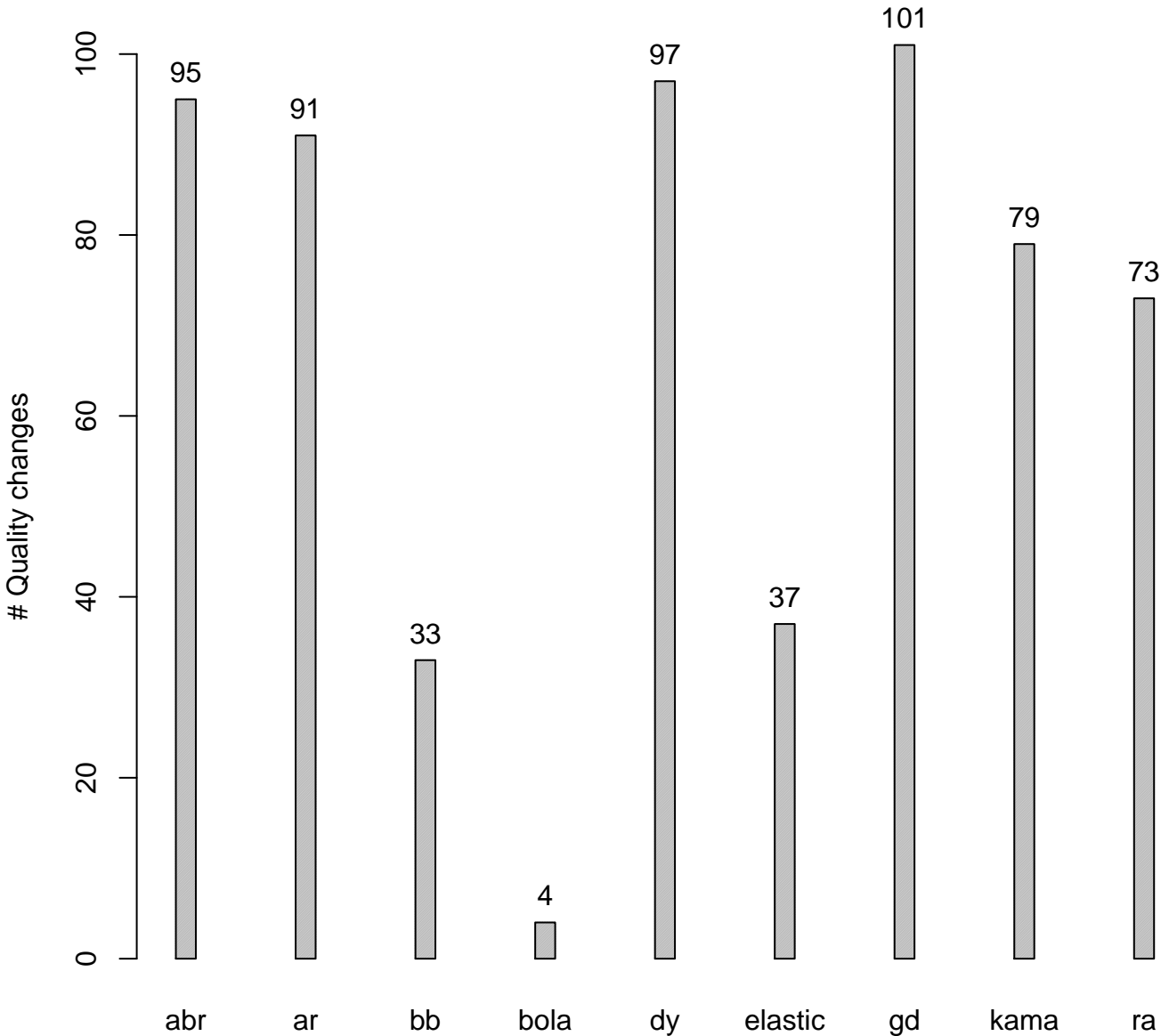**Buffer: 30/60   max: gd**

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: kama

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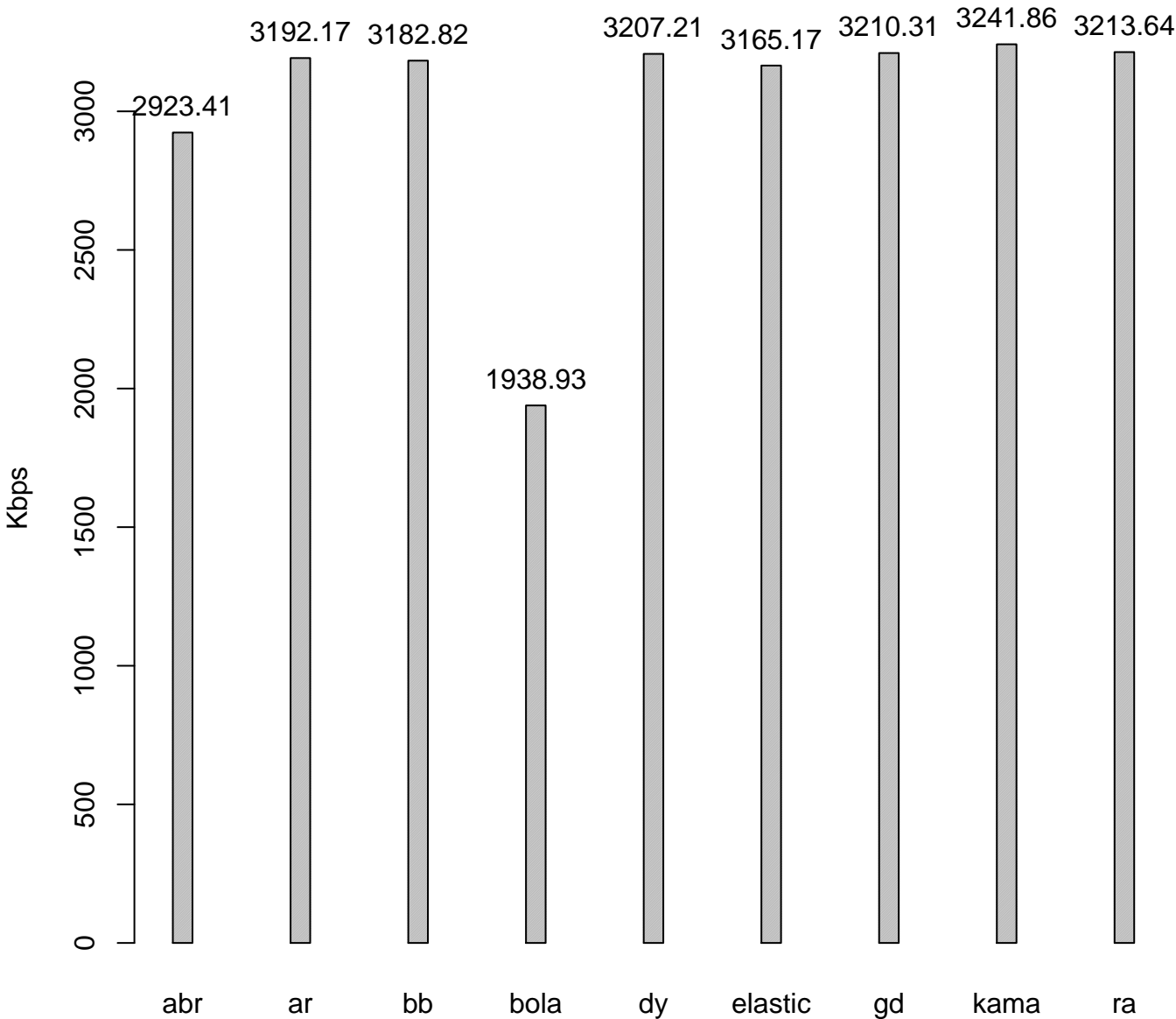**Buffer: 30/60   min: kama**

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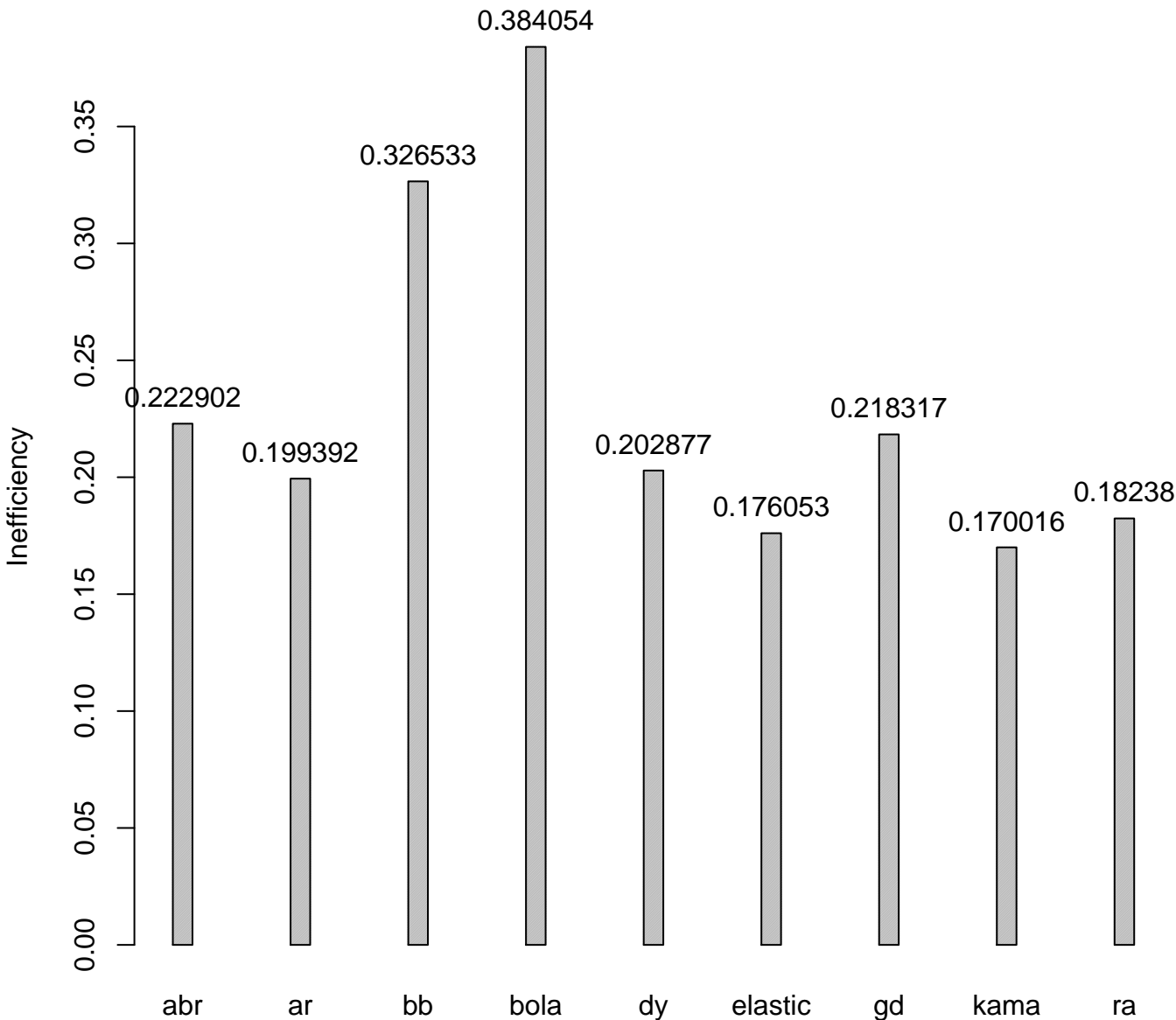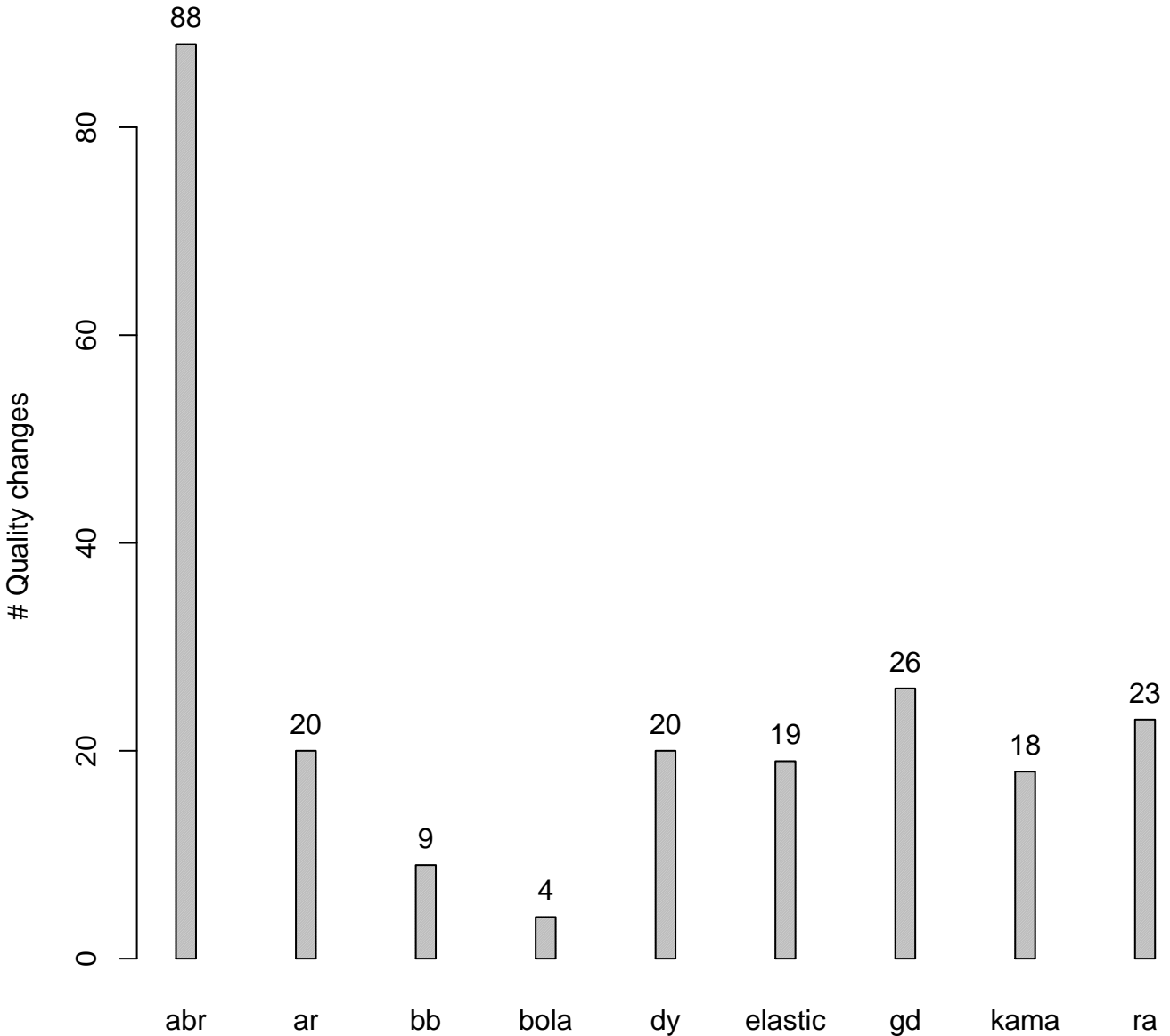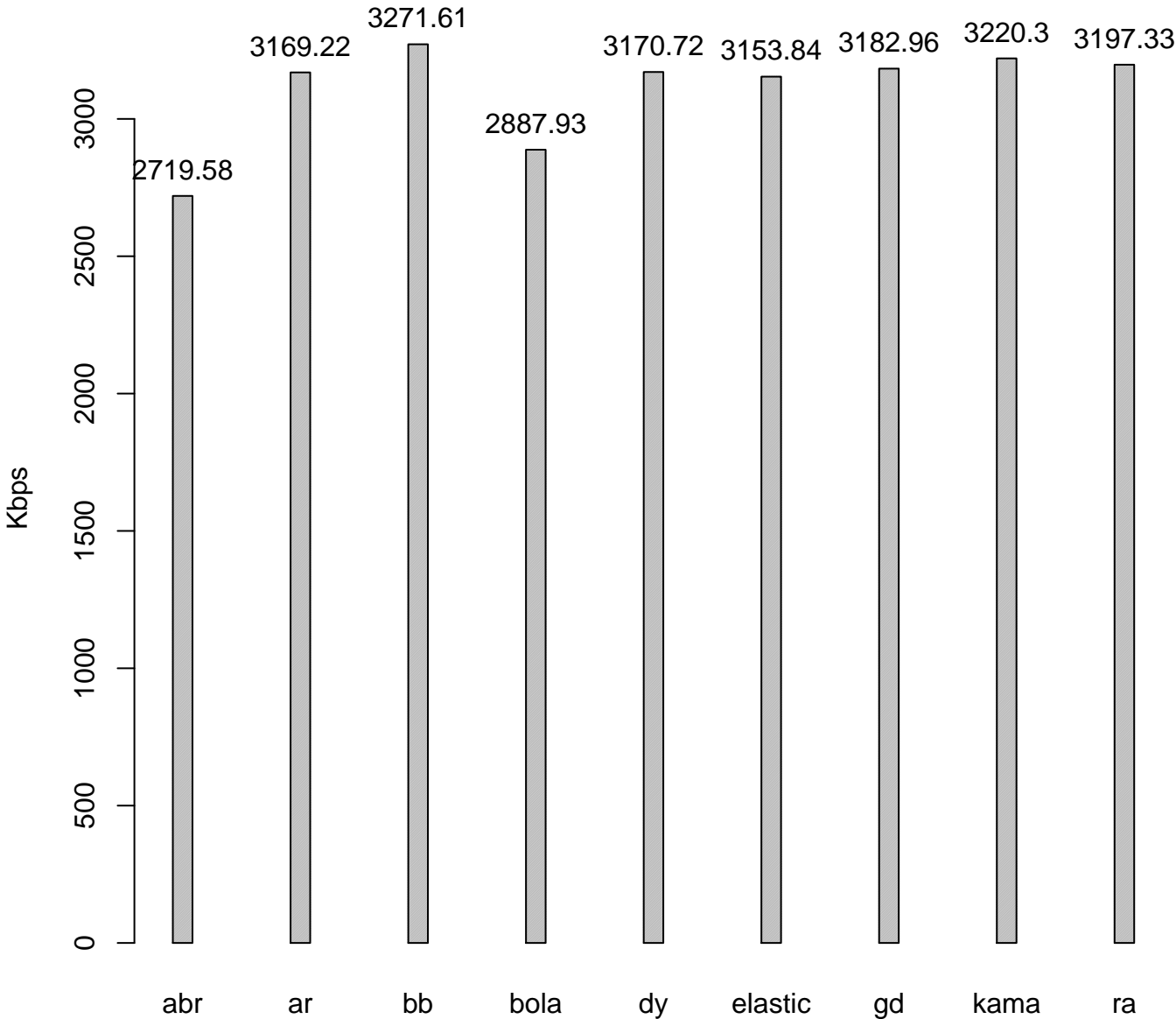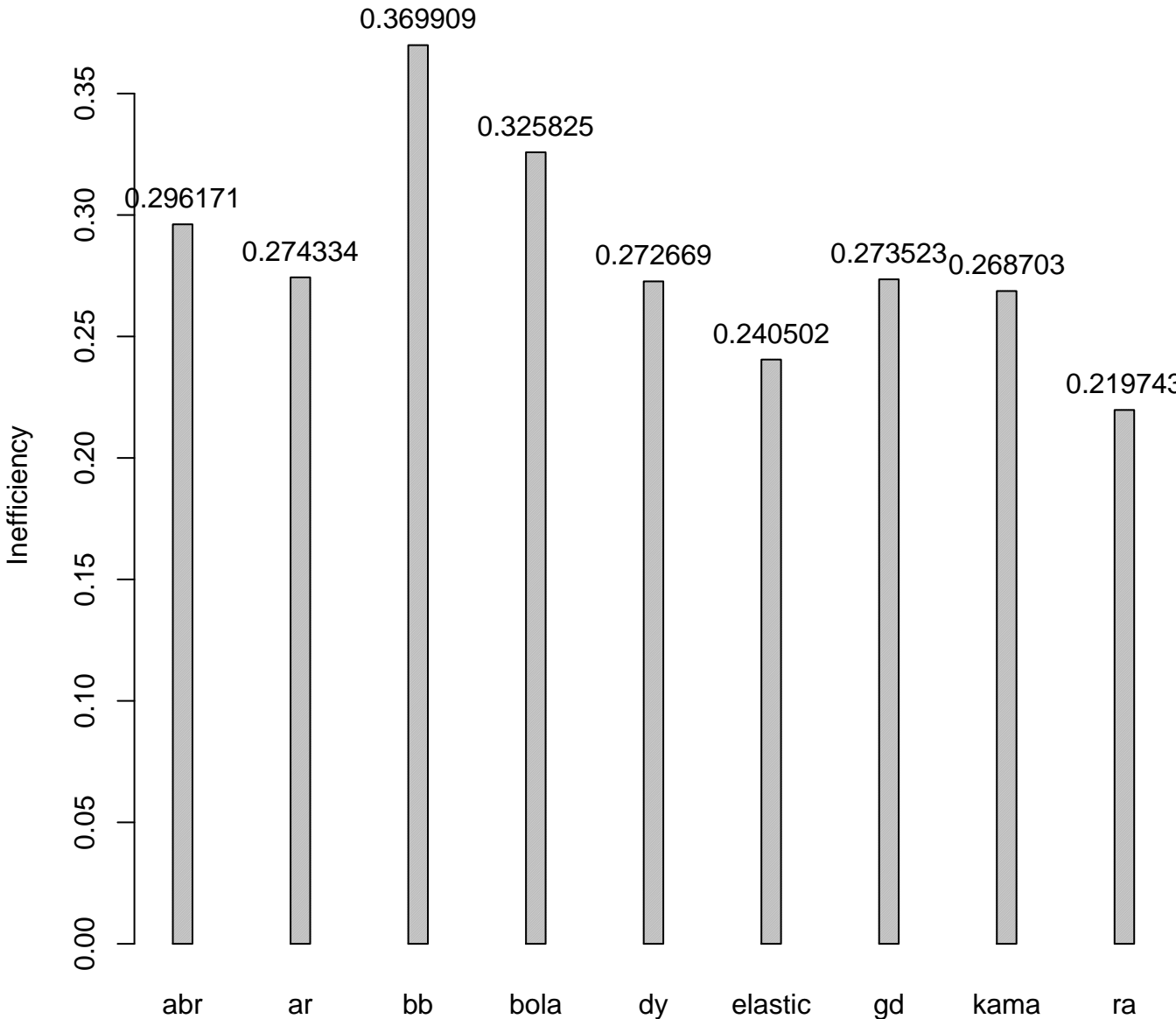Buffer: 30/60   min: bola**

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

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

Kbps

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

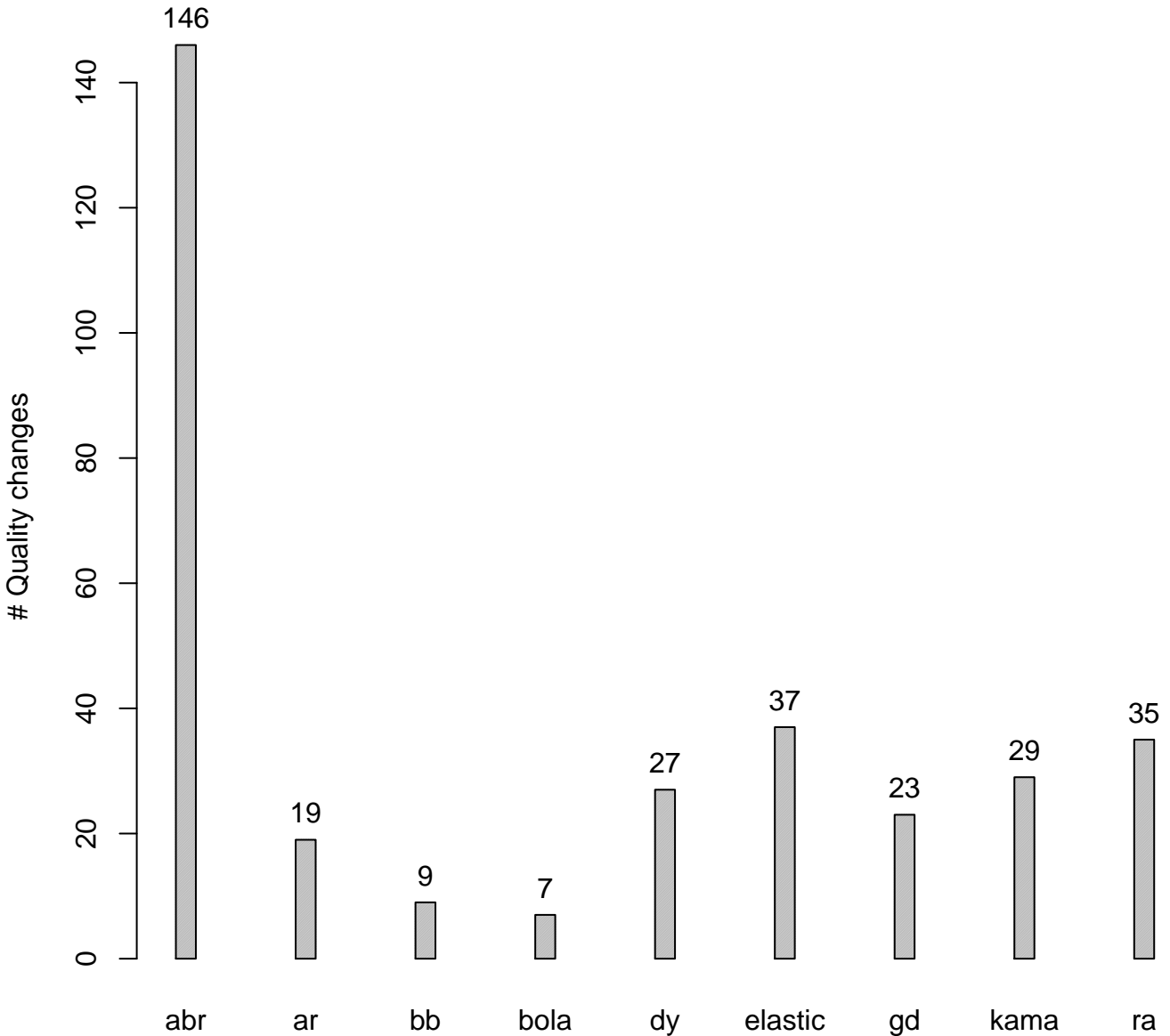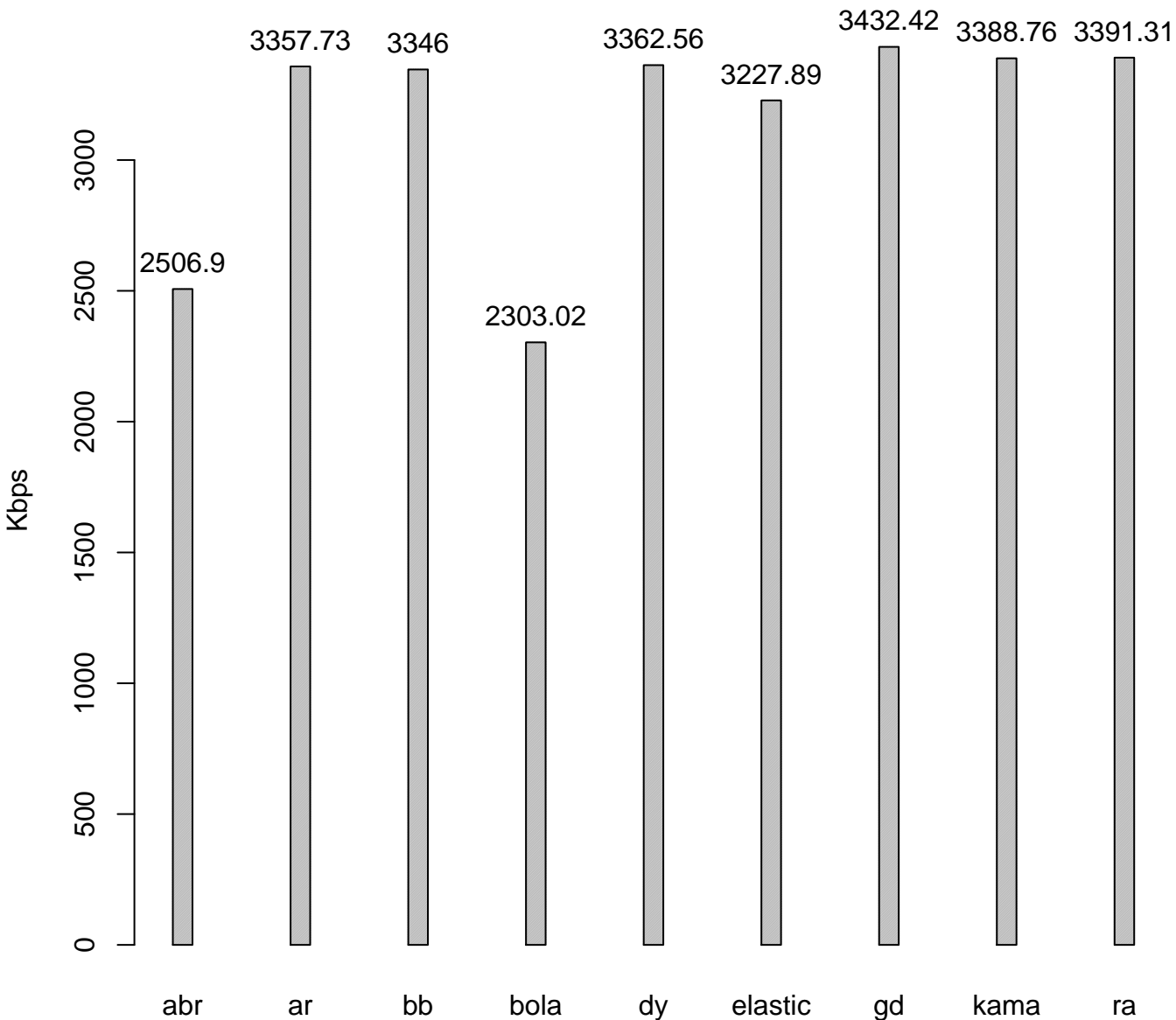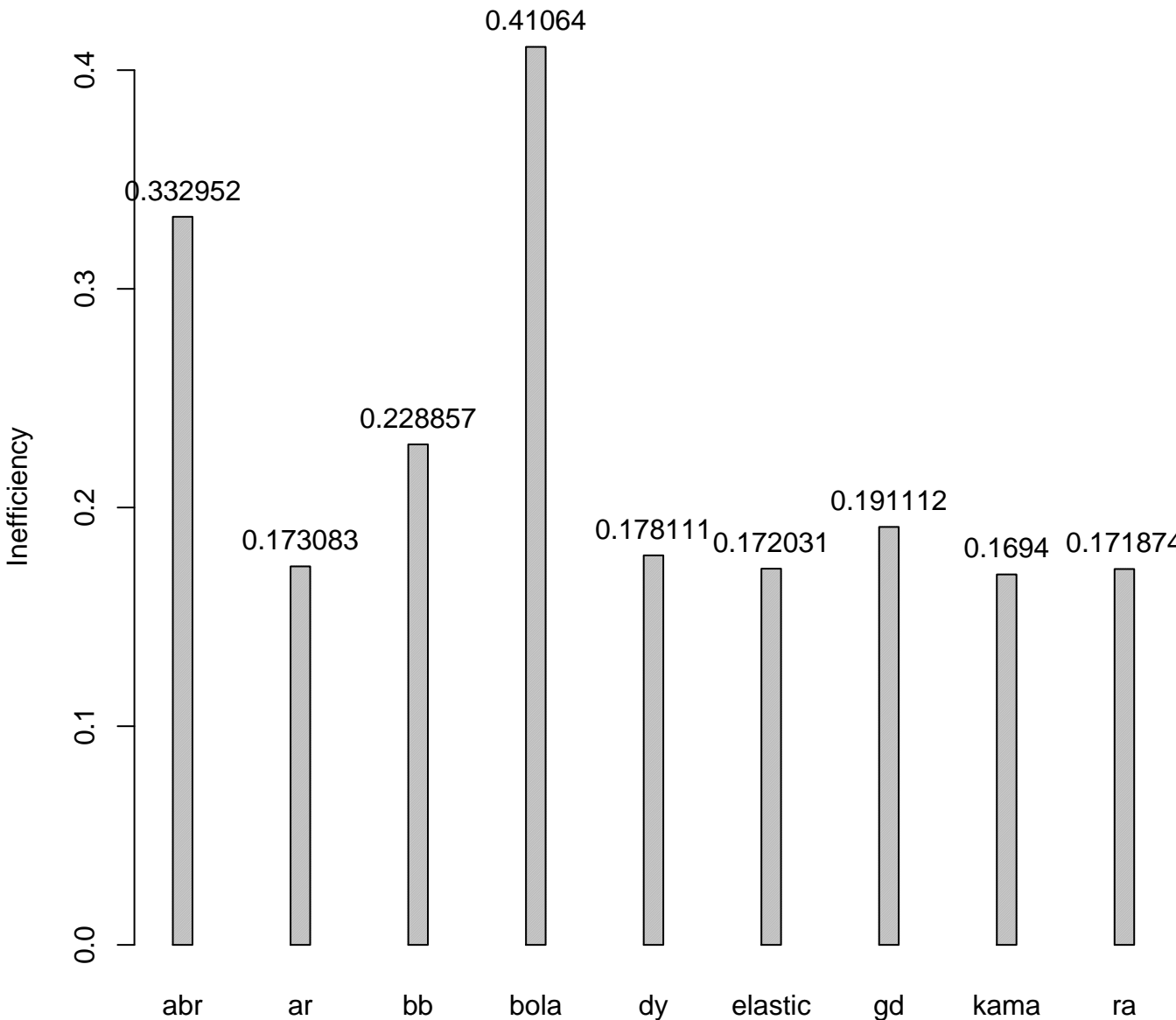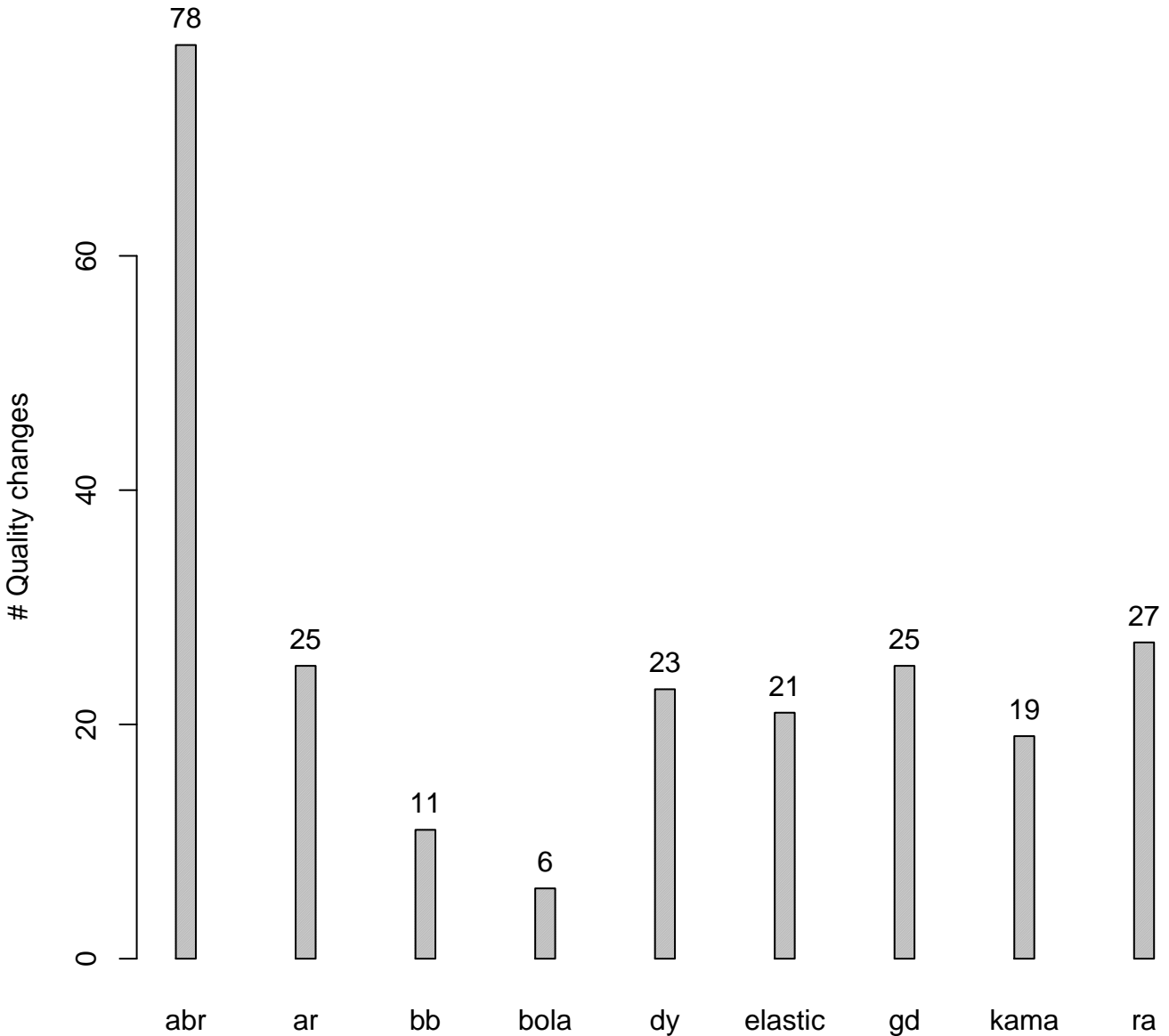**Network profile: p1 Sample: t5 Metric: Avg−Bitrate**
Buffer: 30/60   max: ra

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

Inefficiency

0.426284   0.361471   0.509916   0.368147 0.369837   0.380584   0.363898   0.3471   0.375565

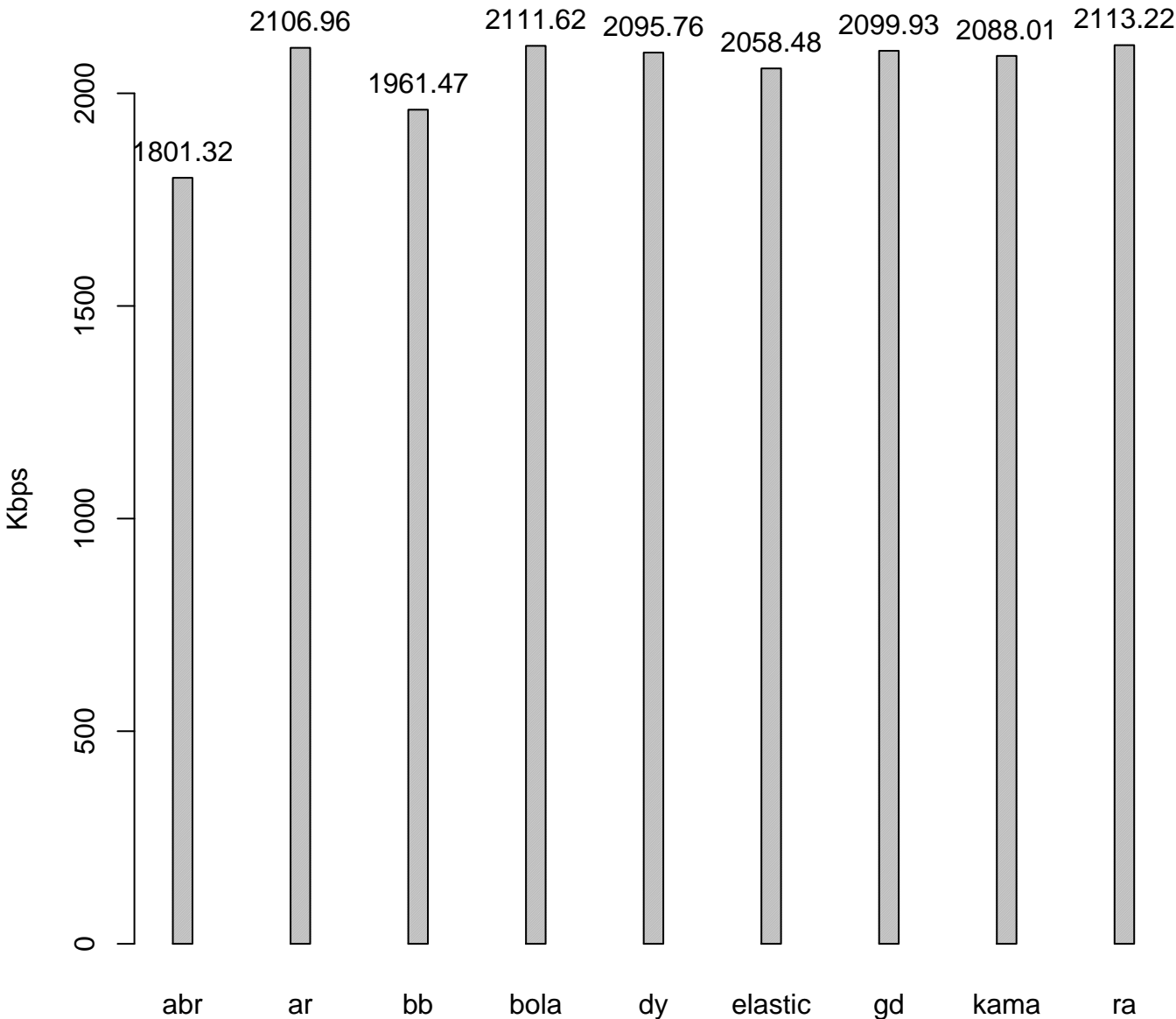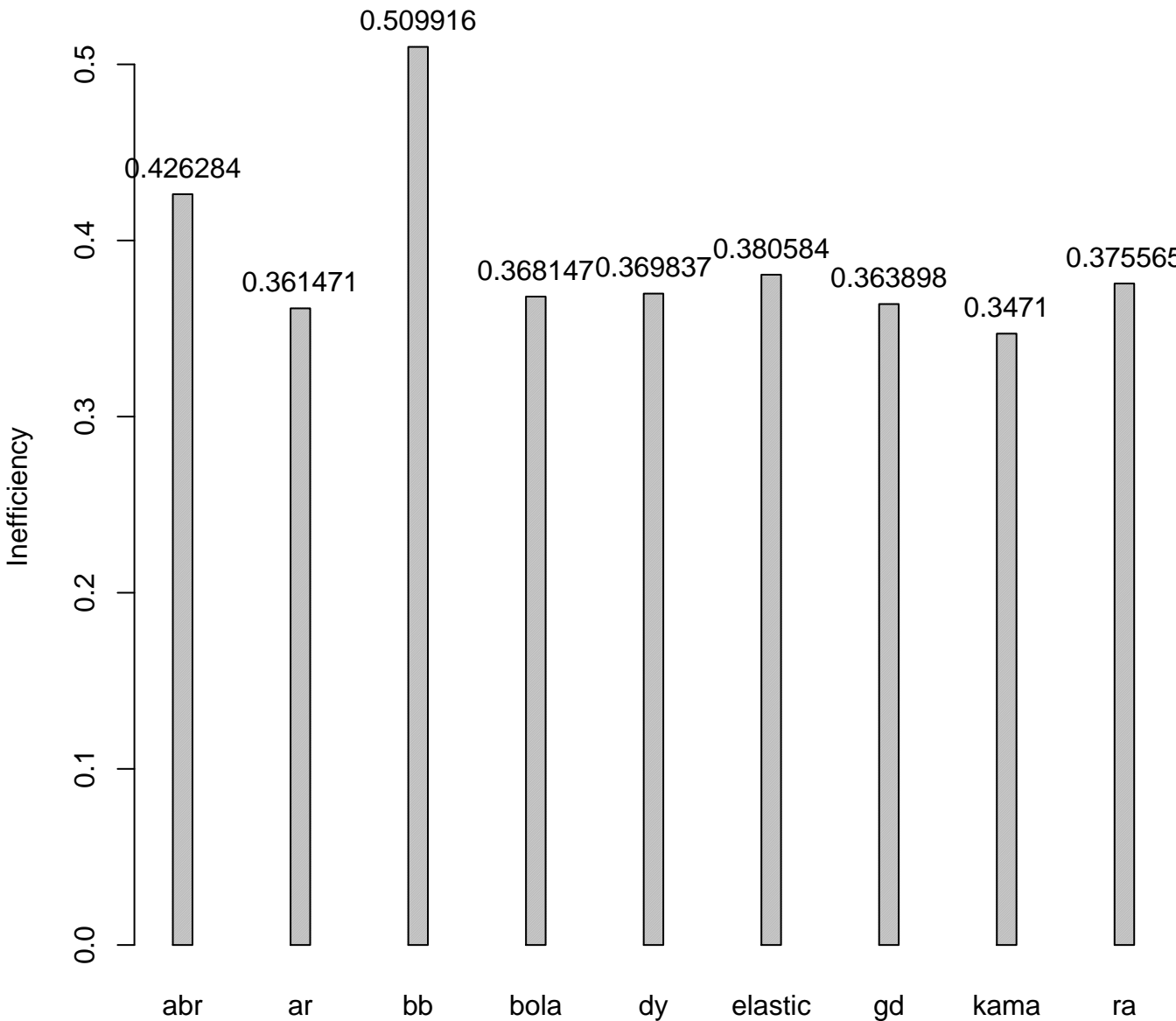abr   ar   bb   bola   dy   elastic   gd   kama   ra

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

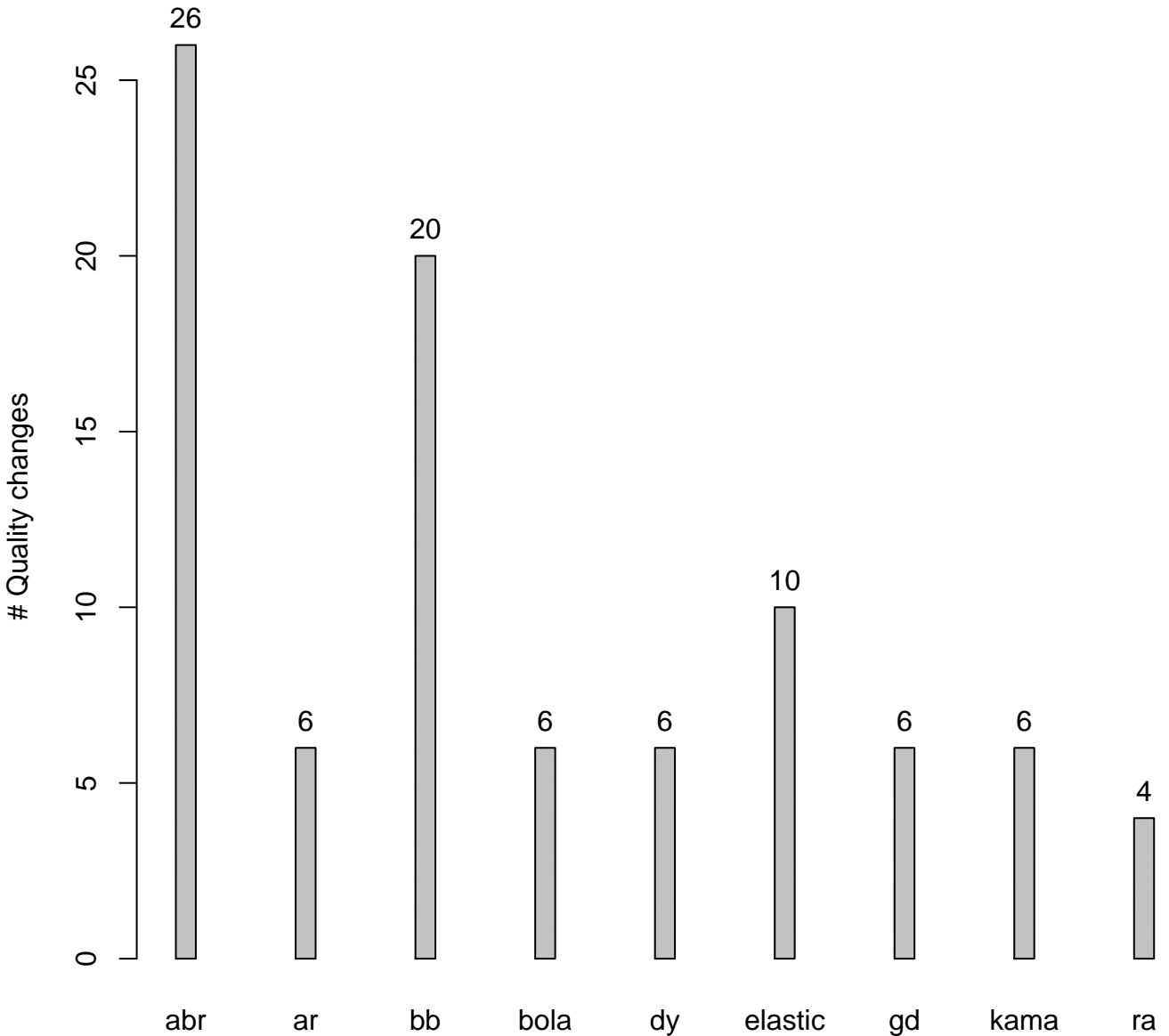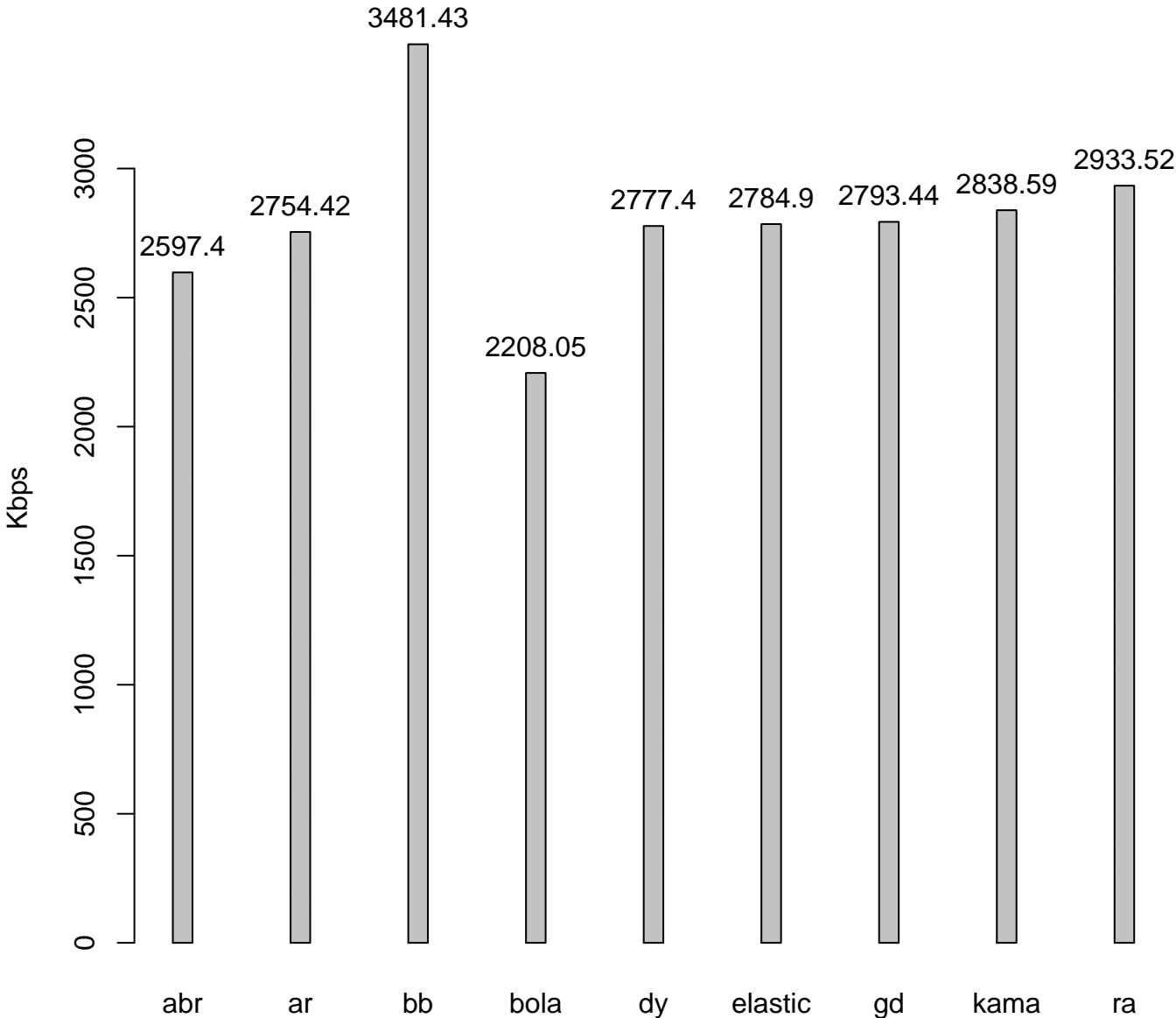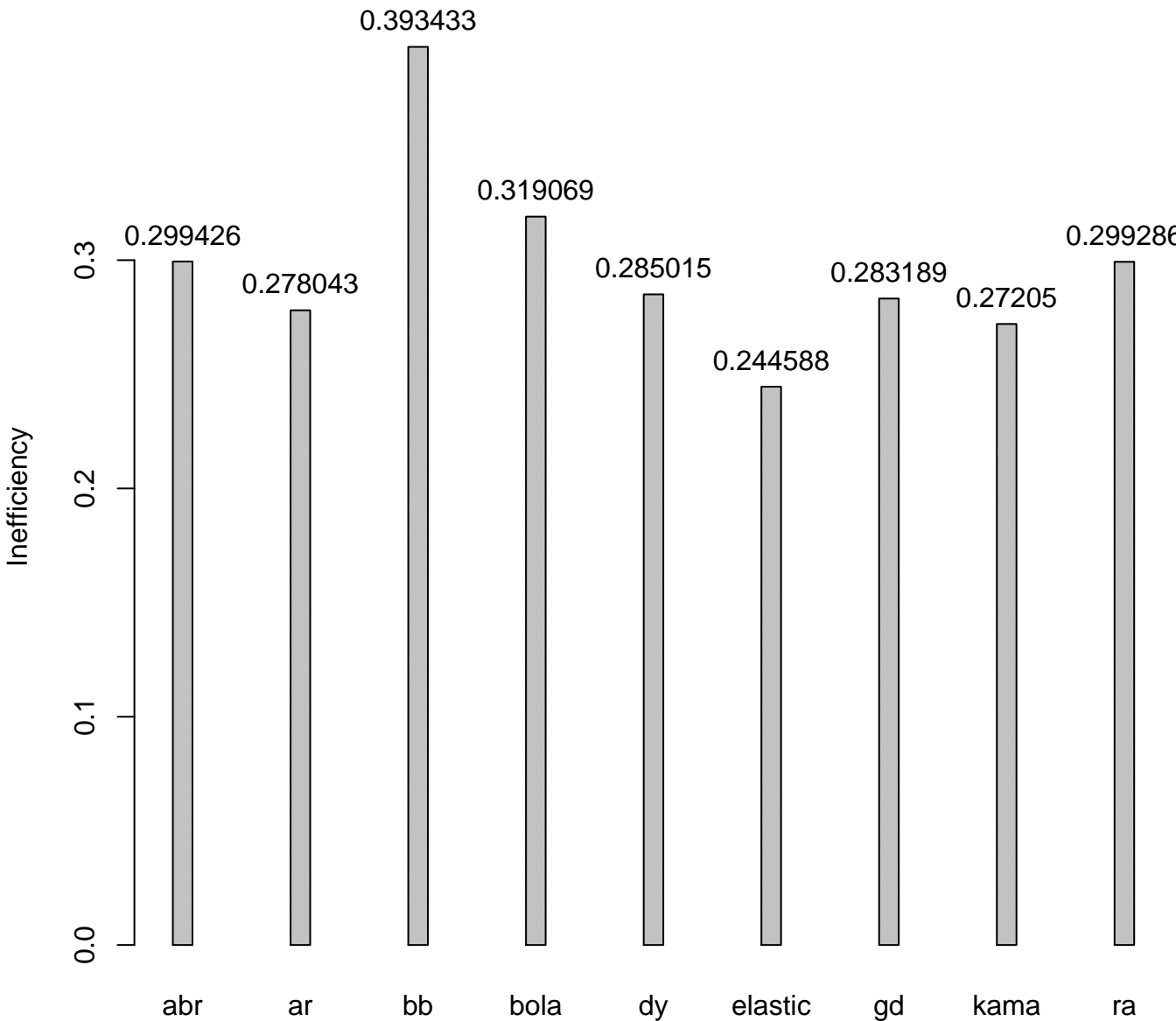**Network profile: p1 Sample: t6 Metric: Avg−Bitrate**
Buffer: 30/60   max: bb

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

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

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

Kbps

2580.9 2675.32 2612.64 2635.24 2703.58 2662.98 2674.59 2658.84 2679.03

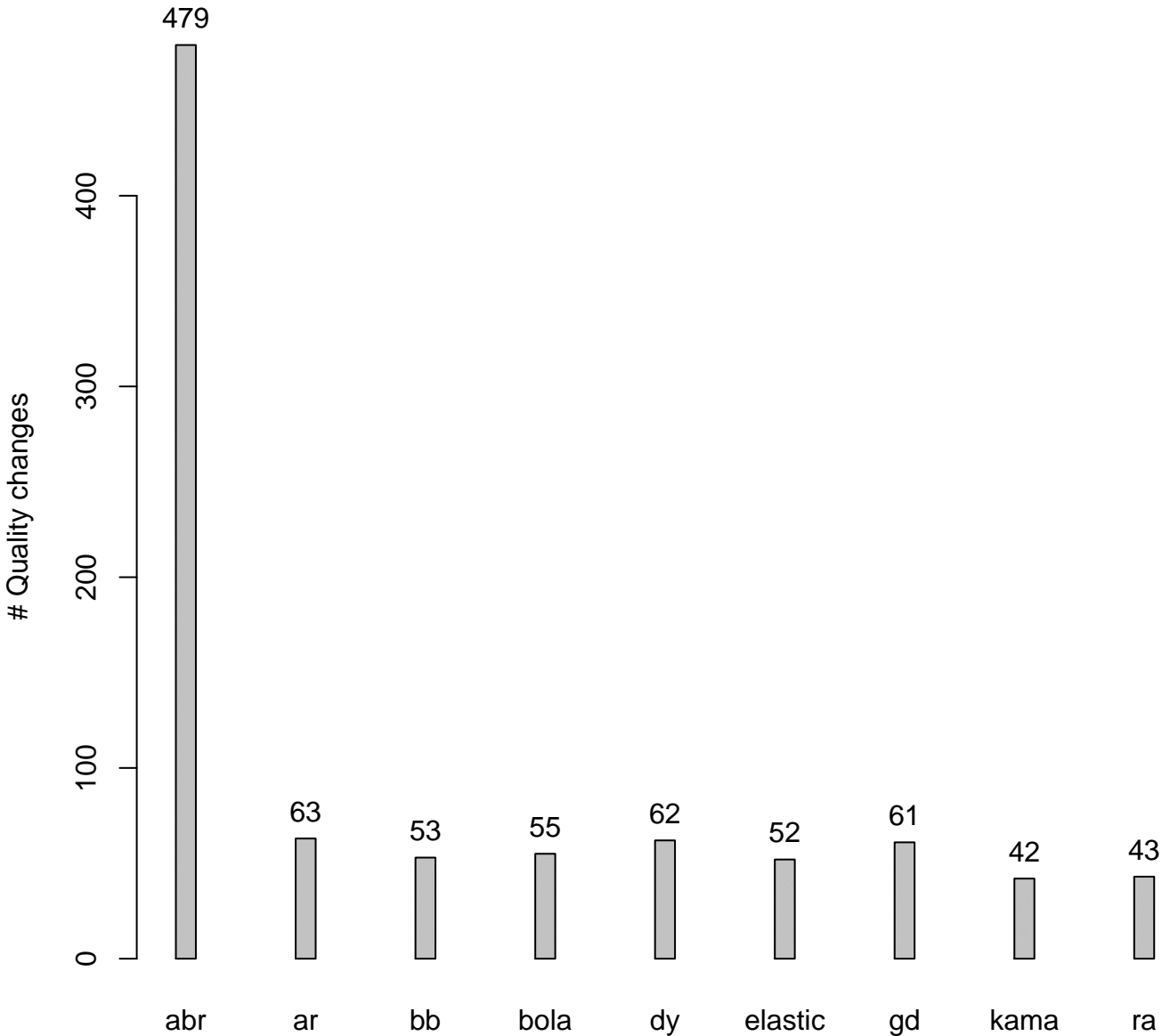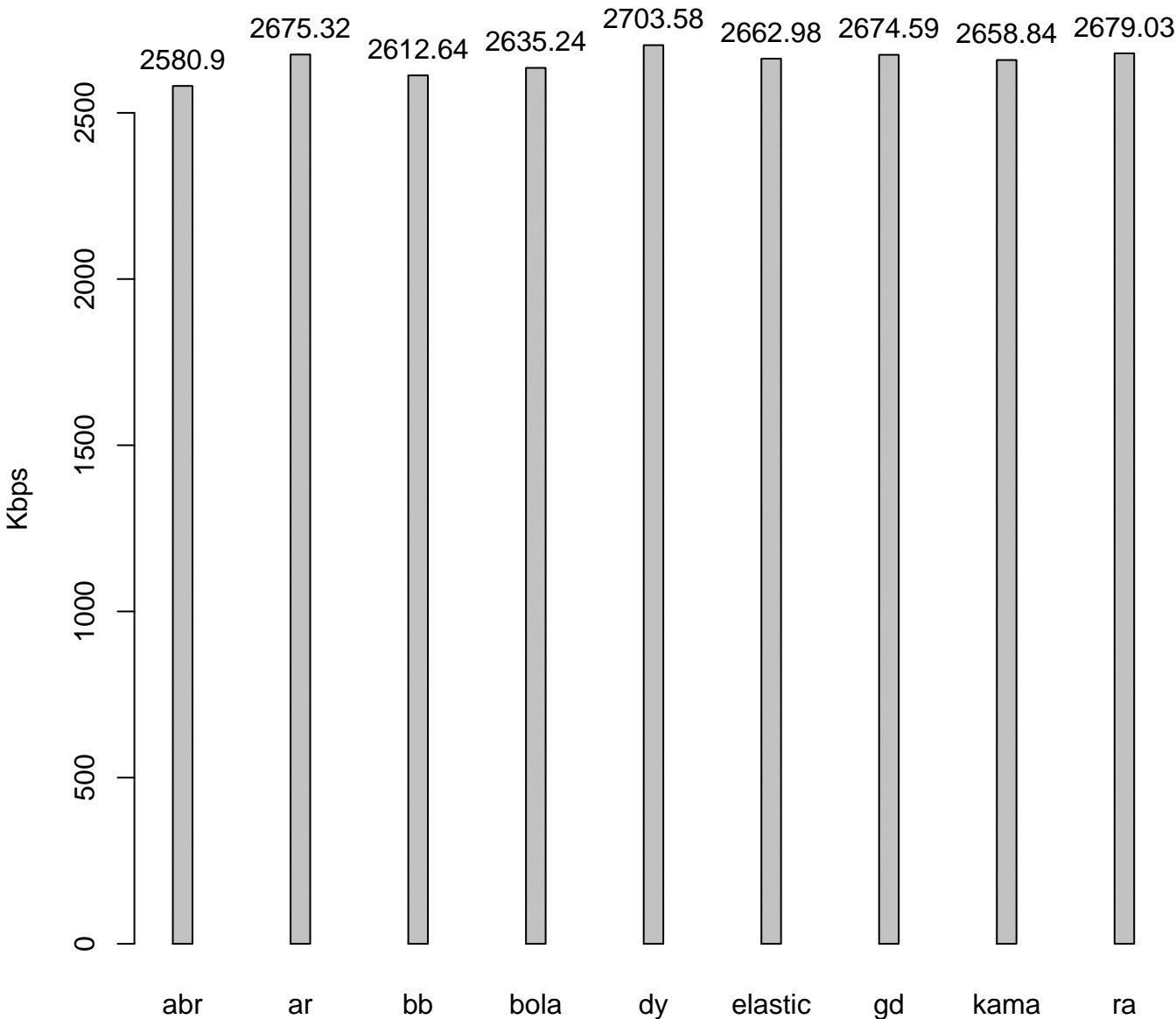abr ar bb bola dy elastic gd kama ra

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

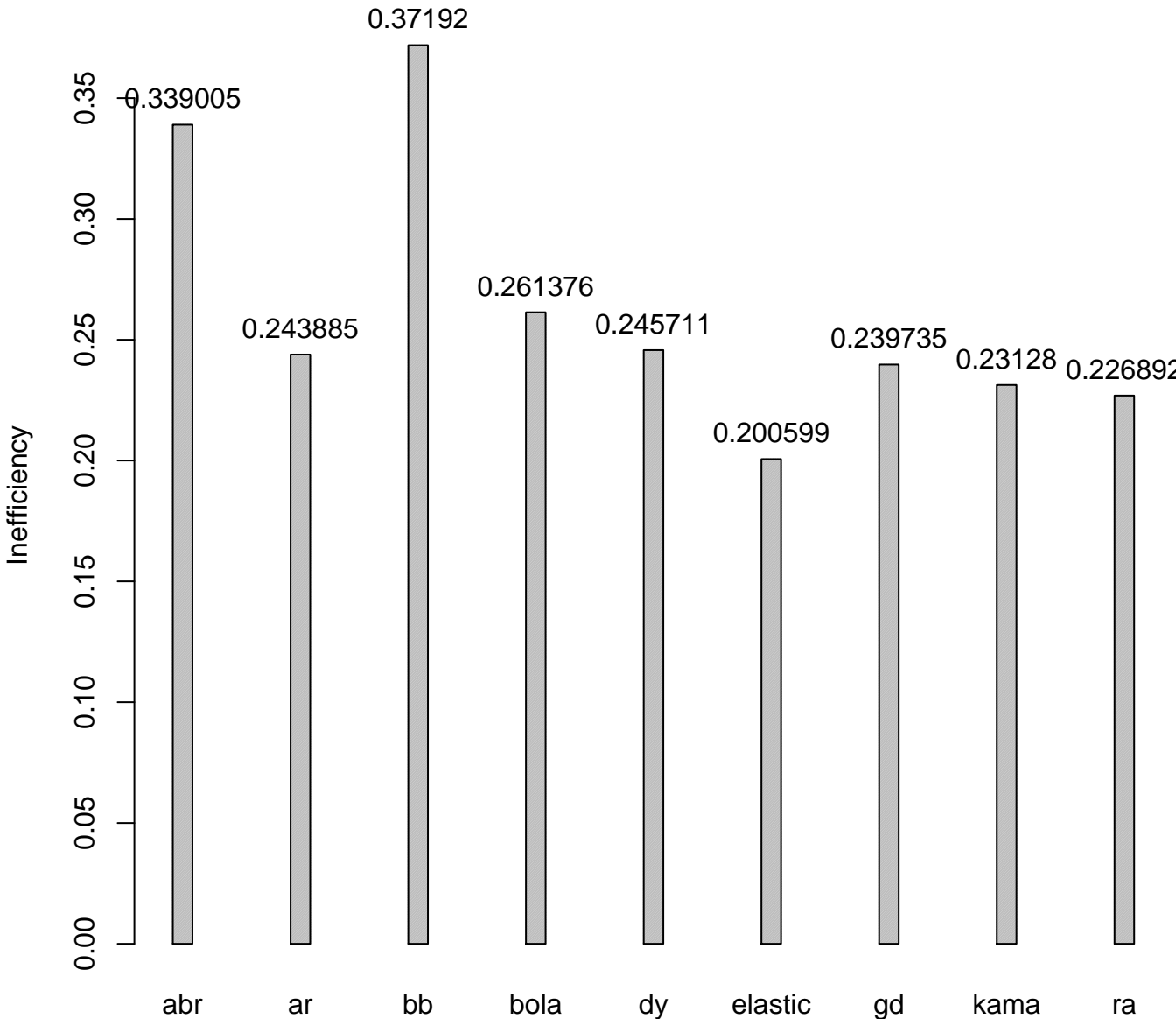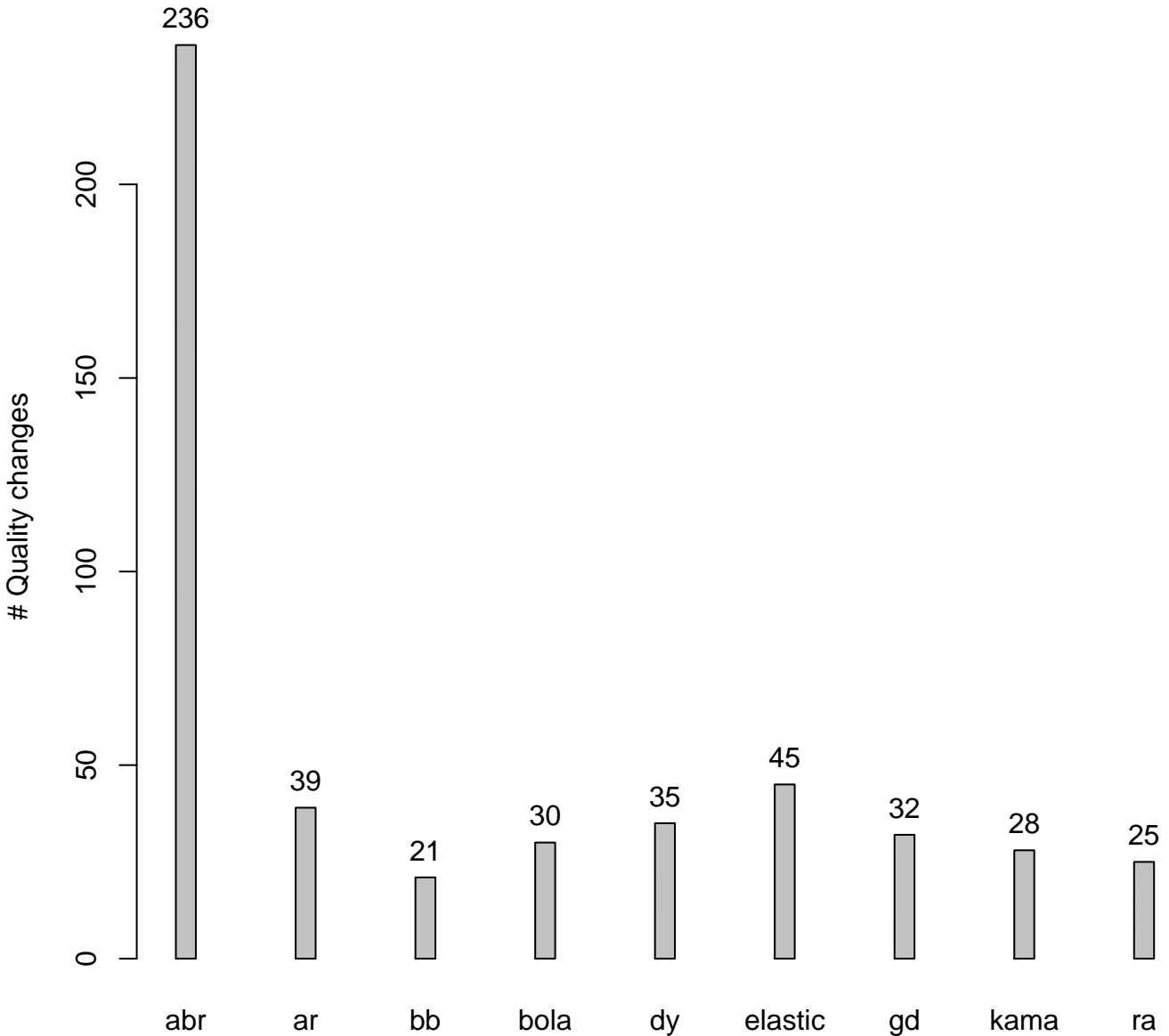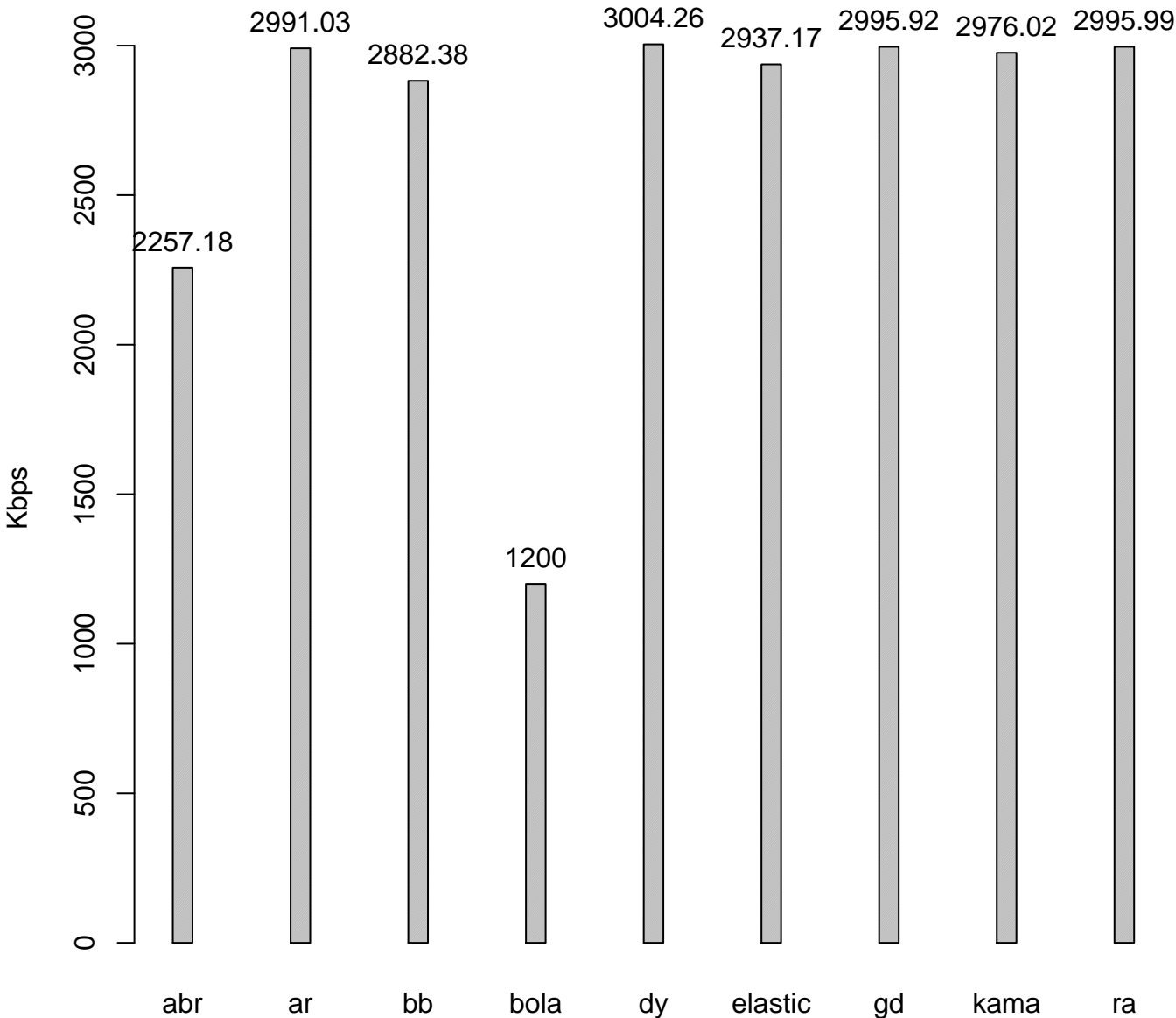**Network profile: p1 Sample: t7 Metric: # quality change**
Buffer: 30/60   min: bb

Quality changes

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

Kbps

abr	ar	bb	bola	dy	elastic	gd	kama	ra
2257.18	2991.03	2882.38	1200	3004.26	2937.17	2995.92	2976.02	2995.99

Network profile: p2 Sample: t1 Metric: Inefficiency
Buffer: 30/60   min: elastic

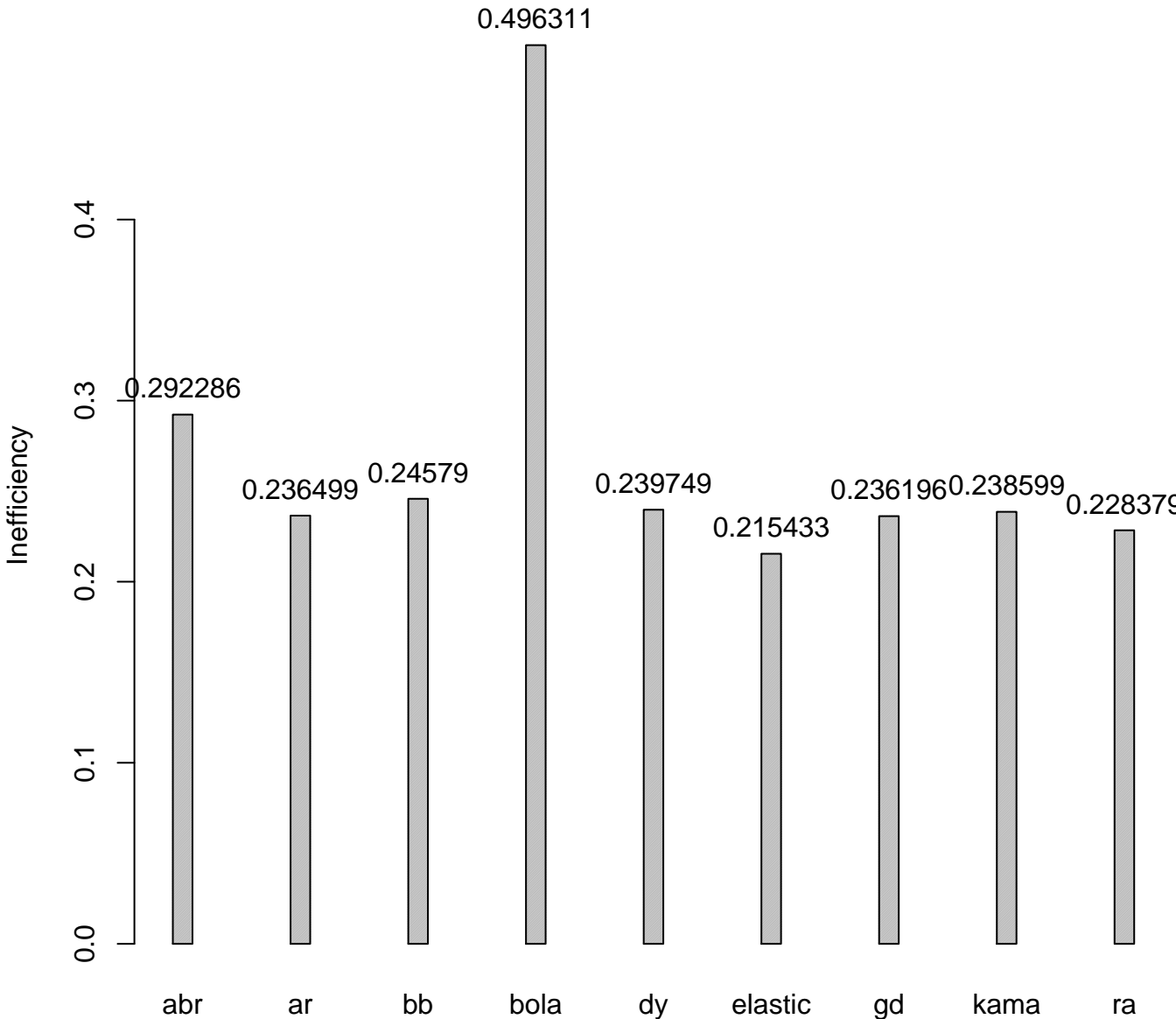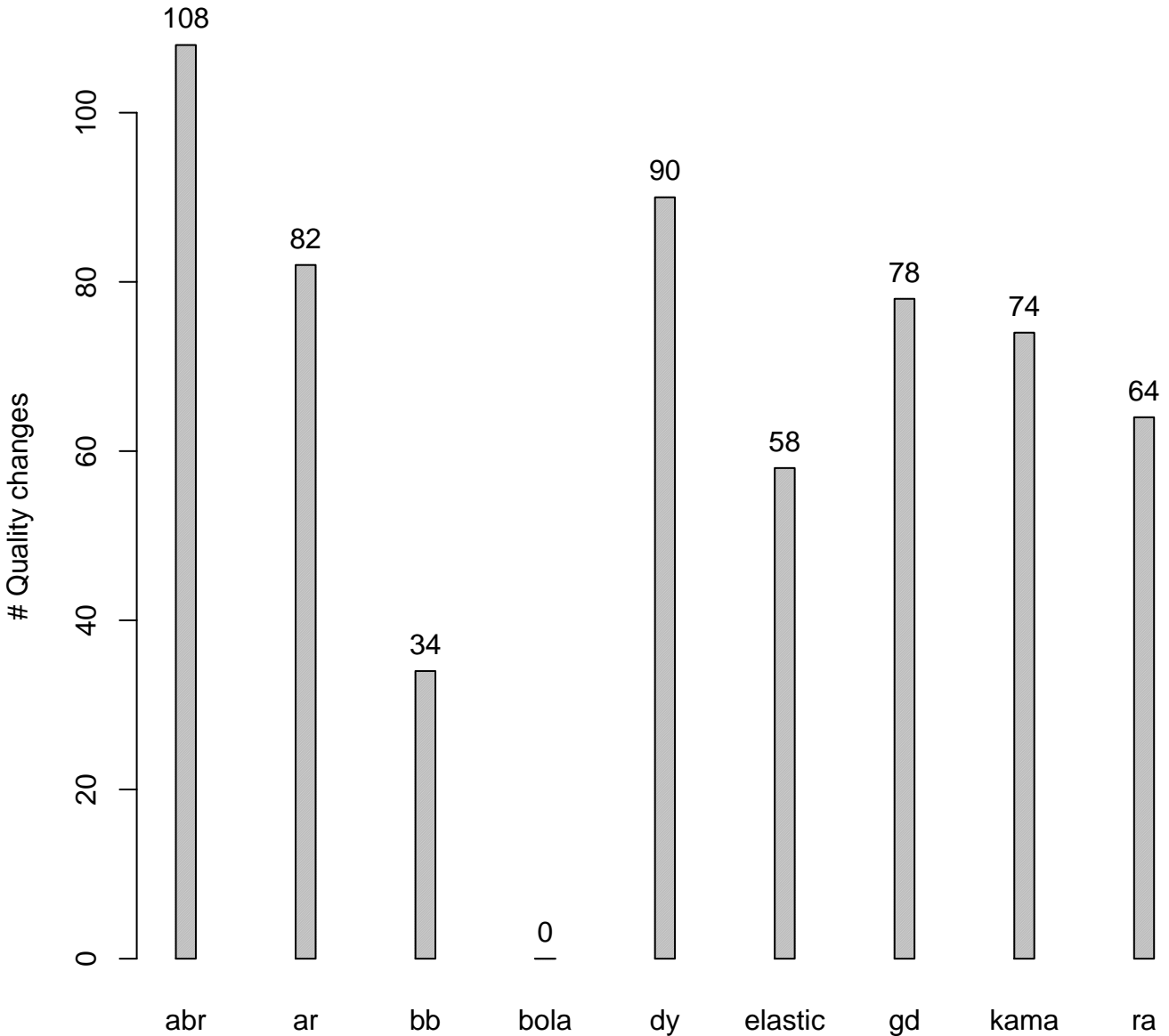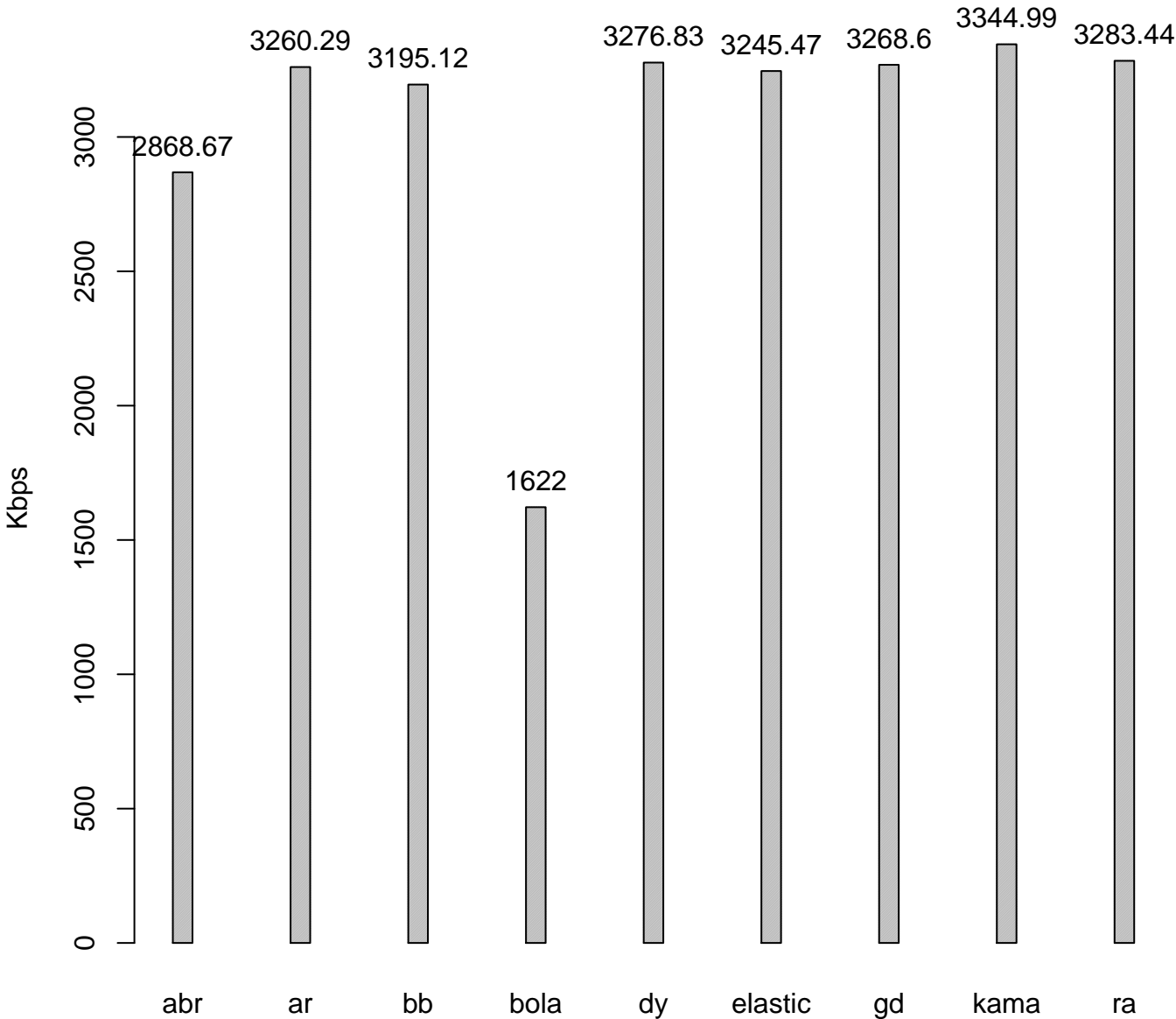**Network profile: p2 Sample: t1 Metric: # quality change**
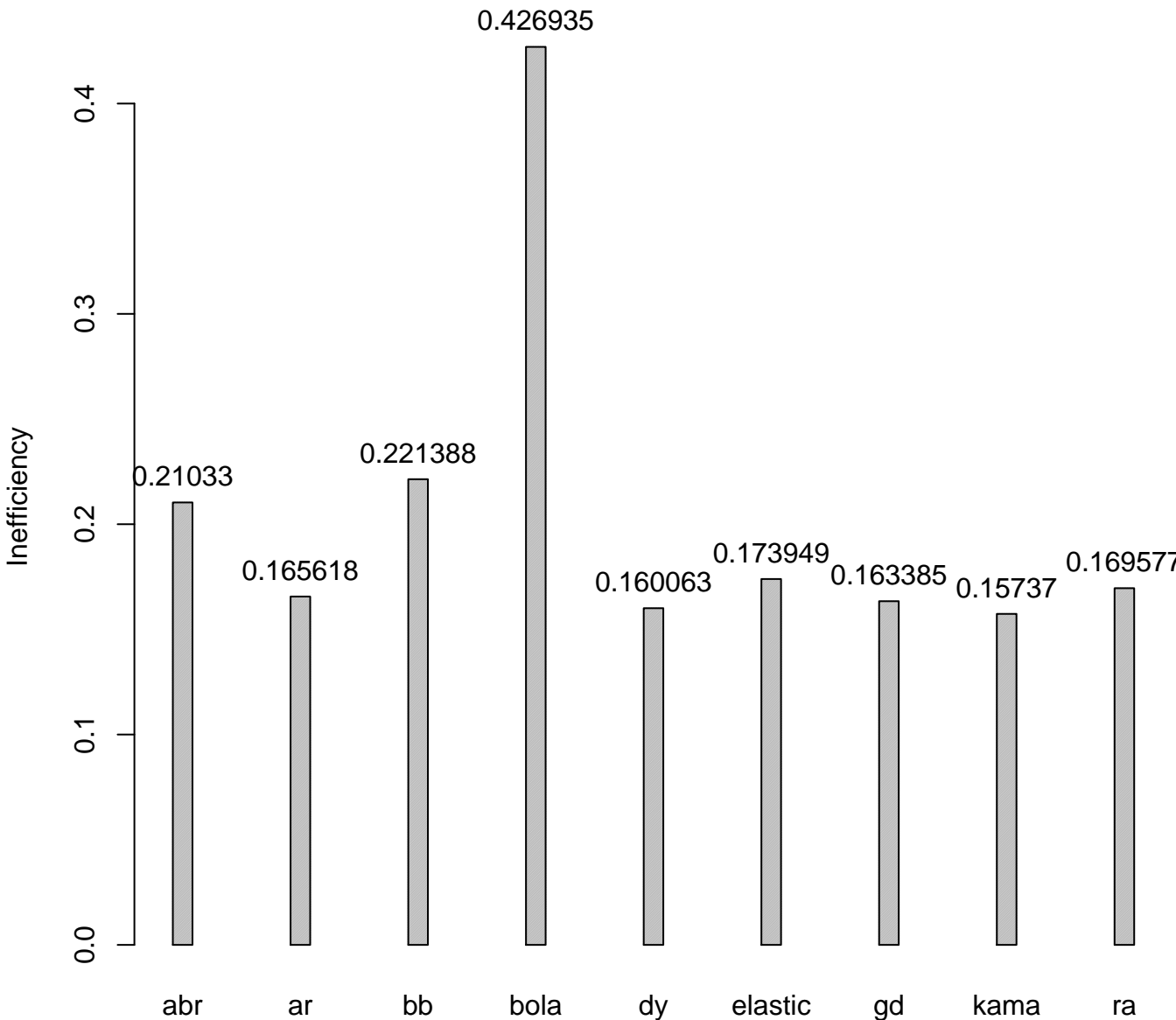**Buffer: 30/60   min: bola**

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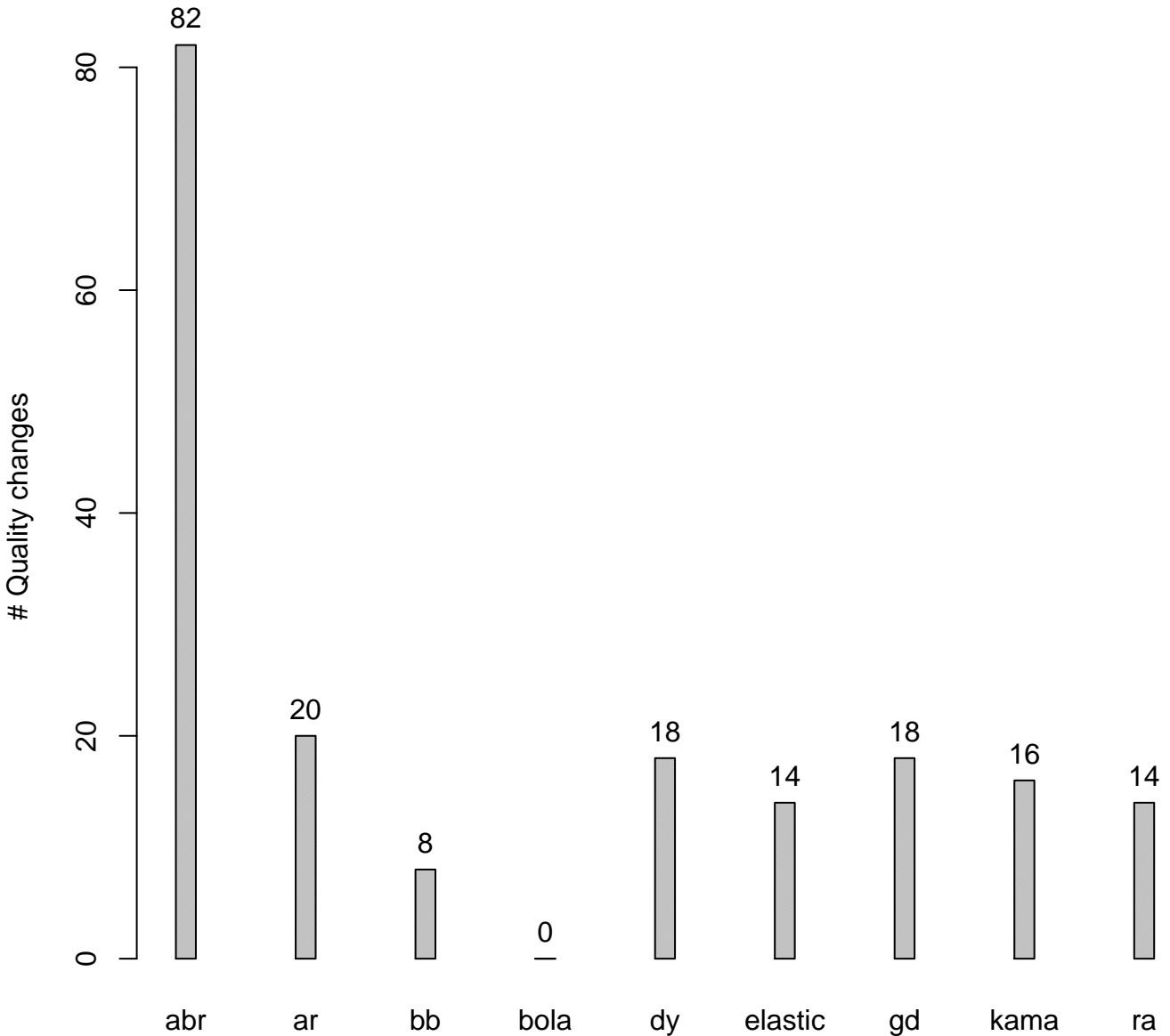**Buffer: 30/60   max: kama**

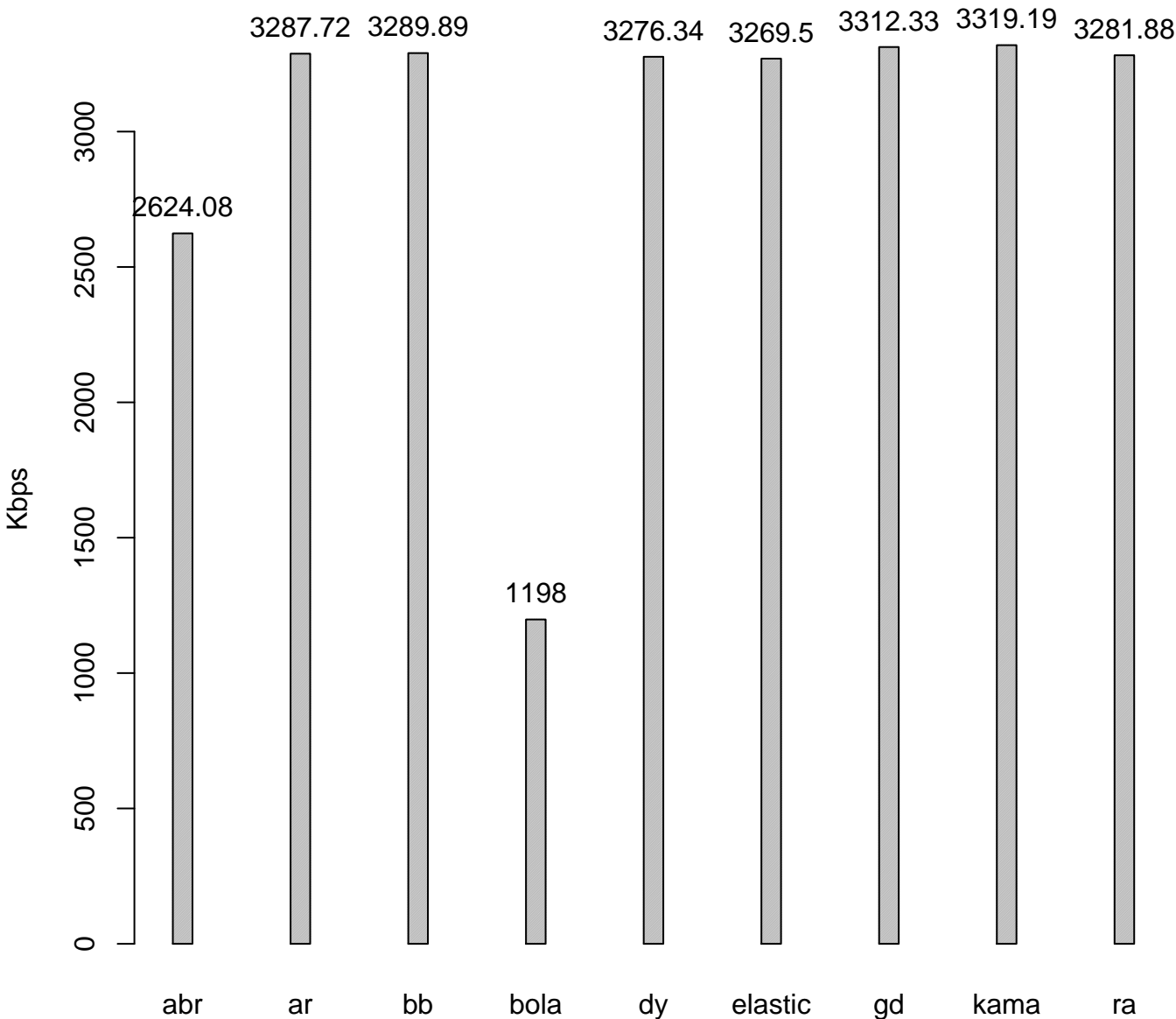**Network profile: p2 Sample: t2 Metric: Inefficiency**
Buffer: 30/60   min: kama

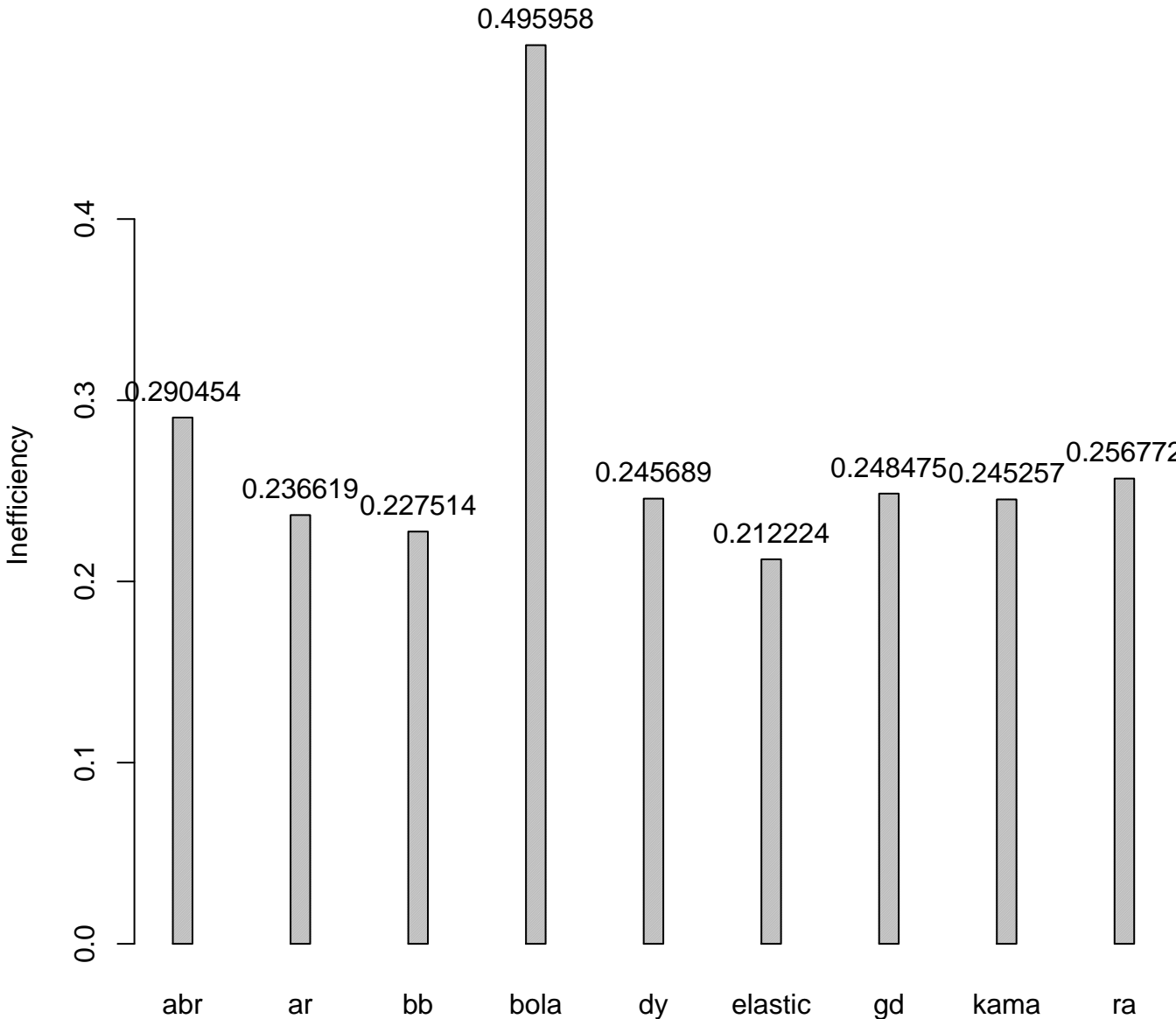**Network profile: p2 Sample: t2 Metric: # quality change**
Buffer: 30/60   min: bola

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

Kbps

2624.08 3287.72 3289.89 1198 3276.34 3269.5 3312.33 3319.19 3281.88

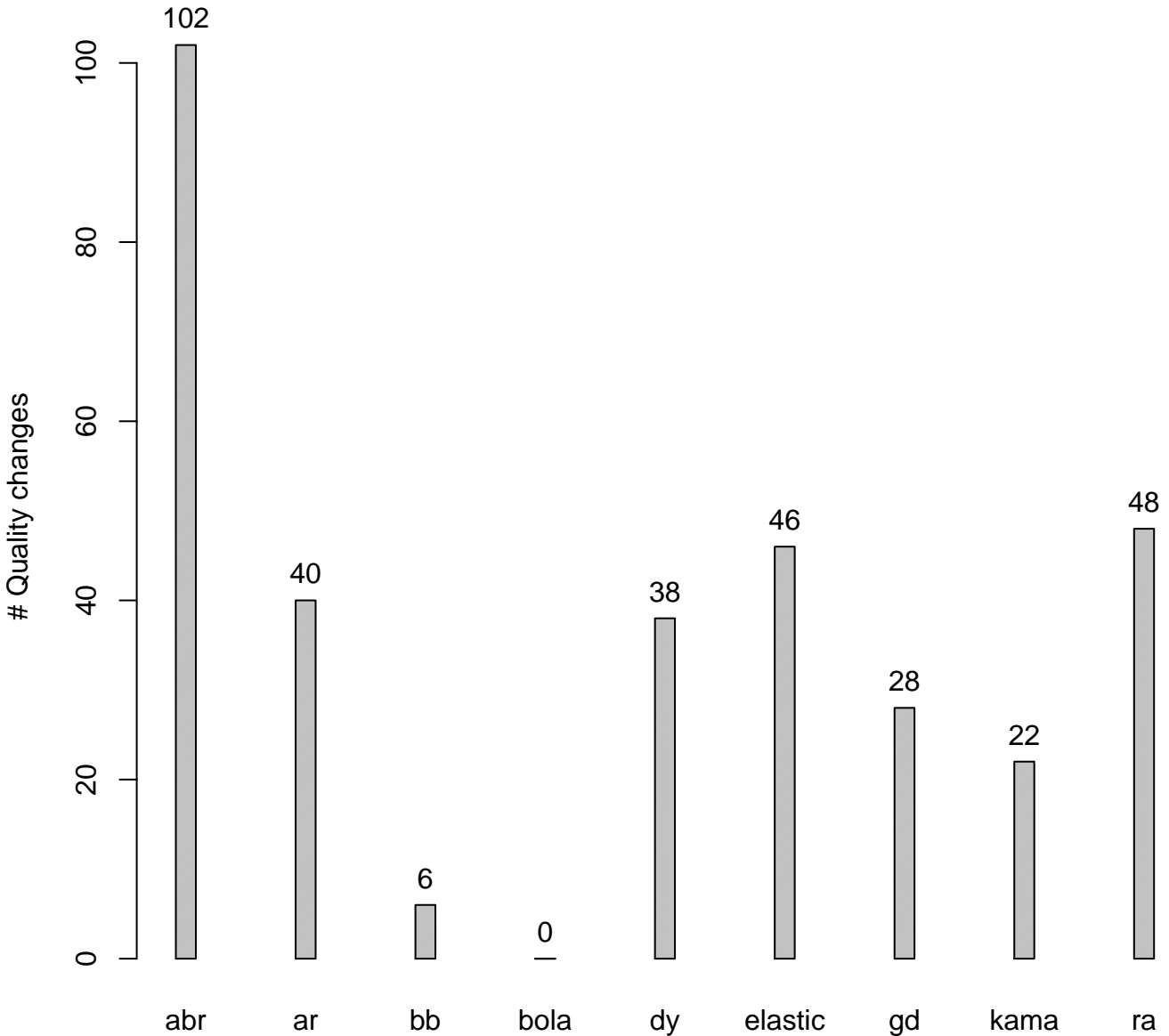abr   ar   bb   bola   dy   elastic   gd   kama   ra

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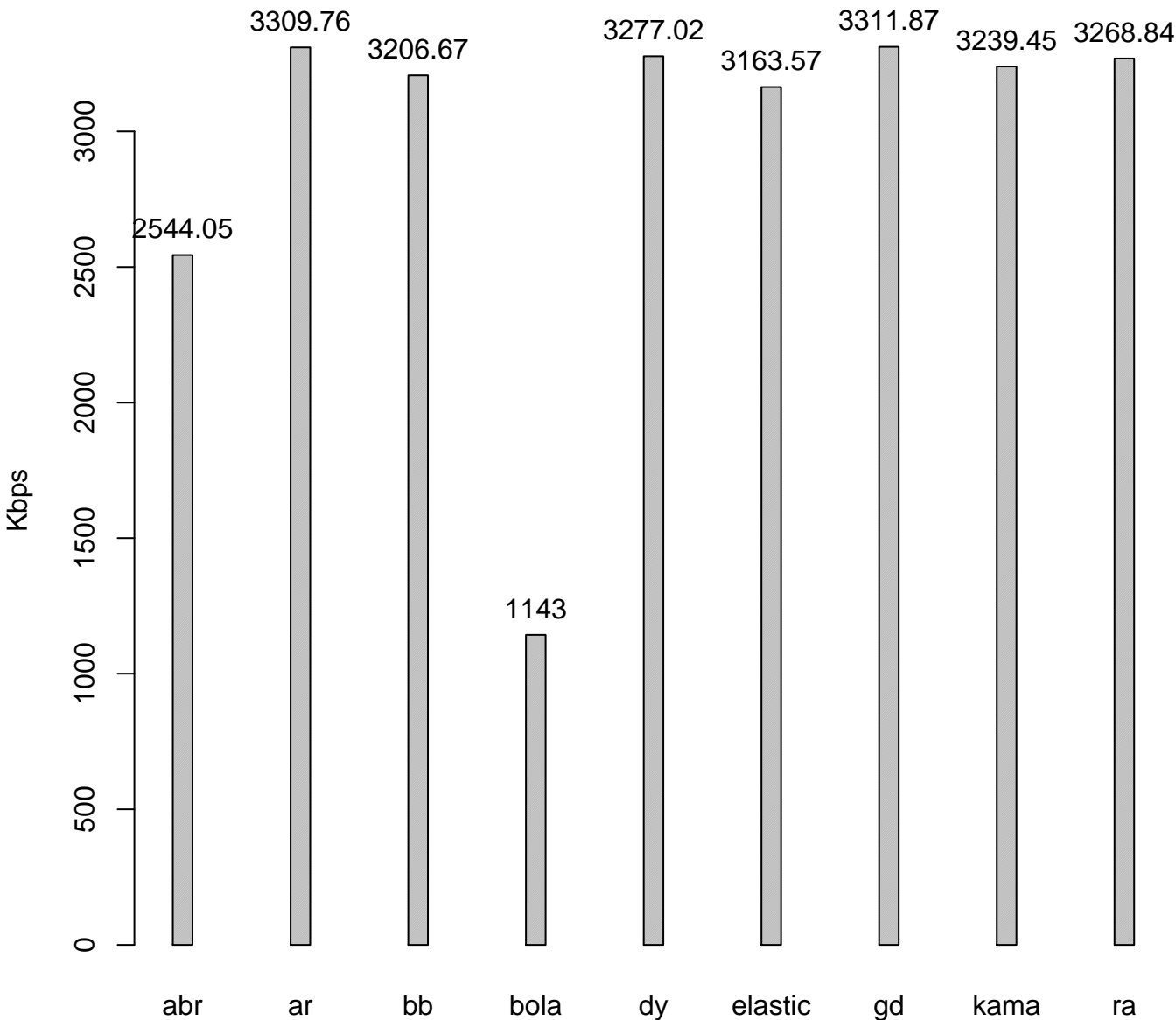**Buffer: 30/60   min: elastic**

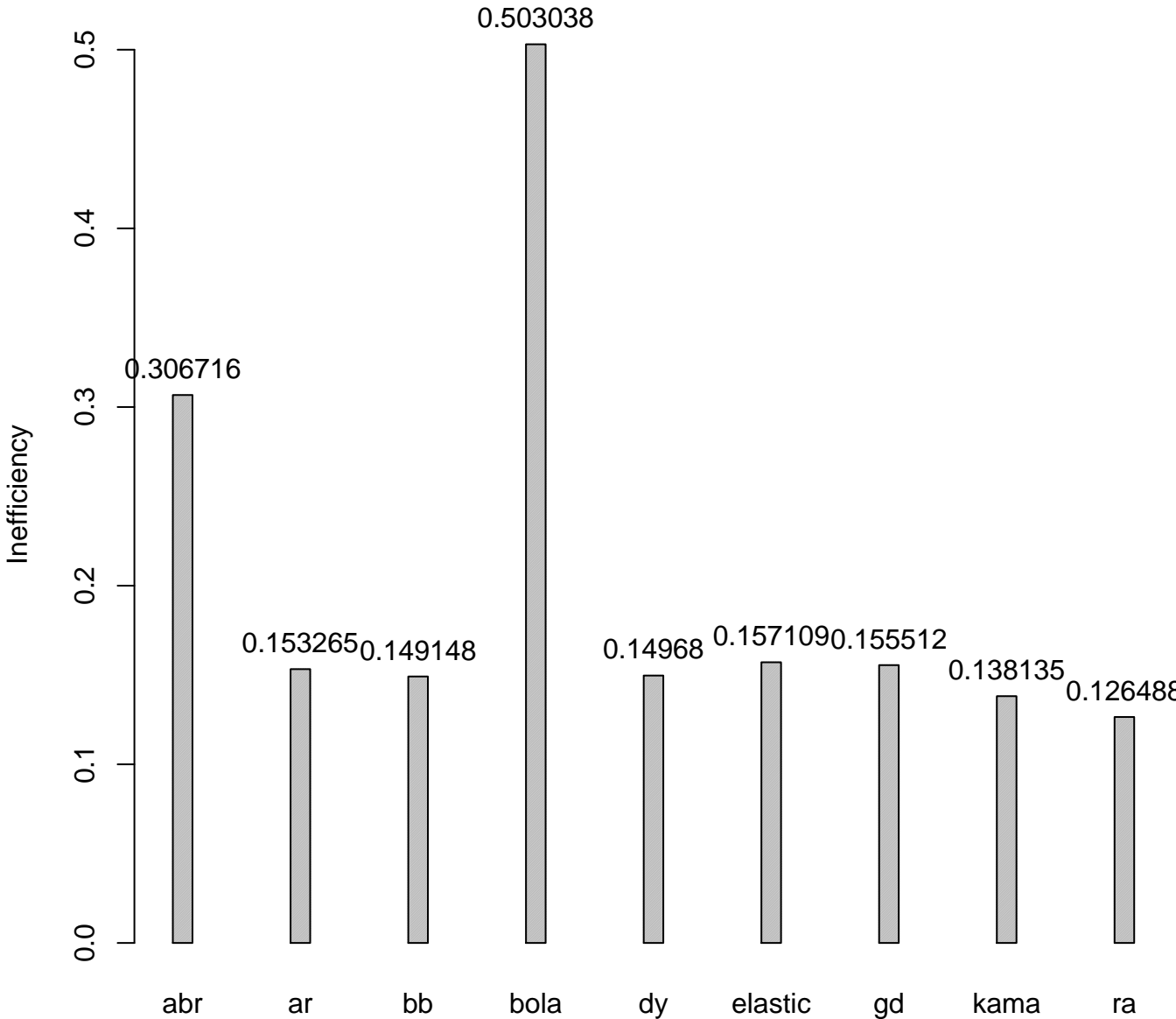**Network profile: p2 Sample: t3 Metric: # quality change**
Buffer: 30/60   min: bola

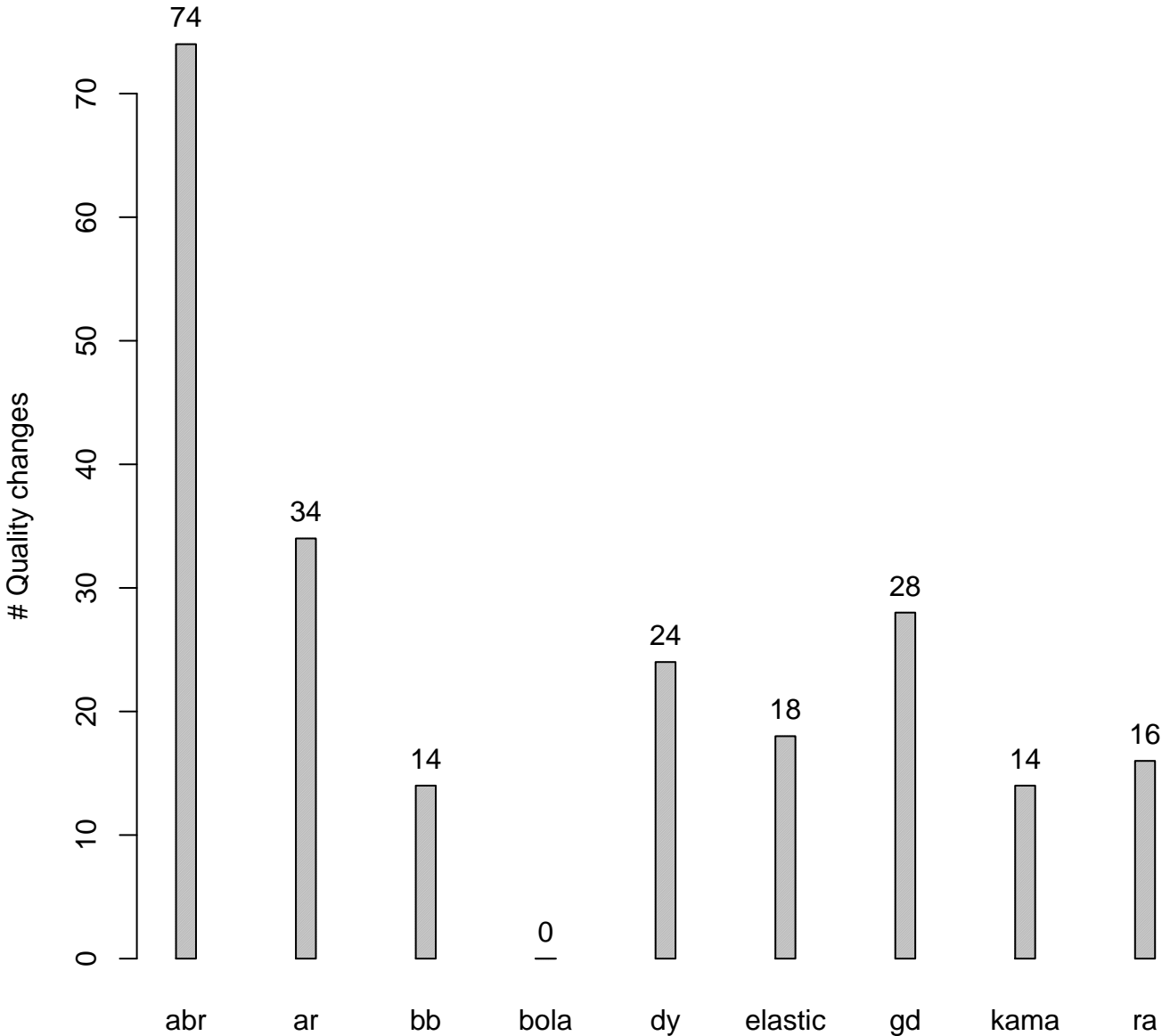**Network profile: p2 Sample: t4 Metric: Avg−Bitrate**
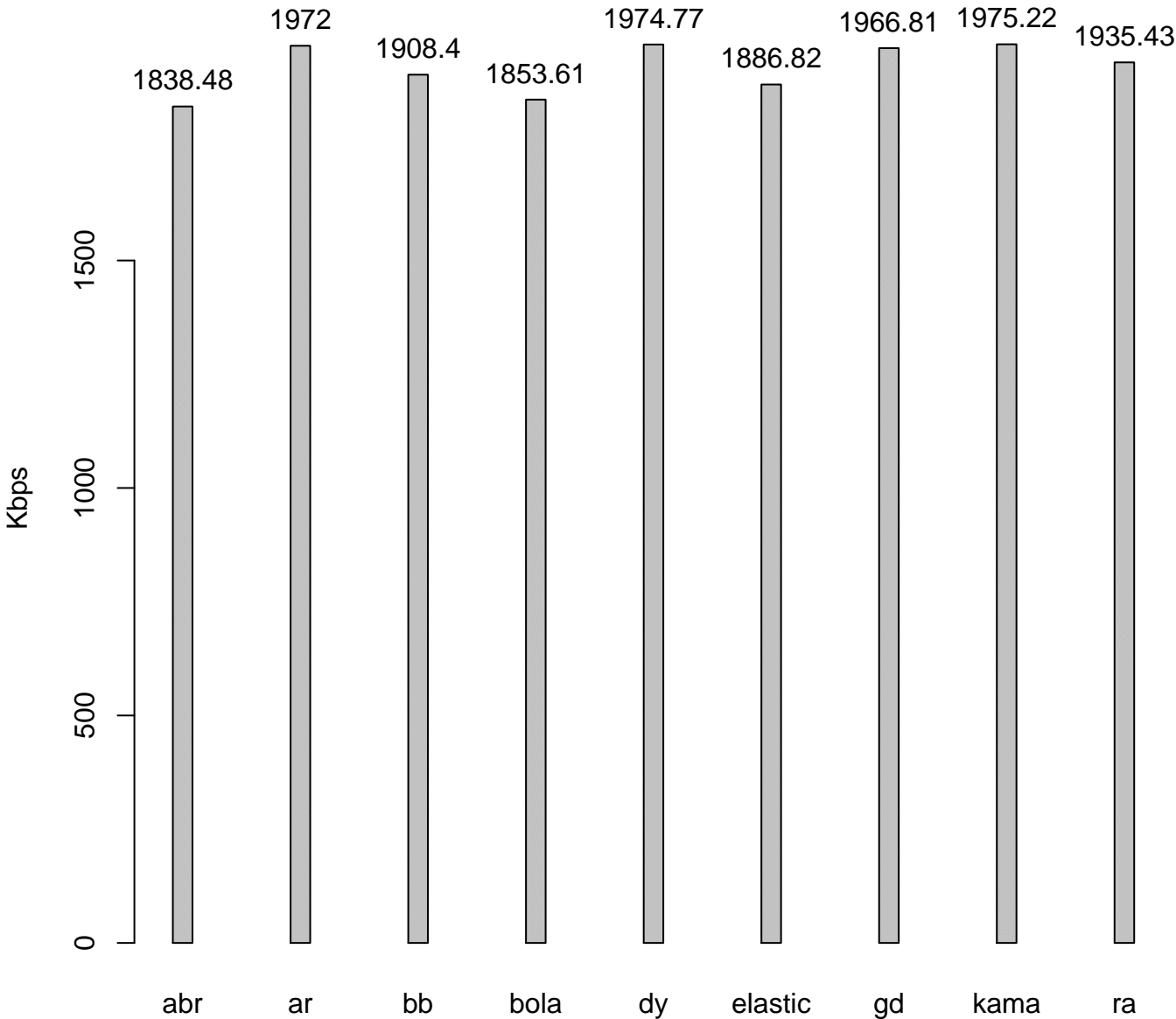**Buffer: 30/60   max: gd**

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

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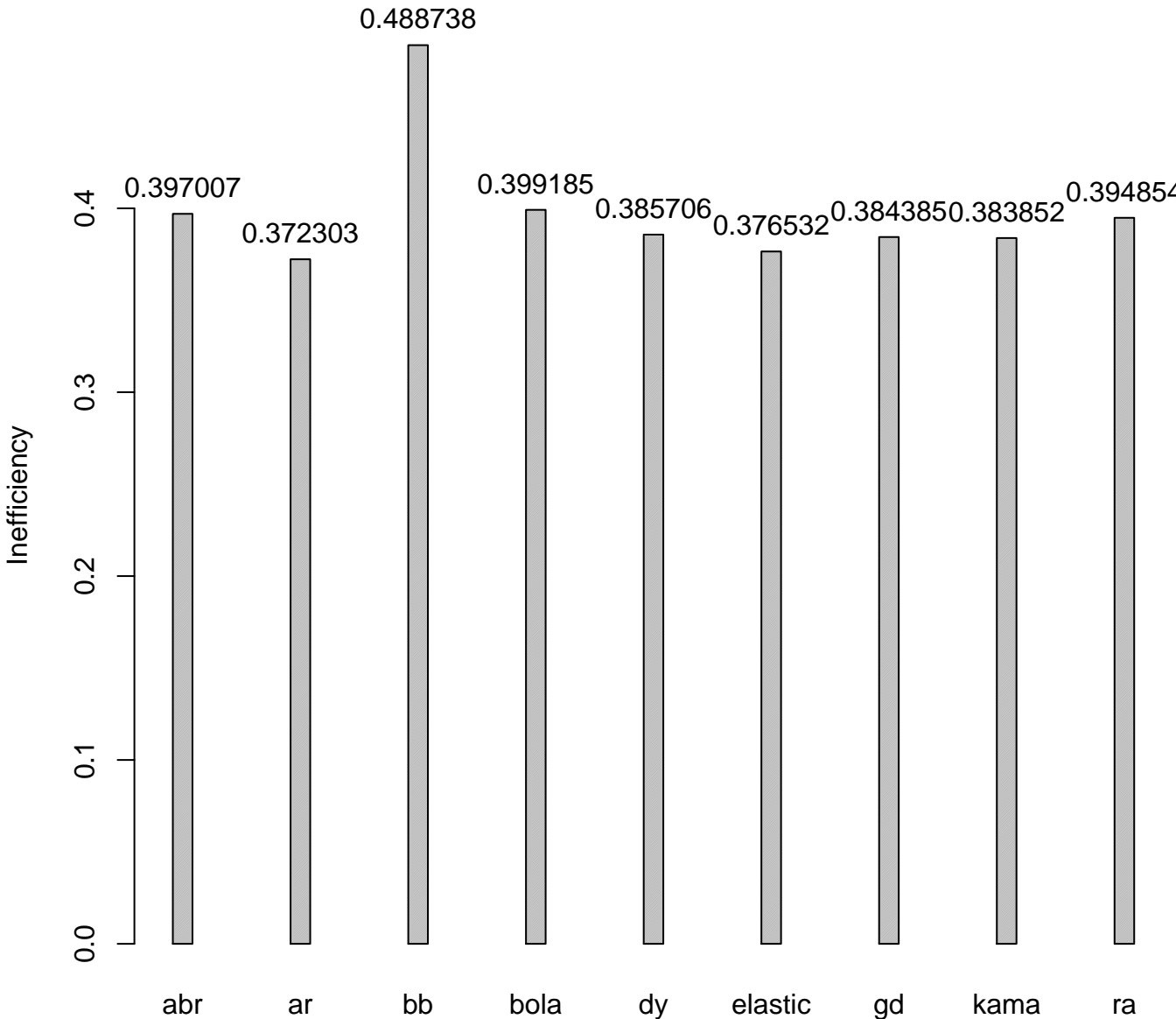**Buffer: 30/60 min: bola**

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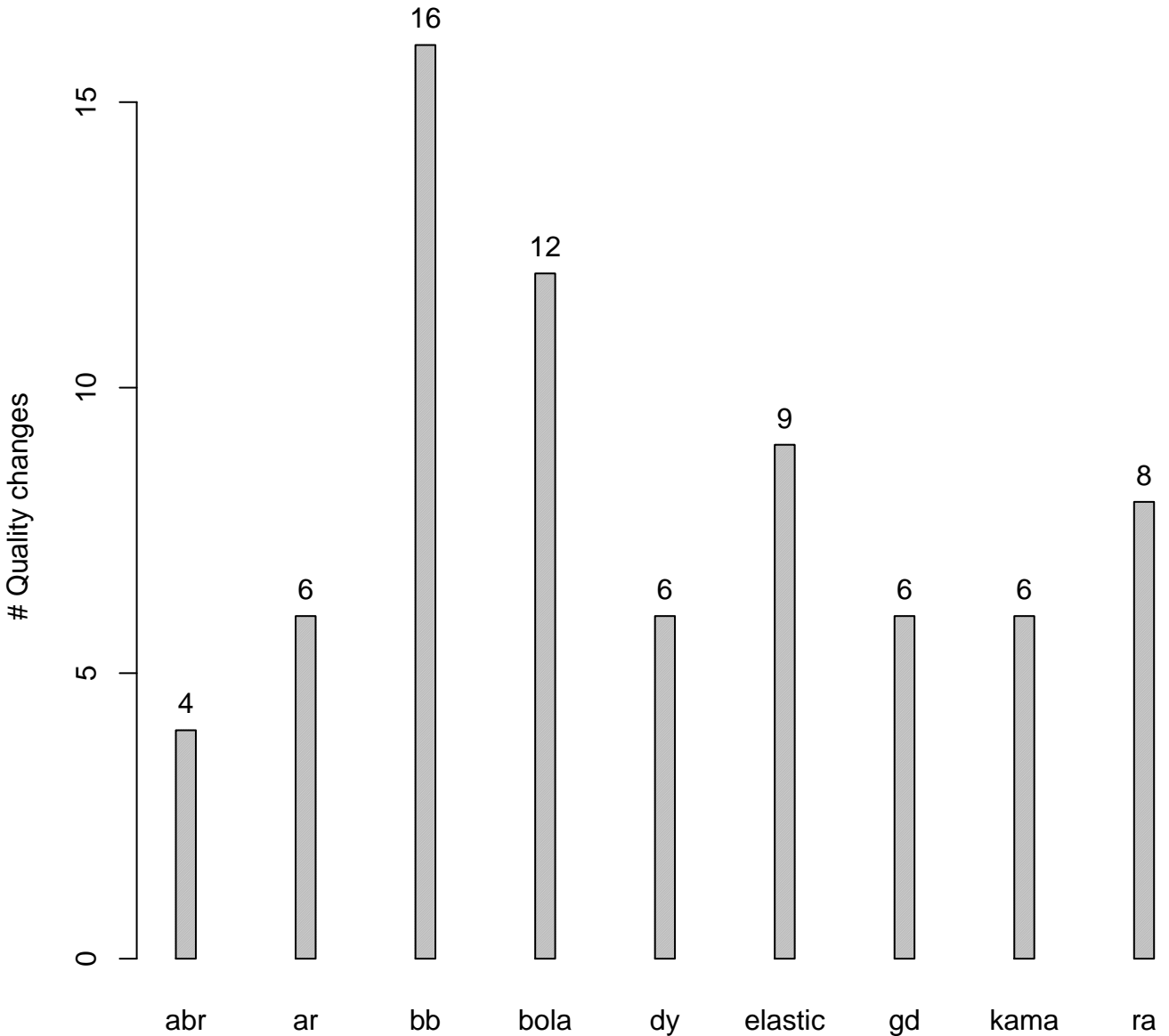**Buffer: 30/60   max: kama**

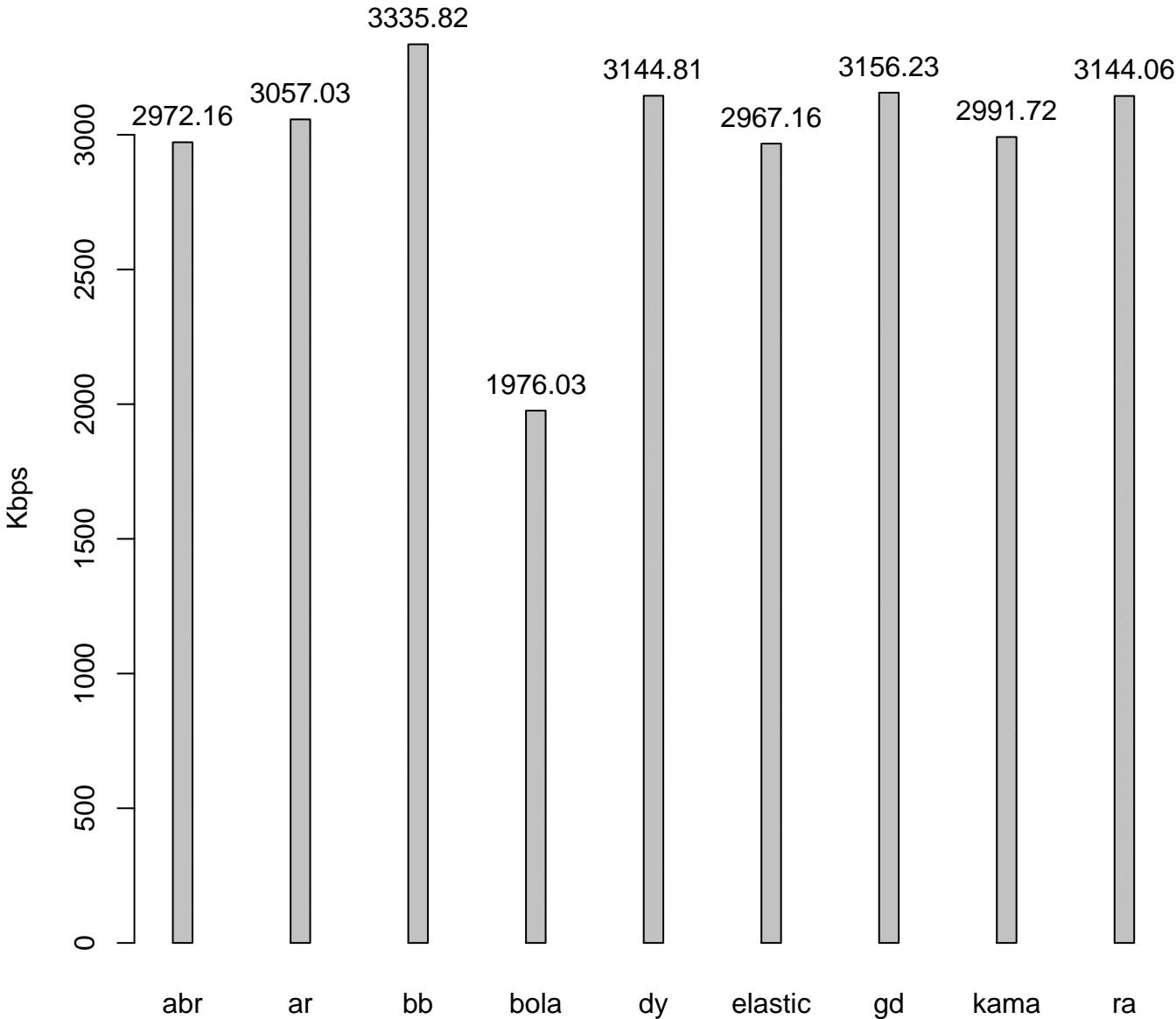**Network profile: p2 Sample: t5 Metric: Inefficiency**
Buffer: 30/60   min: ar

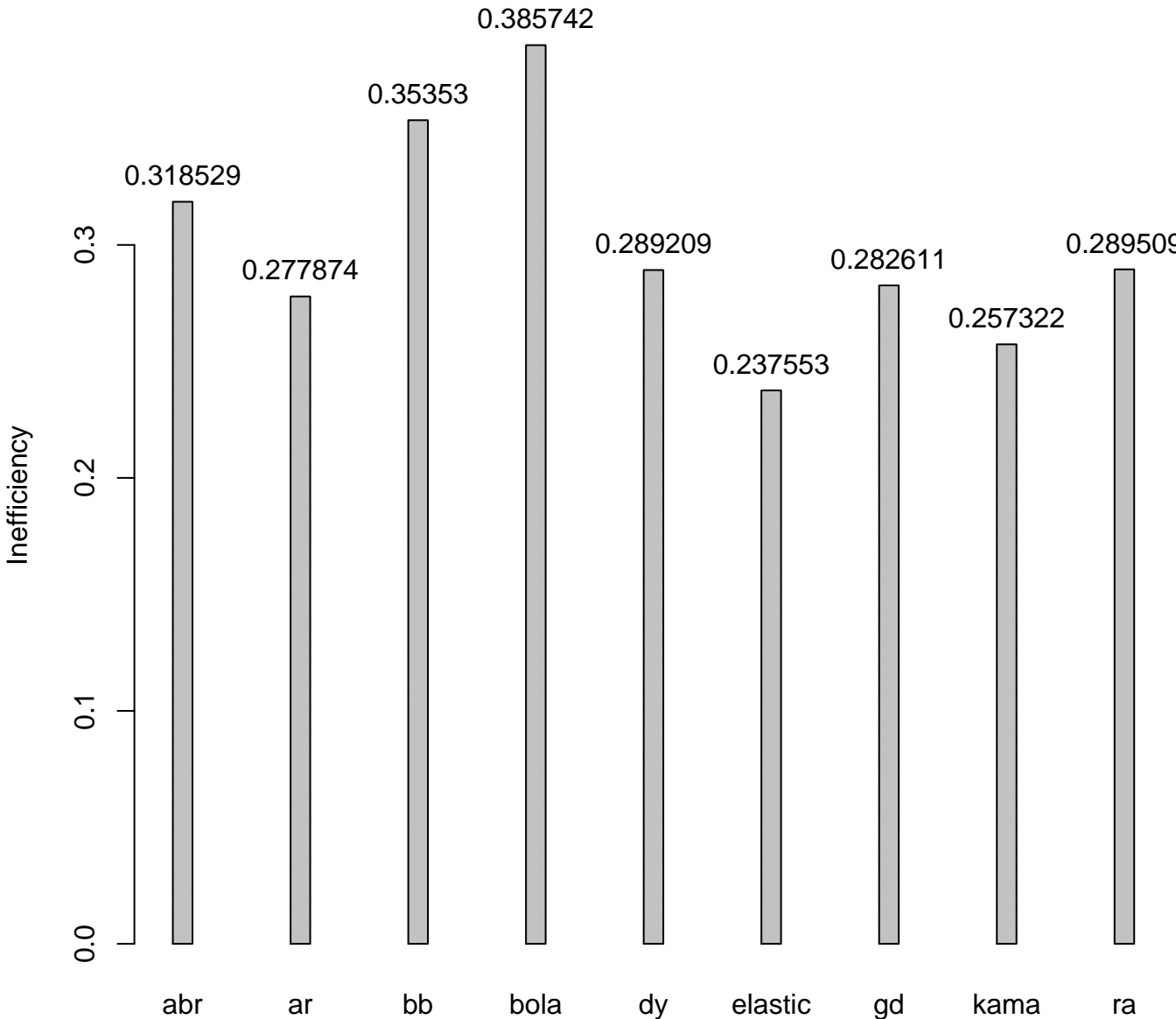**Network profile: p2 Sample: t5 Metric: # quality change**
Buffer: 30/60   min: abr

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

Inefficiency

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

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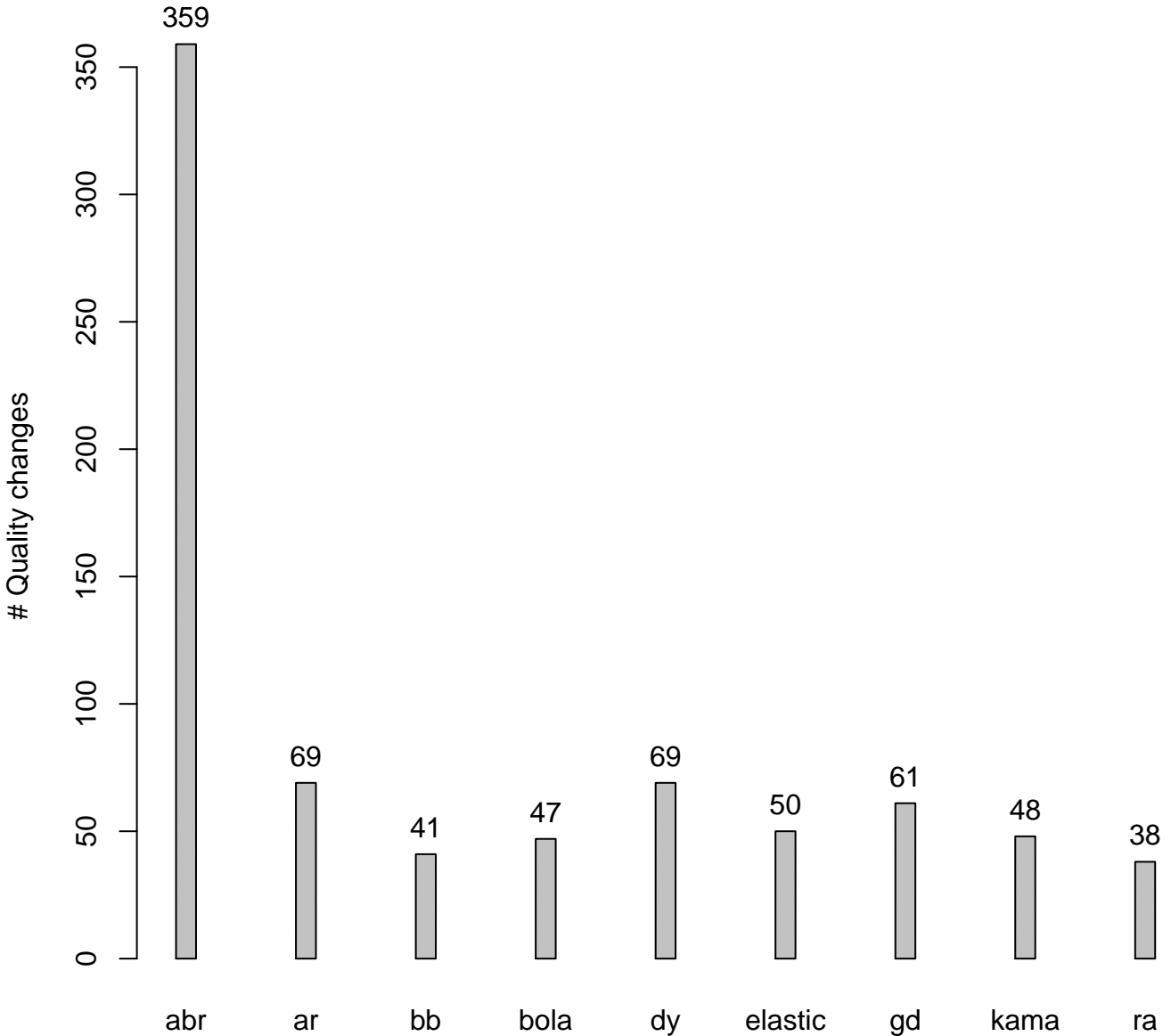**Buffer: 30/60   max: bb**
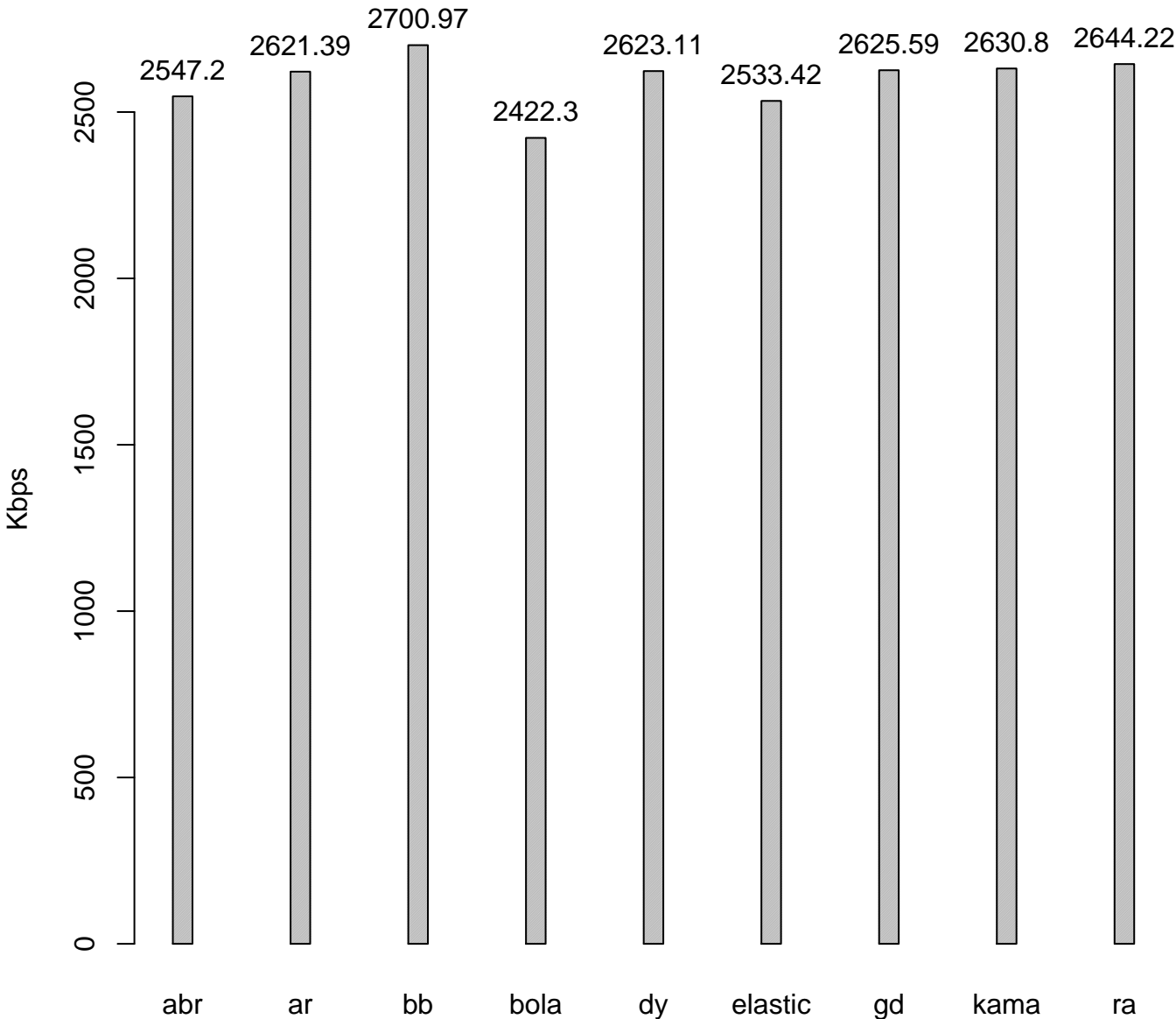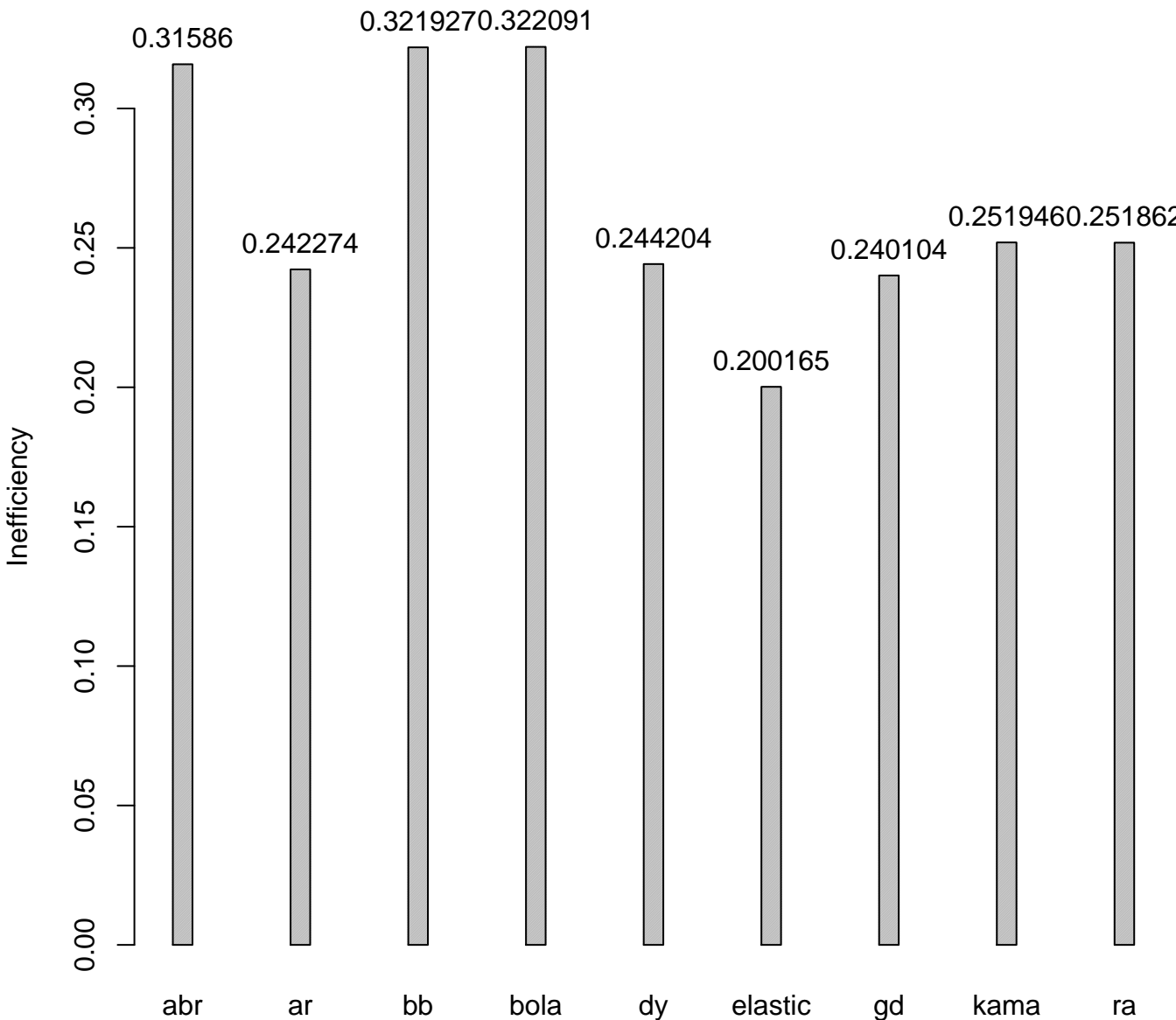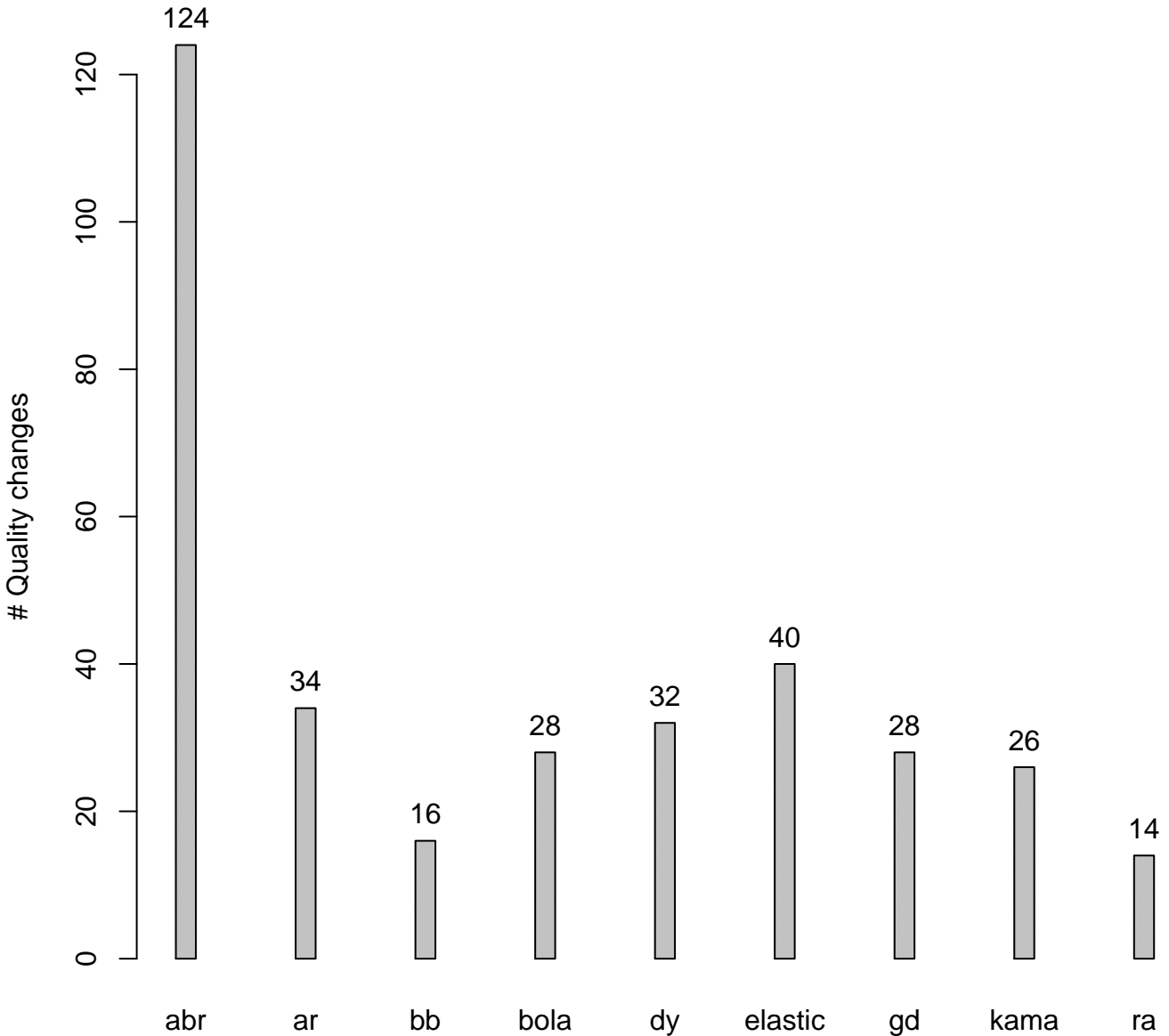
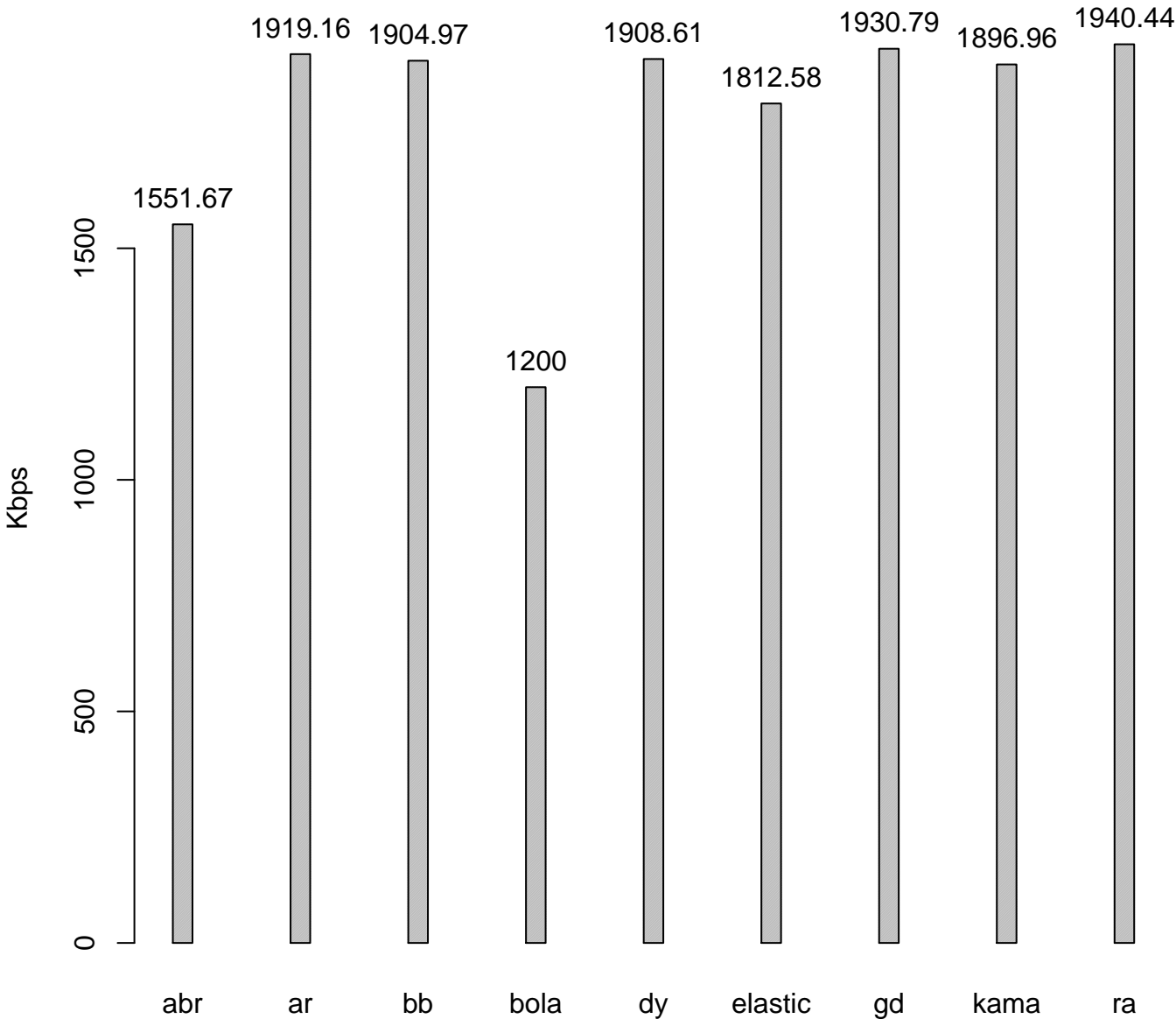**Network profile: p2 Sample: t7 Metric: Inefficiency**
Buffer: 30/60   min: elastic

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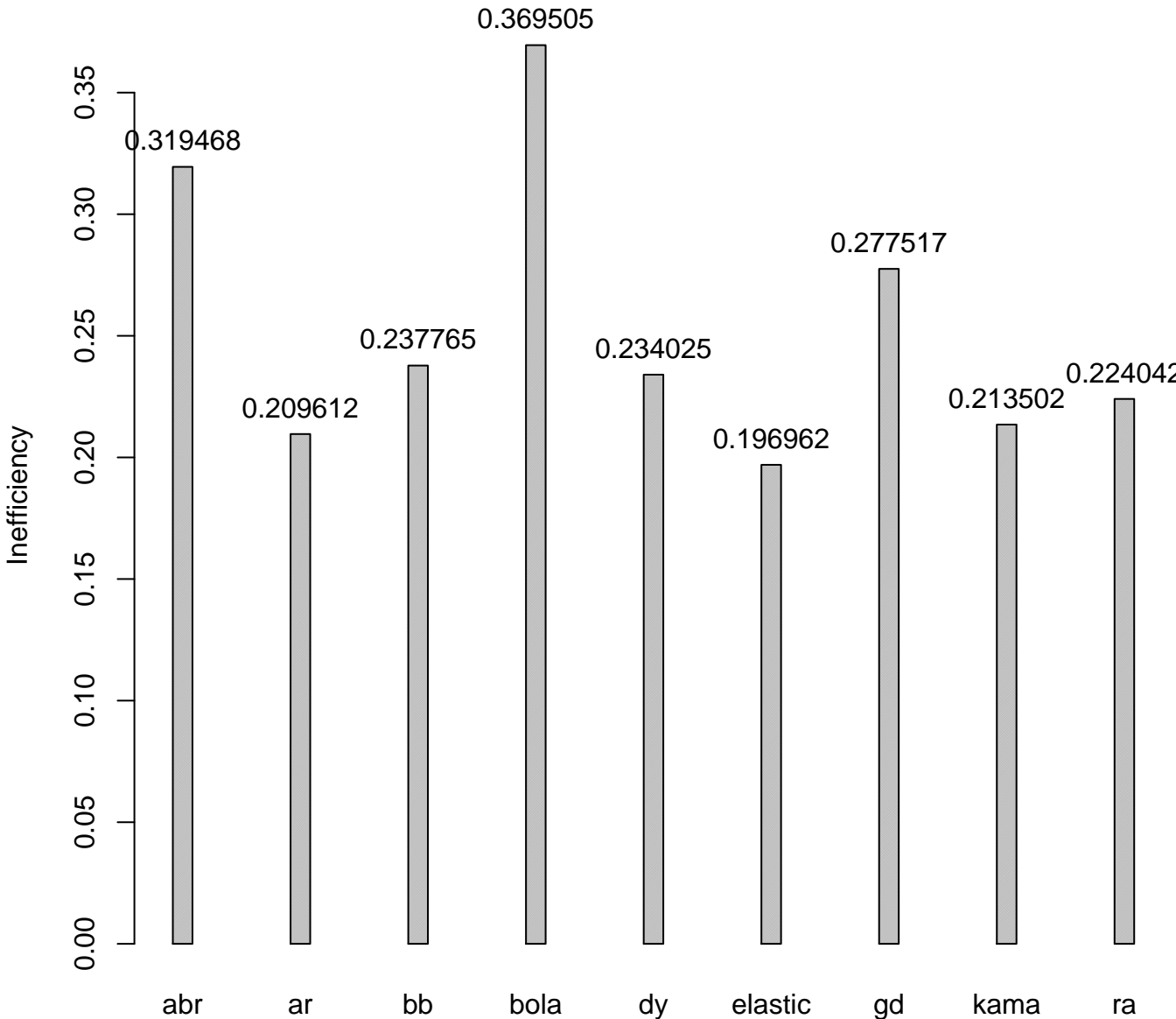**Buffer: 30/60   min: ra**

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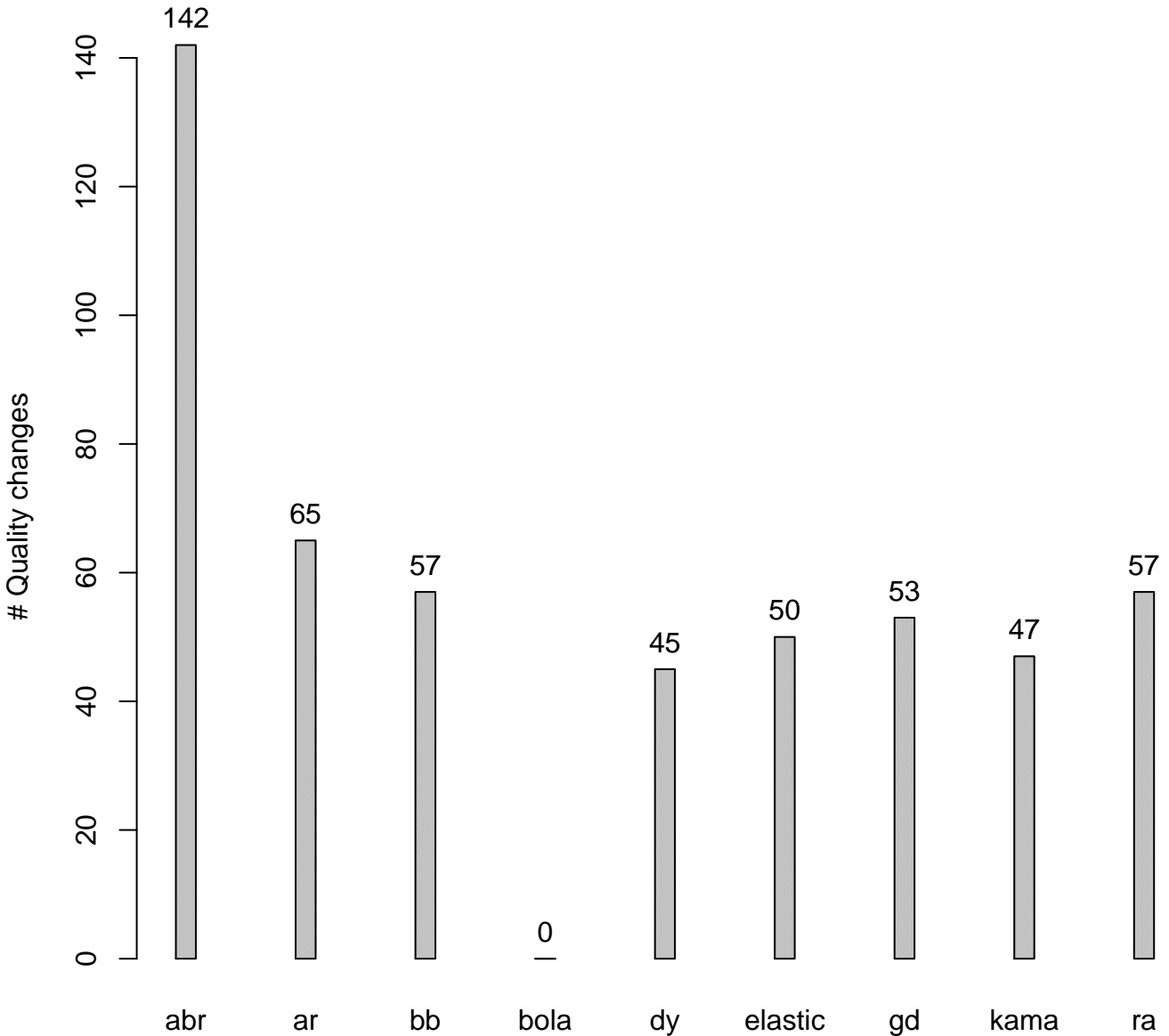**Buffer: 30/60 max: ra**

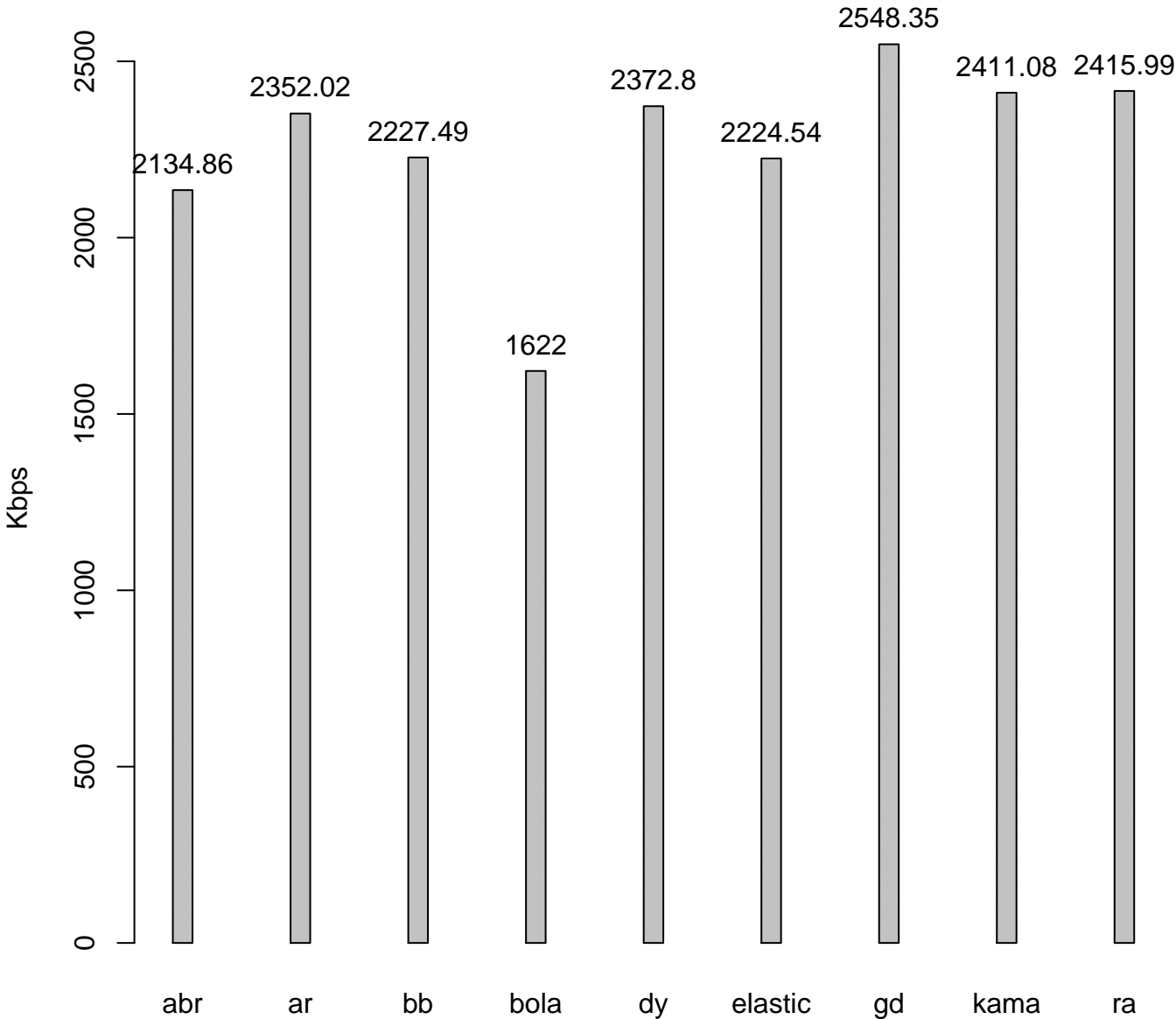**Network profile: p3 Sample: t1 Metric: Inefficiency**
Buffer: 30/60   min: elastic

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: gd

Kbps

2134.86 2352.02 2227.49 1622 2372.8 2224.54 2548.35 2411.08 2415.99

abr ar bb bola dy elastic gd kama ra

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

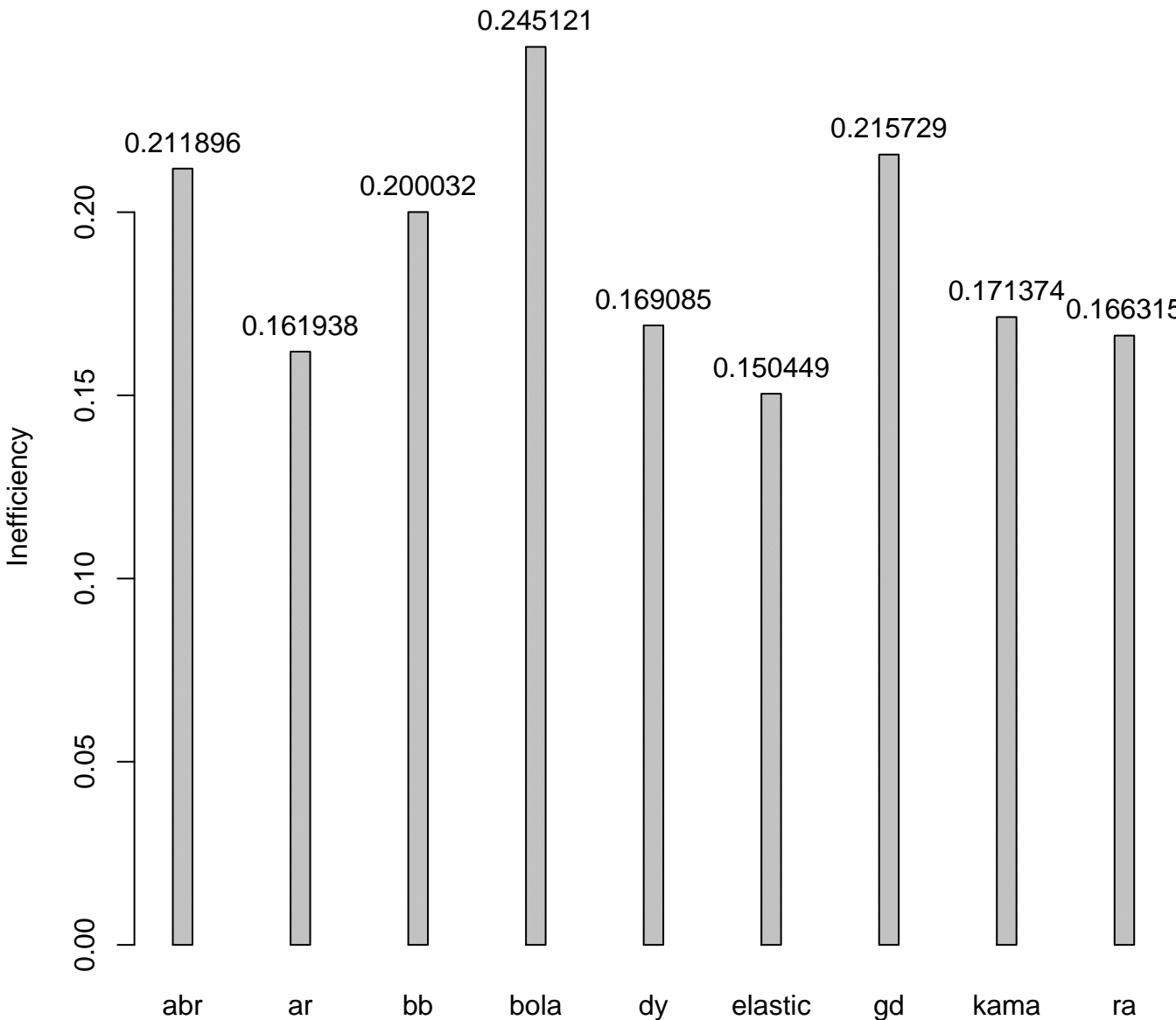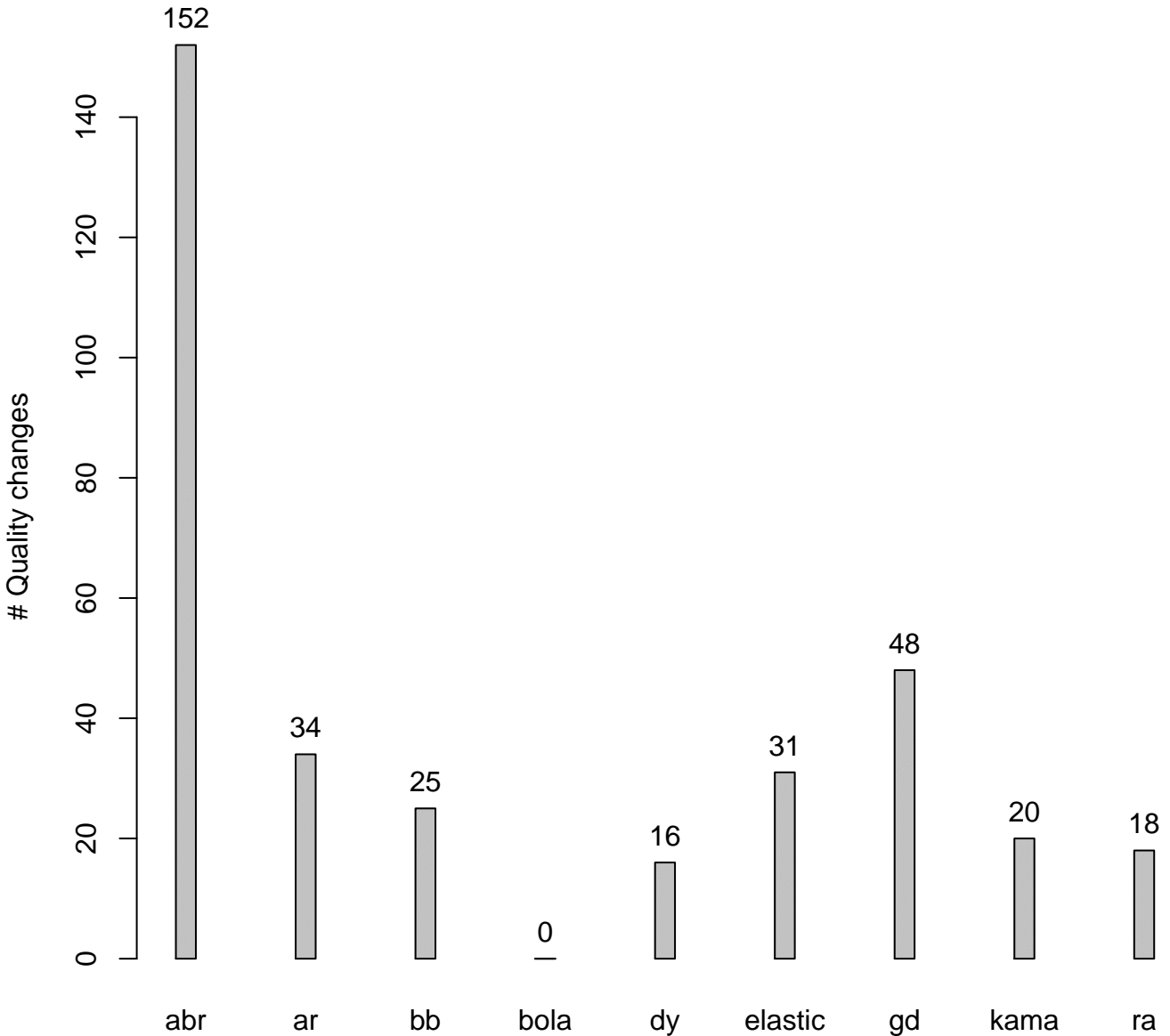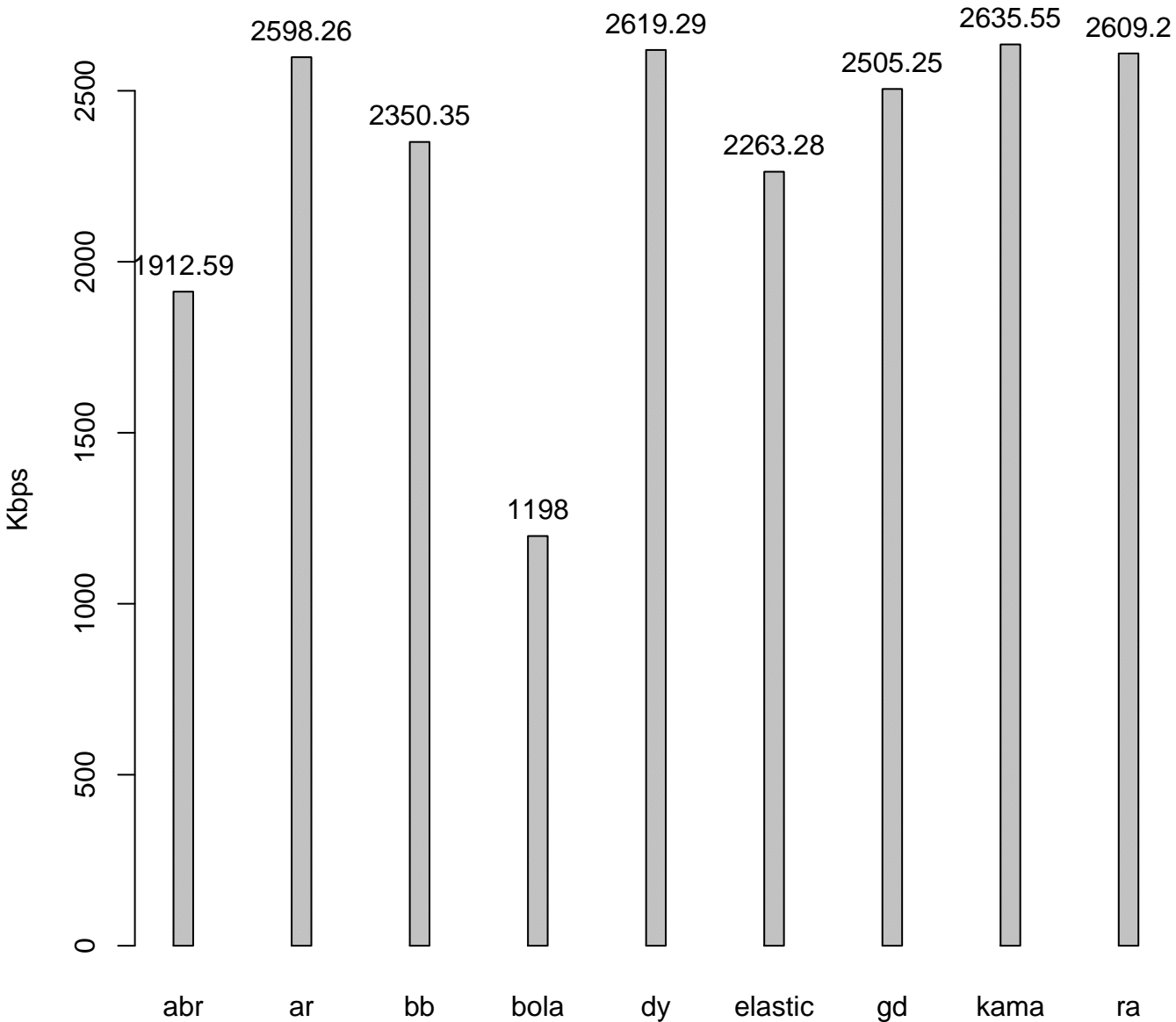**Network profile: p3 Sample: t2 Metric: # quality change**
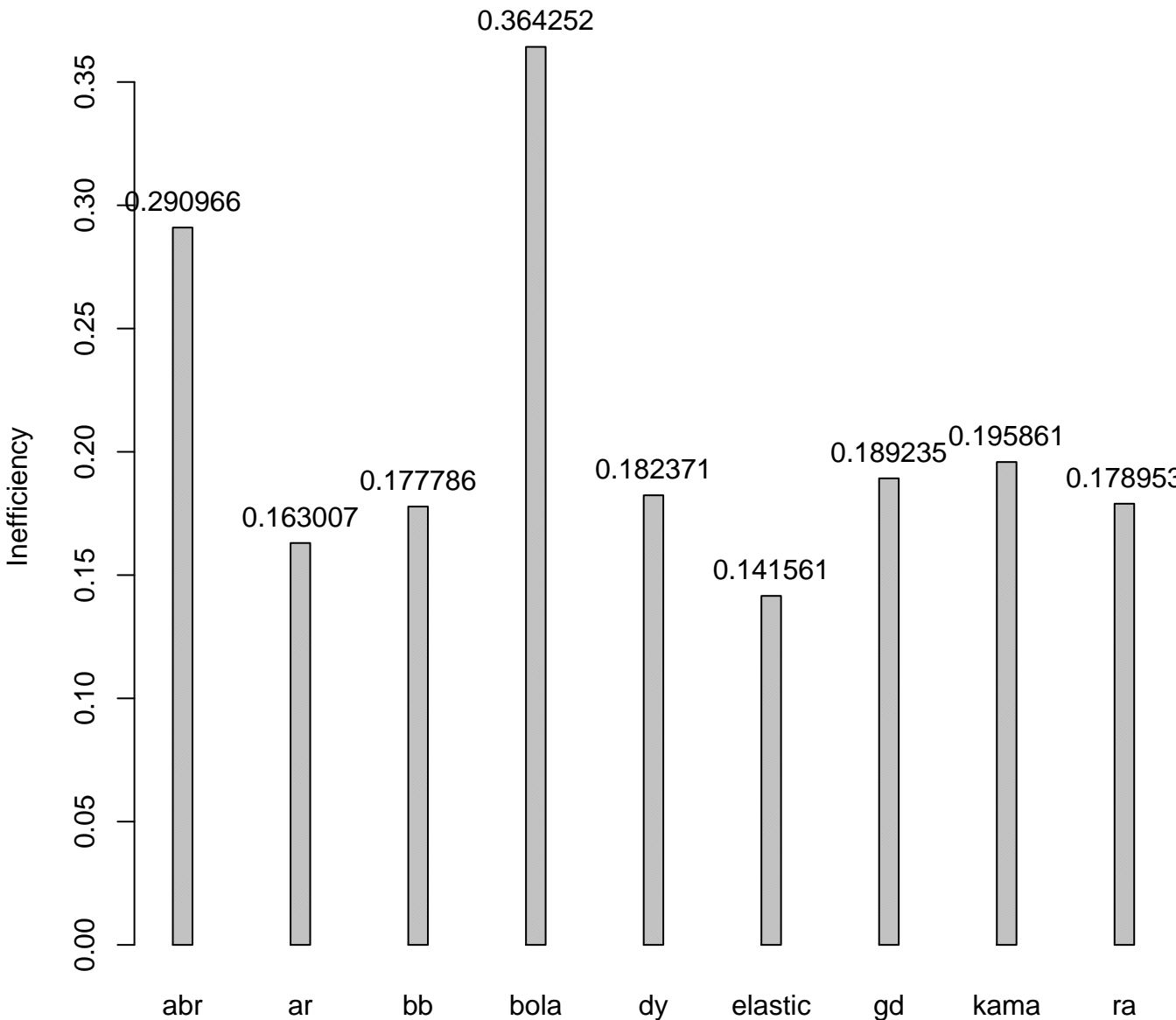**Buffer: 30/60   min: bola**

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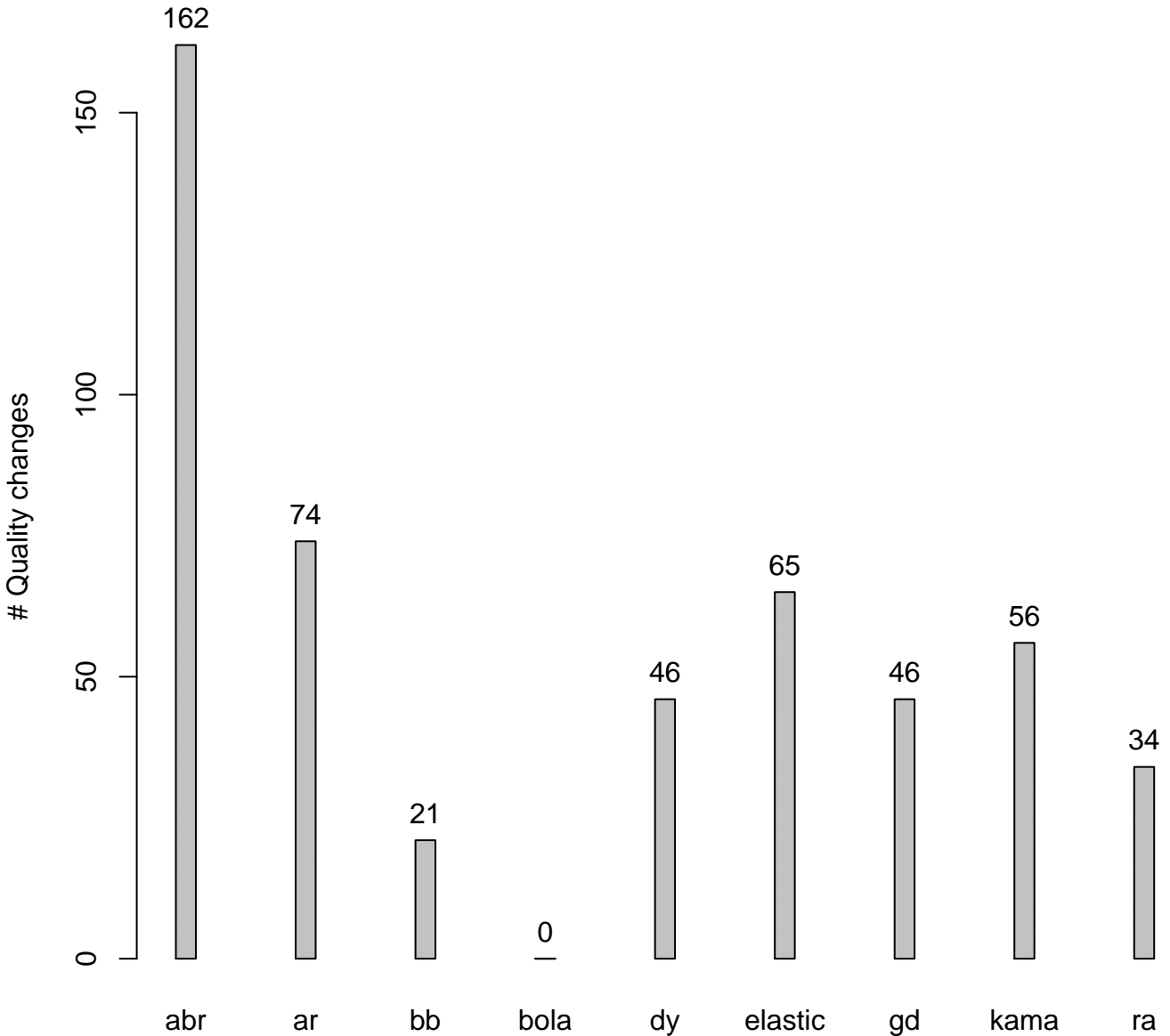**Buffer: 30/60   max: kama**

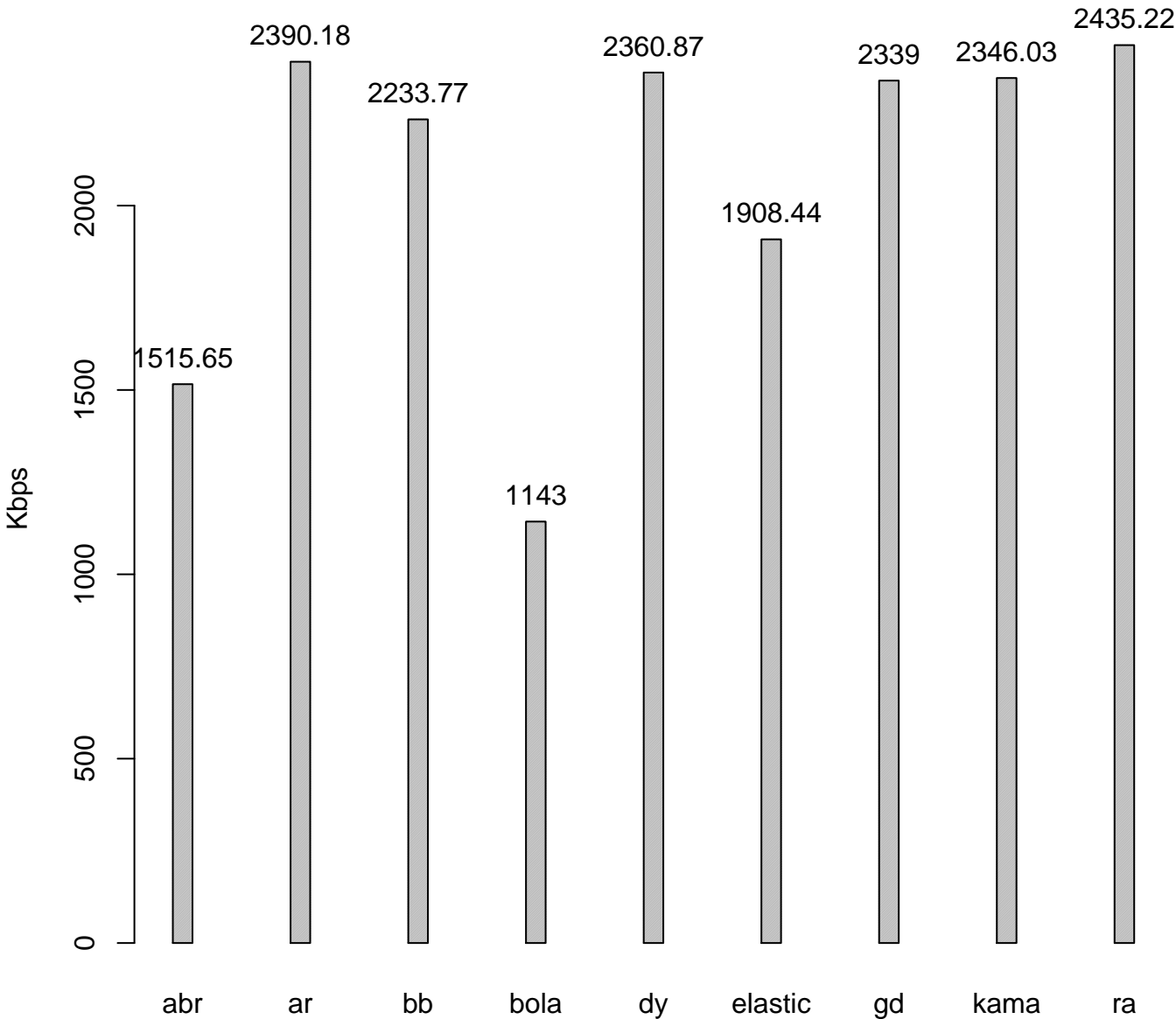**Network profile: p3 Sample: t3 Metric: Inefficiency**
Buffer: 30/60   min: elastic

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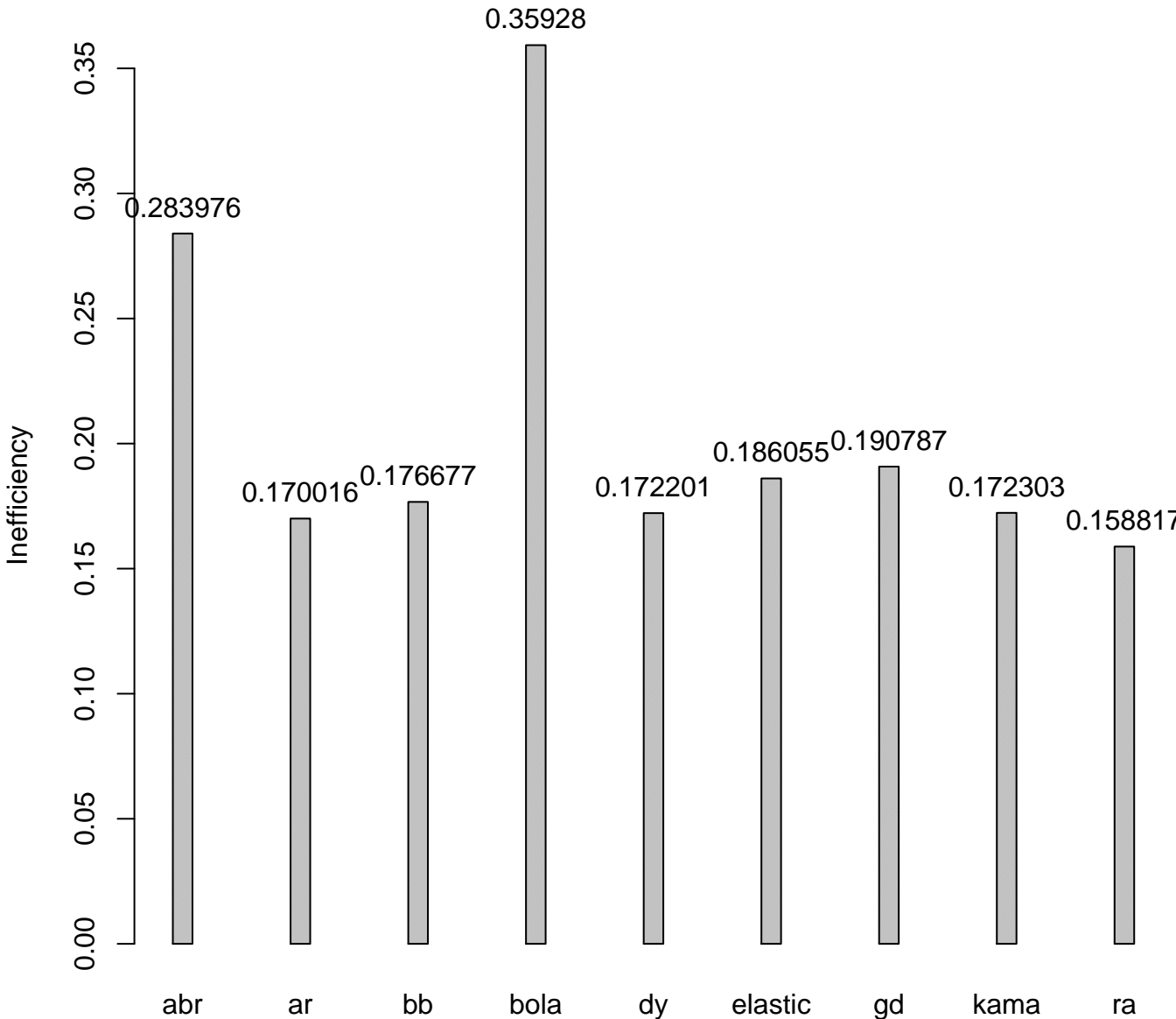**Buffer: 30/60   min: bola**

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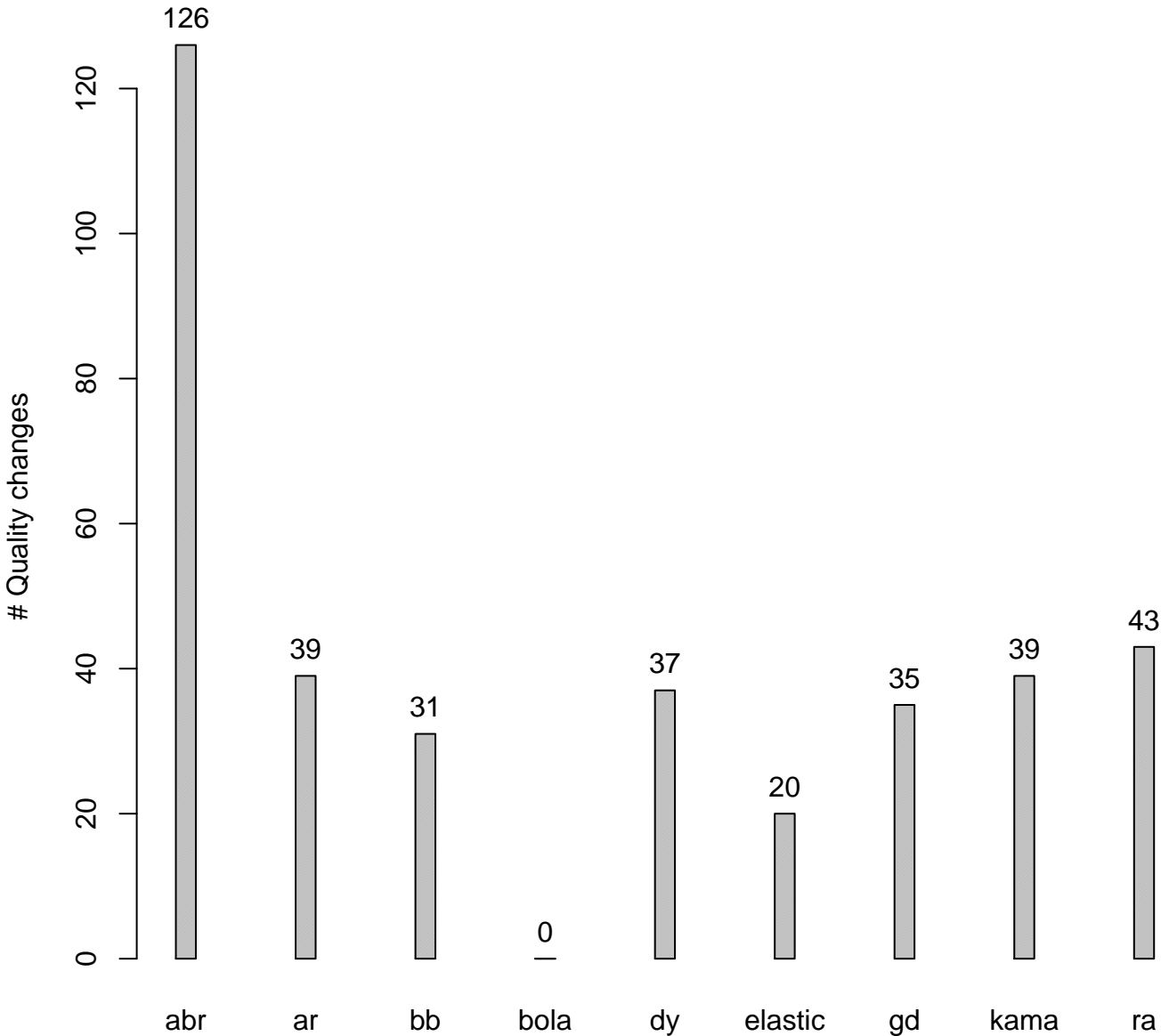**Buffer: 30/60 max: ra**

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

Quality changes

126

39

31

0

37

20

35

39

43

120

100

80

60

40

20

0

abr ar bb bola dy elastic gd kama ra

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

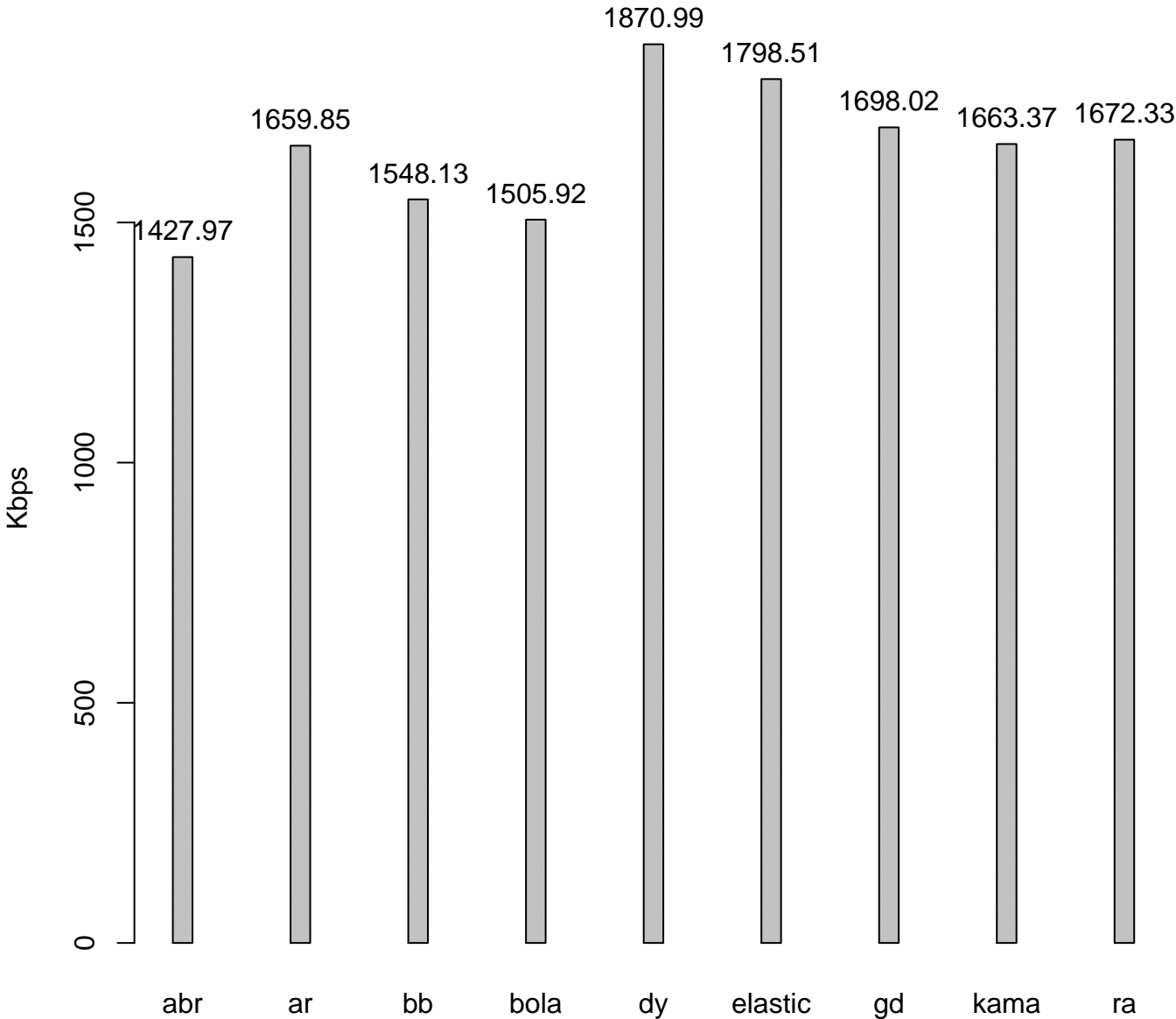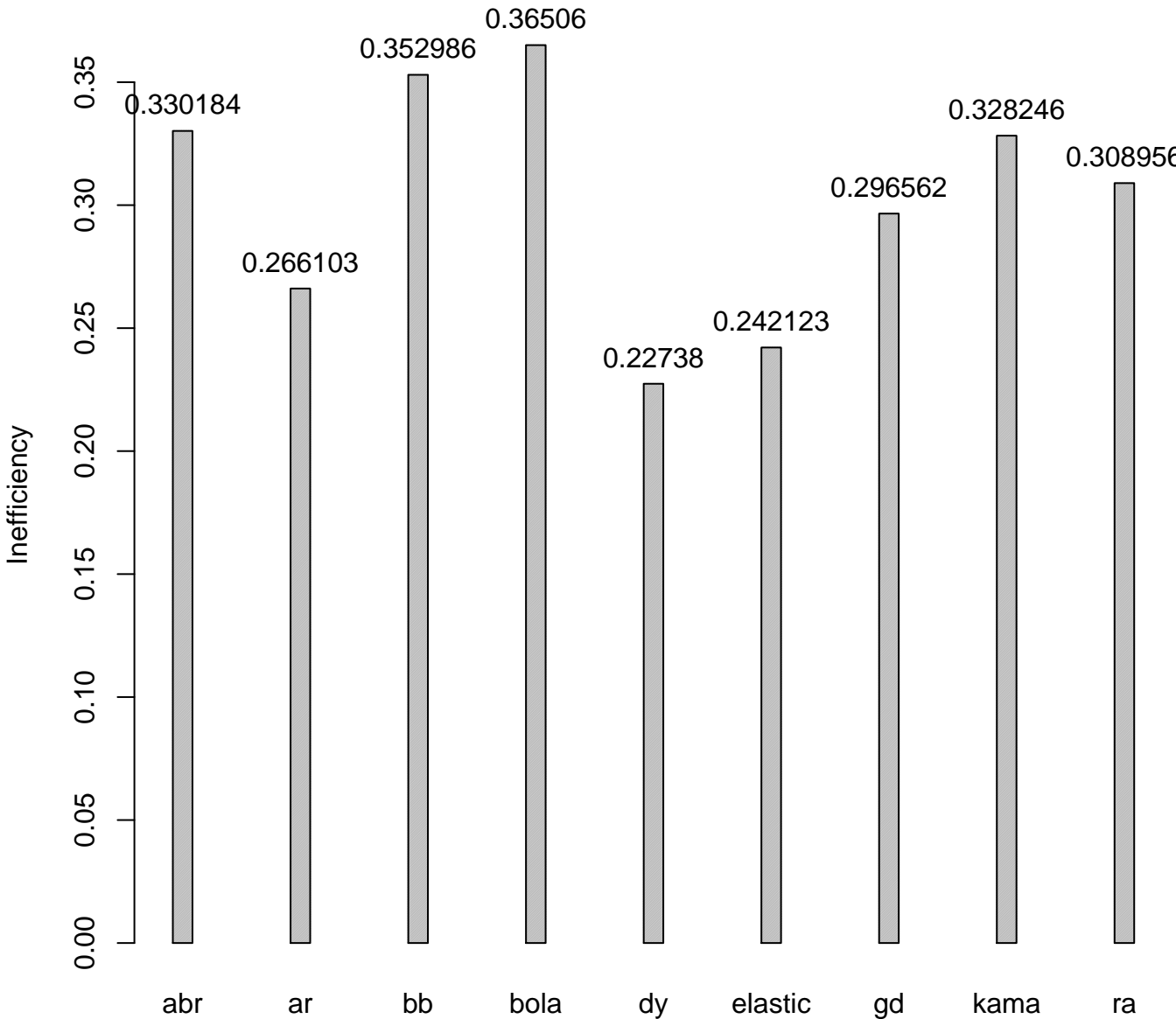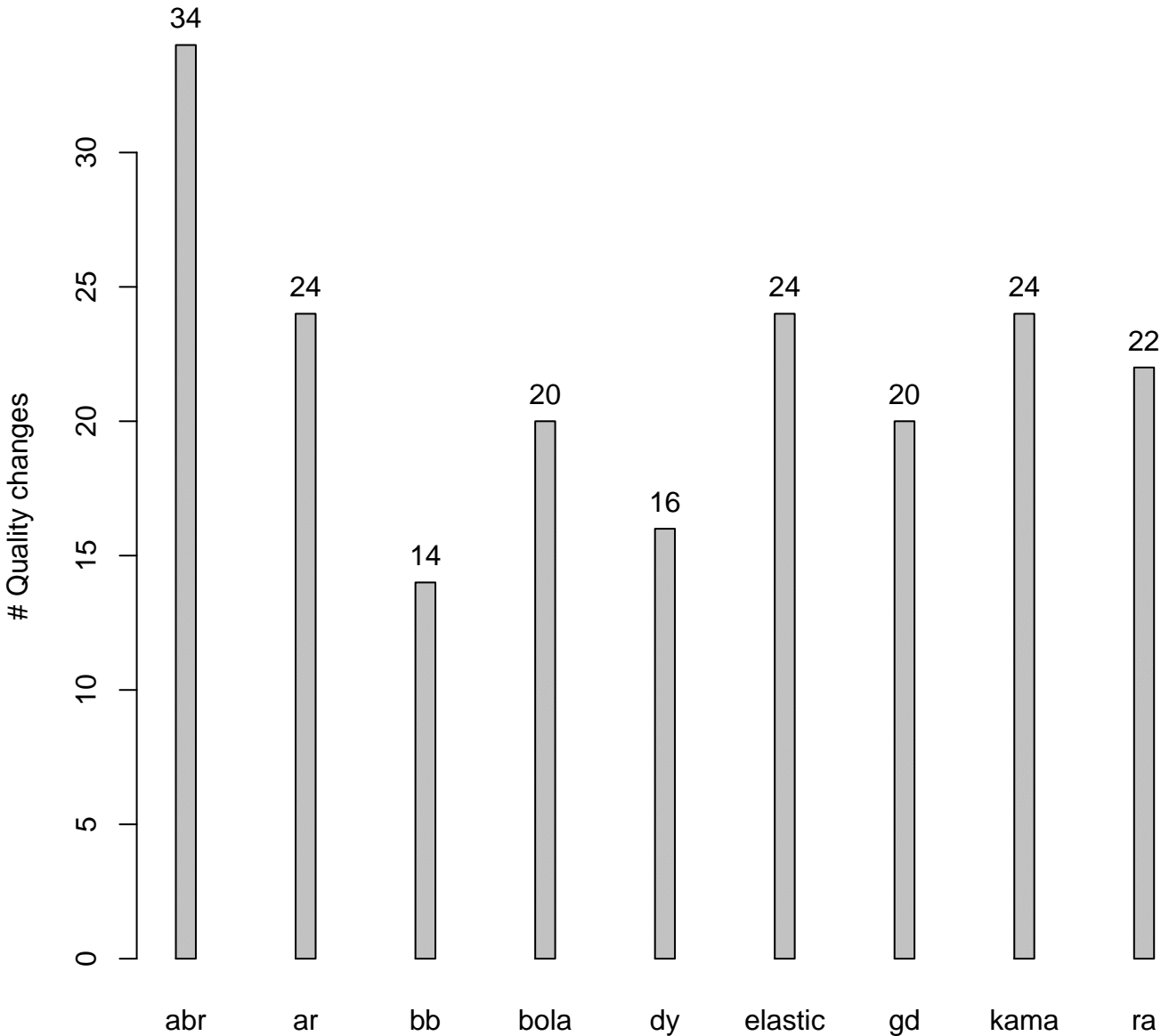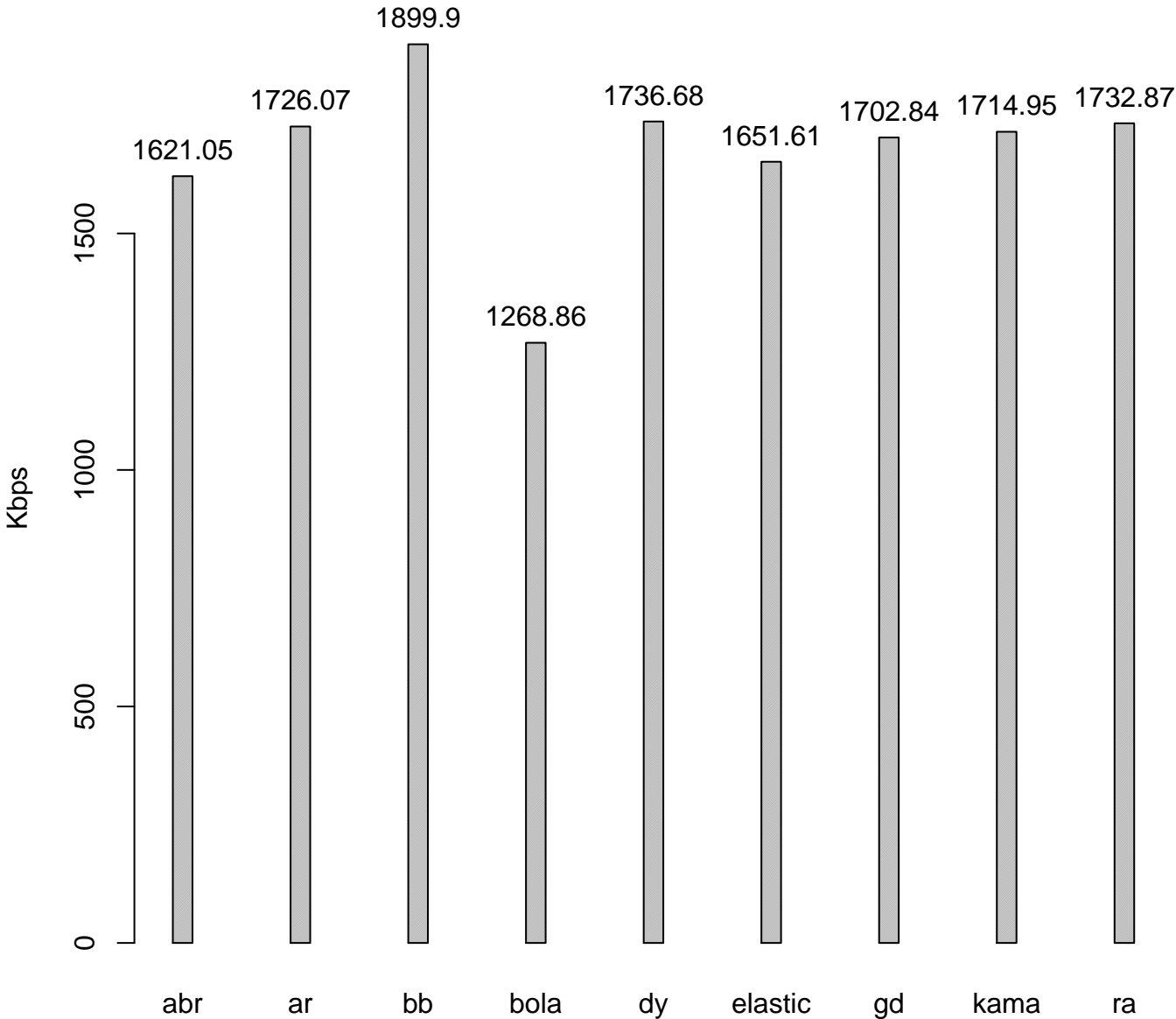**Network profile: p3 Sample: t5 Metric: Inefficiency**
Buffer: 30/60   min: dy

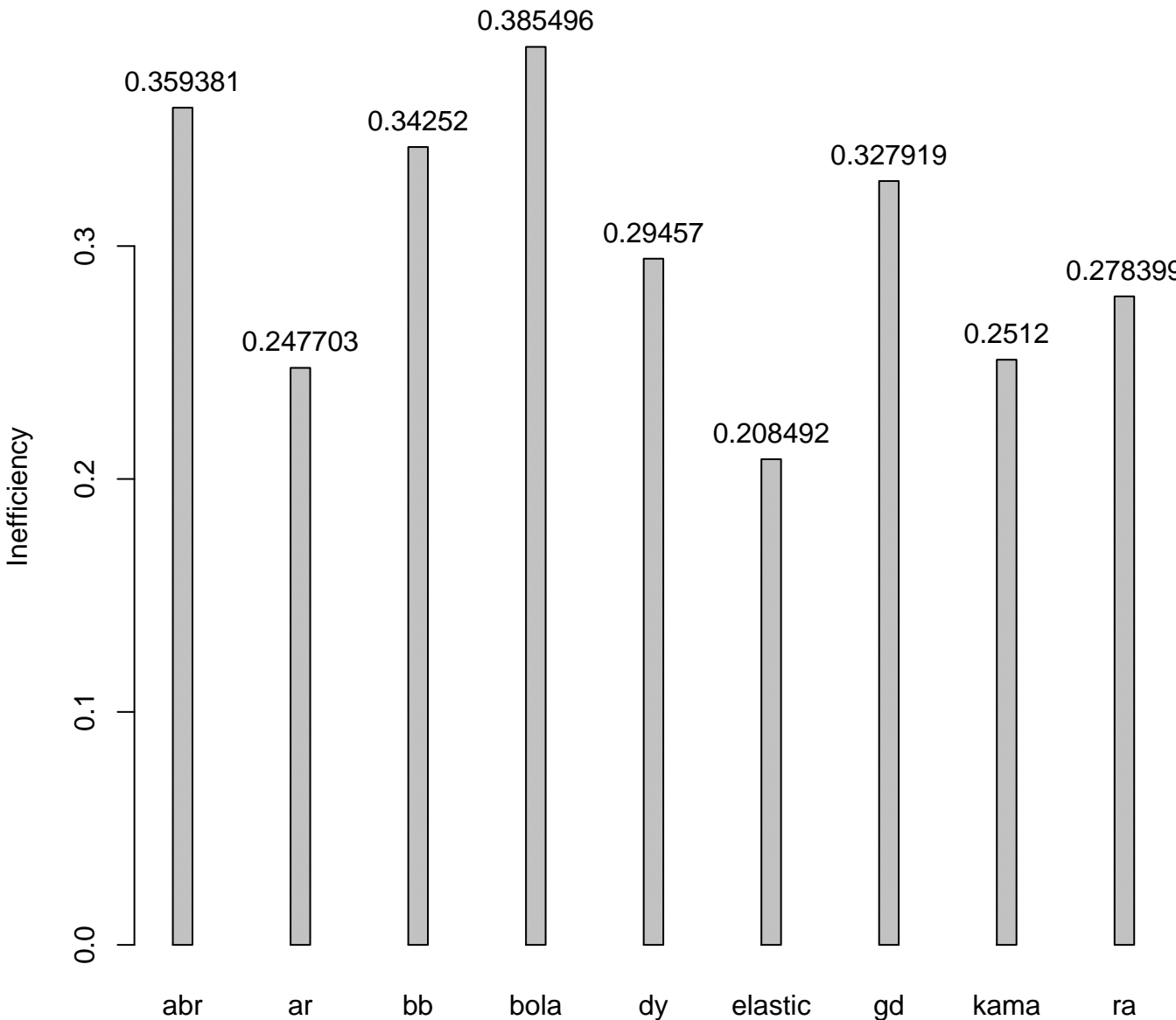**Network profile: p3 Sample: t5 Metric: # quality change**
Buffer: 30/60   min: bb

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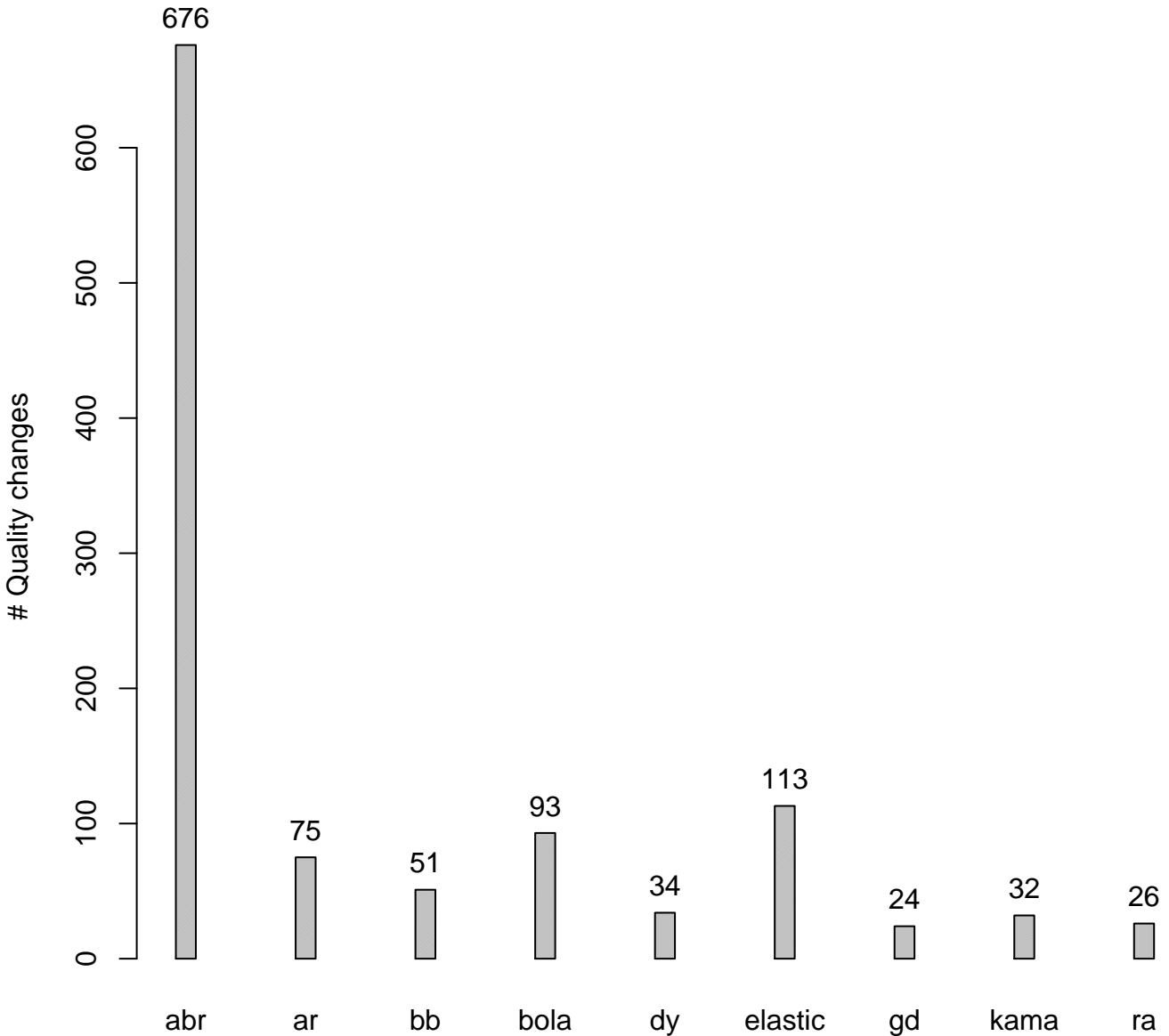**Buffer: 30/60   max: bb**

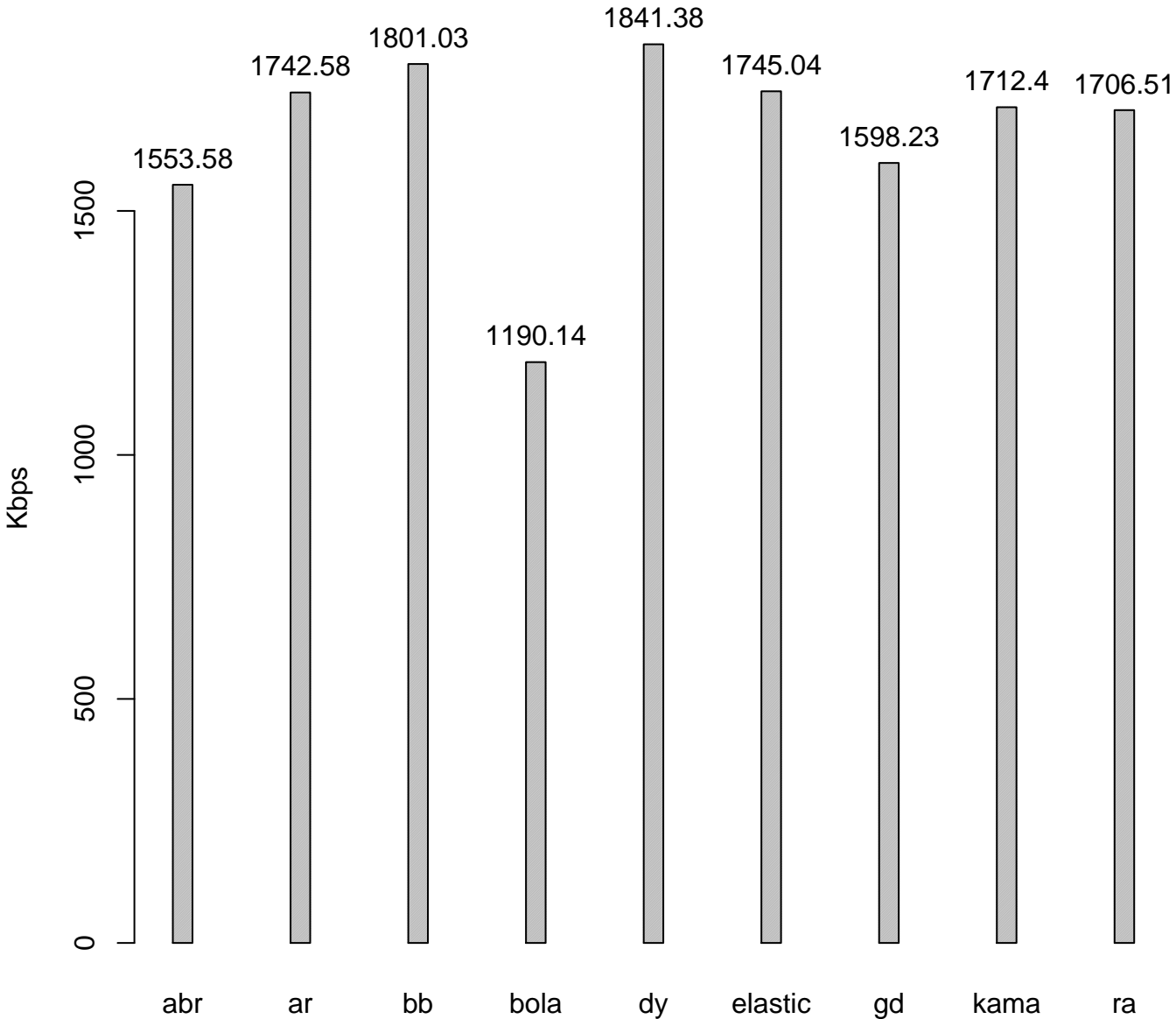**Network profile: p3 Sample: t6 Metric: Inefficiency**
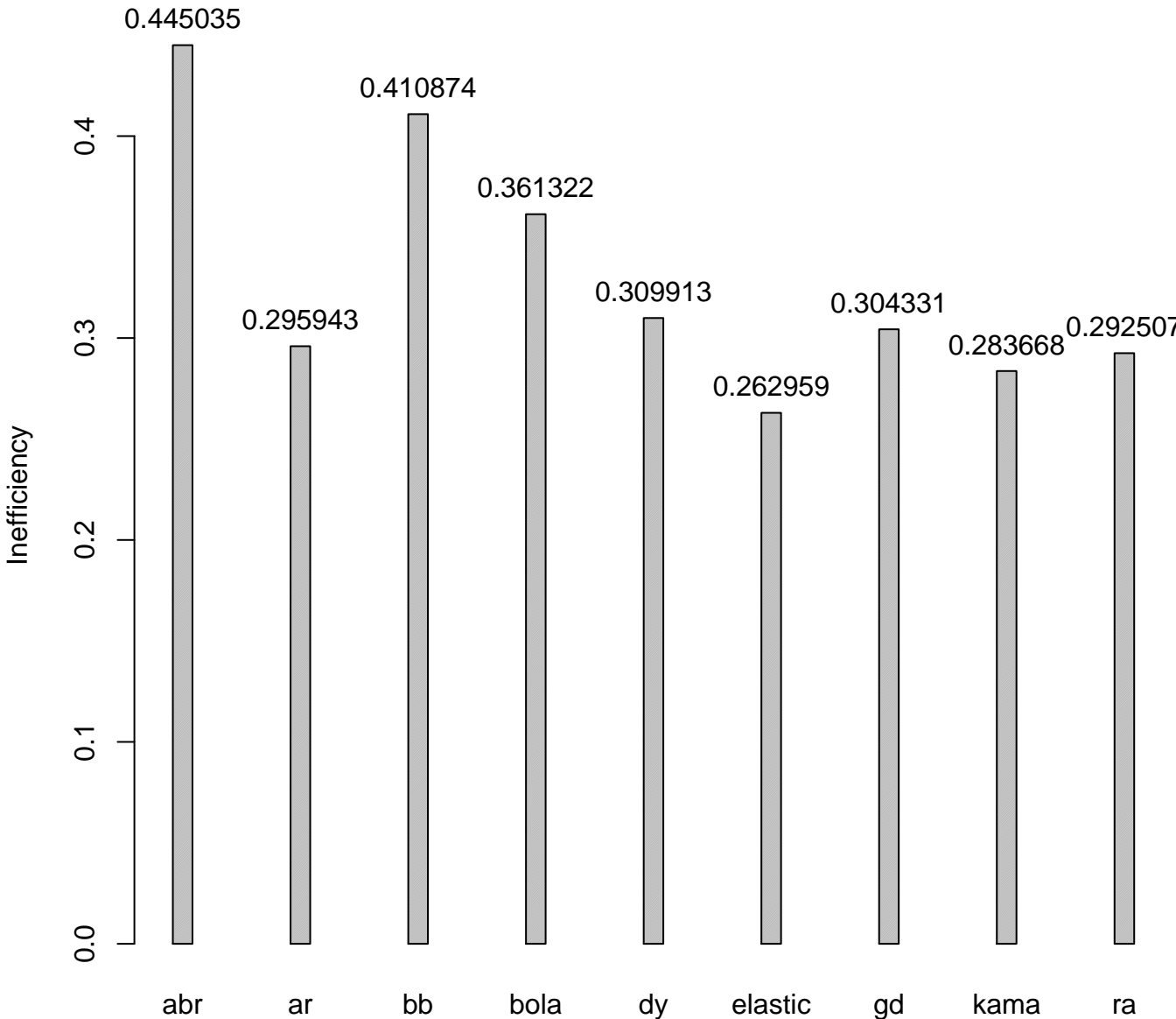**Buffer: 30/60   min: elastic**

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: dy

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

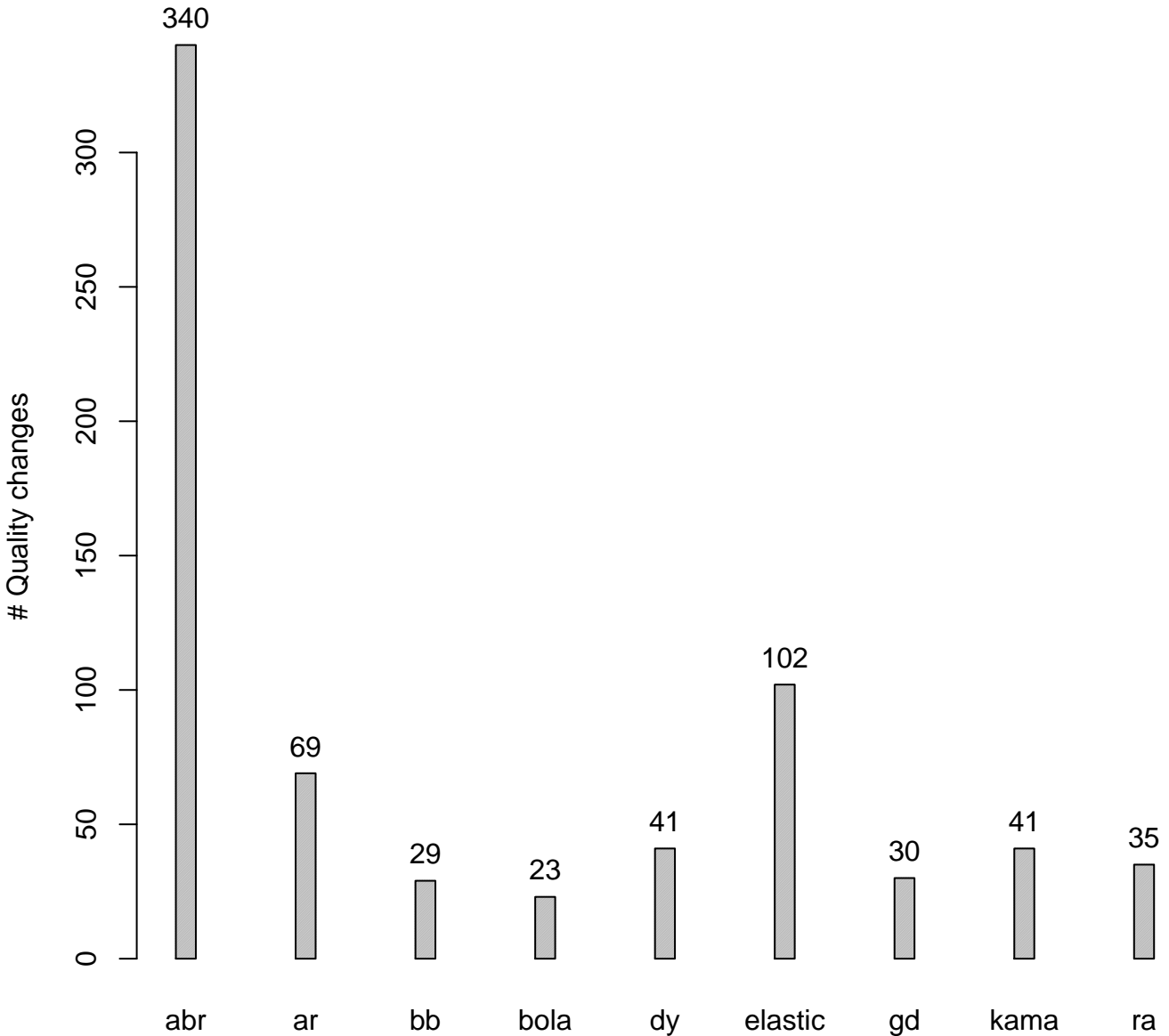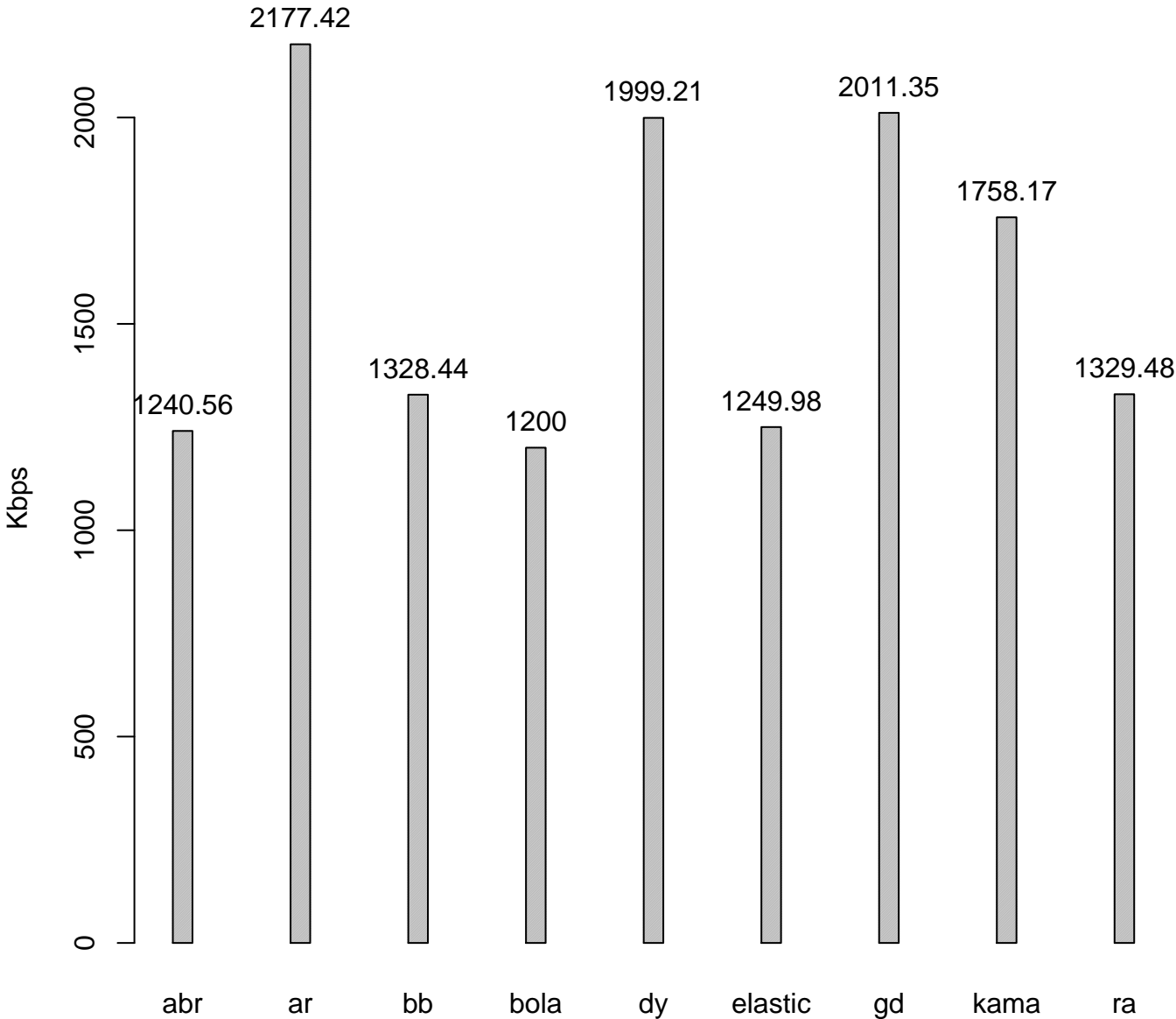**Network profile: p3 Sample: t7 Metric: # quality change**
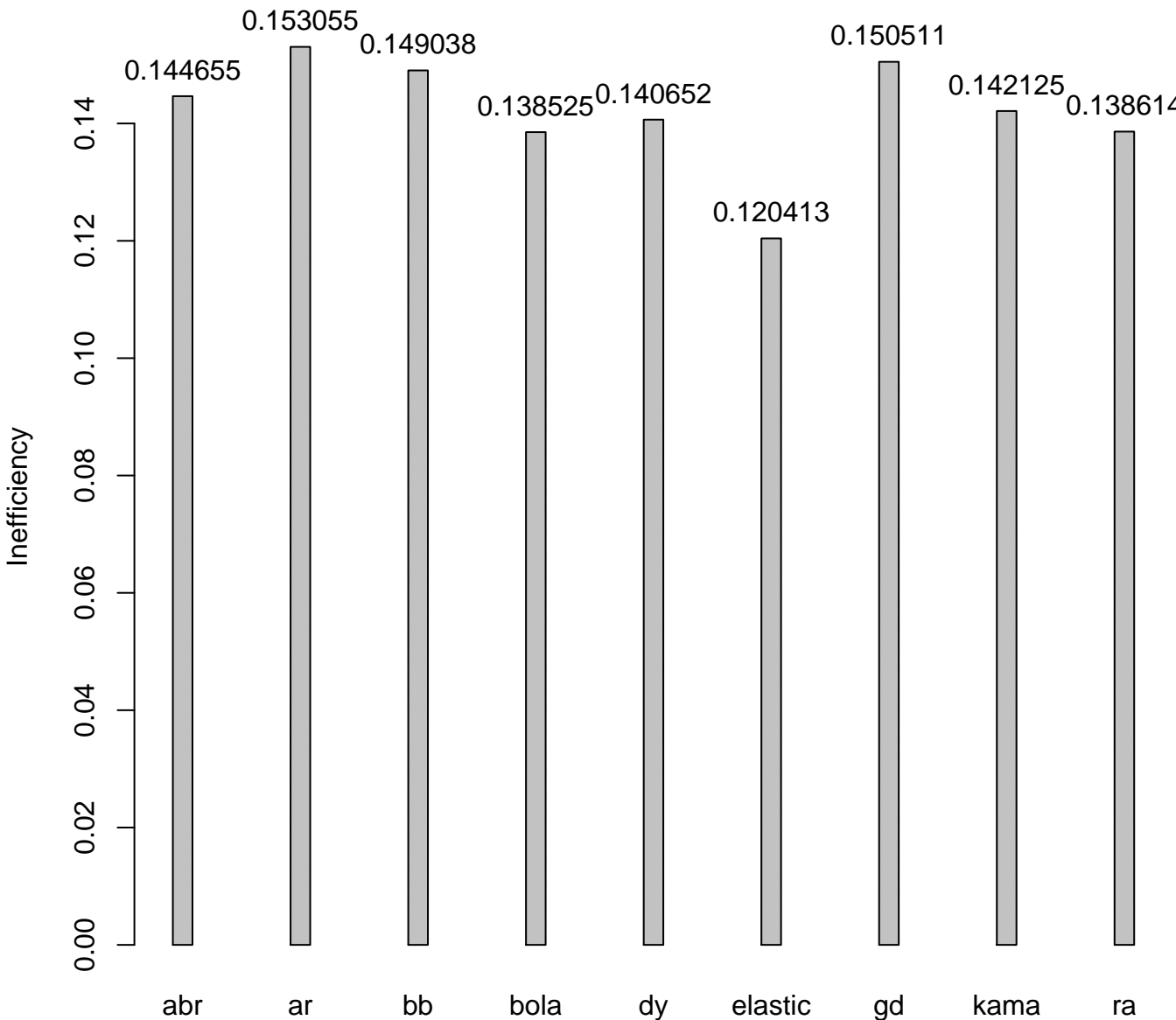**Buffer: 30/60   min: bola**

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

Inefficiency values by network profile:
- abr: 0.144655
- ar: 0.153055
- bb: 0.149038
- bola: 0.138525
- dy: 0.140652
- elastic: 0.120413
- gd: 0.150511
- kama: 0.142125
- ra: 0.138614

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

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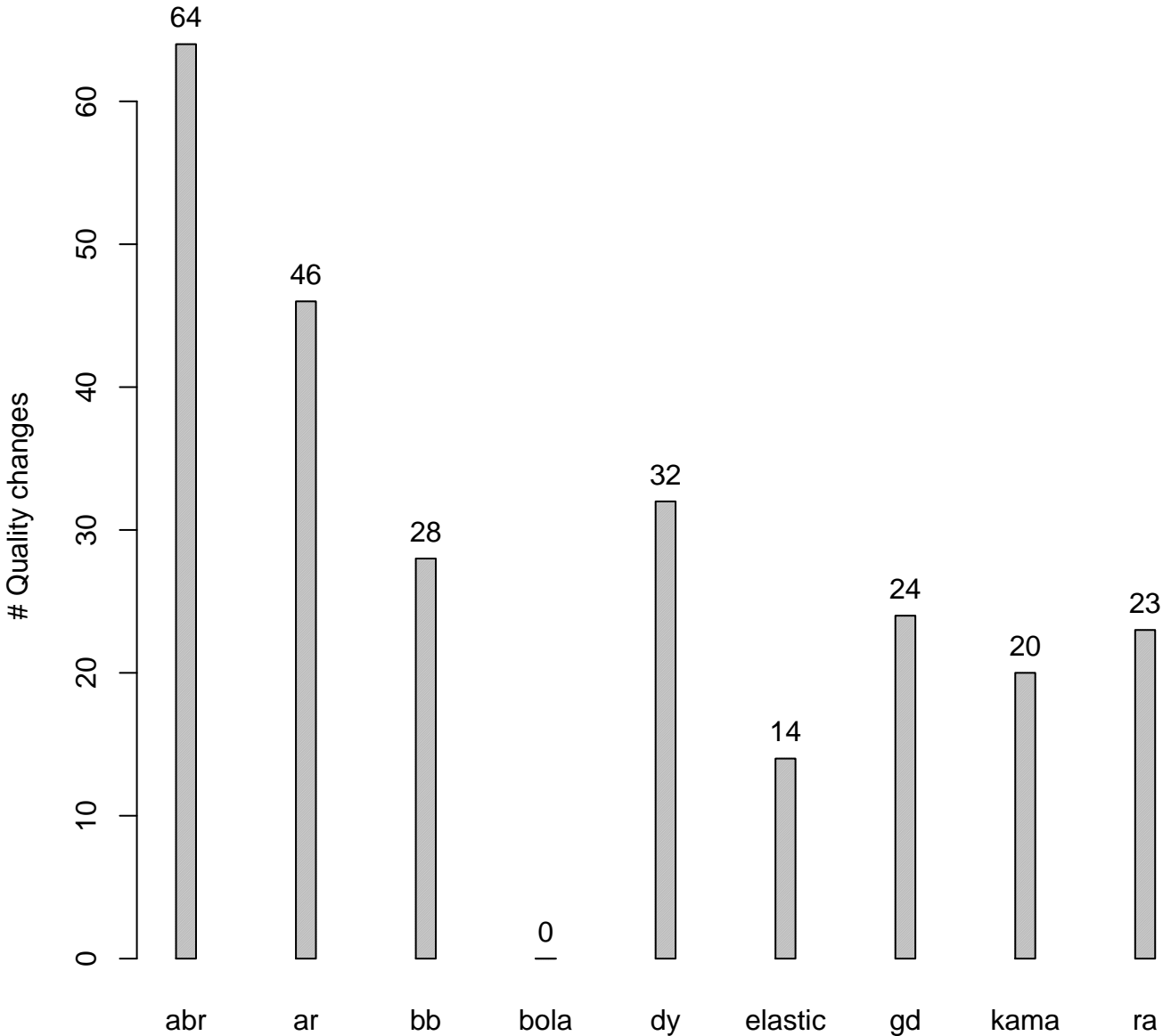**Buffer: 30/60   max: gd**

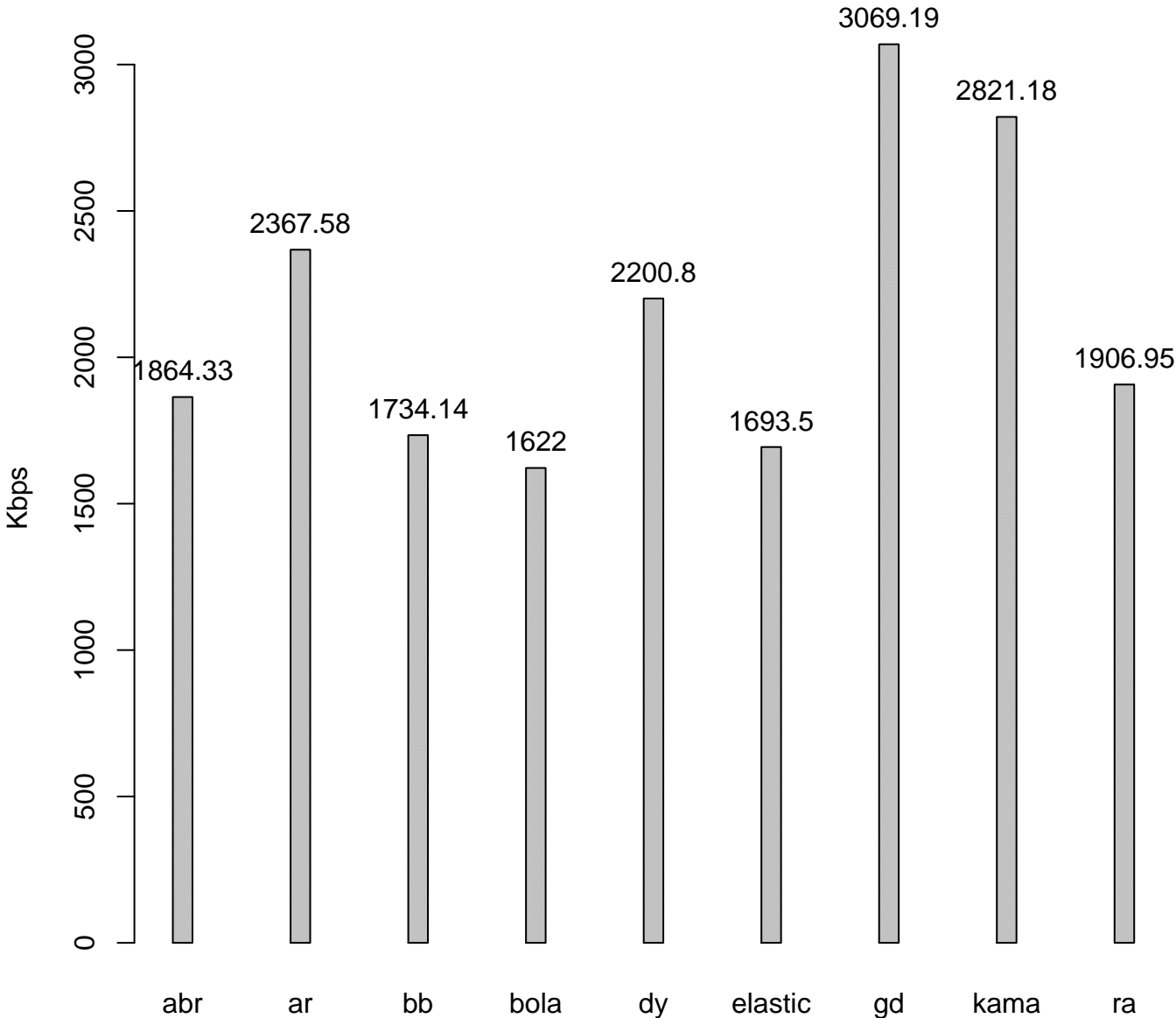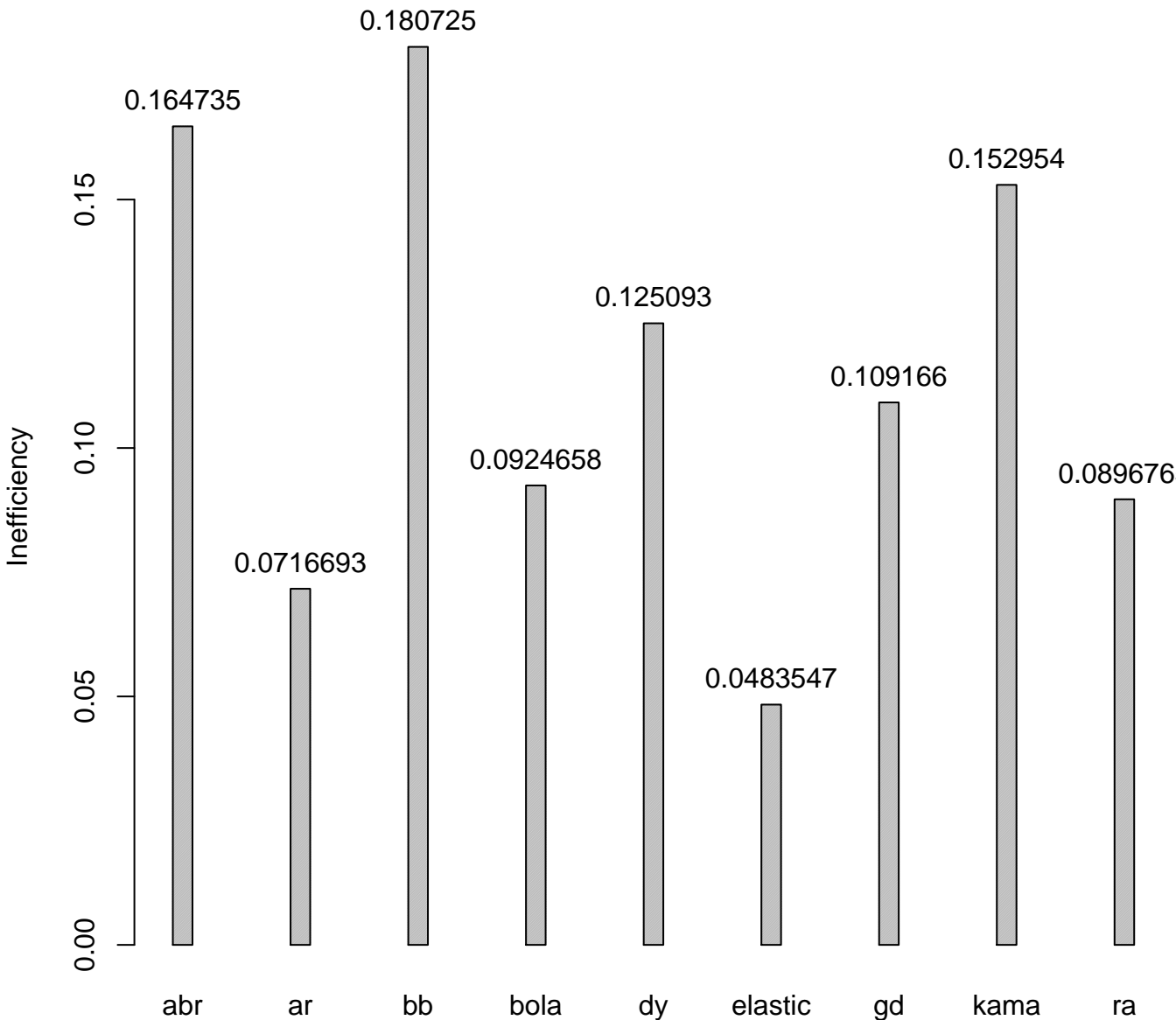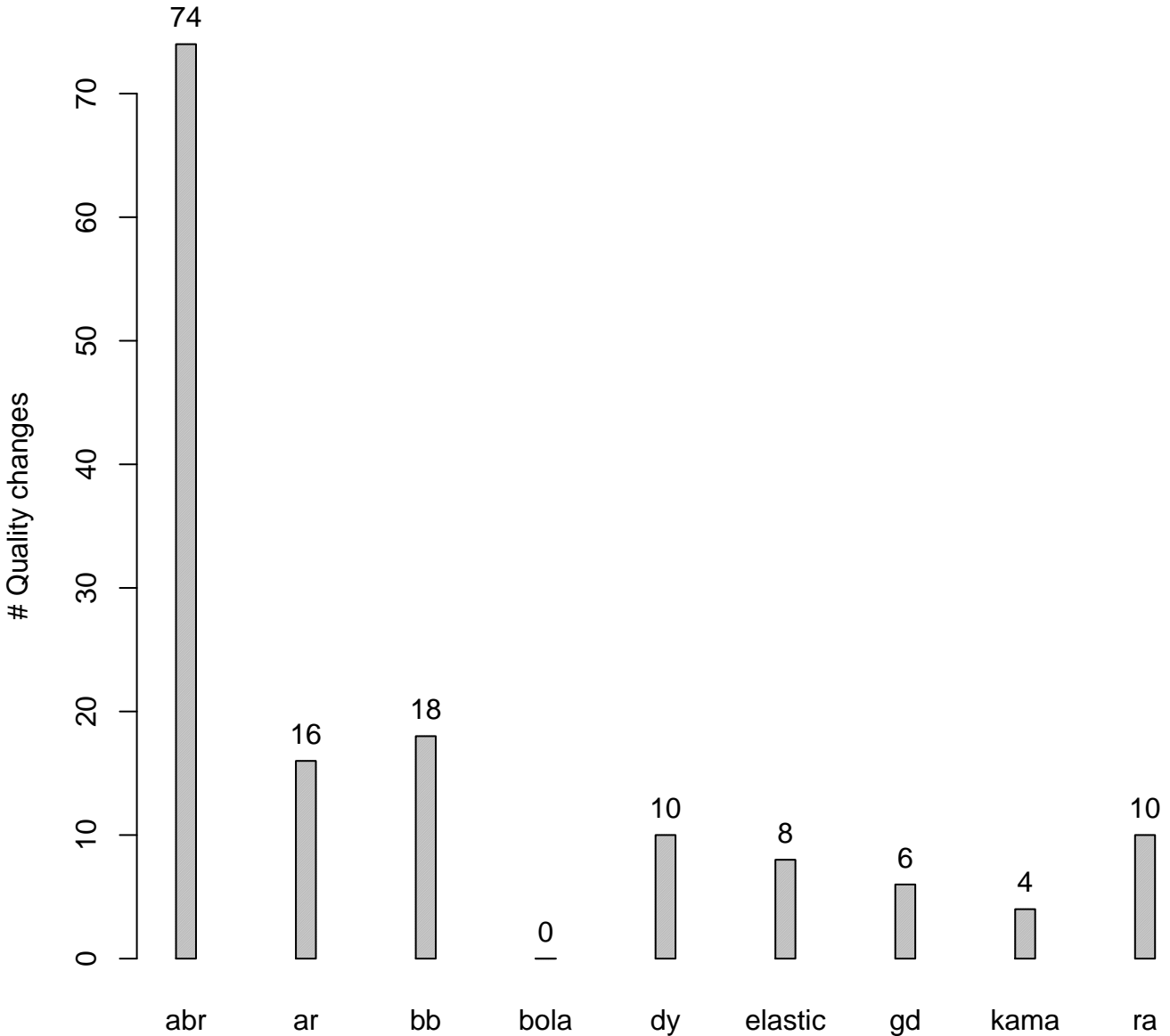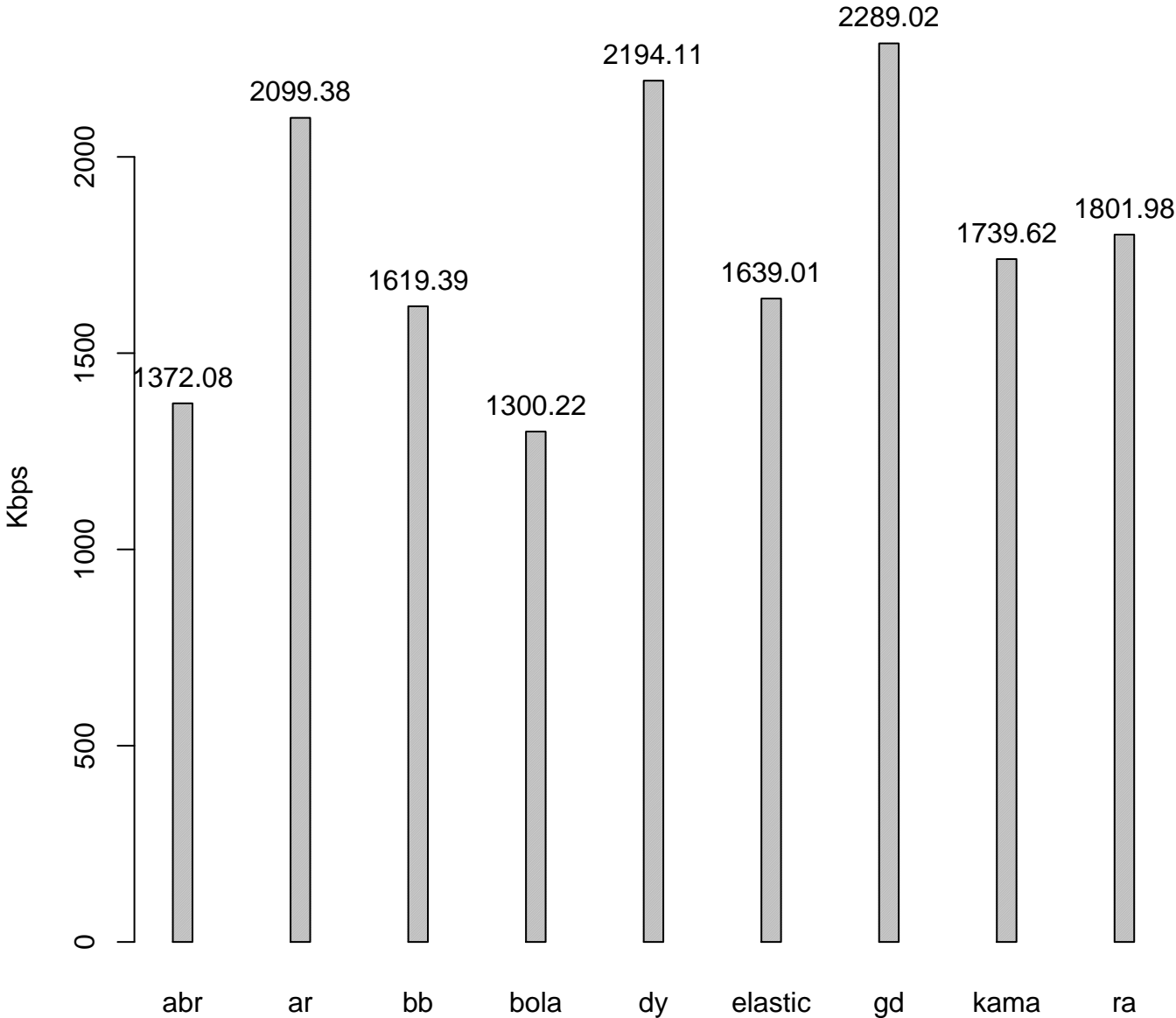**Network profile: p4 Sample: t2 Metric: Inefficiency**
Buffer: 30/60   min: elastic

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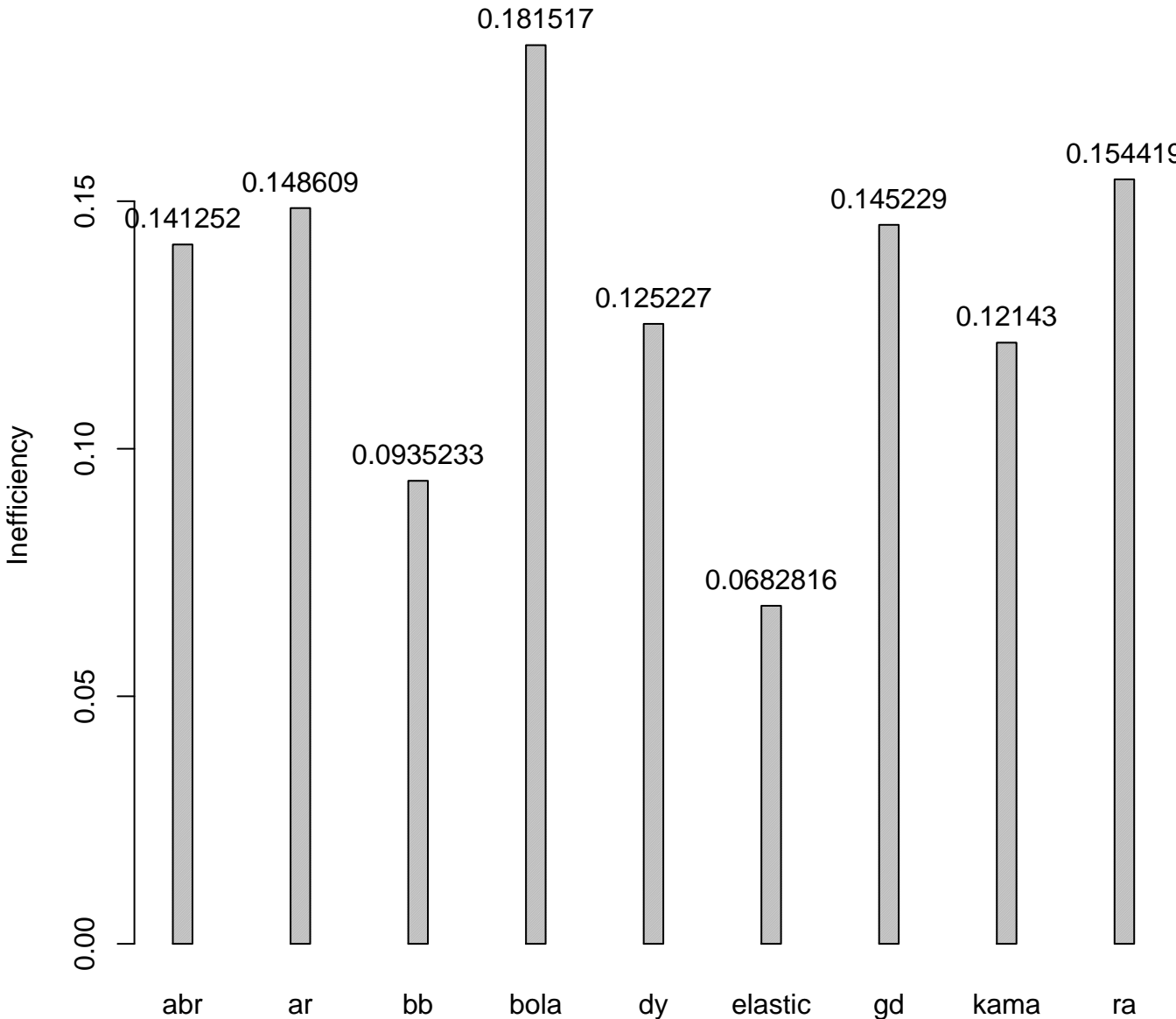**Buffer: 30/60   min: bola**

Network profile: p4 Sample: t3 Metric: Avg−Bitrate
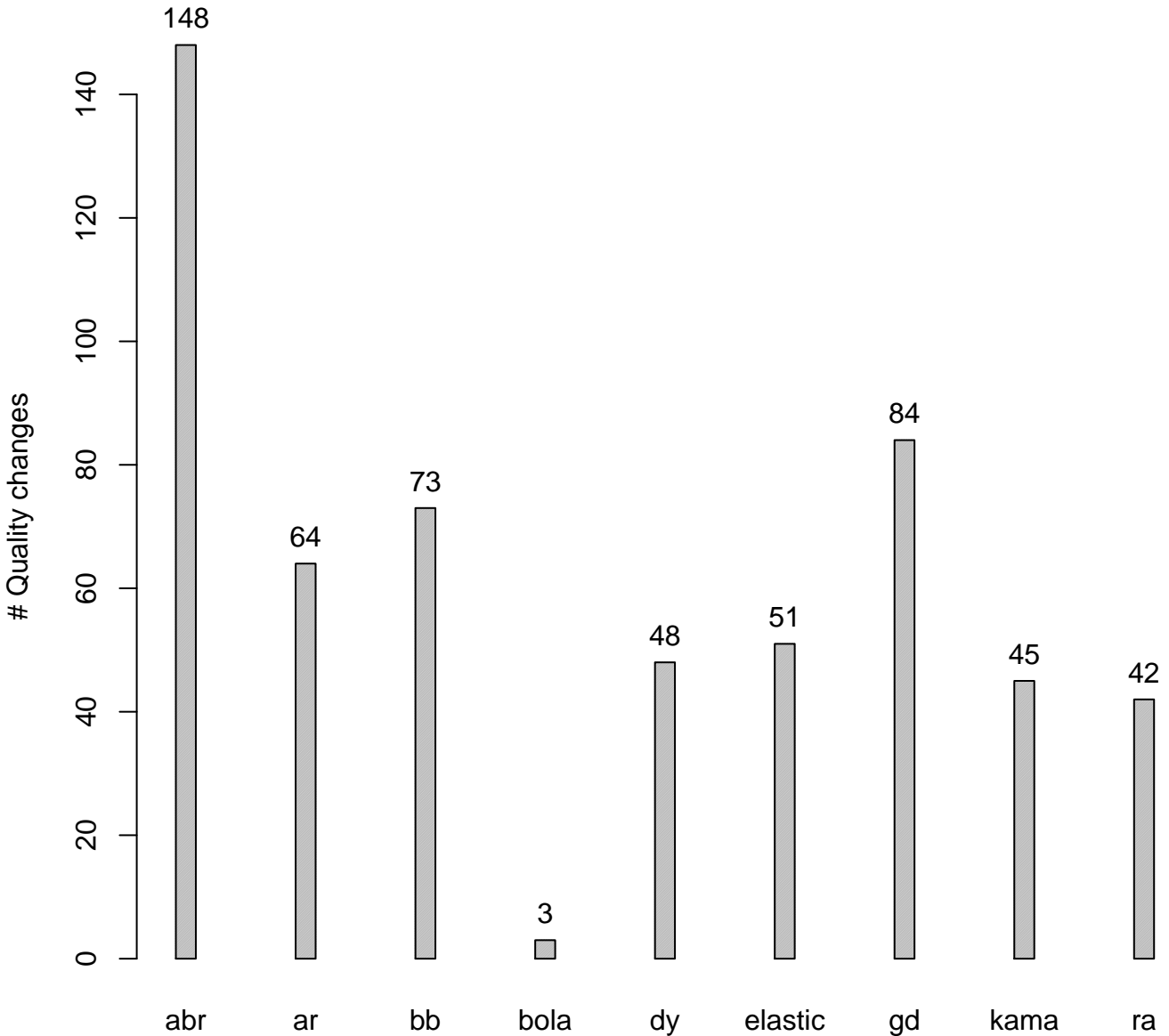**Buffer: 30/60   max: gd**

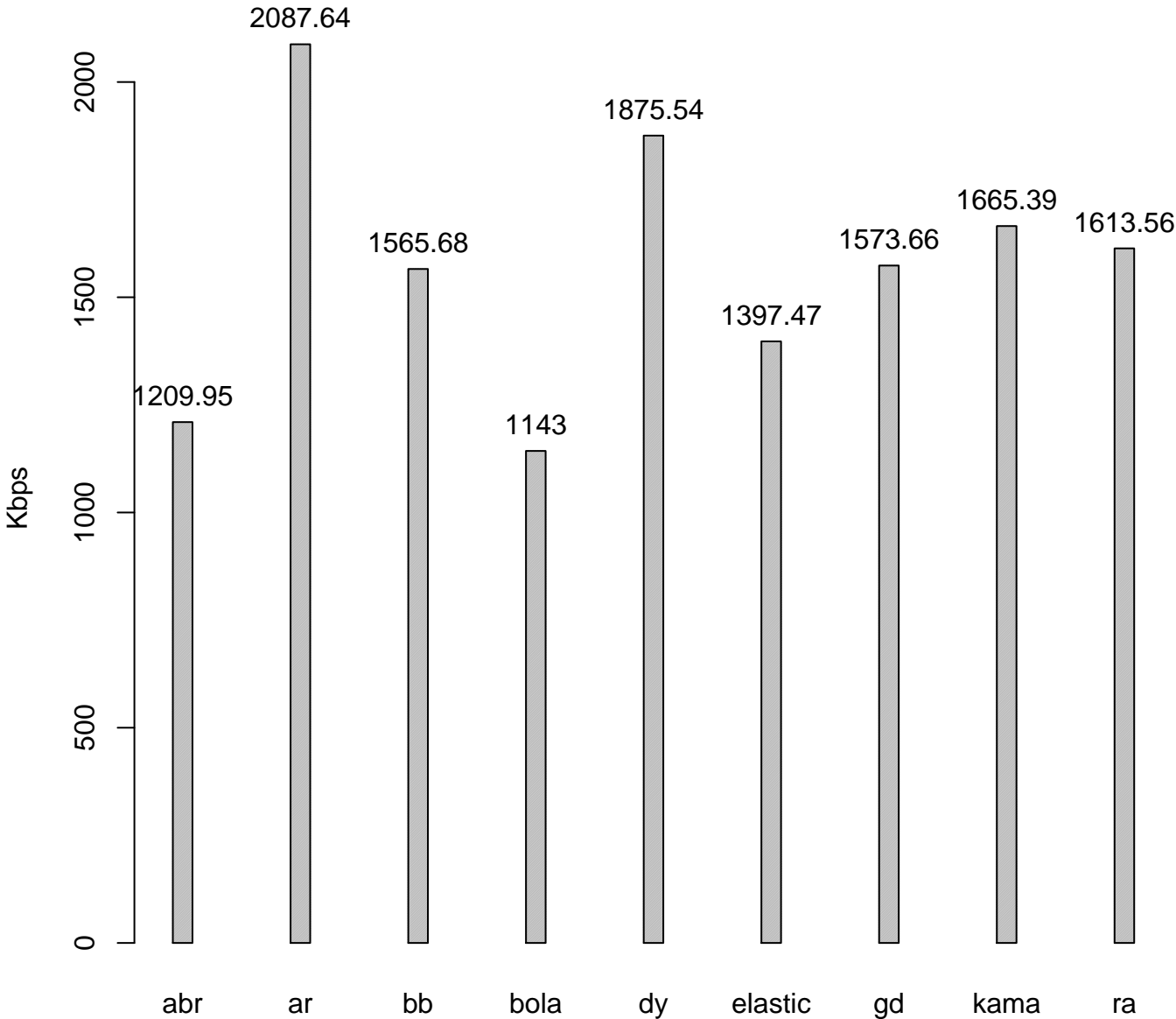**Network profile: p4 Sample: t3 Metric: Inefficiency**
Buffer: 30/60   min: elastic

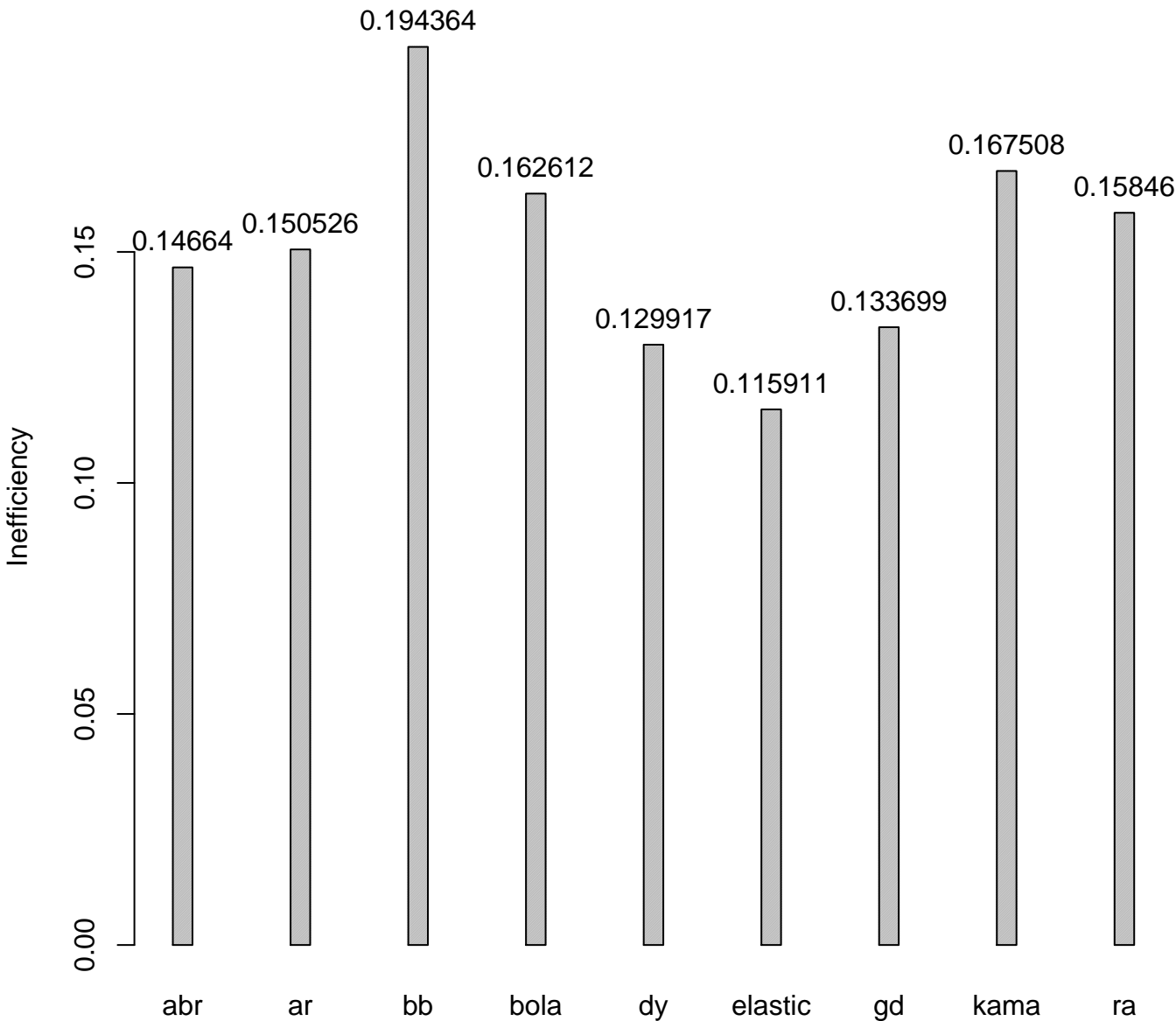**Network profile: p4 Sample: t3 Metric: # quality change**
Buffer: 30/60   min: bola

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

Inefficiency

0.14664   0.150526   0.194364   0.162612   0.129917   0.115911   0.133699   0.167508   0.15846

abr   ar   bb   bola   dy   elastic   gd   kama   ra

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

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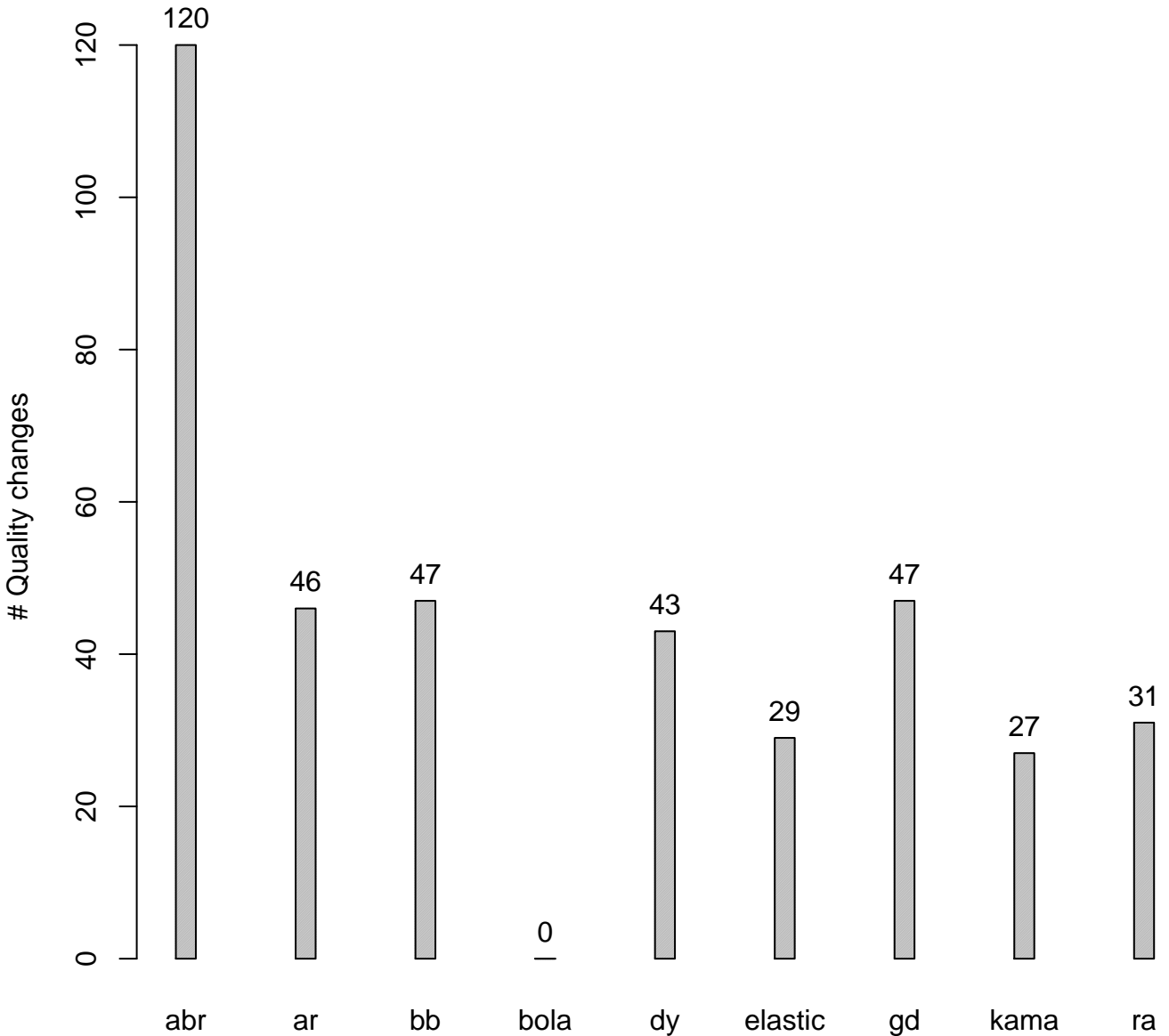**Buffer: 30/60   max: gd**

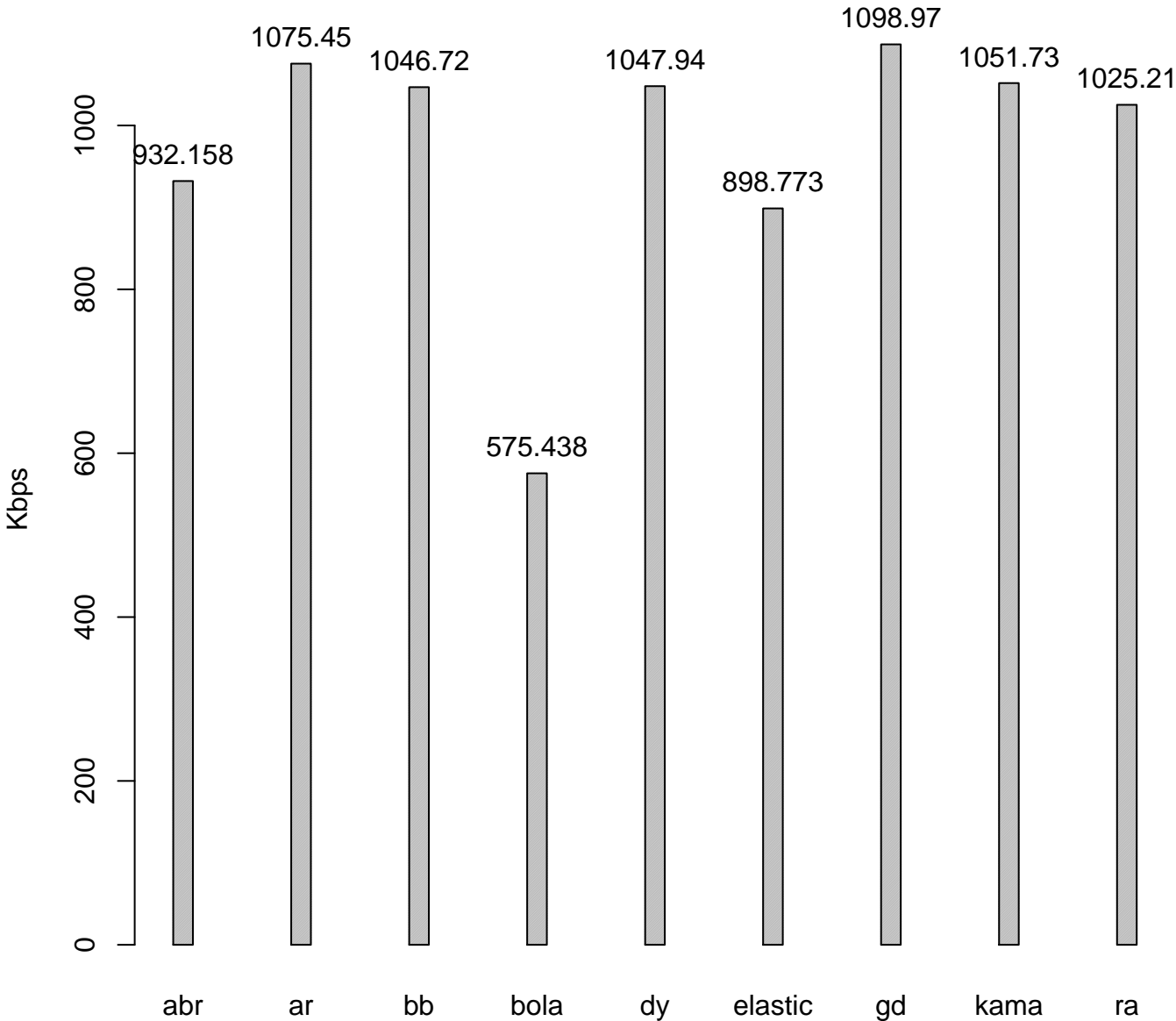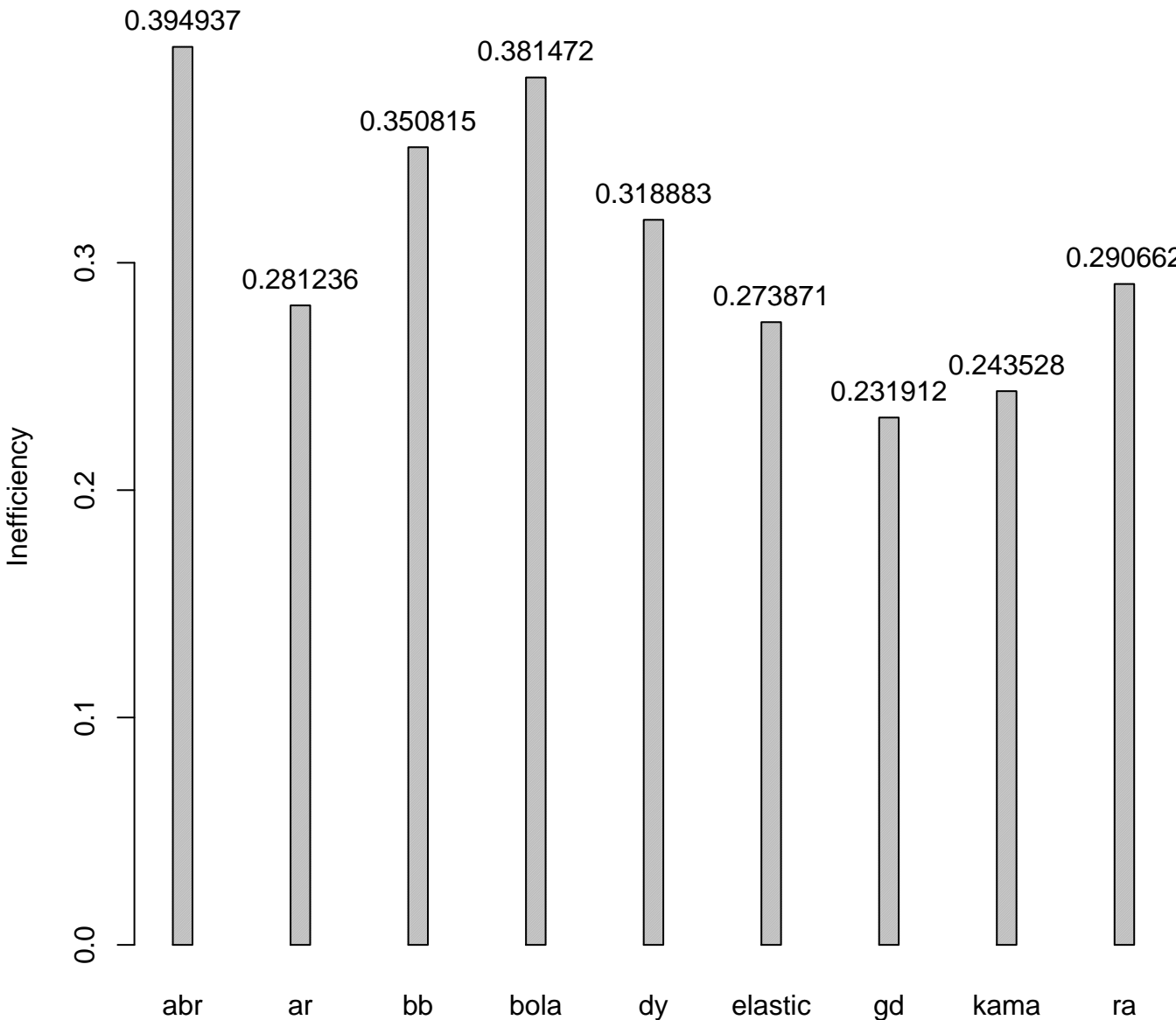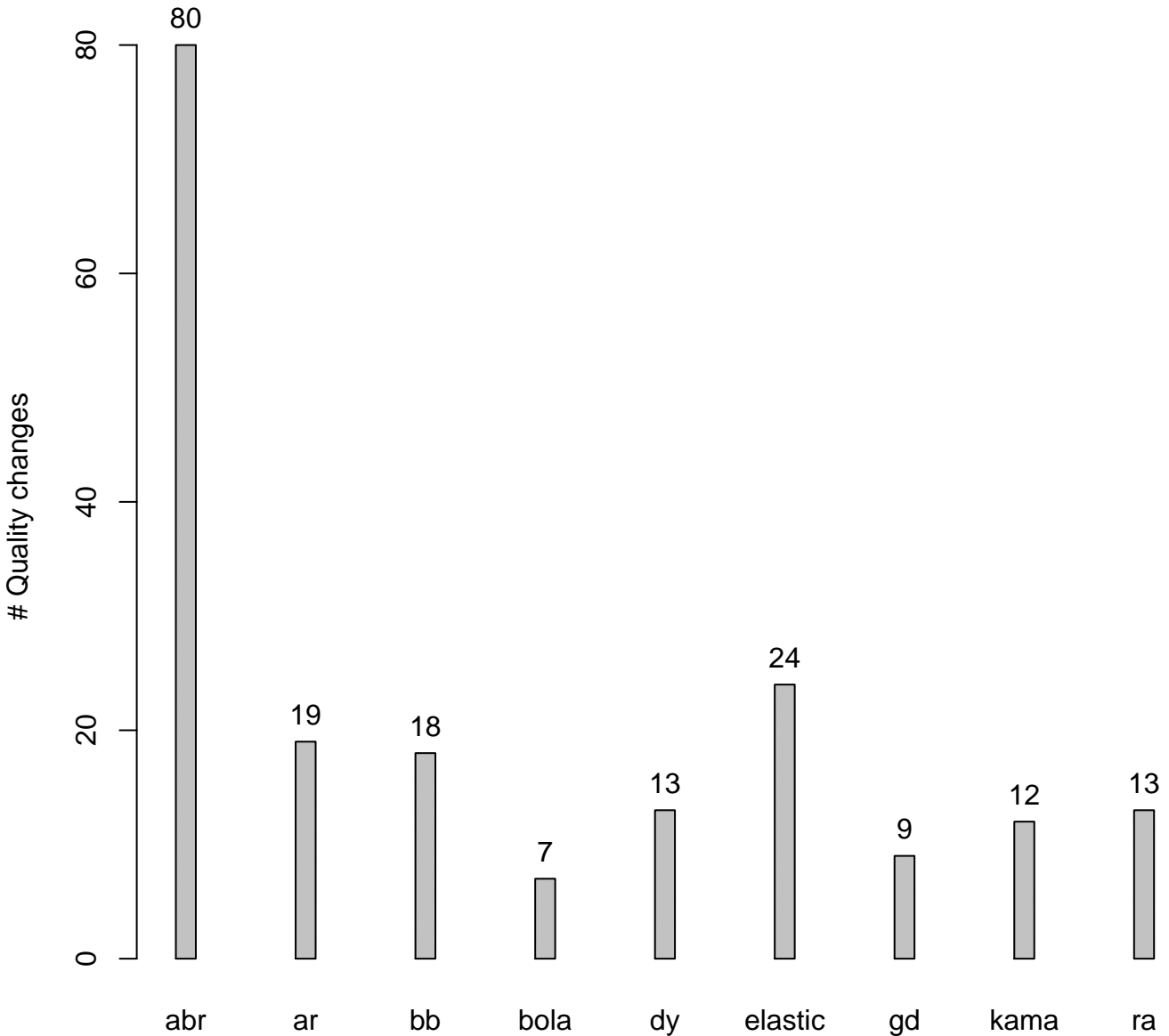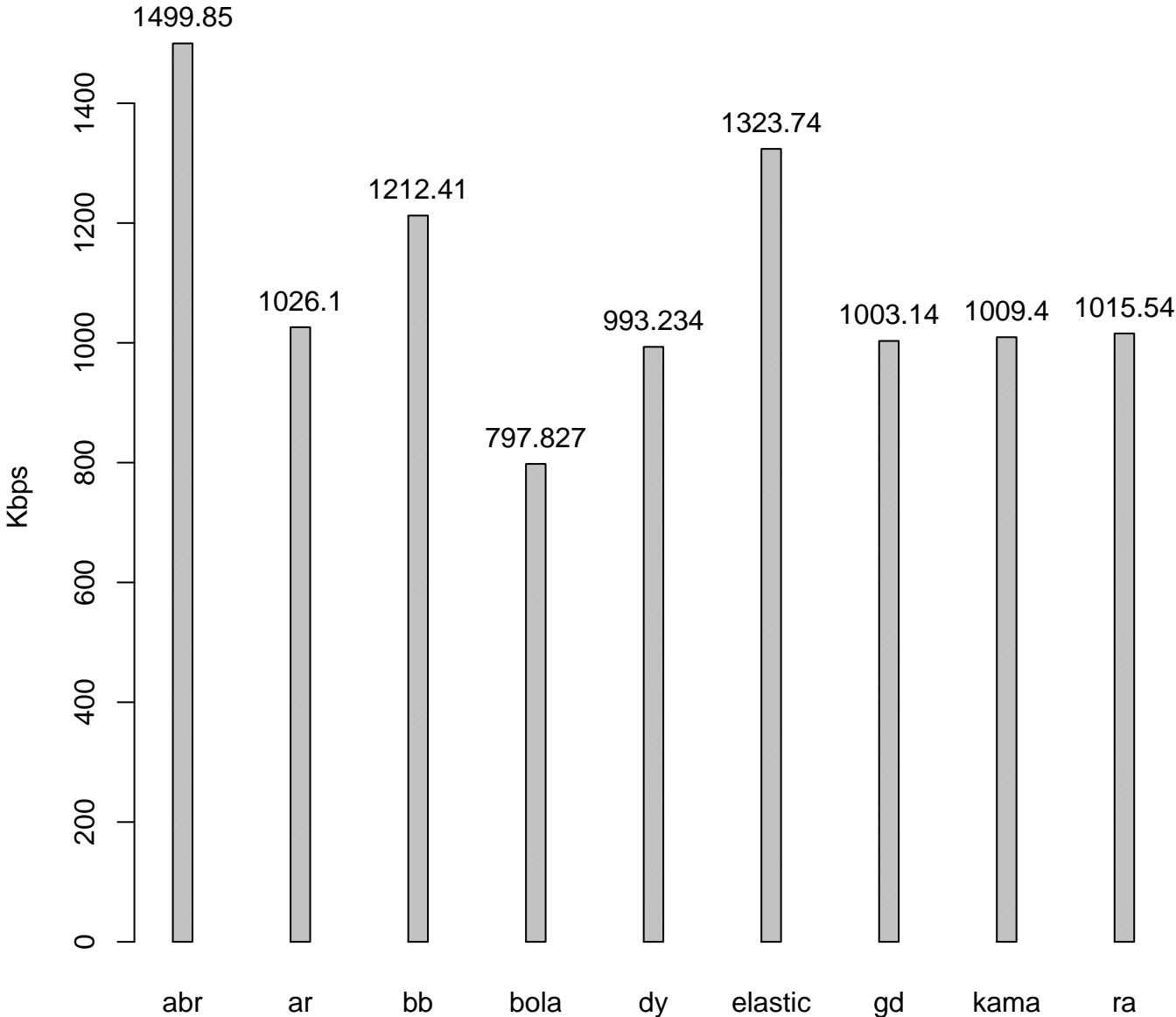**Network profile: p4 Sample: t5 Metric: Inefficiency**
Buffer: 30/60   min: gd

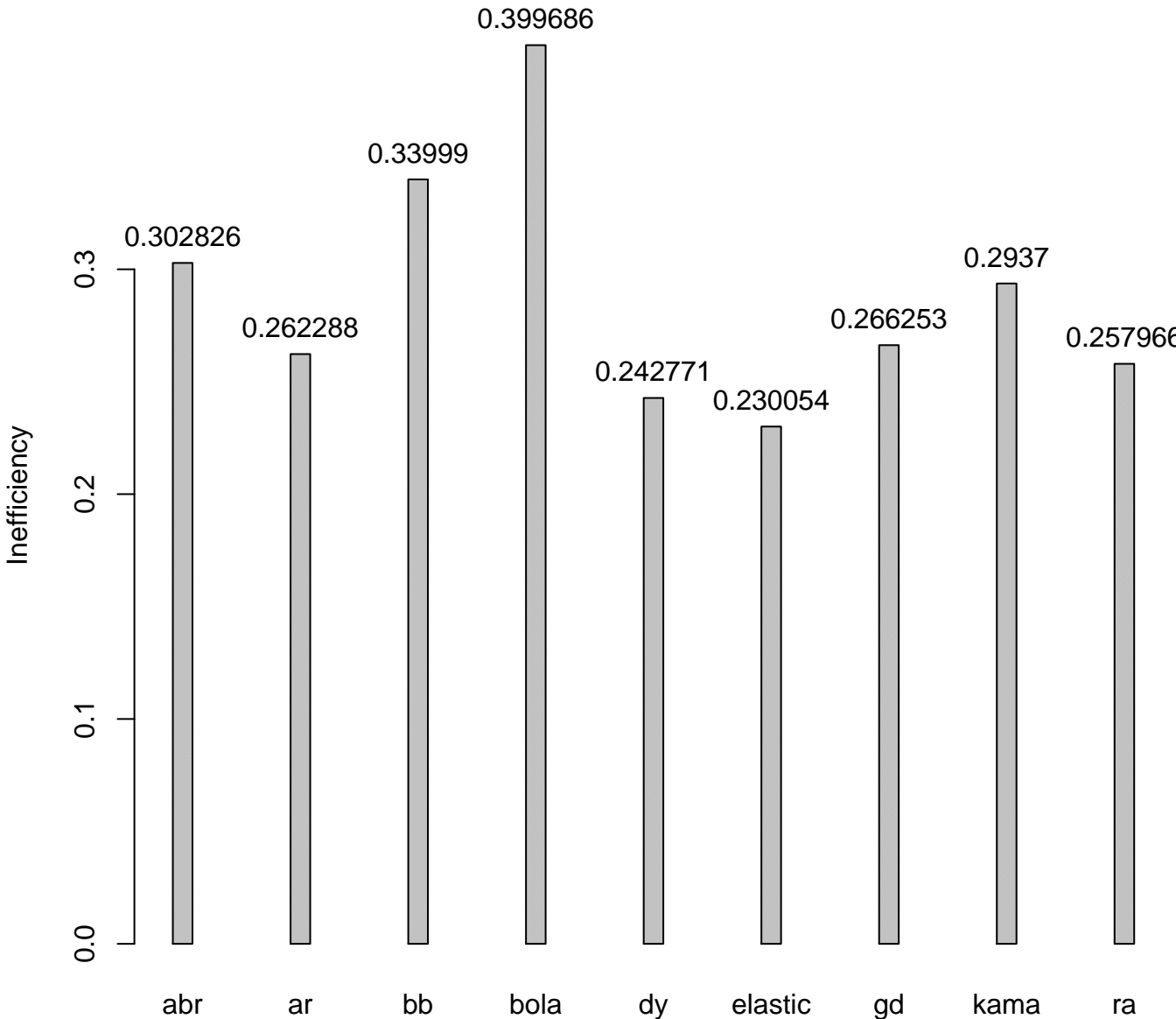**Network profile: p4 Sample: t5 Metric: # quality change**
Buffer: 30/60   min: bola

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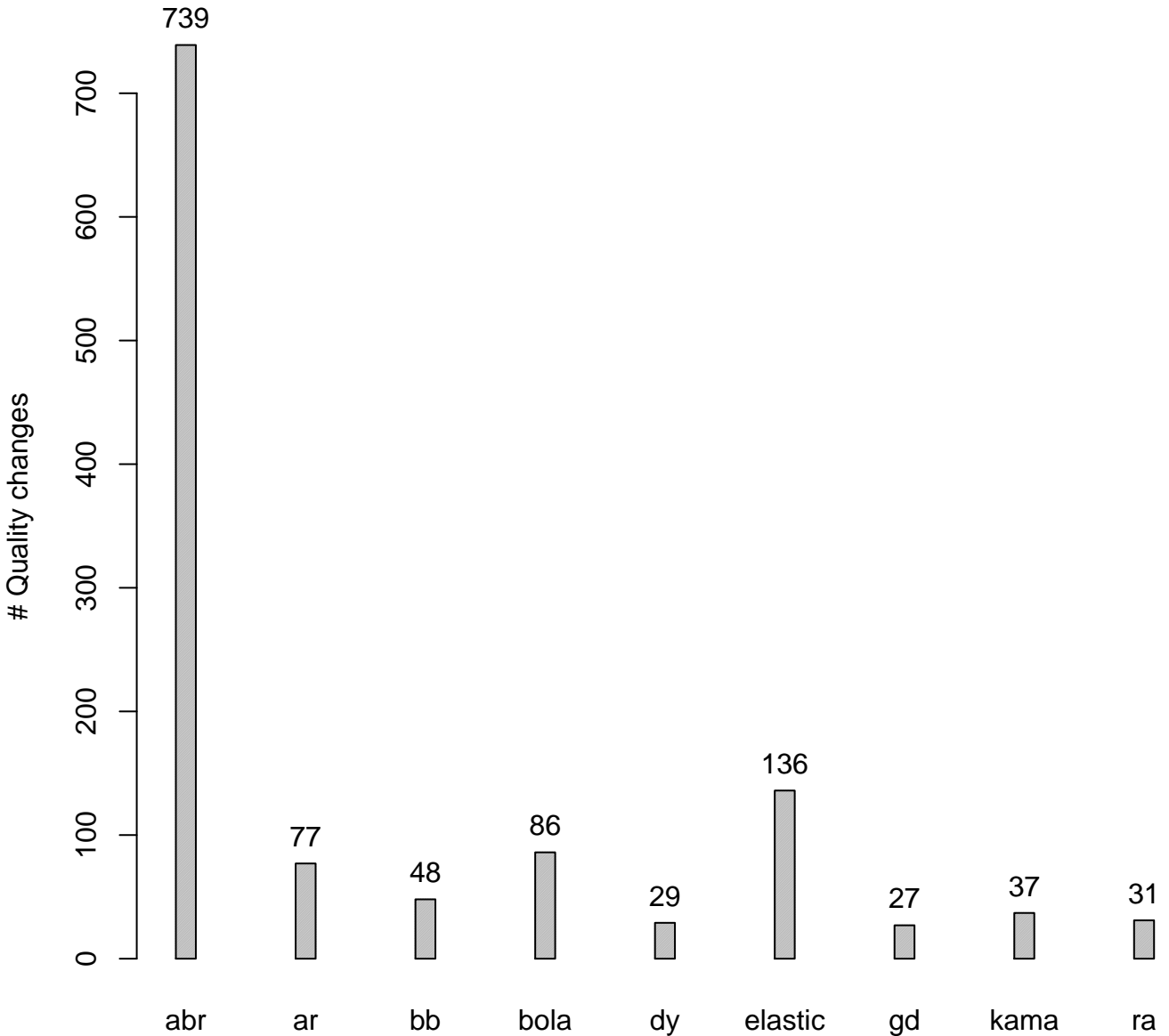**Buffer: 30/60 max: abr**

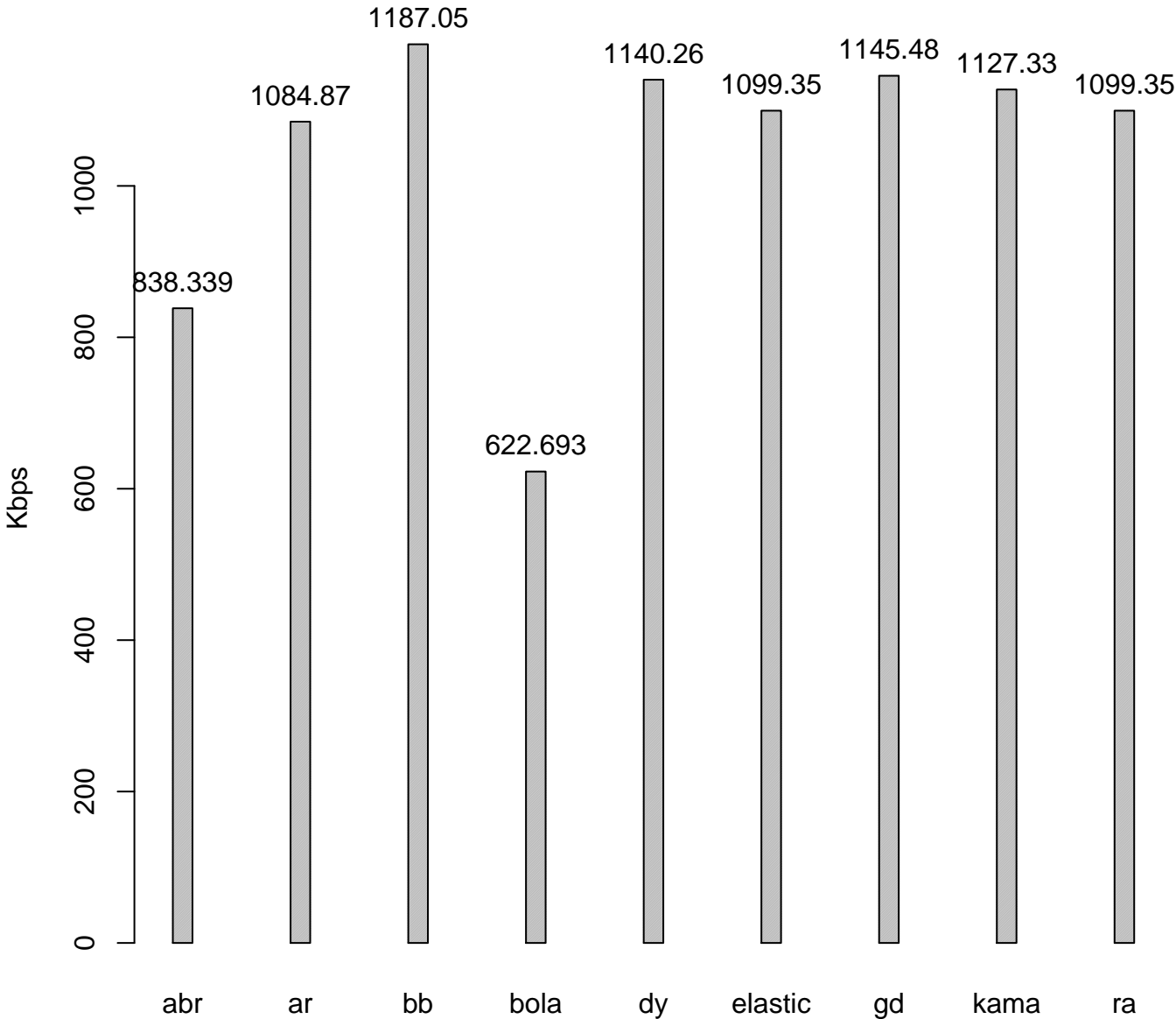**Network profile: p4 Sample: t6 Metric: Inefficiency**
Buffer: 30/60   min: elastic

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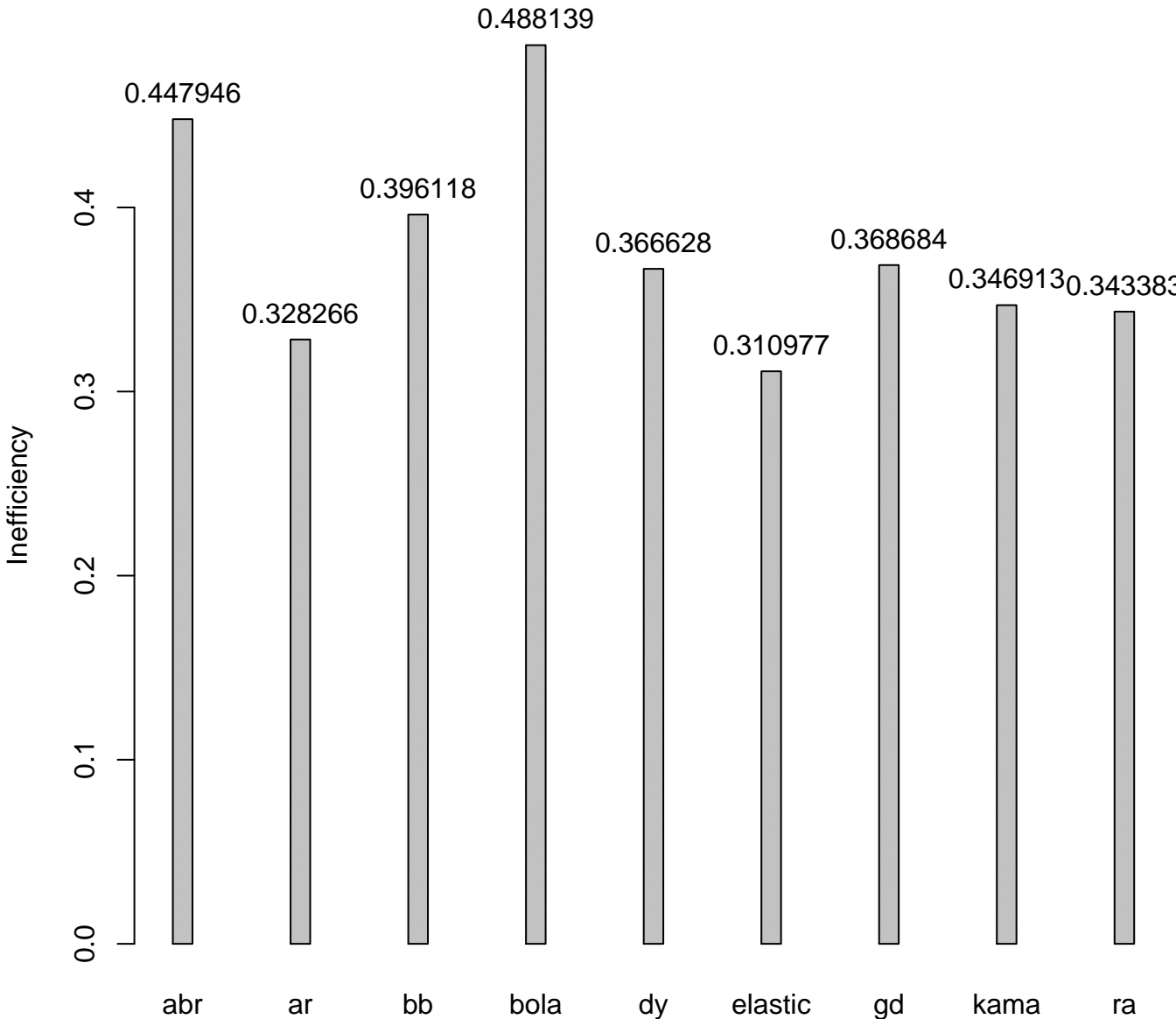**Buffer: 30/60   min: gd**

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