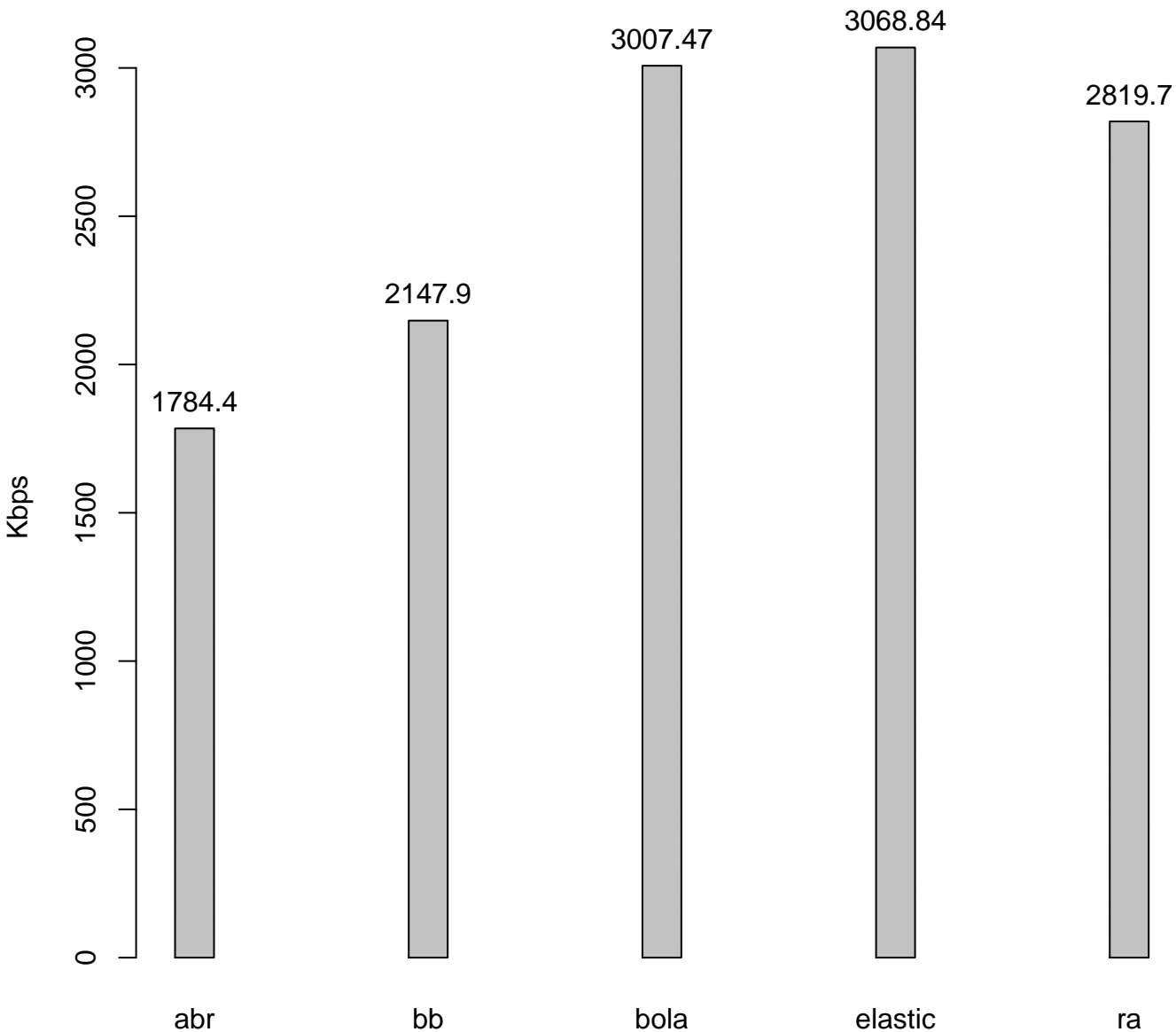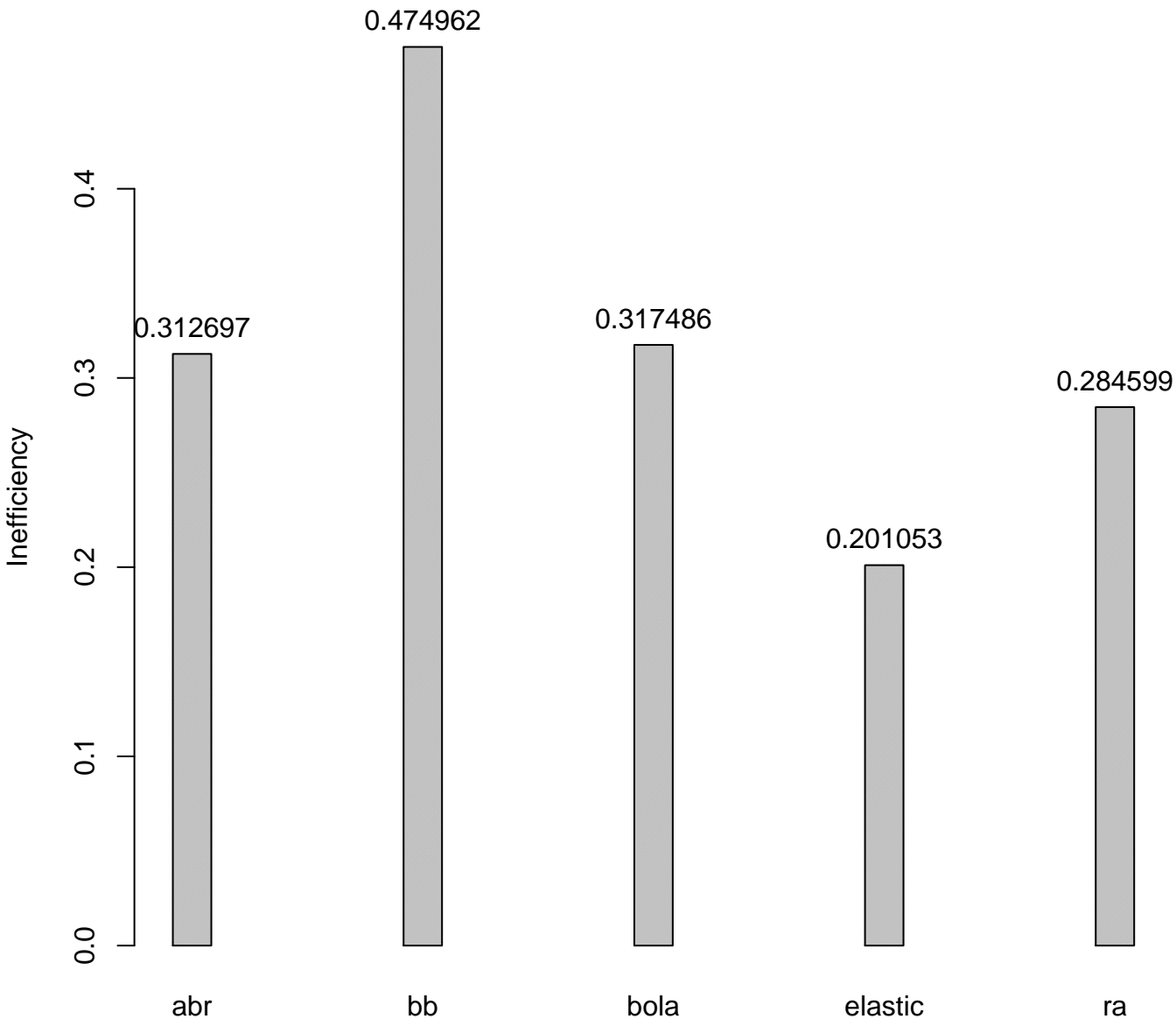**Network profile: p1 Sample: t1 Metric: Avg−Bitrate**
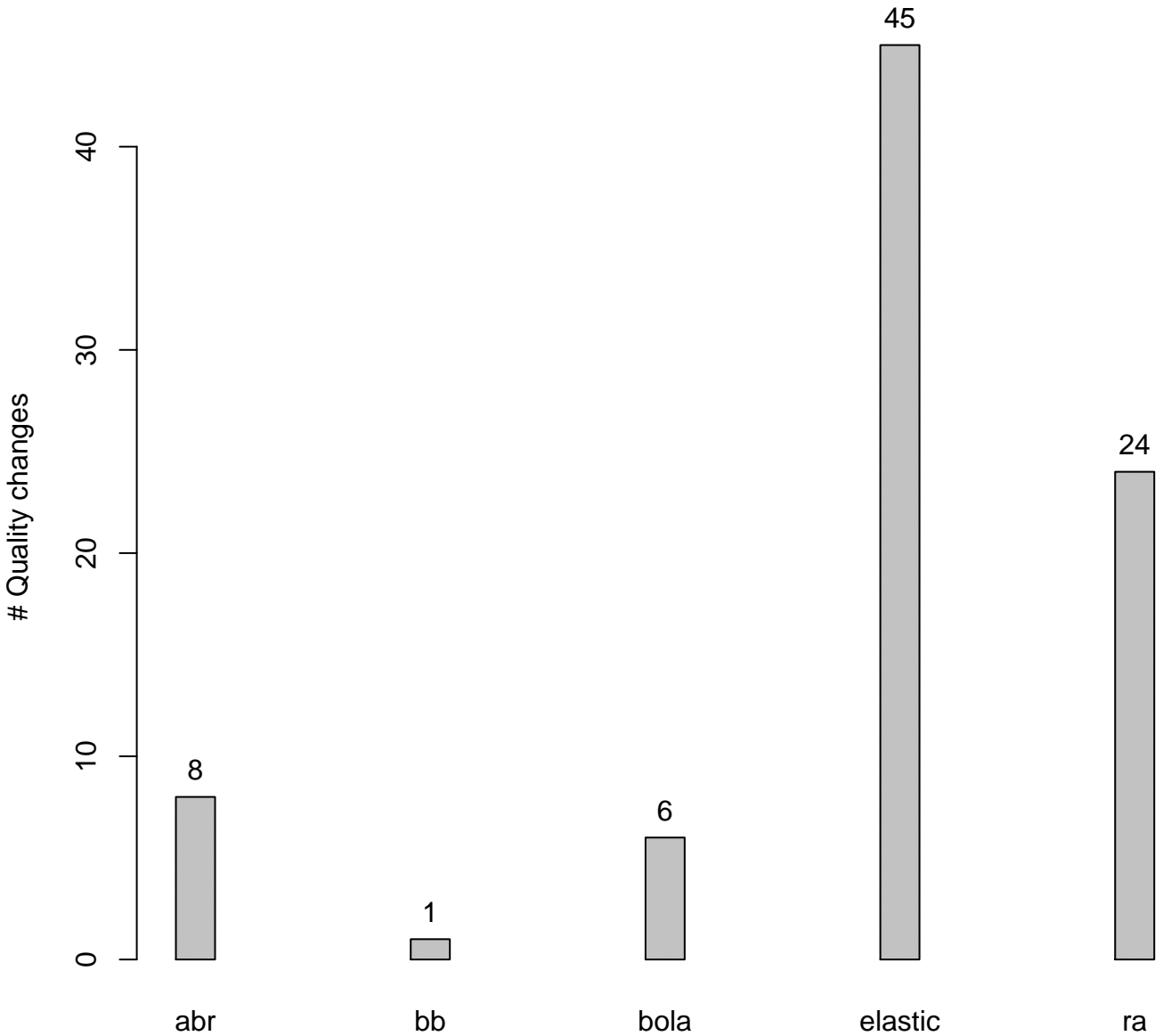**Buffer: 240 max: elastic**

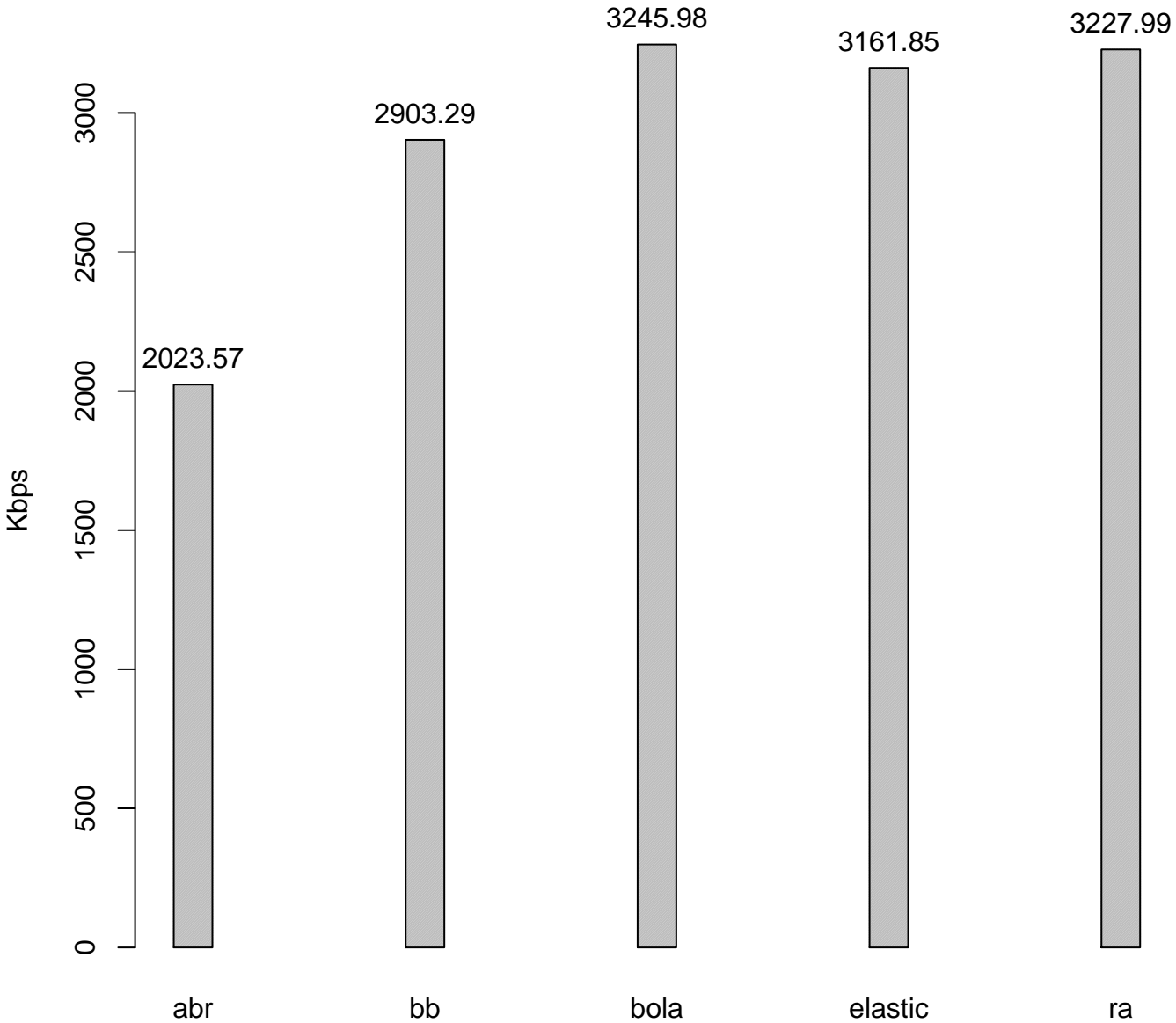**Network profile: p1 Sample: t1 Metric: Inefficiency**
Buffer: 240 min: elastic

Network profile: p1 Sample: t1 Metric: # quality change
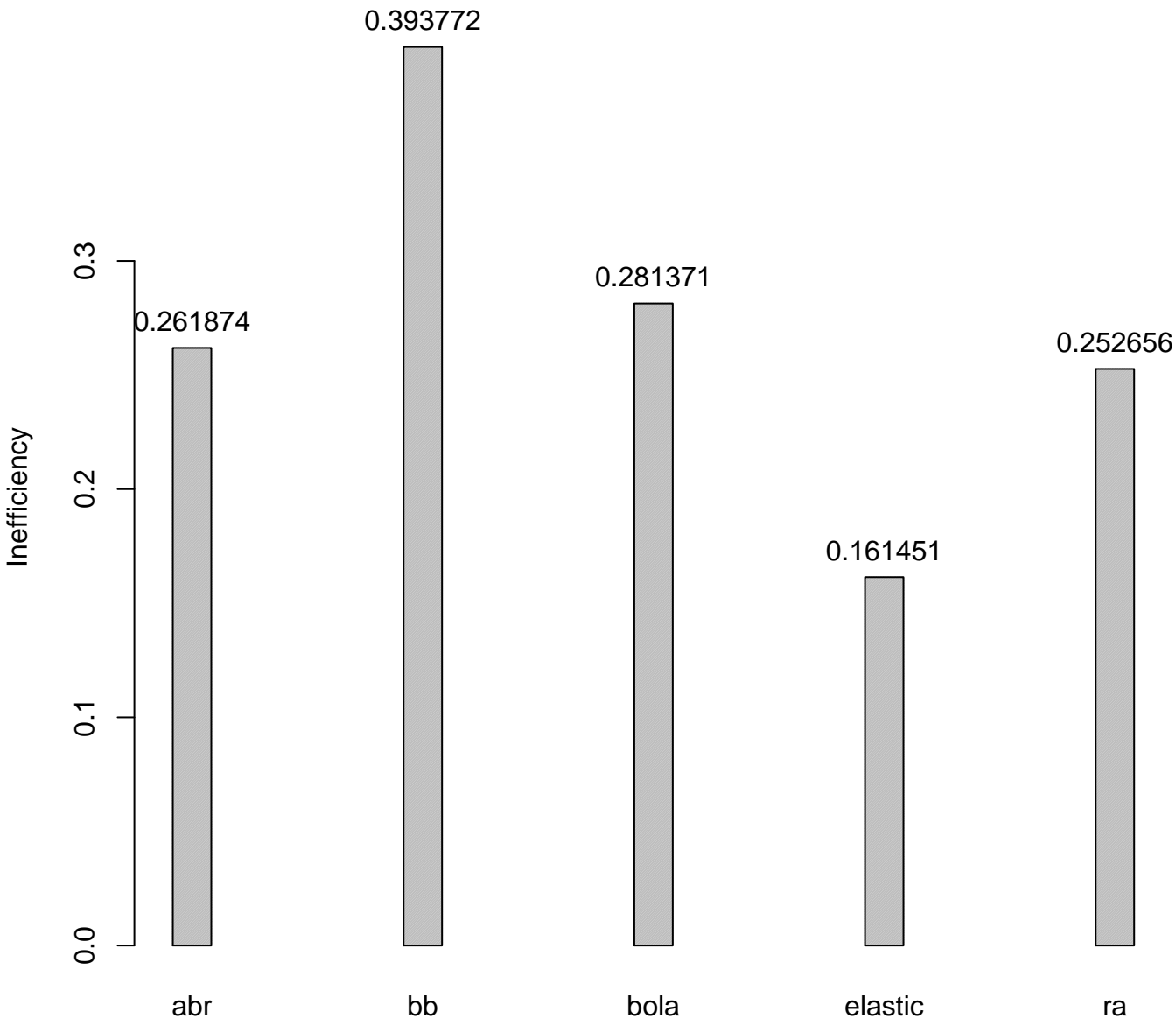**Buffer: 240 min: bb**

Network profile: p1 Sample: t2 Metric: Avg−Bitrate
Buffer: 240   max: bola

Network profile: p1 Sample: t2 Metric: Inefficiency
Buffer: 240 min: elastic

Inefficiency

0.261874

0.393772

0.281371

0.161451

0.252656

abr   bb   bola   elastic   ra

Network profile: p1 Sample: t2 Metric: # quality change
Buffer: 240 min: bb

Network profile: p1 Sample: t3 Metric: Avg−Bitrate
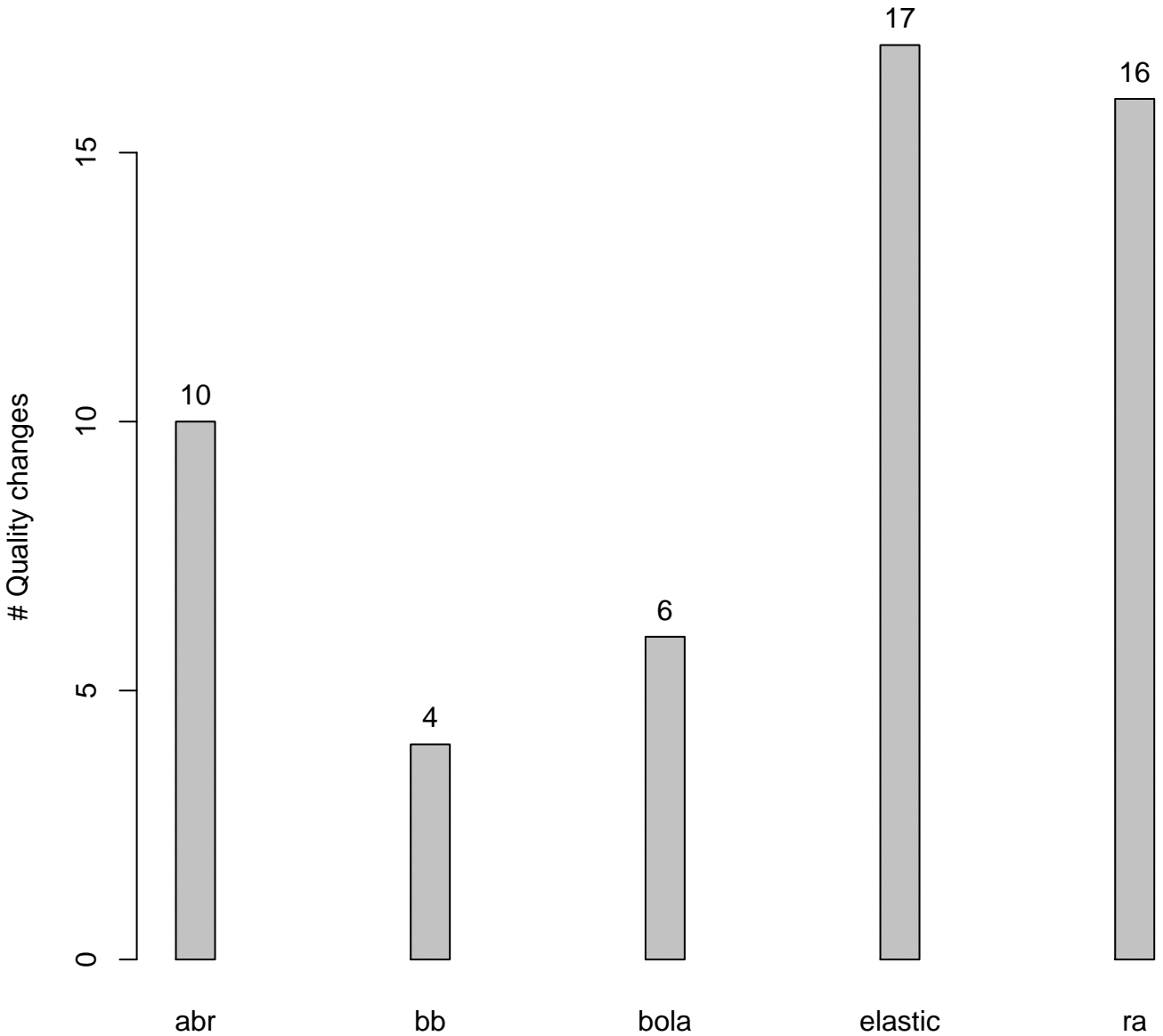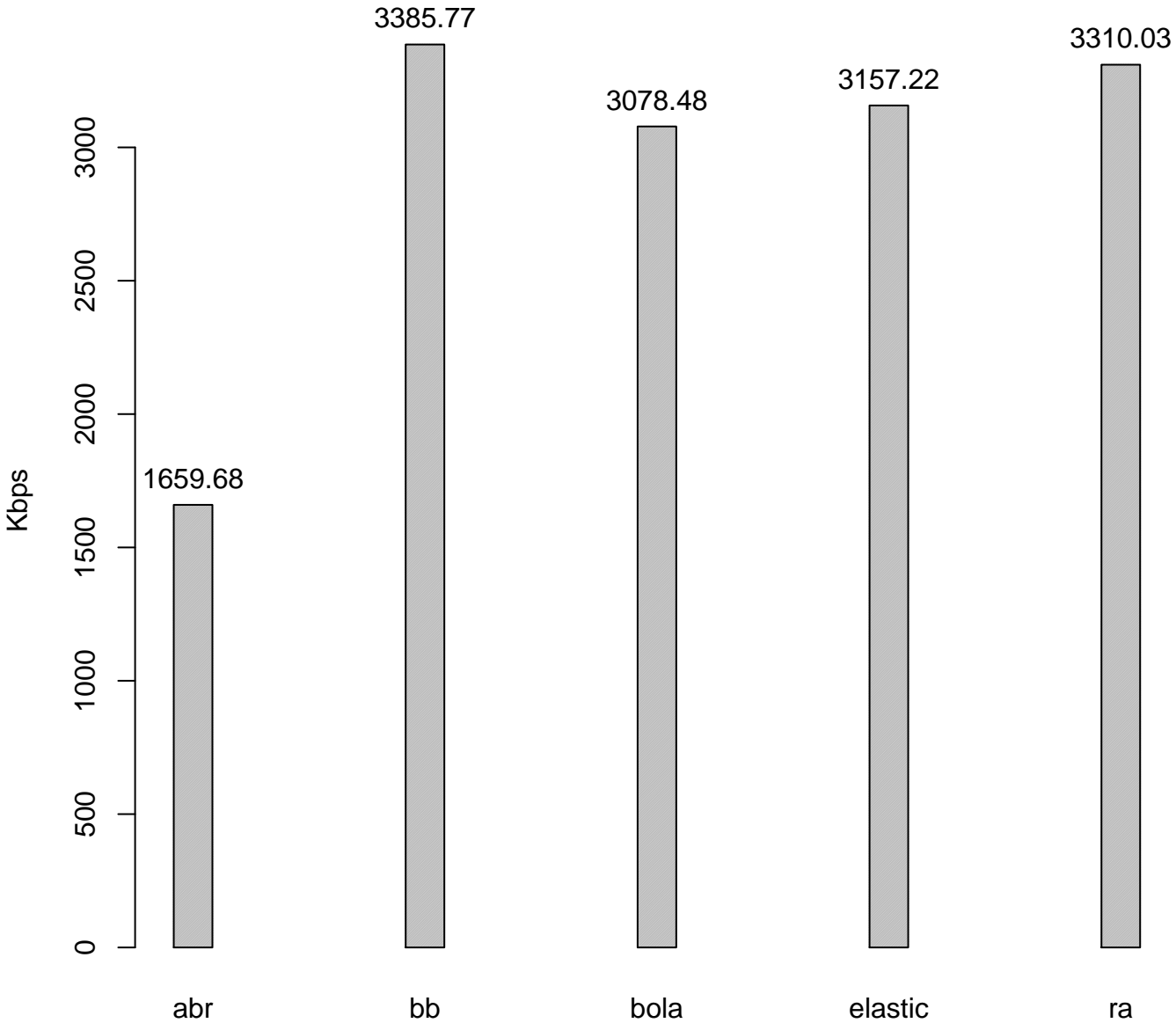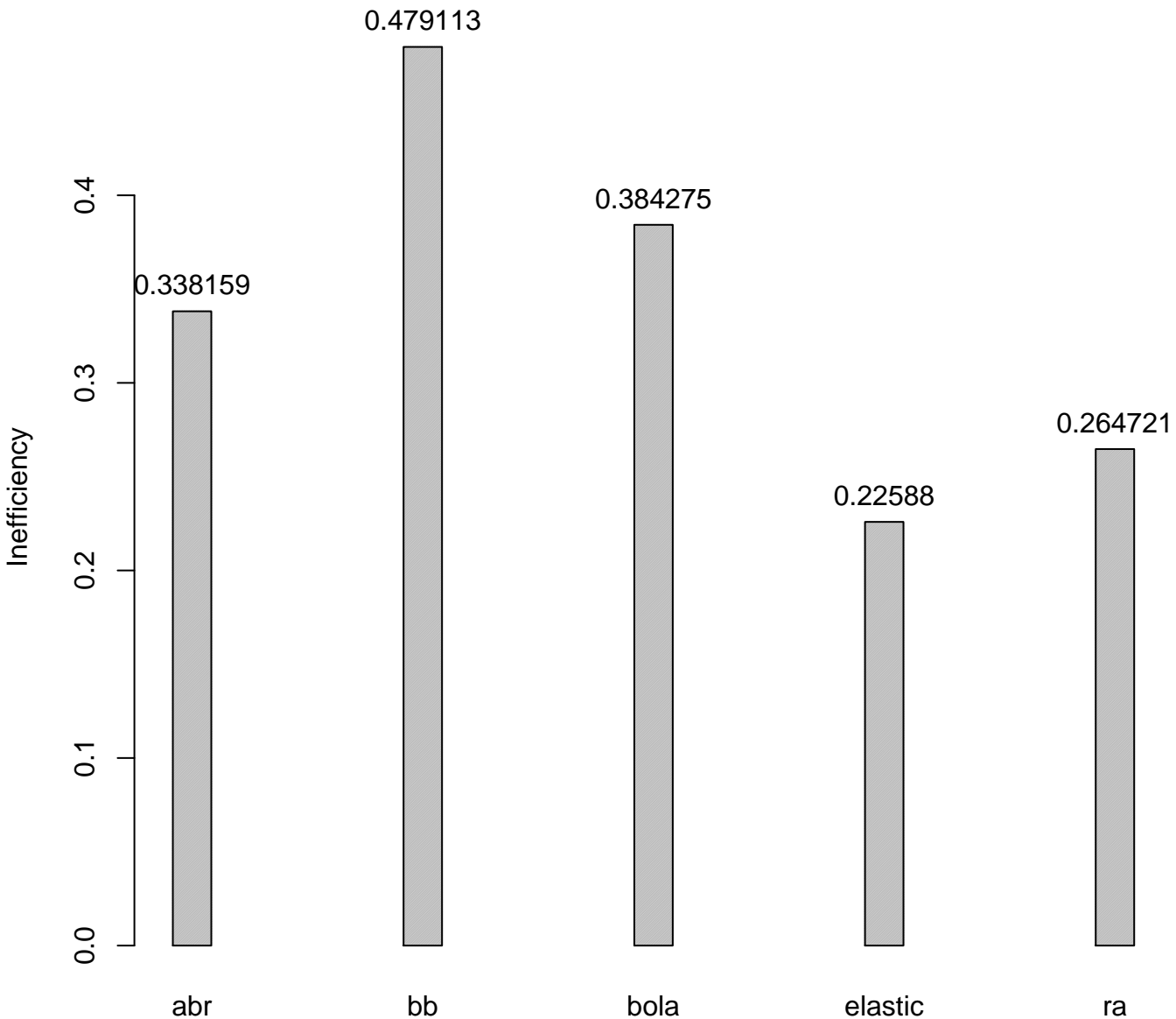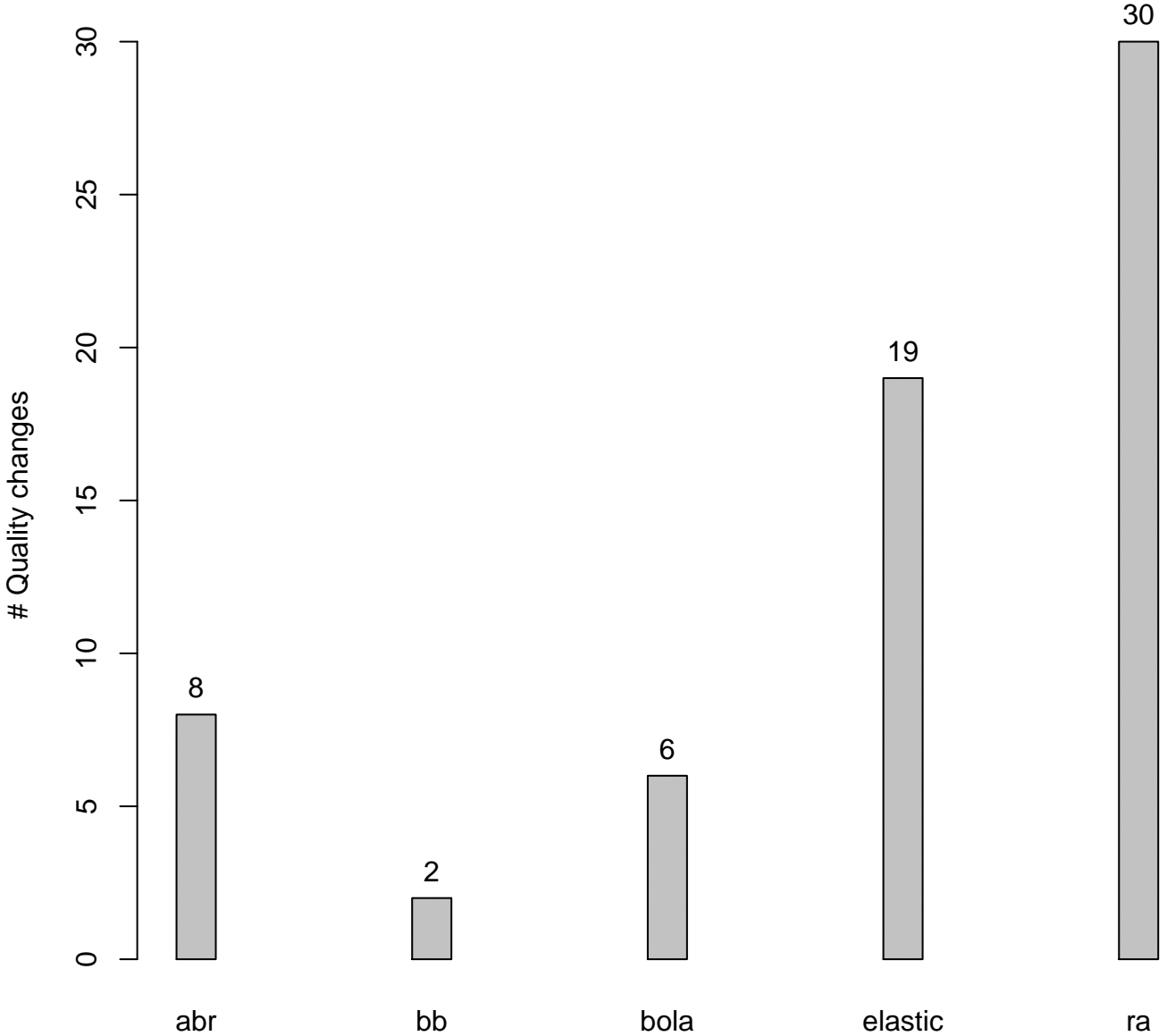**Buffer: 240   max: bb**

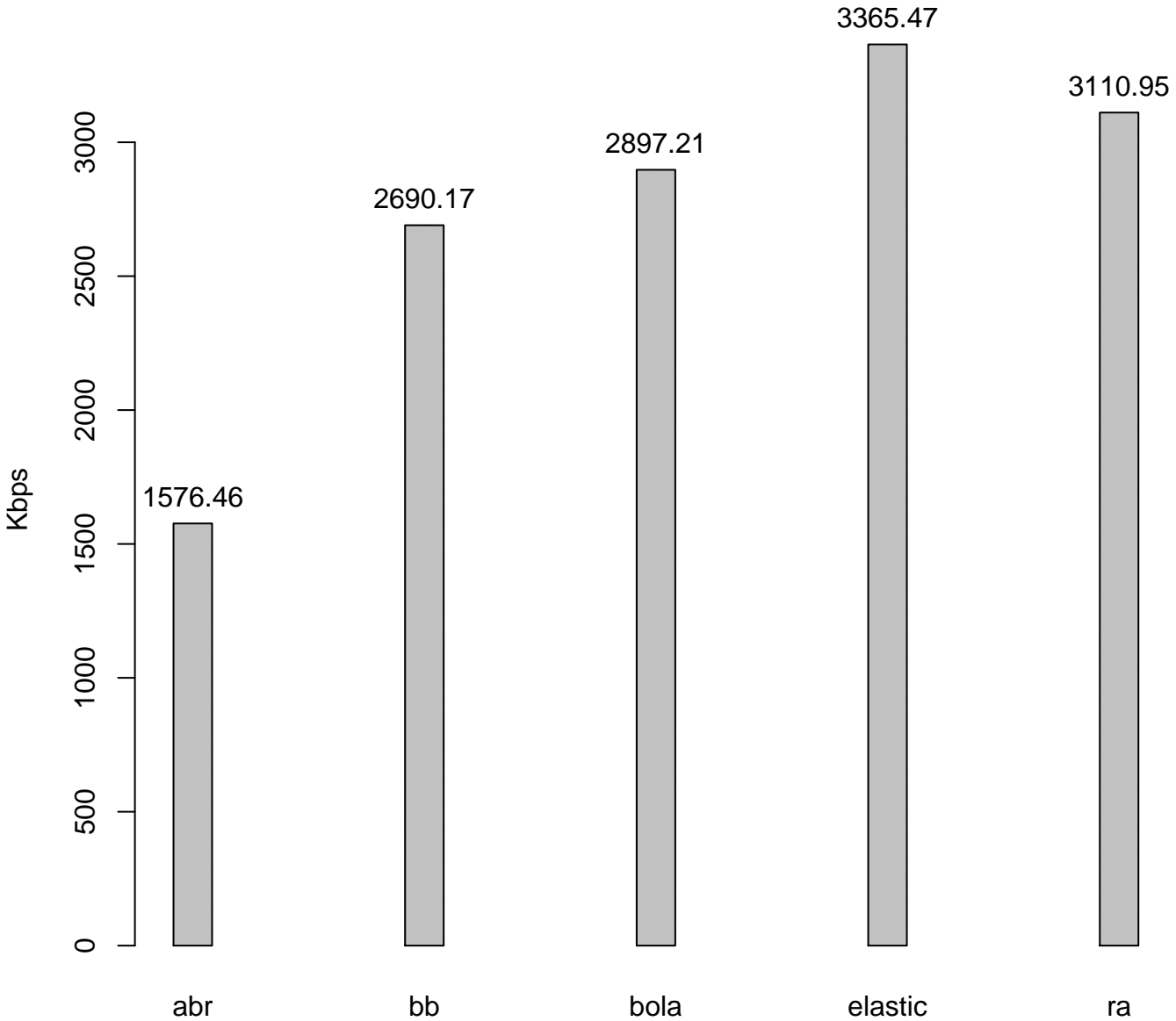**Network profile: p1 Sample: t3 Metric: Inefficiency**
Buffer: 240 min: elastic

Network profile: p1 Sample: t3 Metric: # quality change
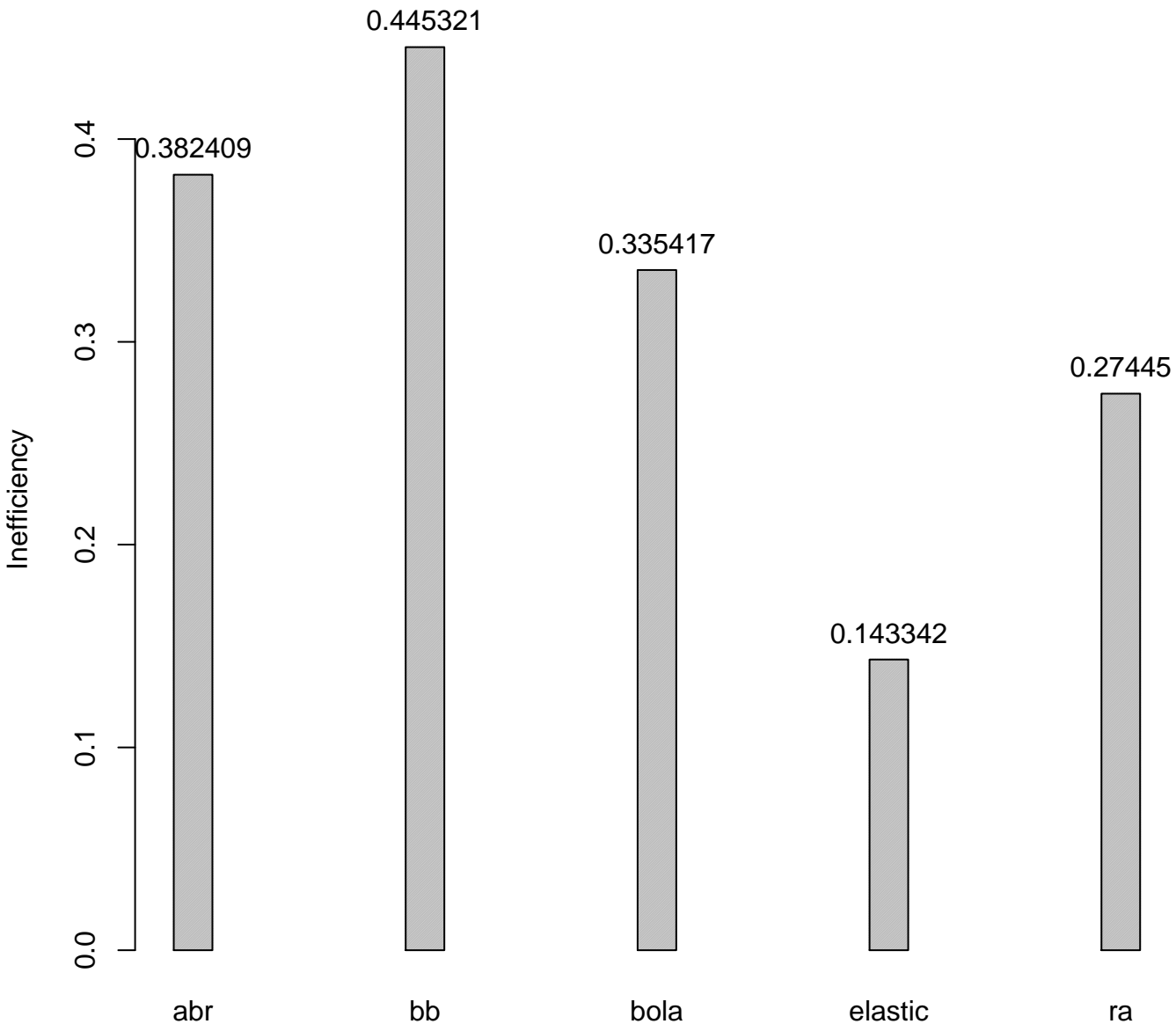**Buffer: 240 min: bb**

Network profile: p1 Sample: t4 Metric: Avg−Bitrate
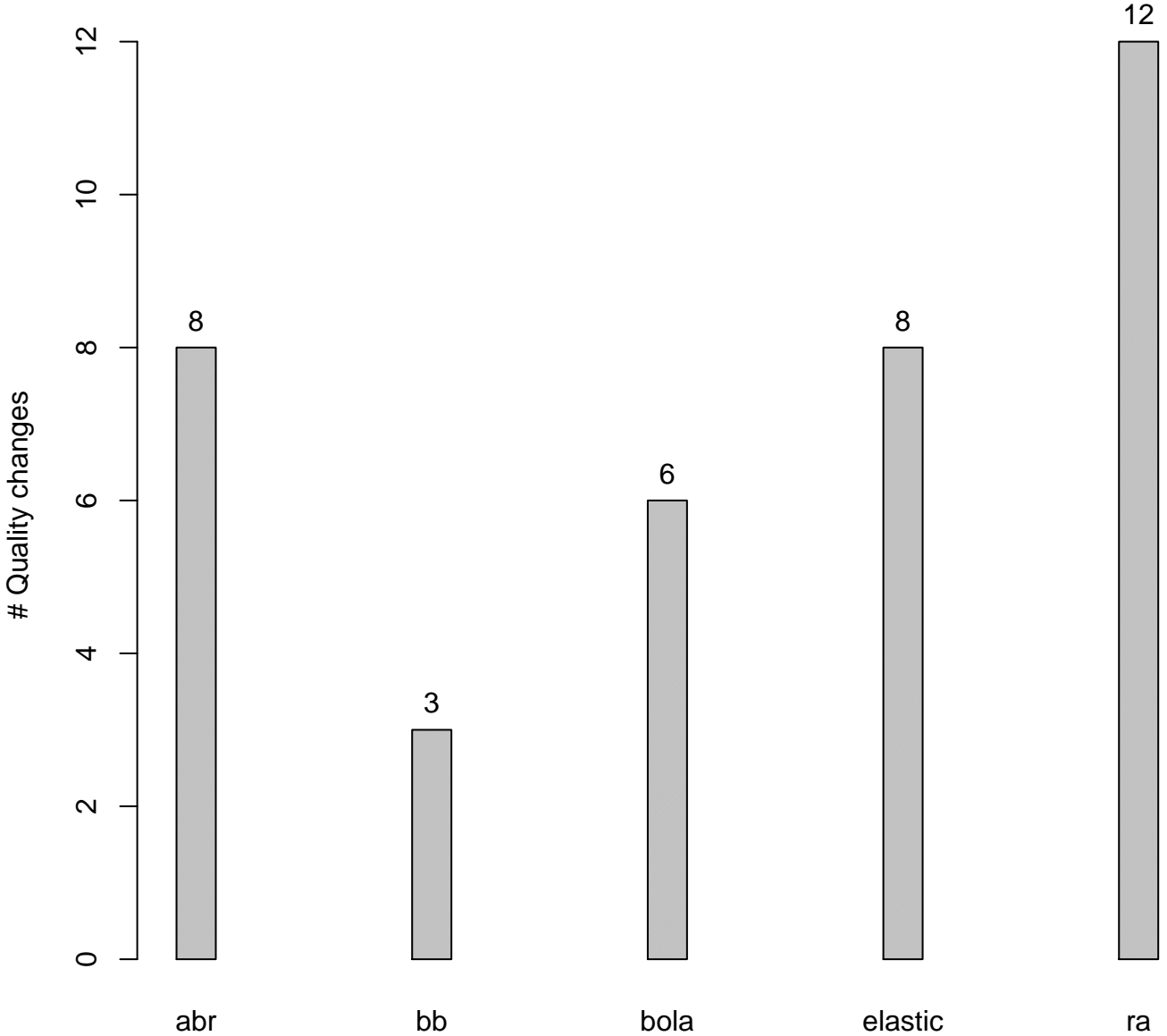**Buffer: 240   max: elastic**

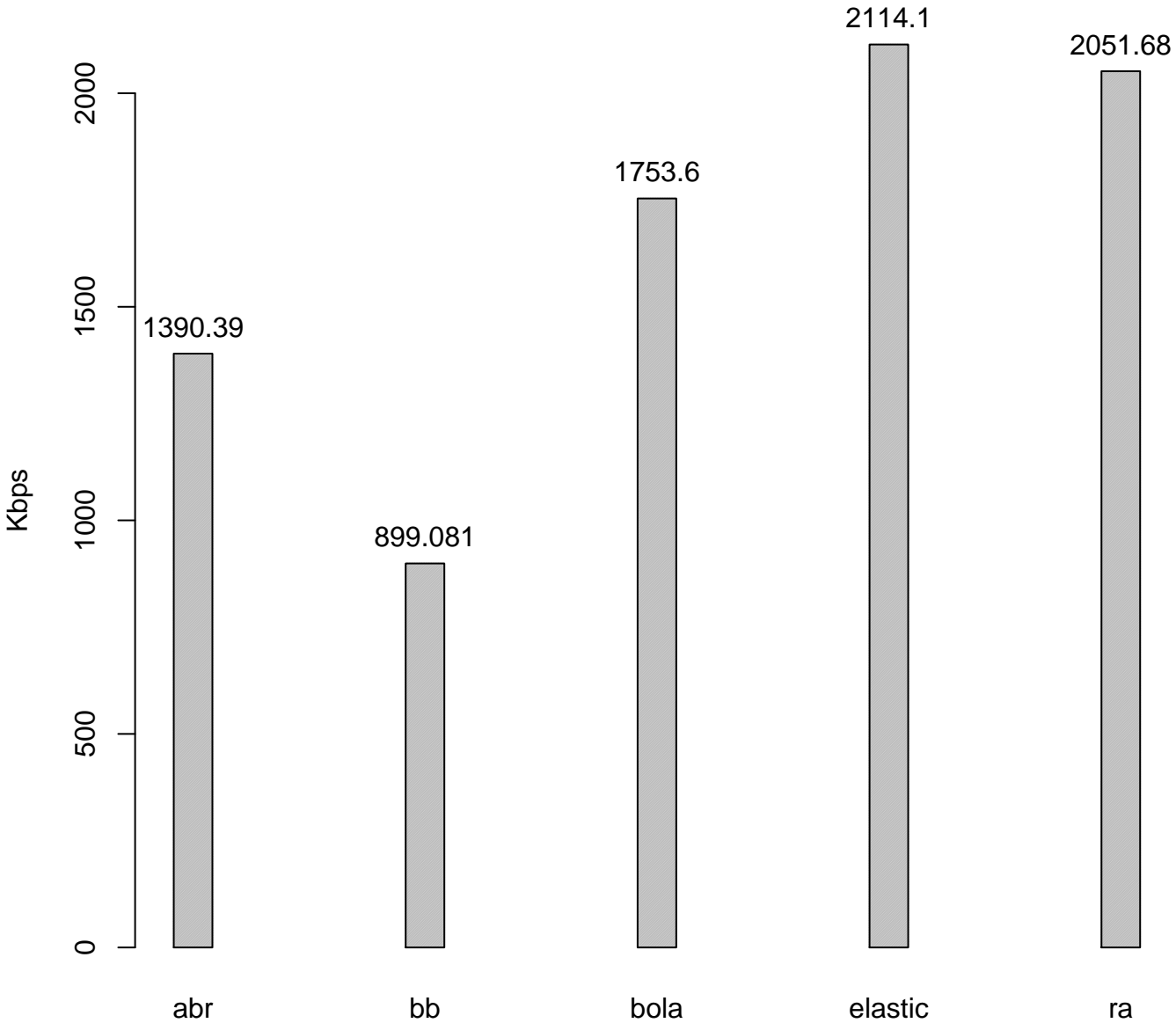**Network profile: p1 Sample: t4 Metric: Inefficiency**
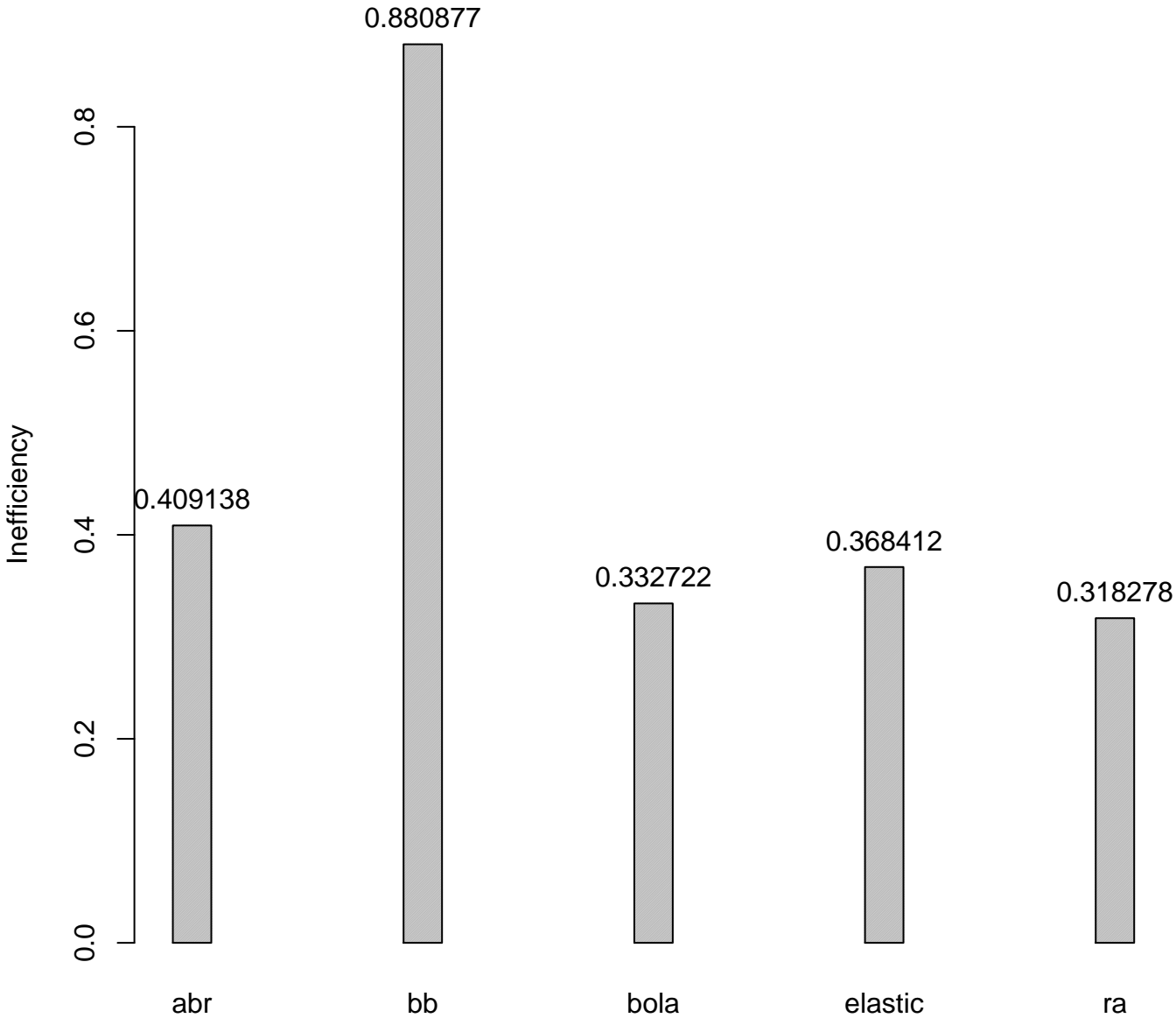**Buffer: 240 min: elastic**

Network profile: p1 Sample: t4 Metric: # quality change
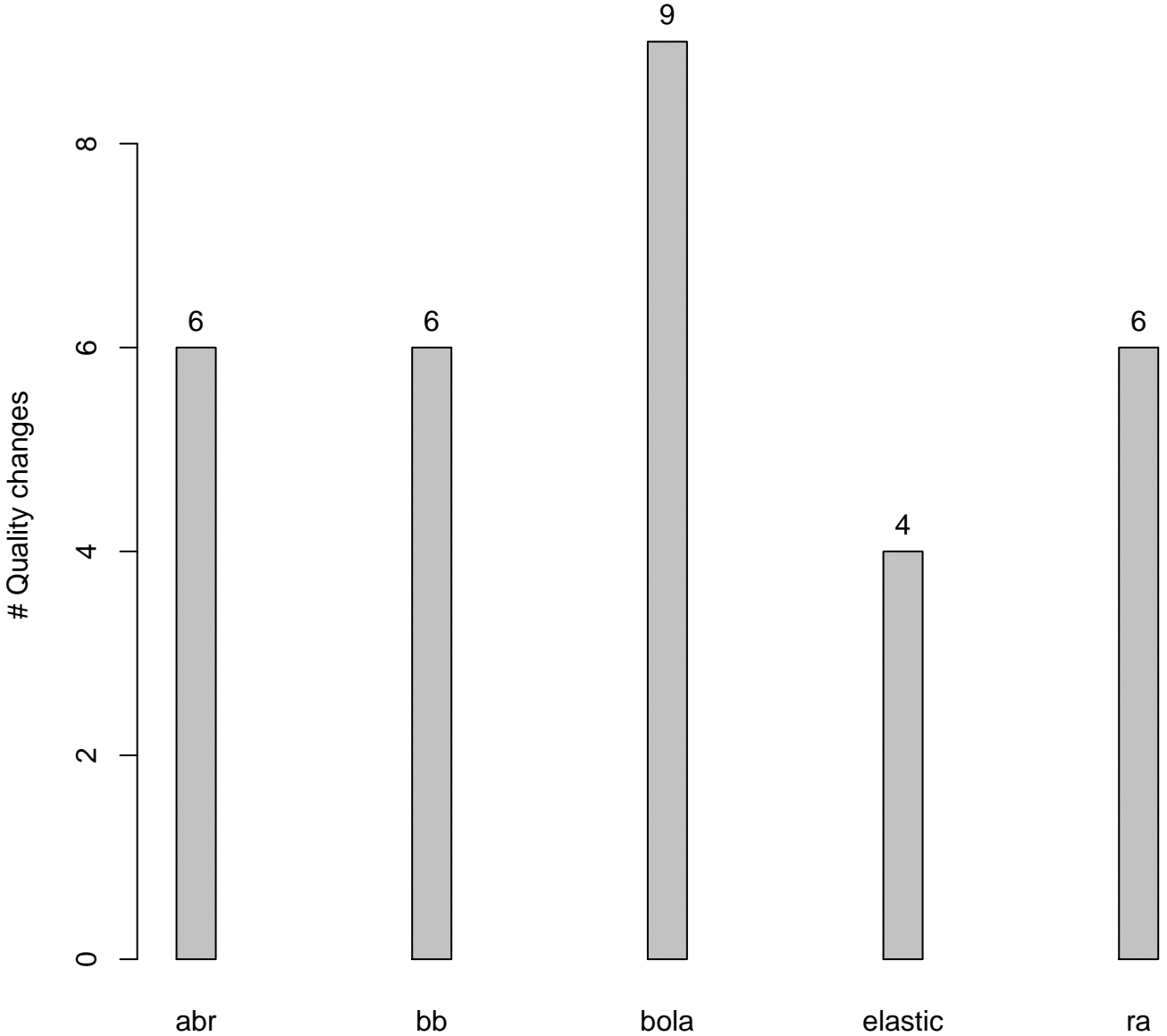**Buffer: 240 min: bb**

Network profile: p1 Sample: t5 Metric: Avg−Bitrate
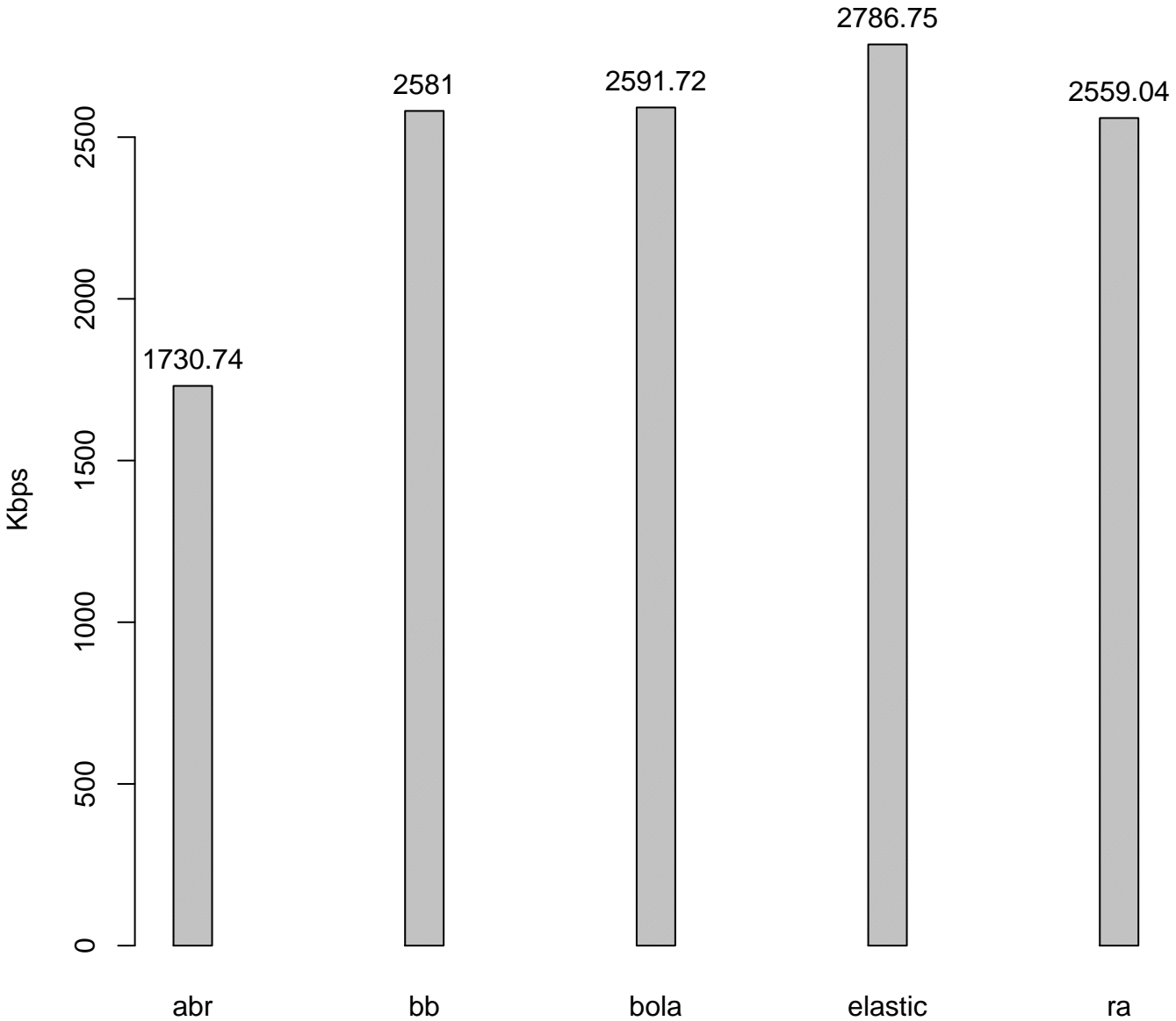**Buffer: 240   max: elastic**

Network profile: p1 Sample: t5 Metric: Inefficiency
Buffer: 240 min: ra

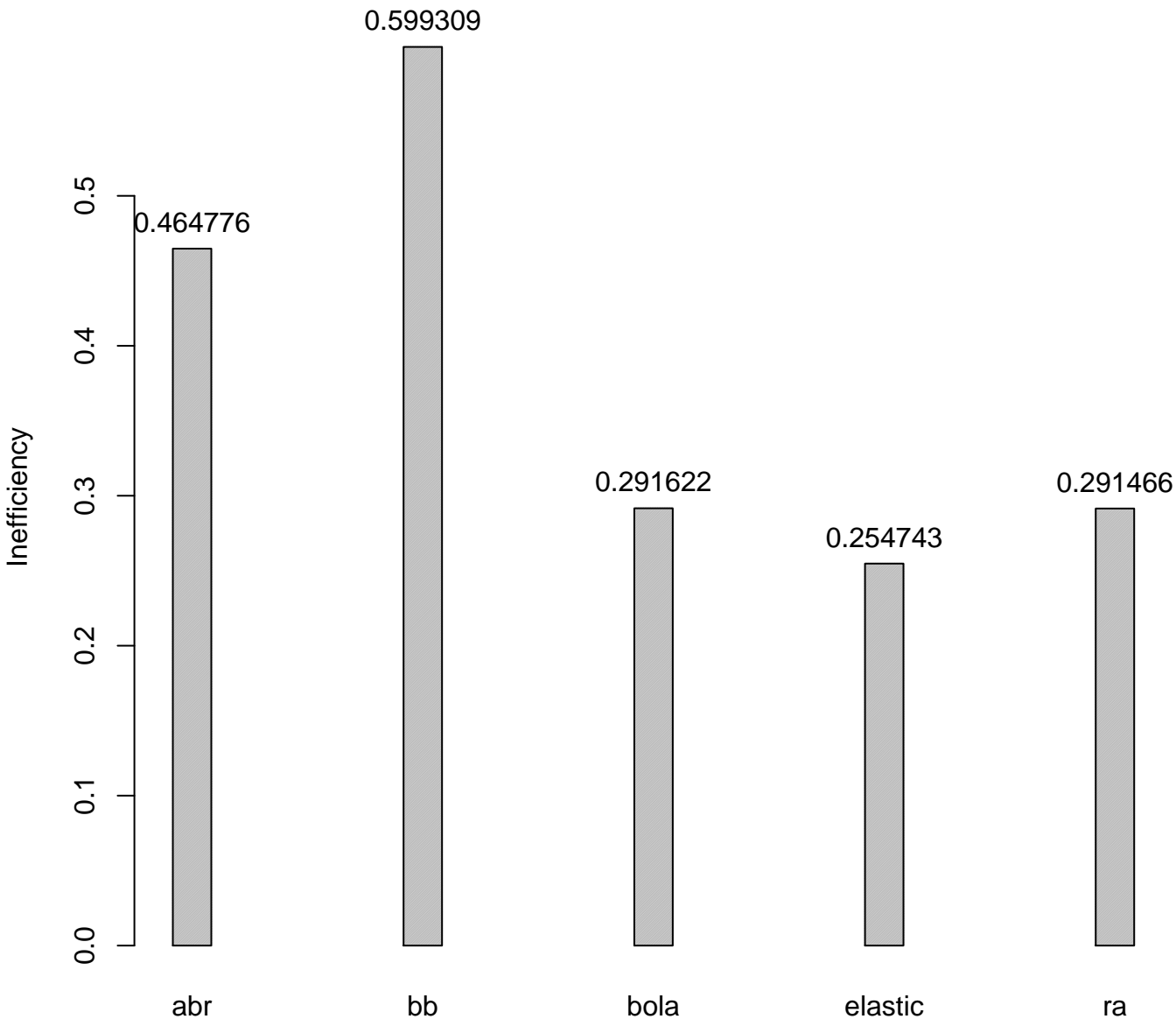**Network profile: p1 Sample: t5 Metric: # quality change**
Buffer: 240 min: elastic

Network profile: p1 Sample: t6 Metric: Avg−Bitrate
Buffer: 240   max: elastic

Kbps

1730.74 2581 2591.72 2786.75 2559.04

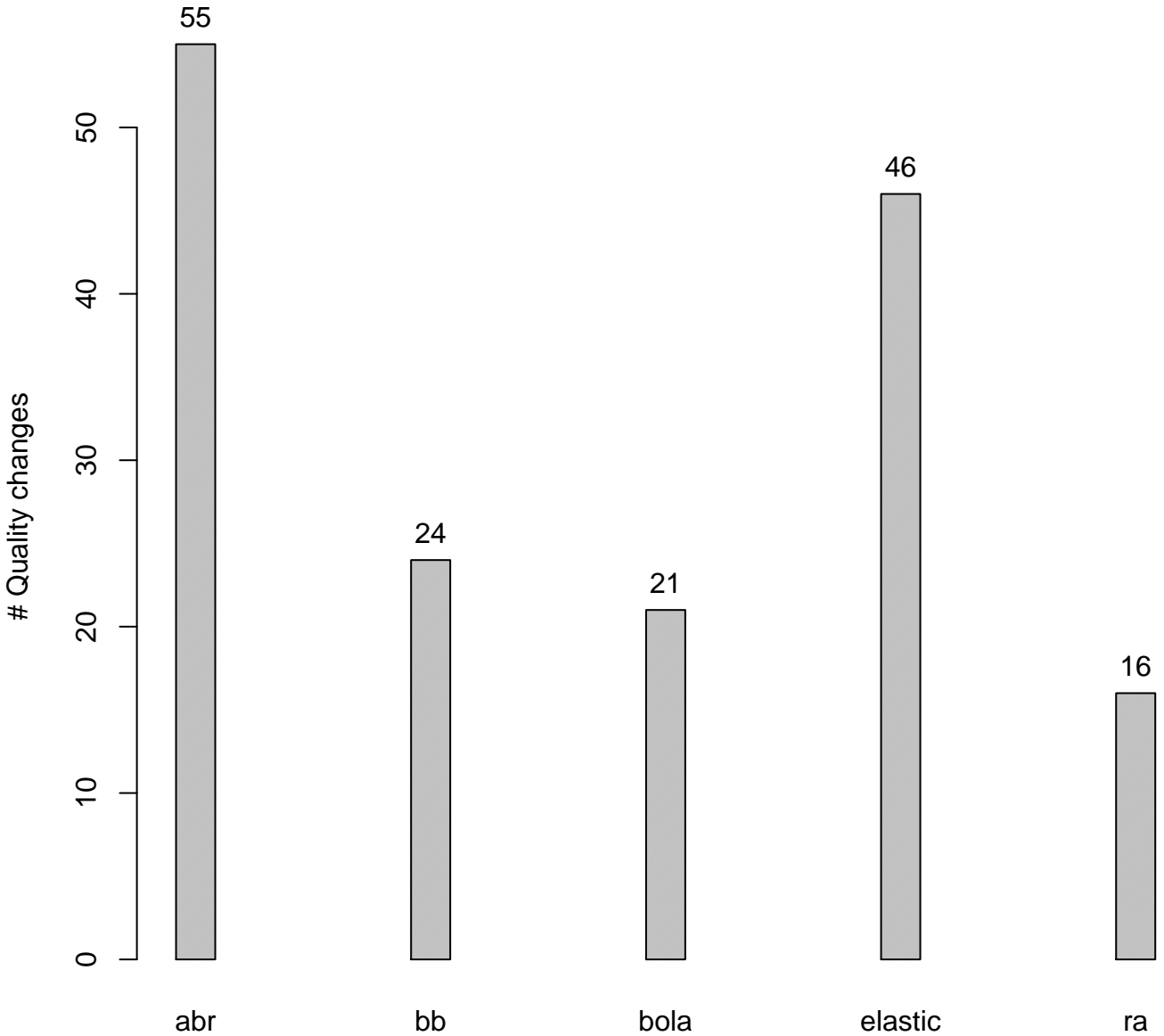abr   bb   bola   elastic   ra

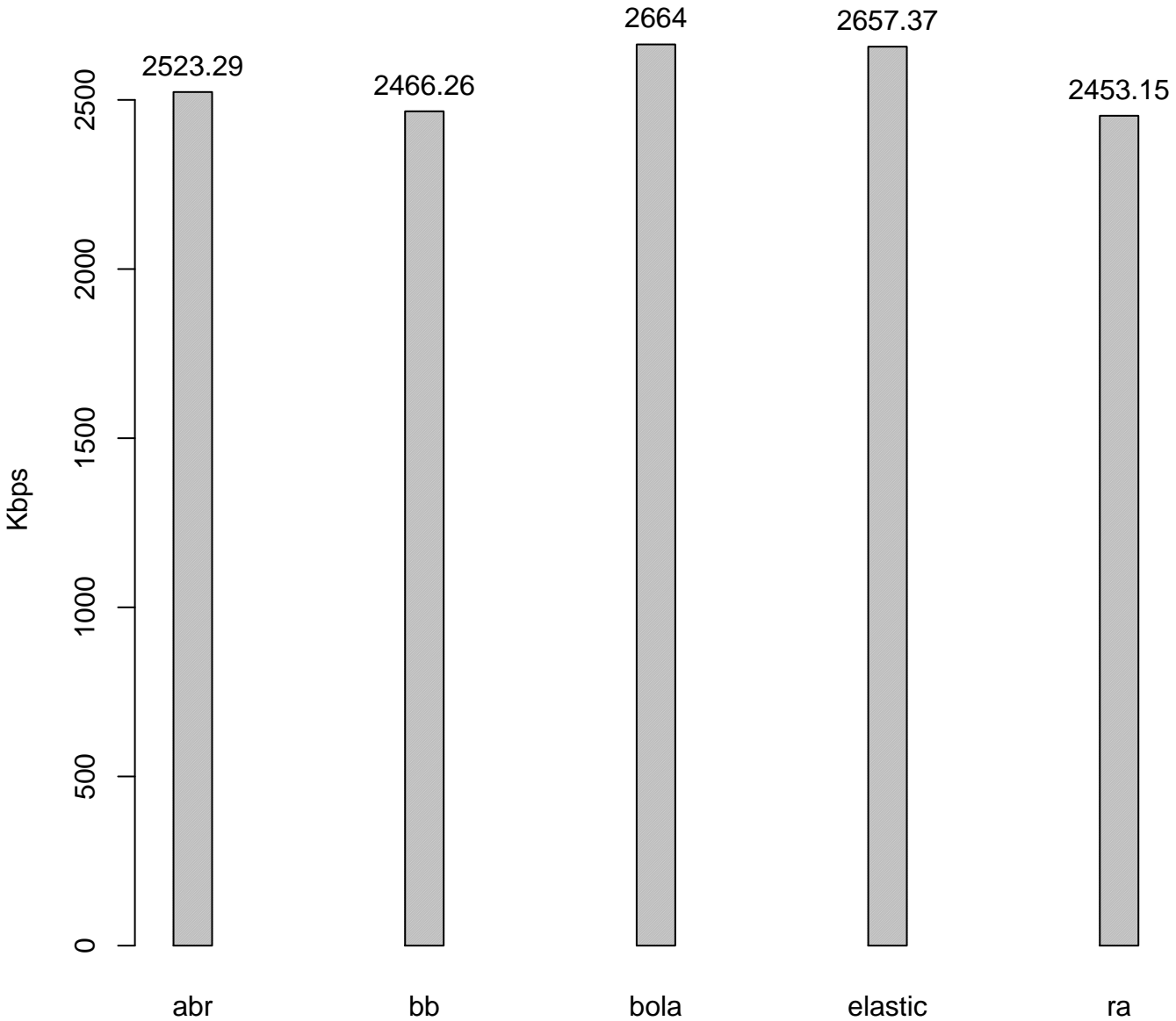**Network profile: p1 Sample: t6 Metric: Inefficiency**
Buffer: 240 min: elastic

Network profile: p1 Sample: t6 Metric: # quality change
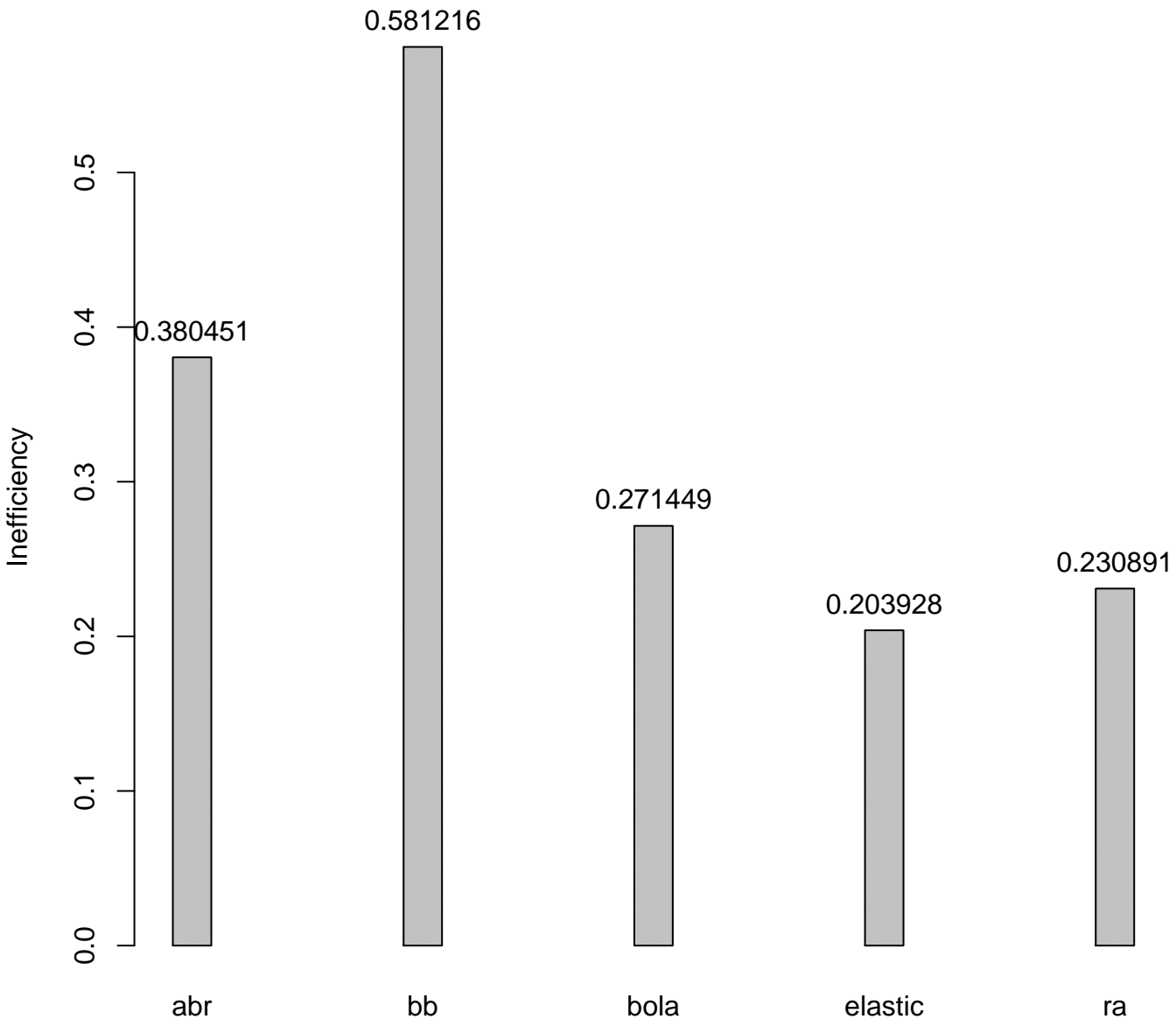**Buffer: 240 min: ra**

Network profile: p1 Sample: t7 Metric: Avg−Bitrate
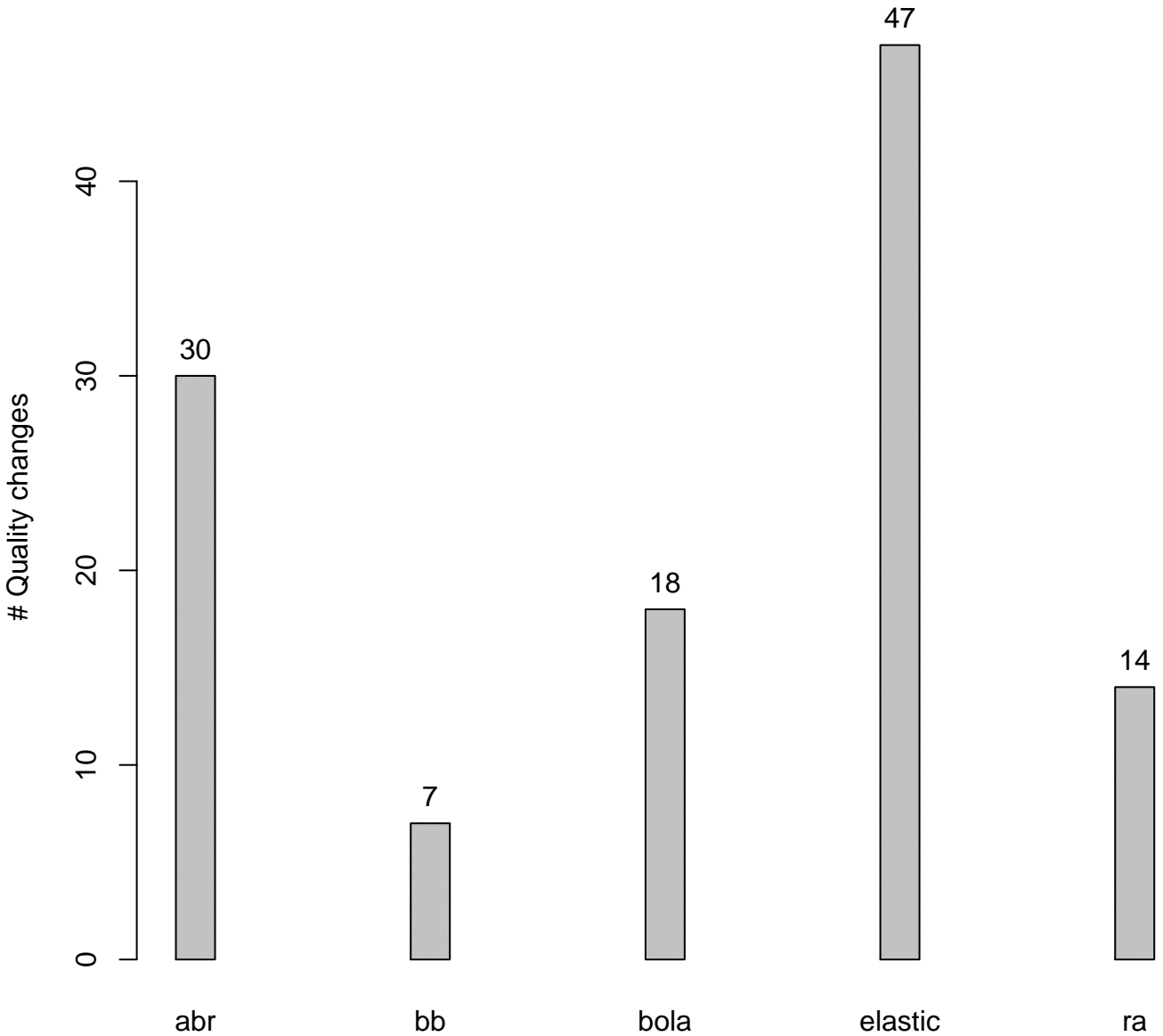**Buffer: 240   max: bola**

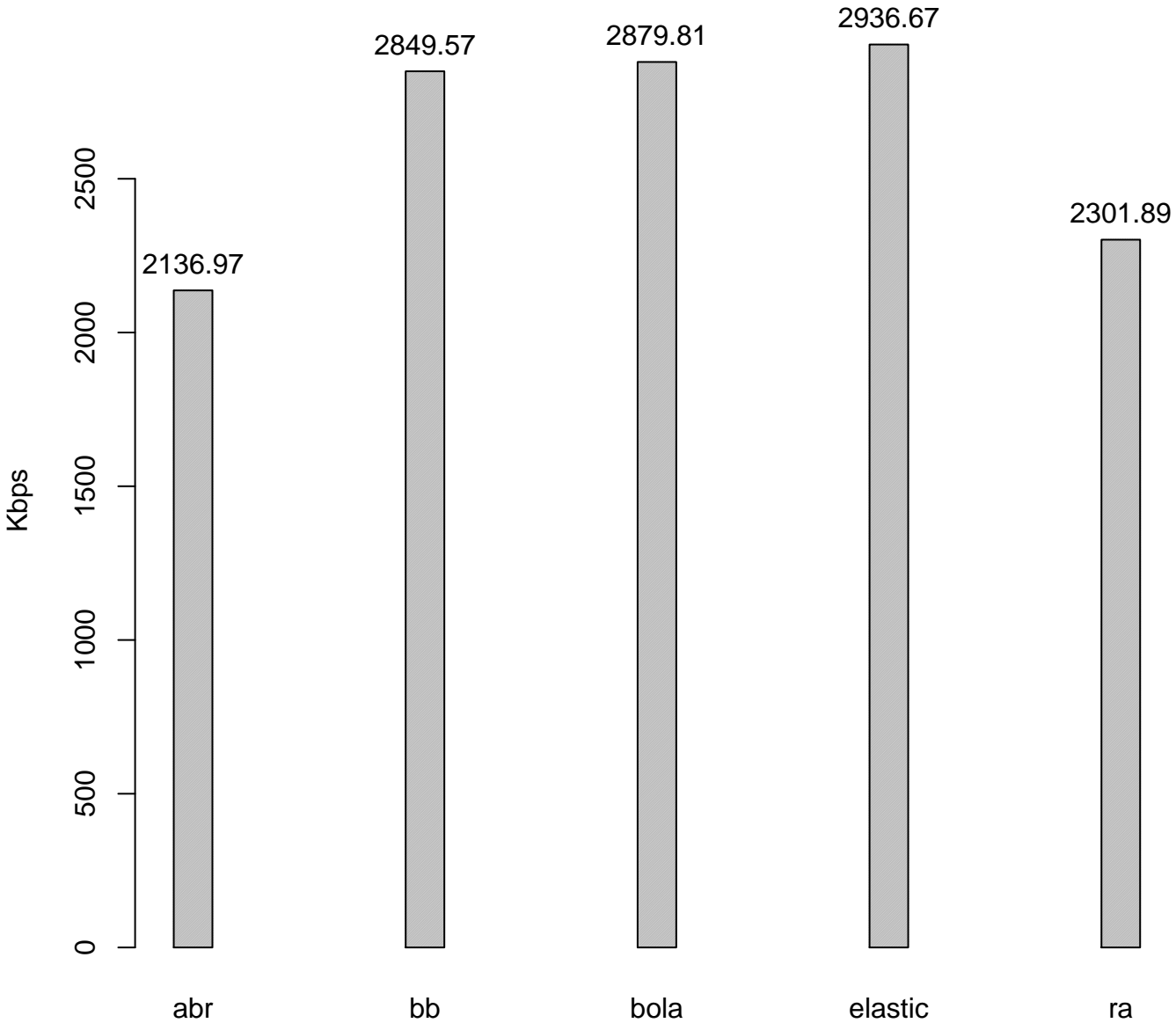**Network profile: p1 Sample: t7 Metric: Inefficiency**
Buffer: 240 min: elastic

Network profile: p1 Sample: t7 Metric: # quality change
Buffer: 240 min: bb

Network profile: p2 Sample: t1 Metric: Avg−Bitrate
Buffer: 240 max: elastic

Kbps

2136.97   2849.57   2879.81   2936.67   2301.89

abr   bb   bola   elastic   ra

Network profile: p2 Sample: t1 Metric: Inefficiency
Buffer: 240 min: elastic

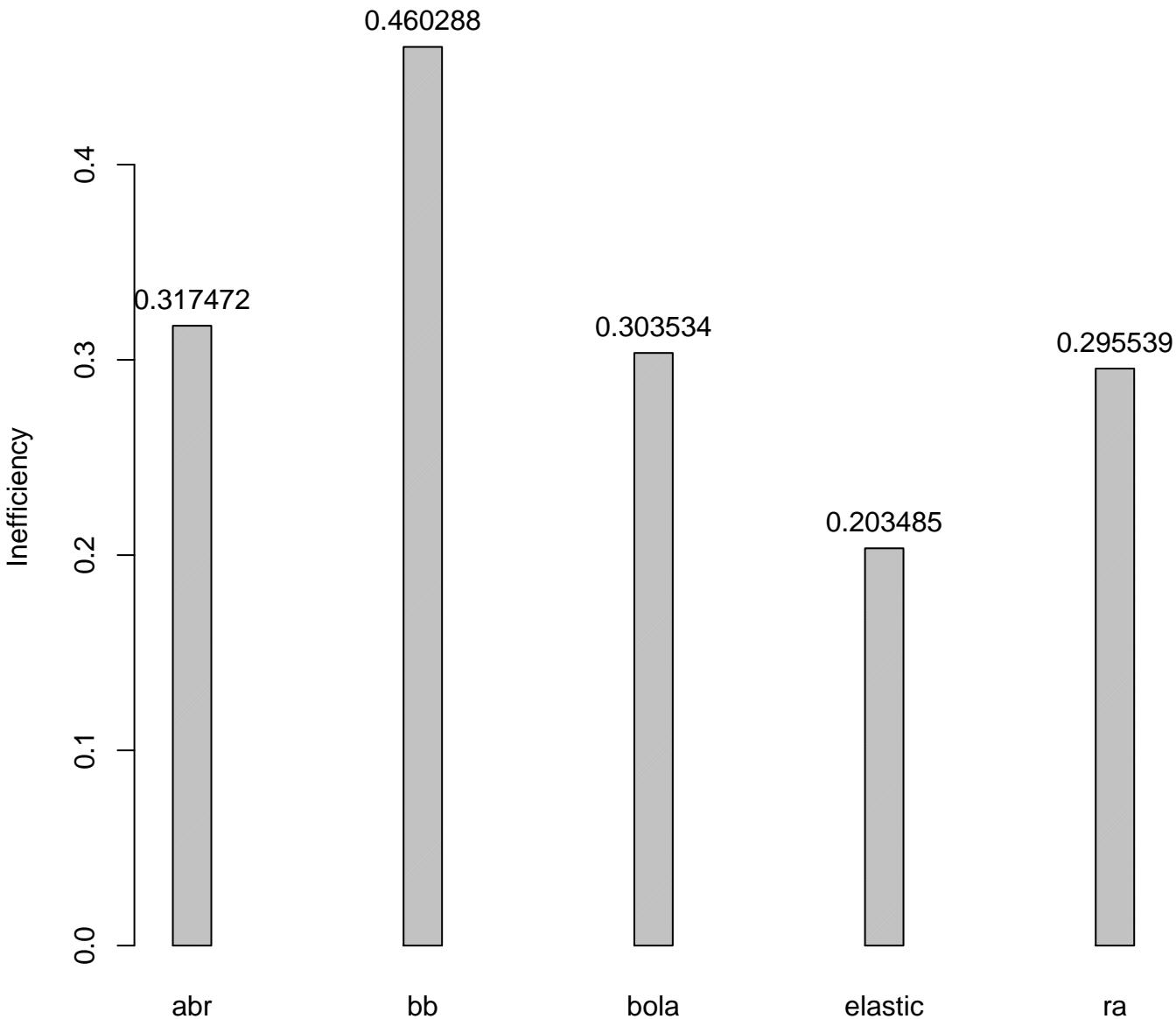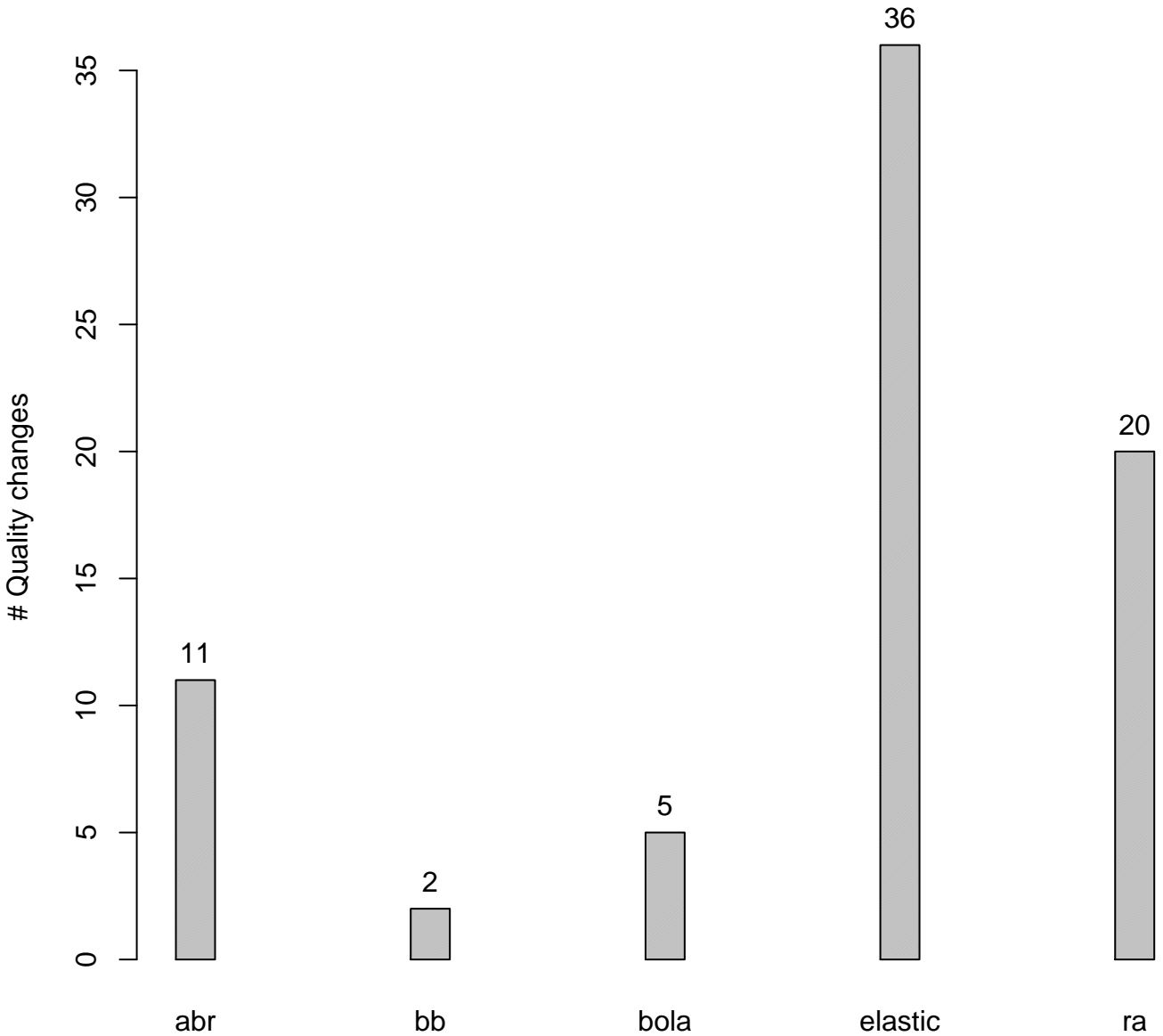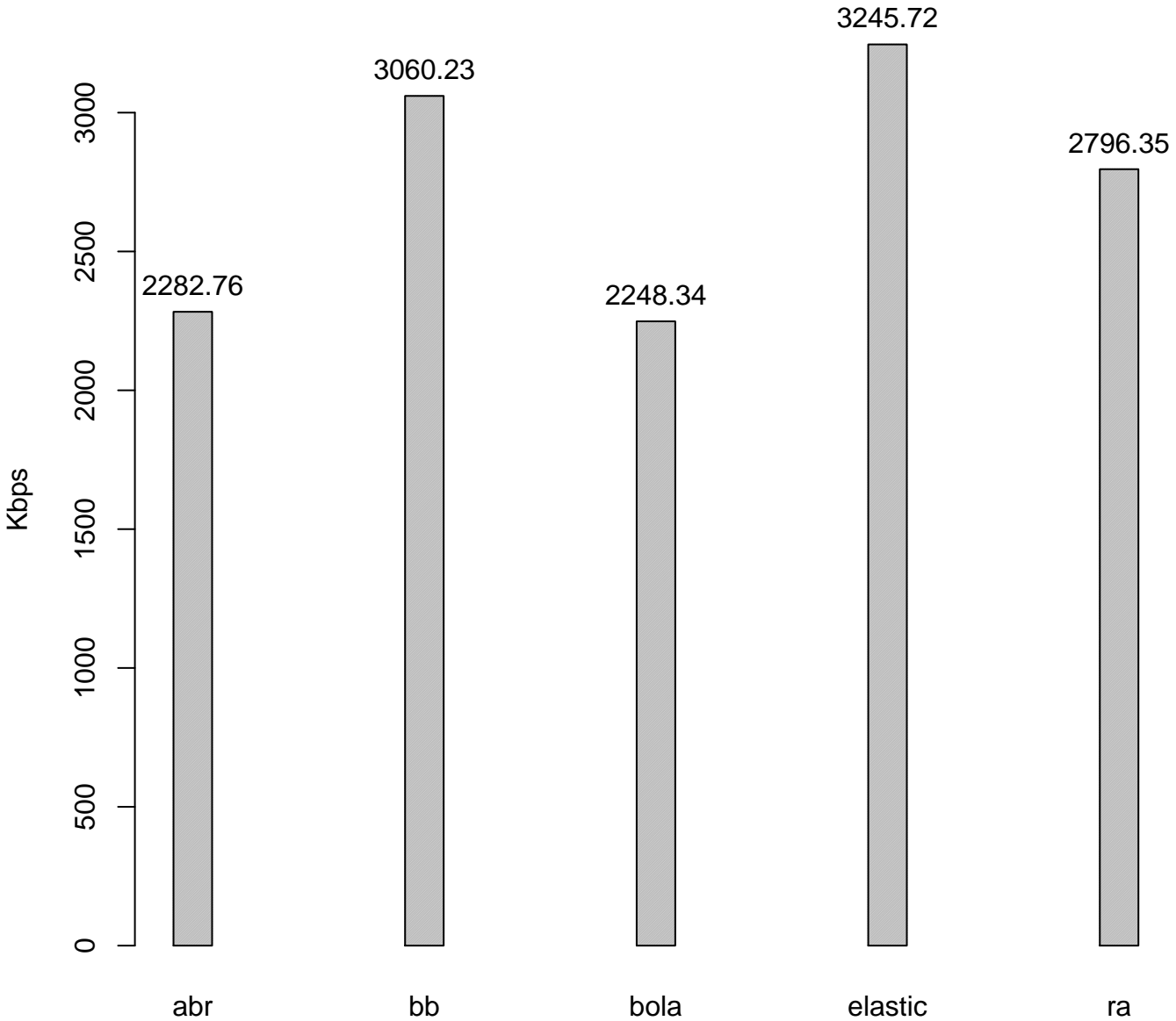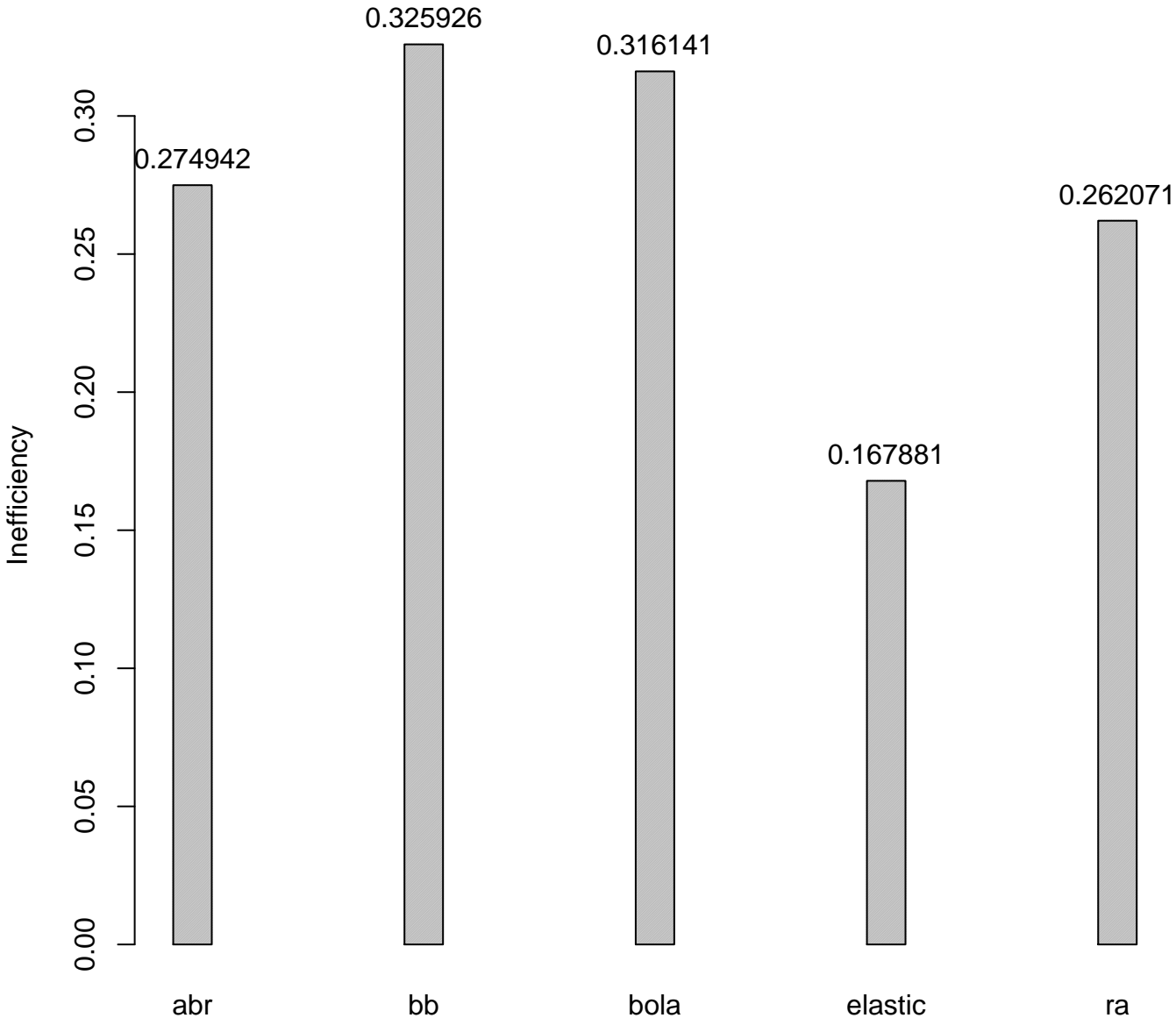**Network profile: p2 Sample: t1 Metric: # quality change**
Buffer: 240 min: bb

Network profile: p2 Sample: t2 Metric: Avg−Bitrate
Buffer: 240   max: elastic

Kbps

abr: 2282.76
bb: 3060.23
bola: 2248.34
elastic: 3245.72
ra: 2796.35

Network profile: p2 Sample: t2 Metric: Inefficiency
Buffer: 240 min: elastic

Network profile: p2 Sample: t2 Metric: # quality change
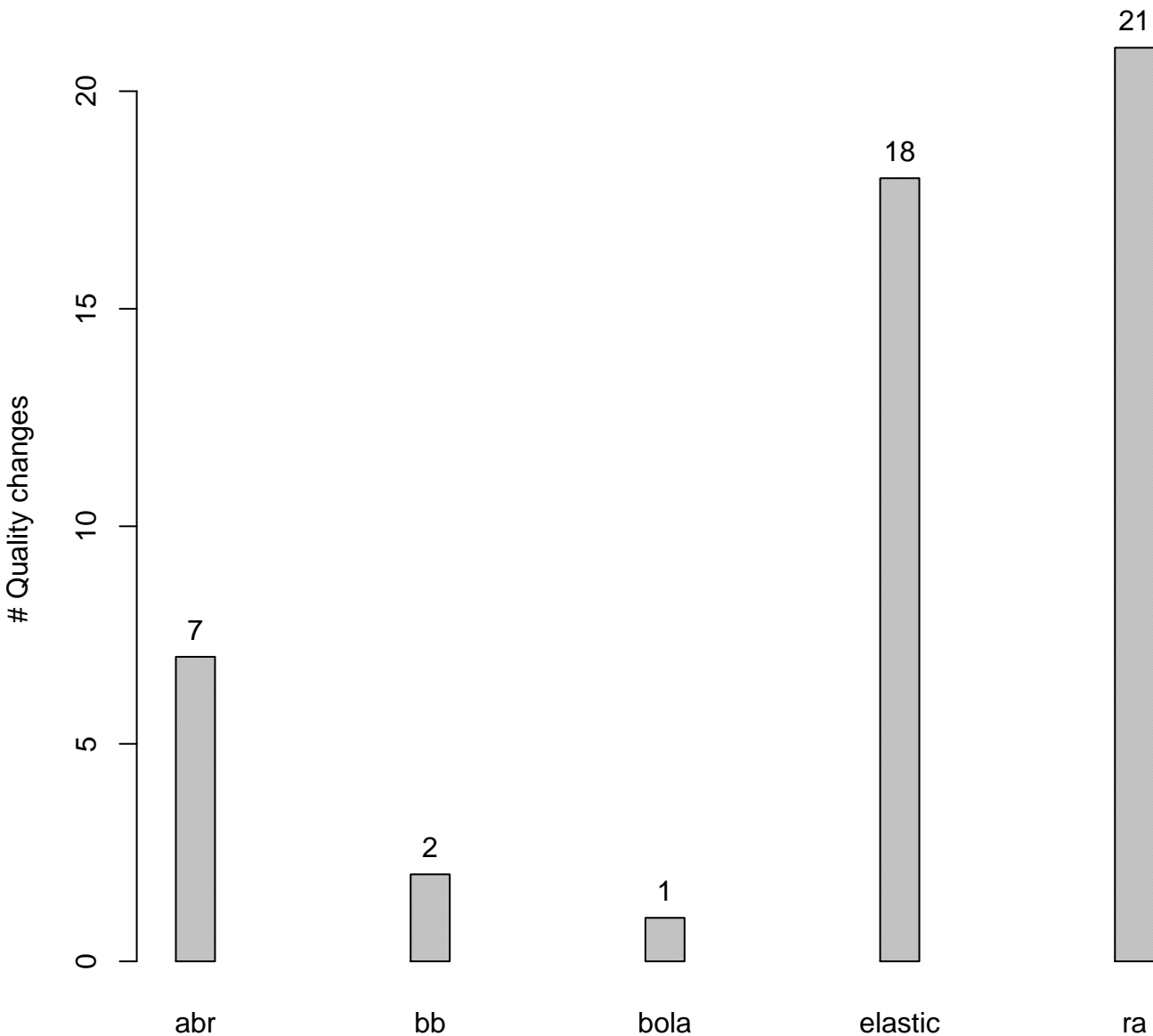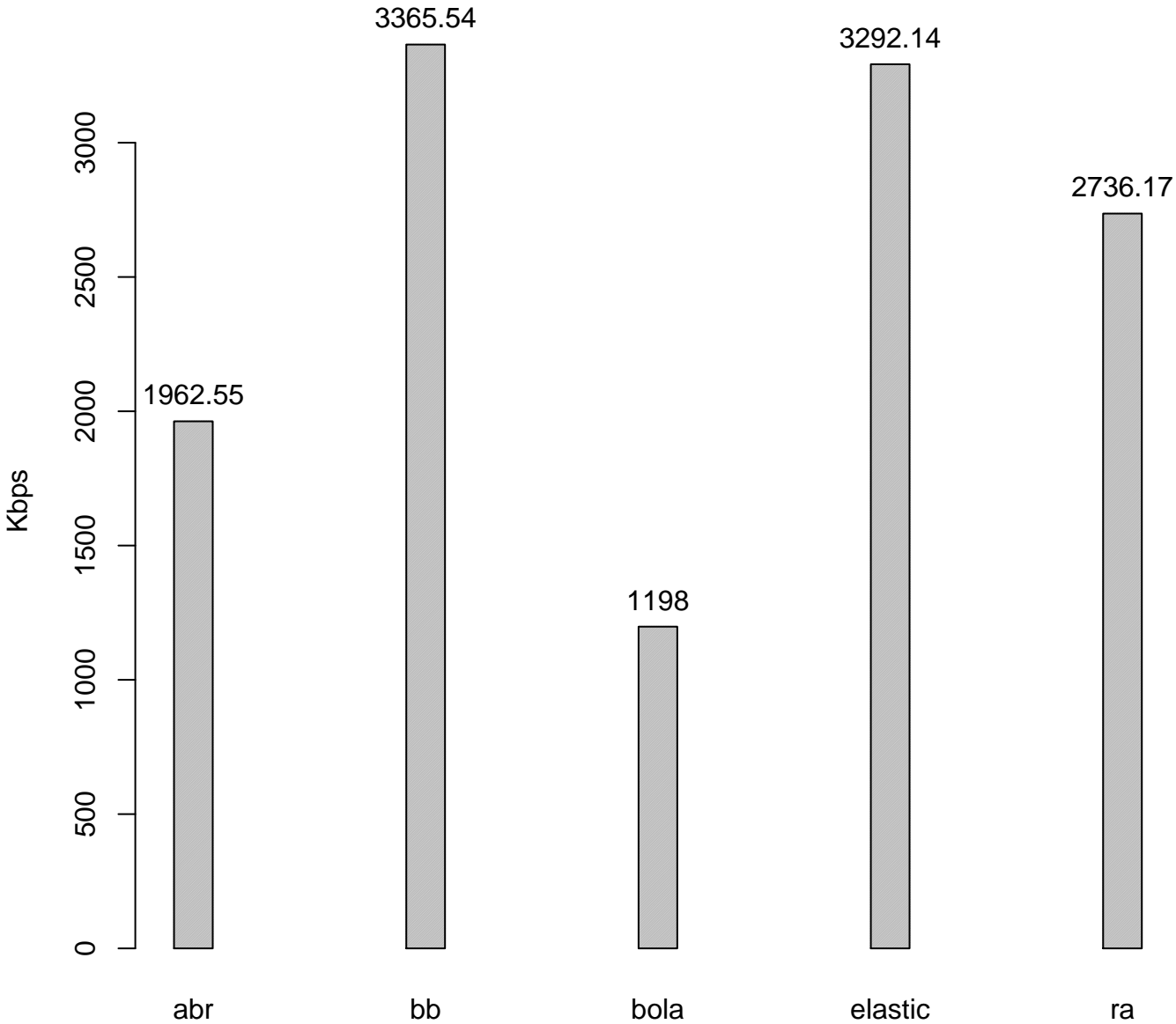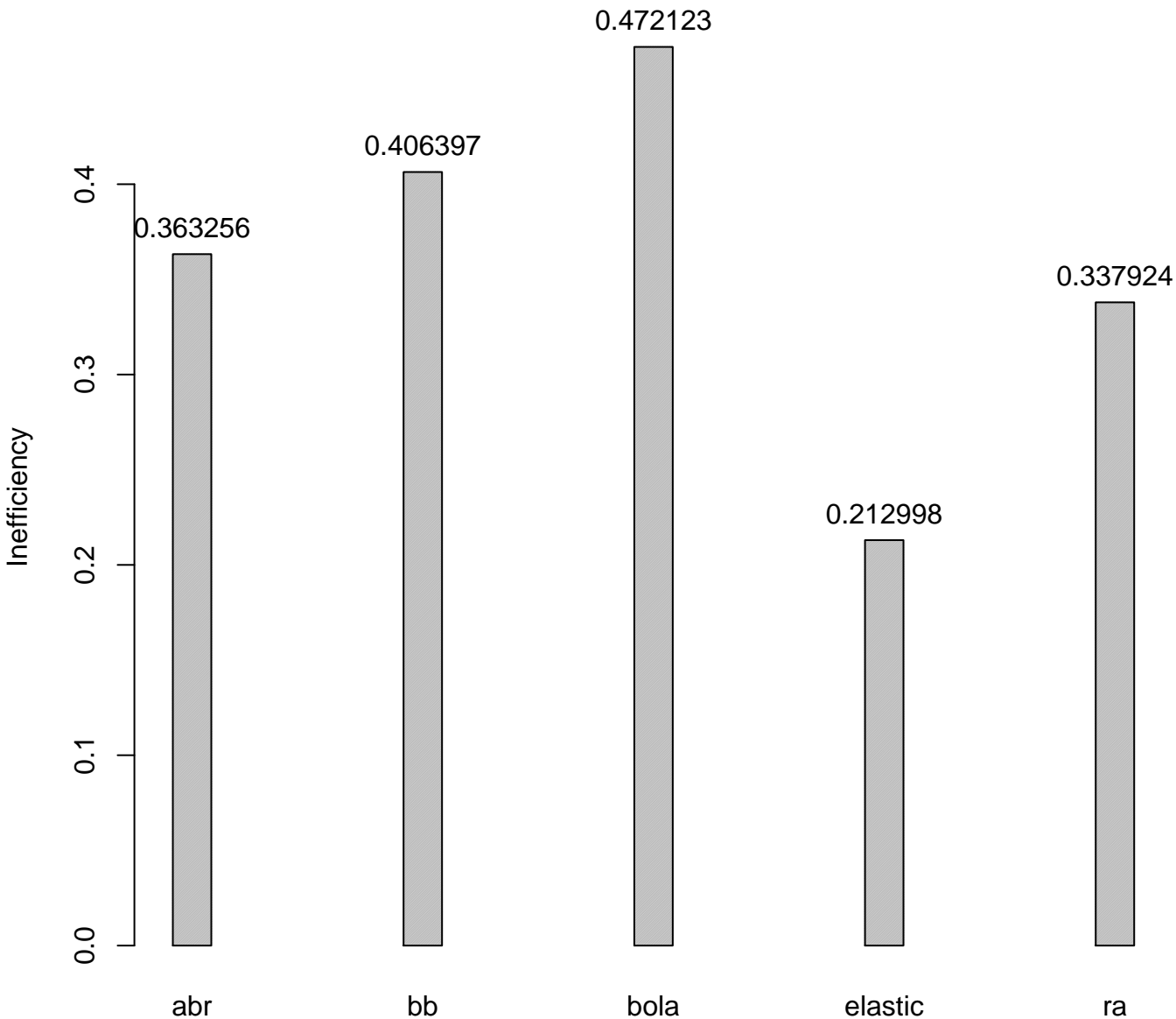**Buffer: 240 min: bola**

Network profile: p2 Sample: t3 Metric: Avg−Bitrate
Buffer: 240   max: bb

Network profile: p2 Sample: t3 Metric: Inefficiency
Buffer: 240 min: elastic

Inefficiency

0.363256   0.406397   0.472123   0.212998   0.337924

abr   bb   bola   elastic   ra

Network profile: p2 Sample: t3 Metric: # quality change Buffer: 240 min: bola

Network profile: p2 Sample: t4 Metric: Avg−Bitrate
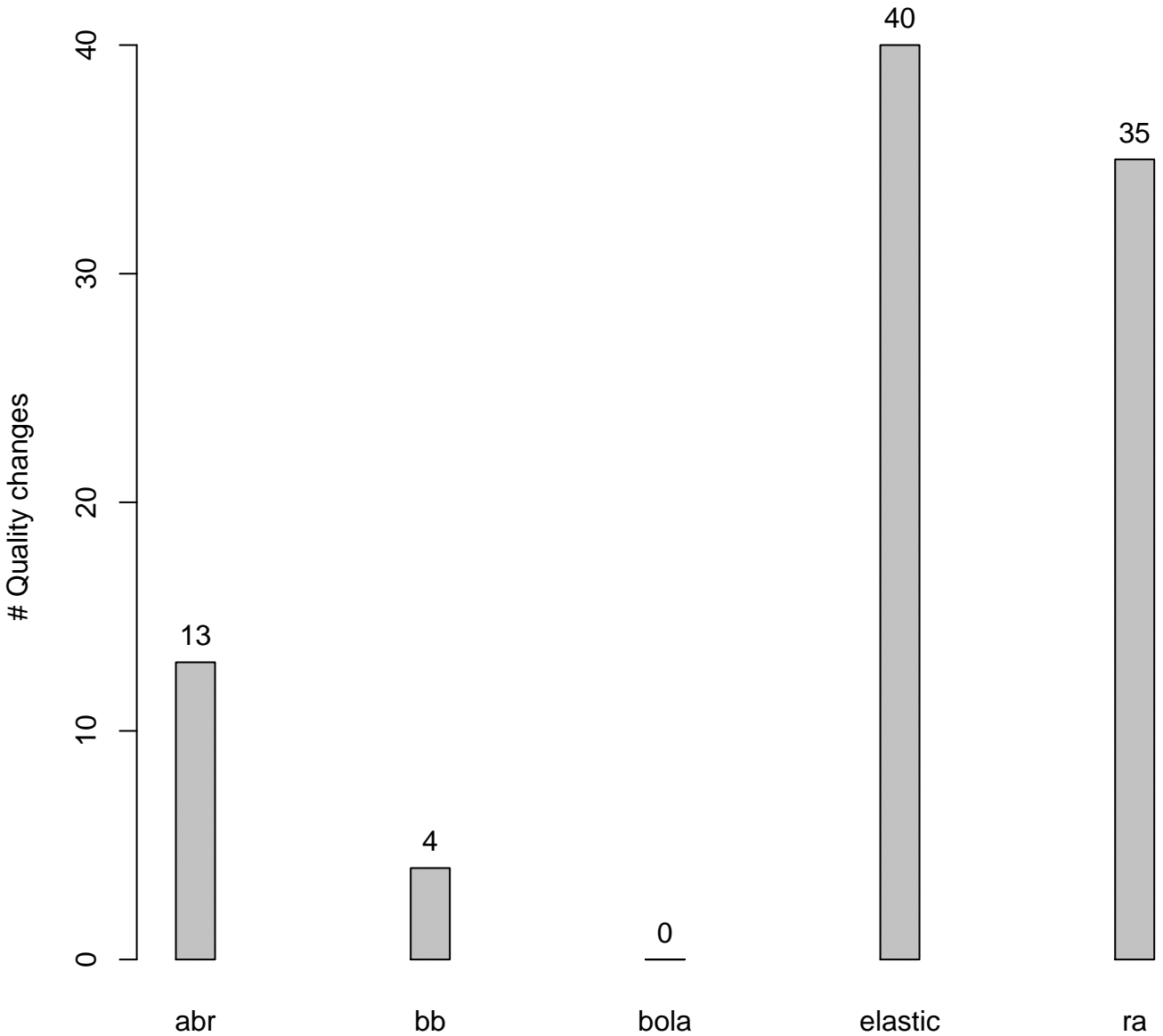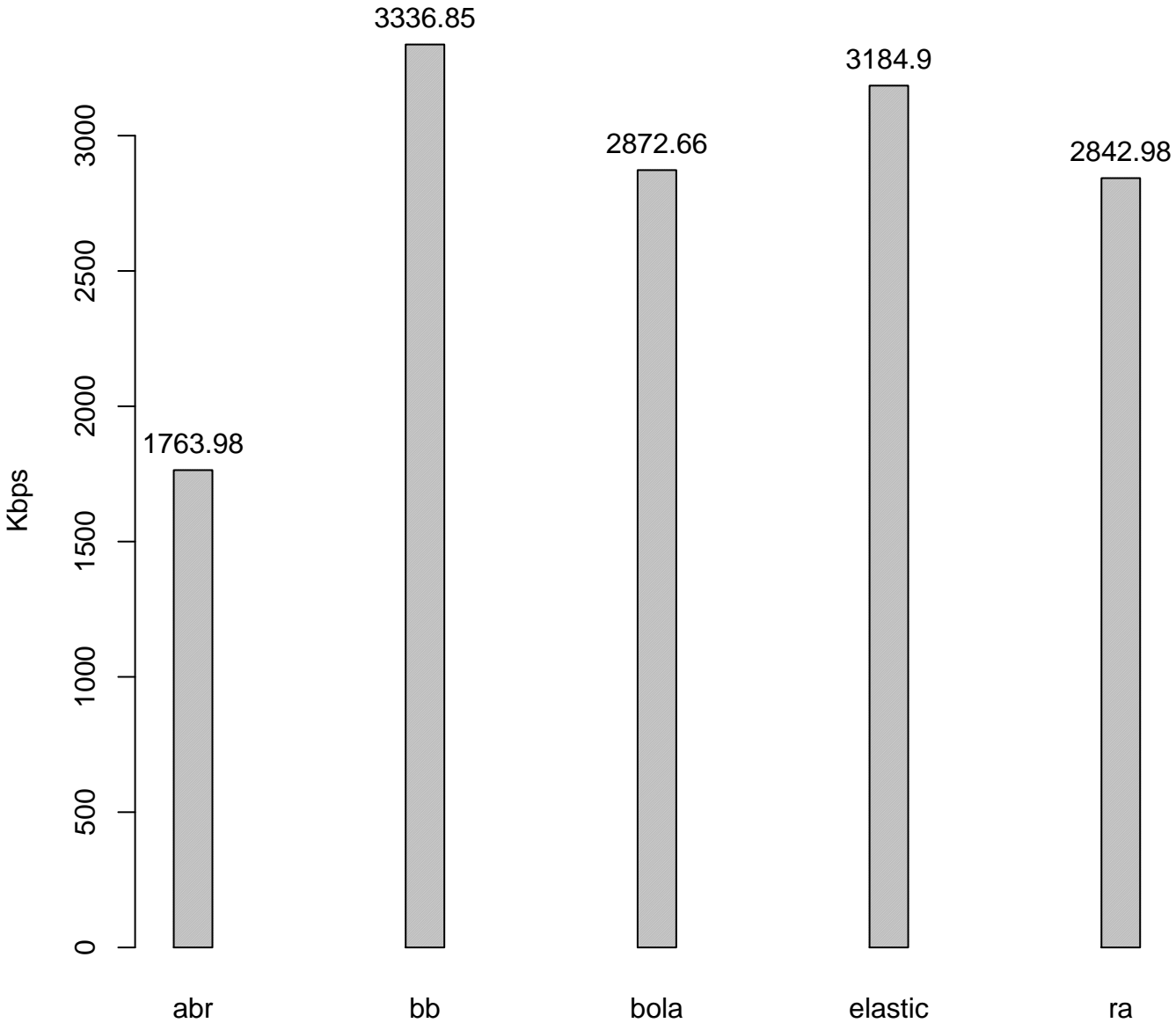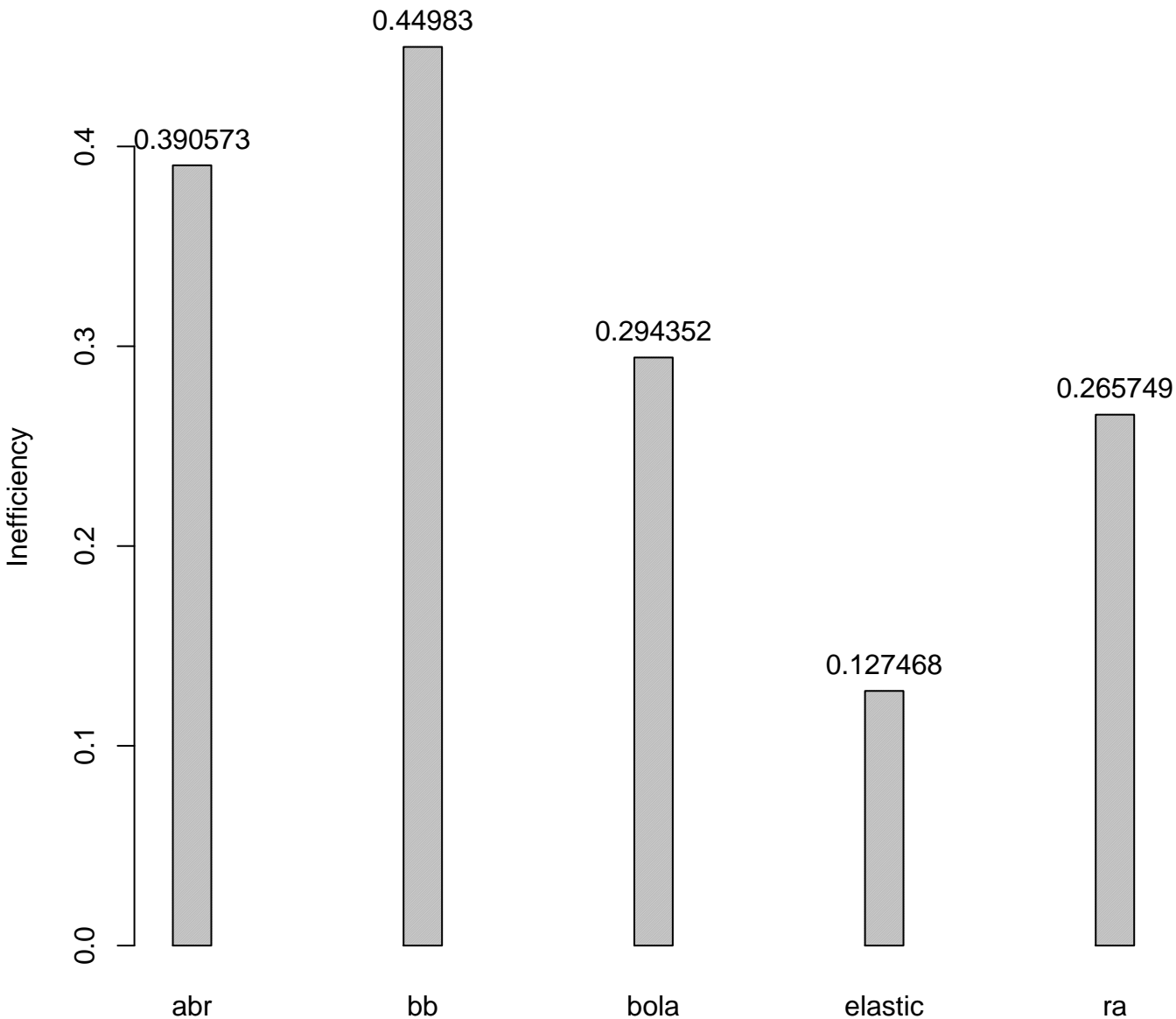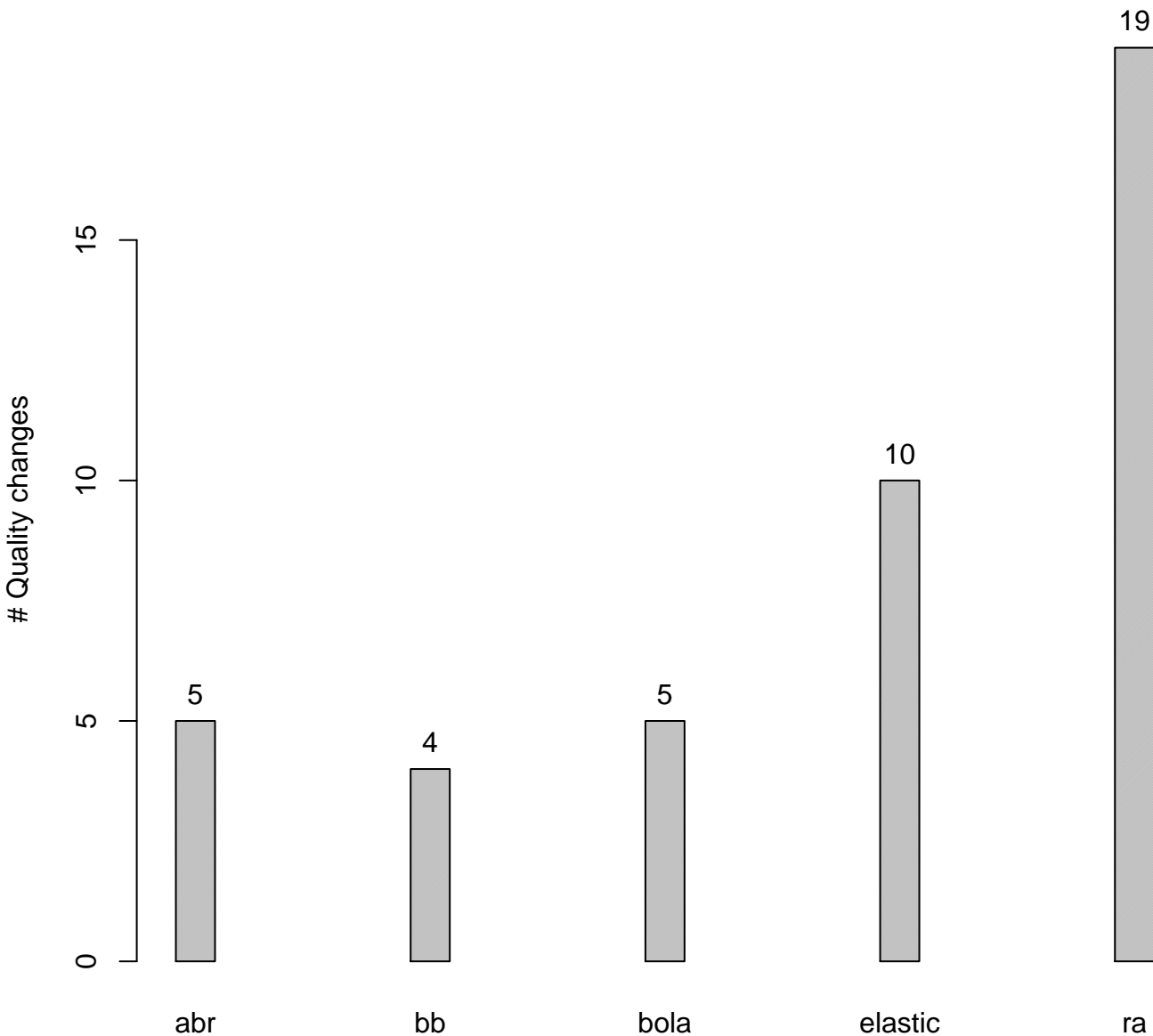**Buffer: 240 max: bb**

Network profile: p2 Sample: t4 Metric: Inefficiency
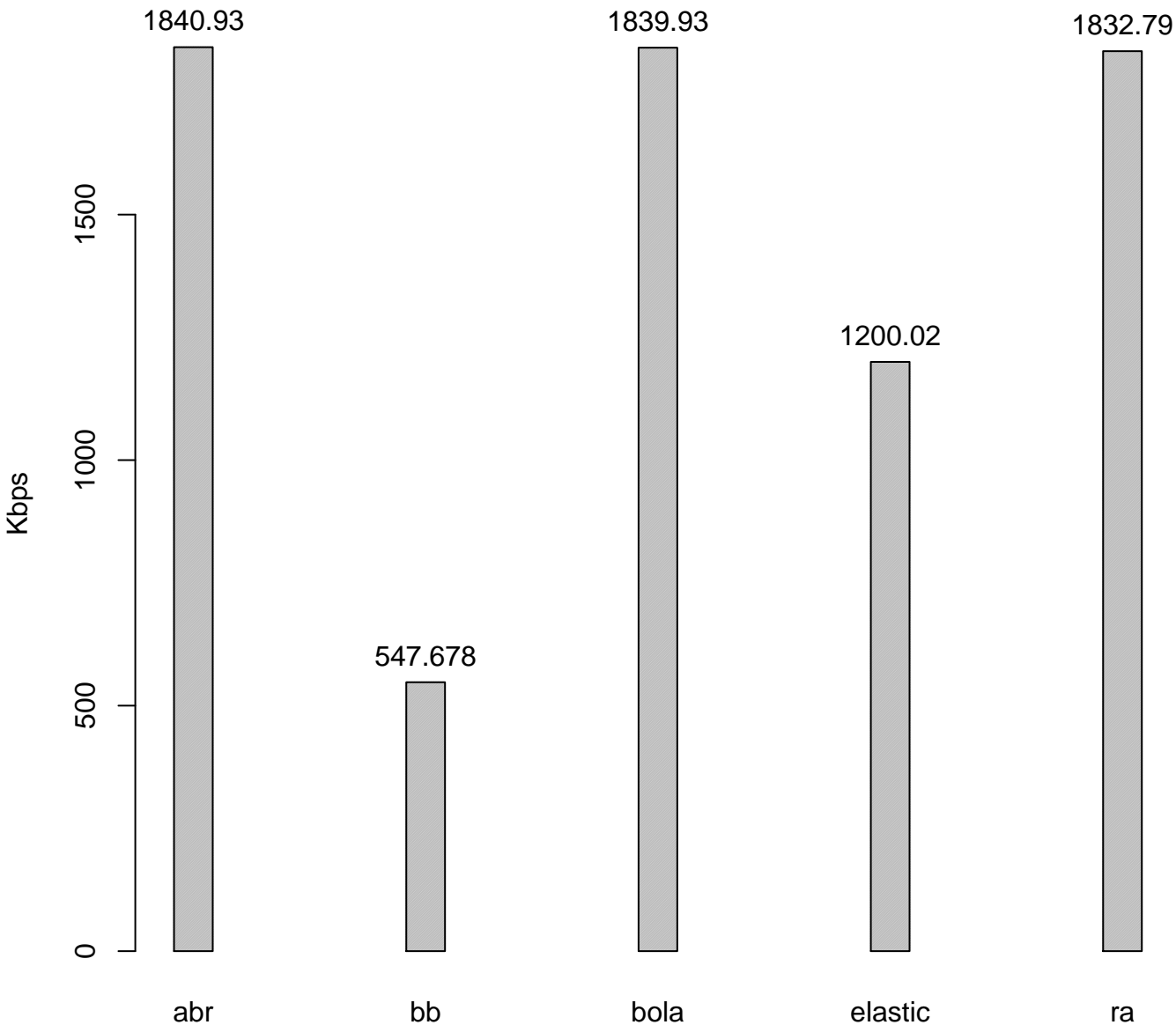**Buffer: 240   min: elastic**

Network profile: p2 Sample: t4 Metric: # quality change
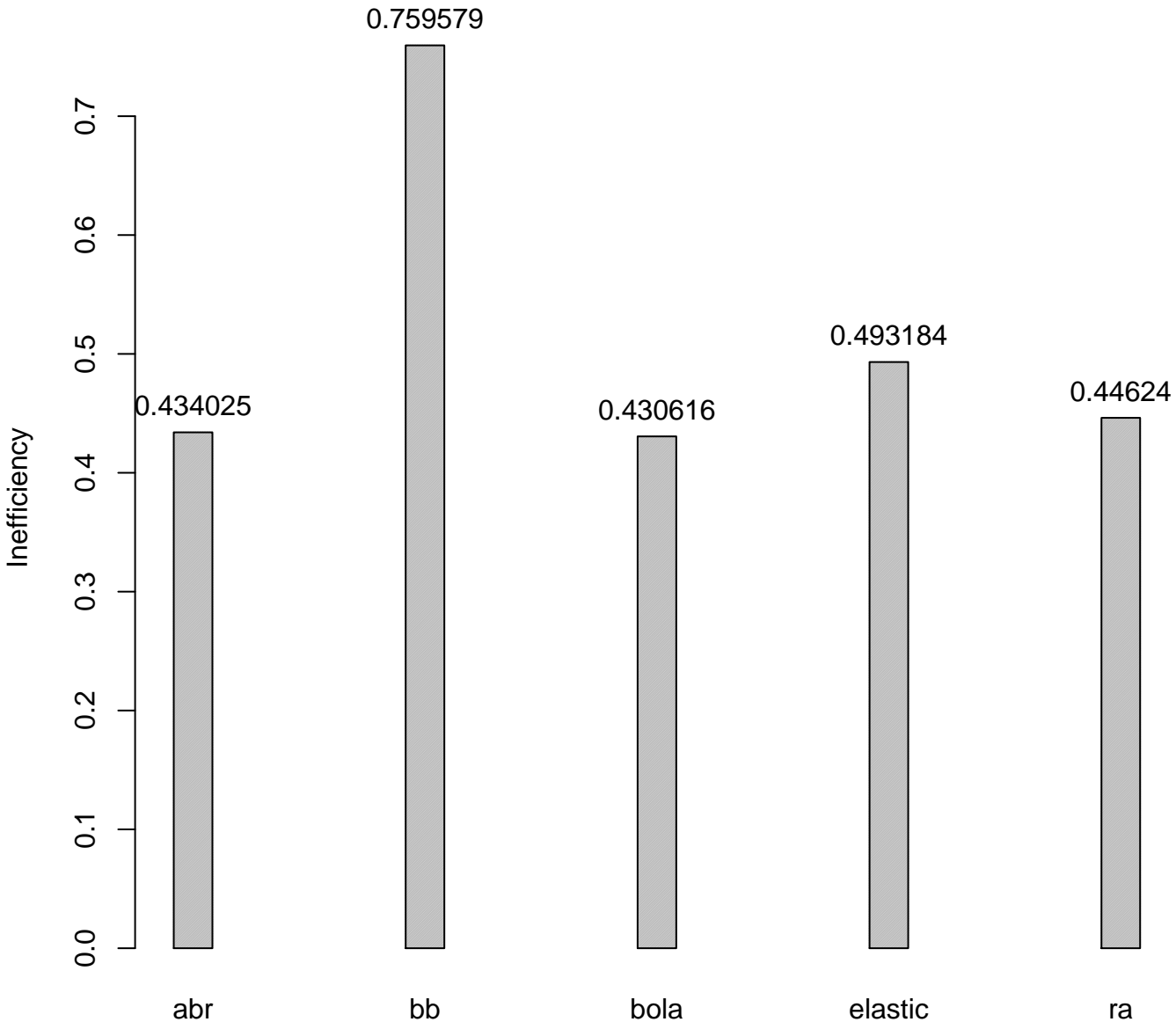**Buffer: 240 min: bb**

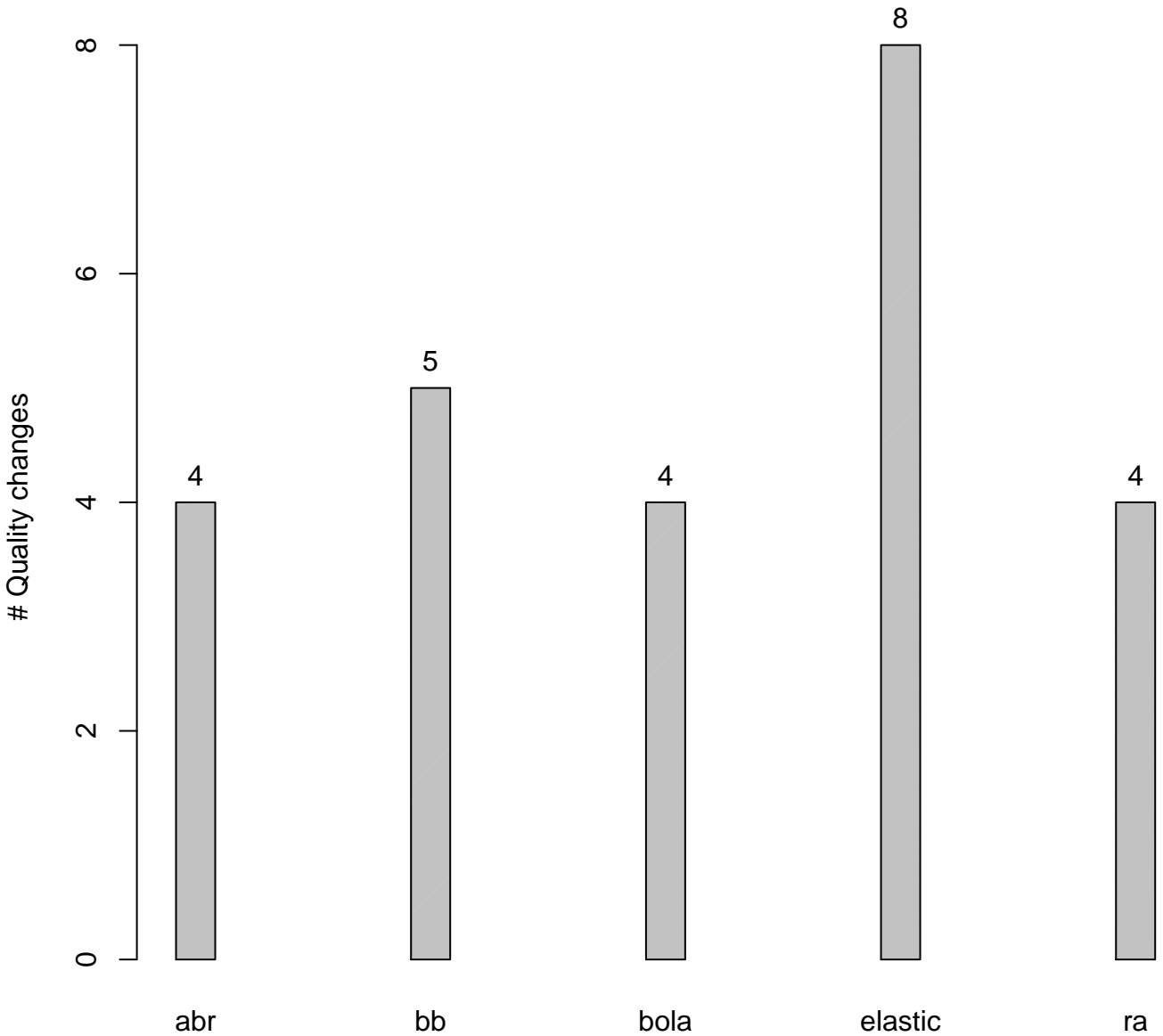**Network profile: p2 Sample: t5 Metric: Avg−Bitrate**
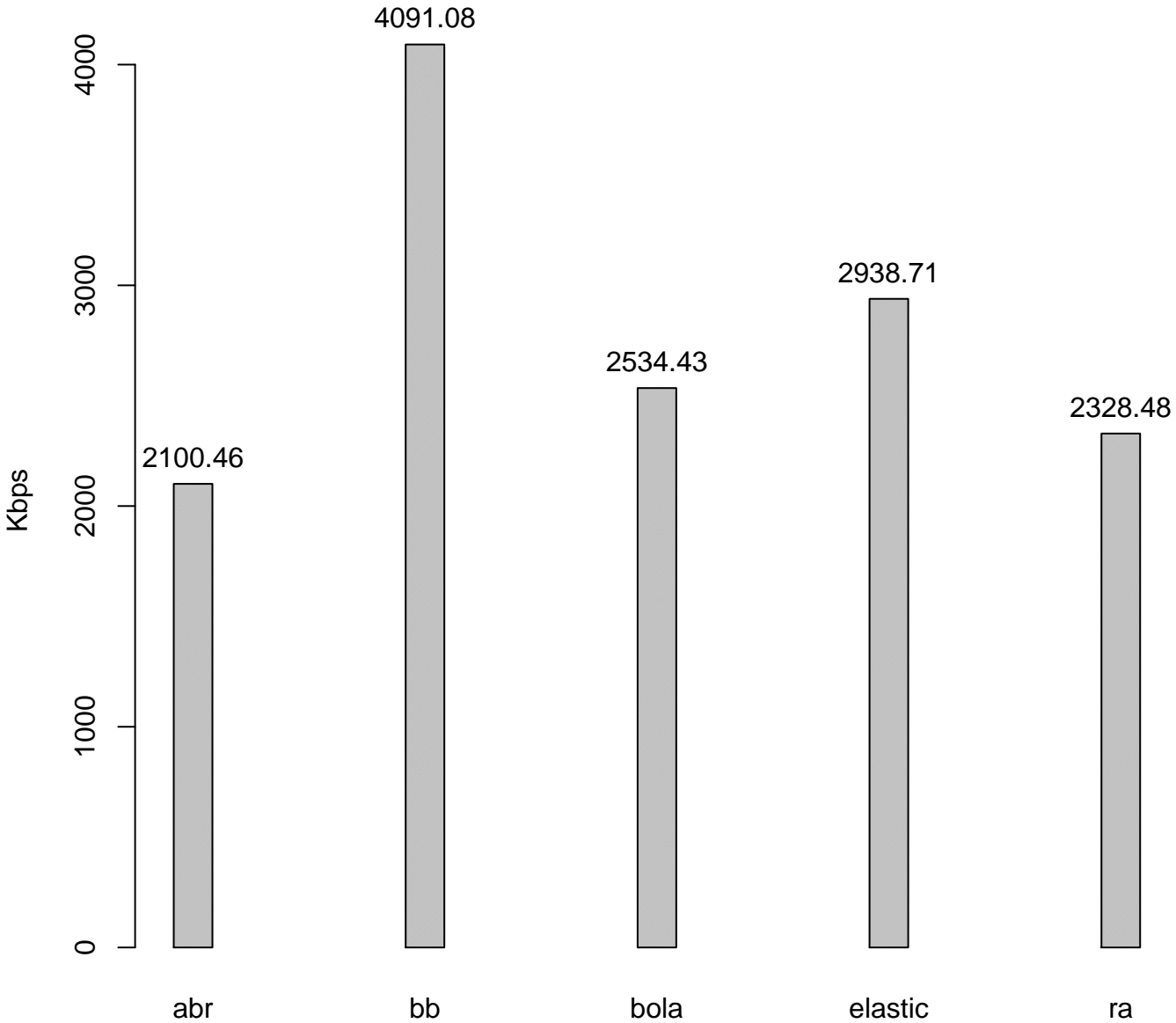**Buffer: 240   max: abr**

Network profile: p2 Sample: t5 Metric: Inefficiency Buffer: 240 min: bola
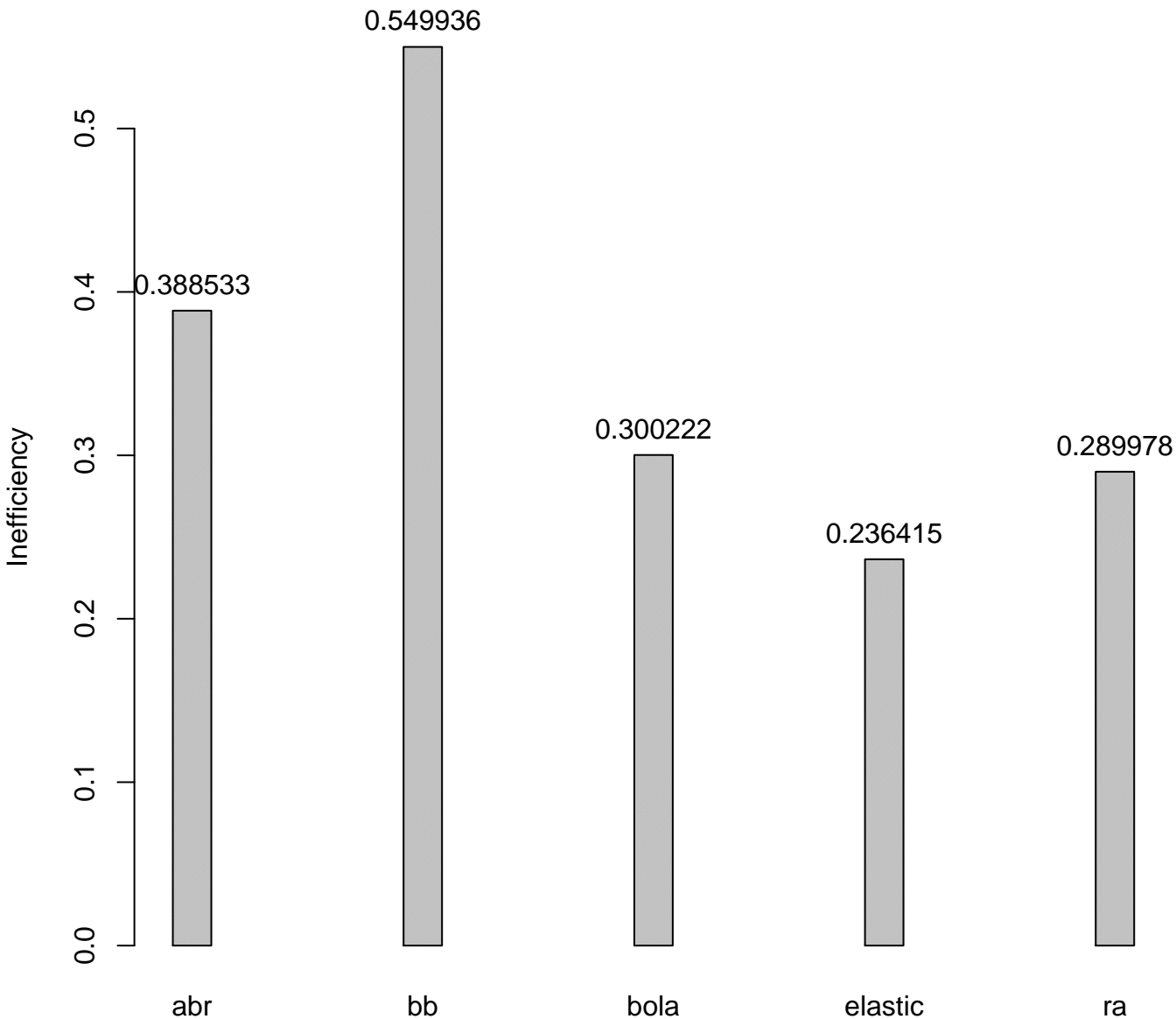
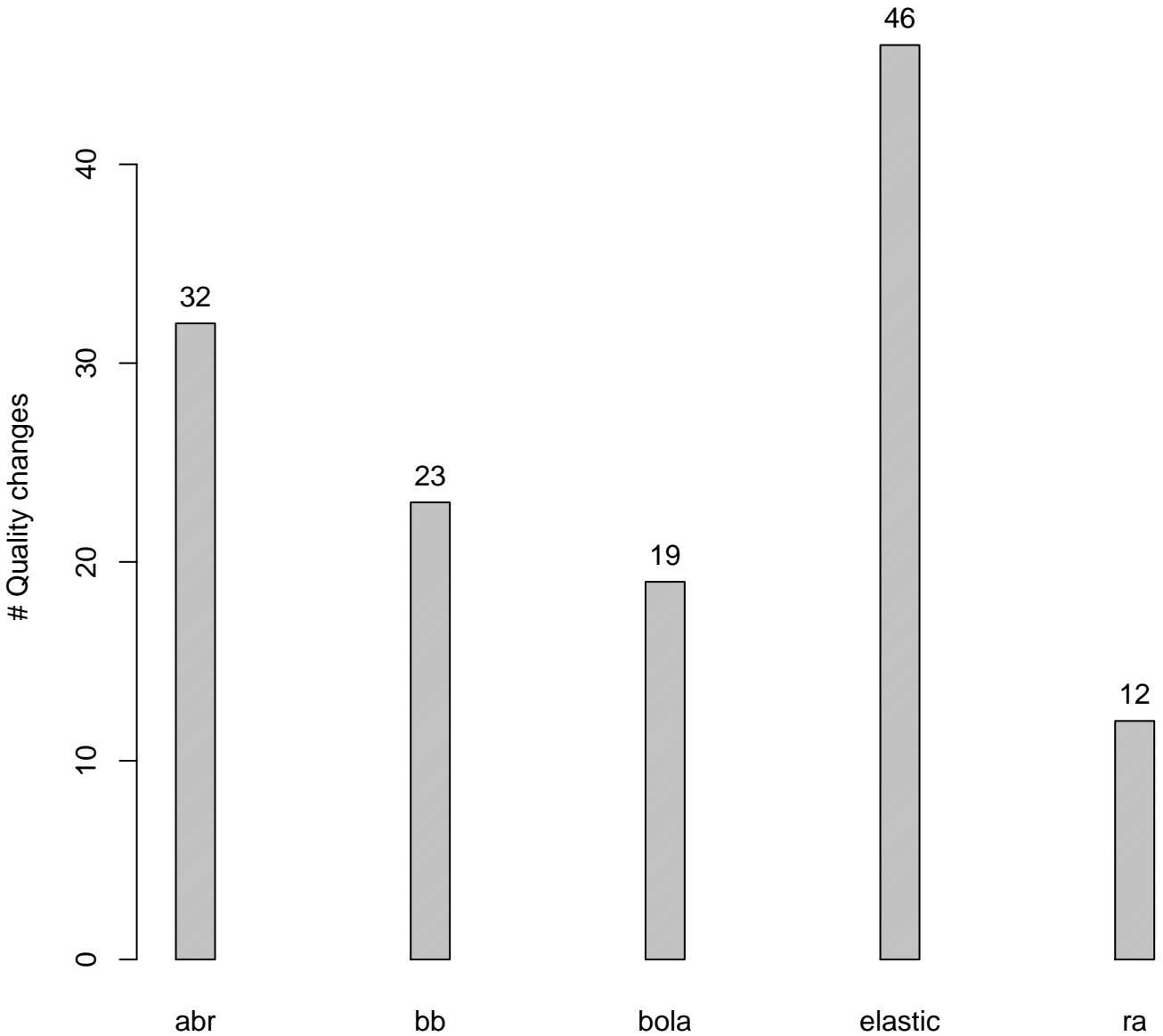**Network profile: p2 Sample: t5 Metric: # quality change**
Buffer: 240 min: abr

Network profile: p2 Sample: t6 Metric: Avg−Bitrate
Buffer: 240   max: bb

Network profile: p2 Sample: t6 Metric: Inefficiency
Buffer: 240 min: elastic

Inefficiency

0.388533

0.549936

0.300222

0.236415

0.289978

abr   bb   bola   elastic   ra

Network profile: p2 Sample: t6 Metric: # quality change
Buffer: 240 min: ra

Network profile: p2 Sample: t7 Metric: Avg−Bitrate
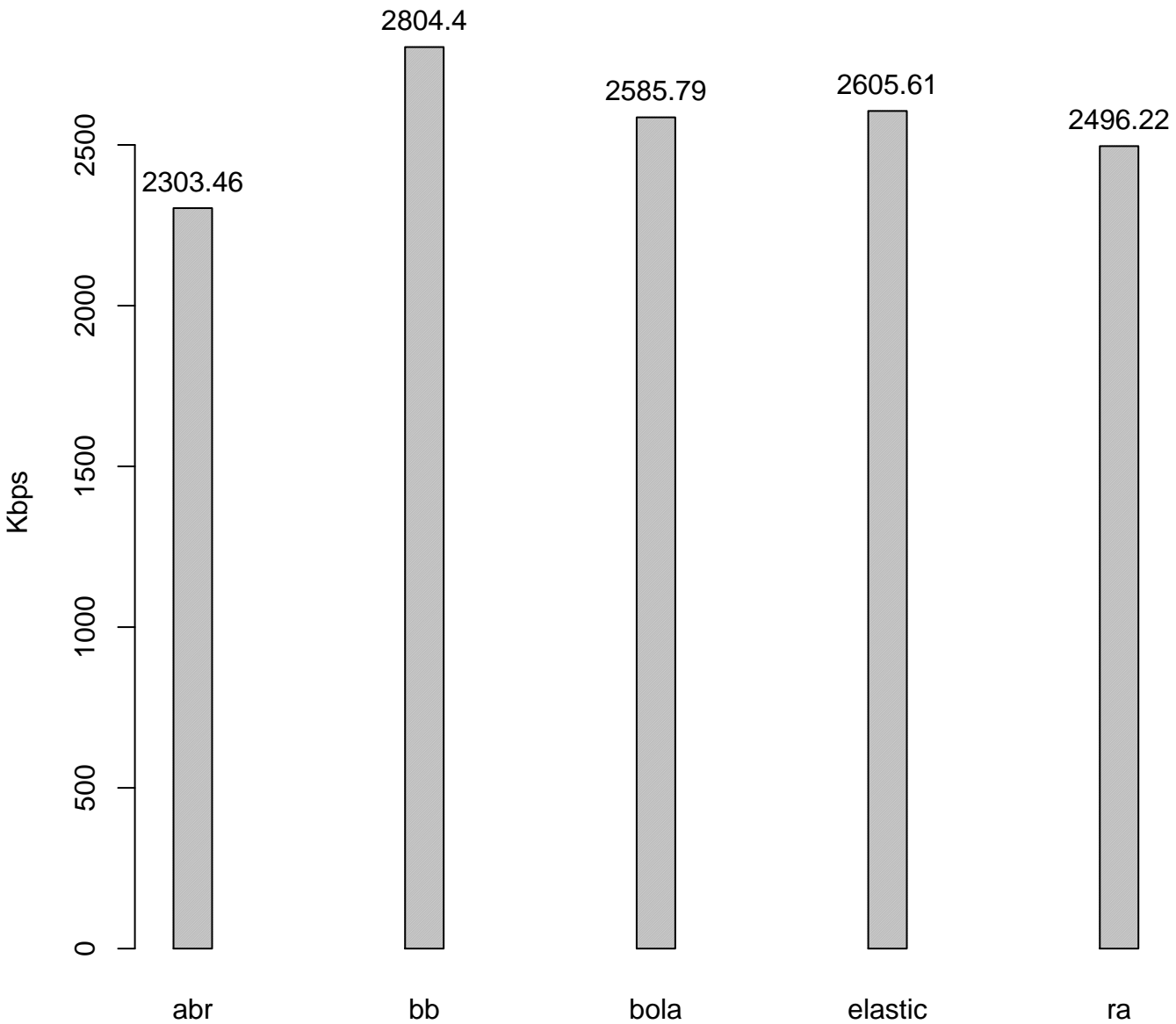**Buffer: 240   max: bb**

Network profile: p2 Sample: t7 Metric: Inefficiency
Buffer: 240 min: elastic

**Network profile: p2 Sample: t7 Metric: # quality change
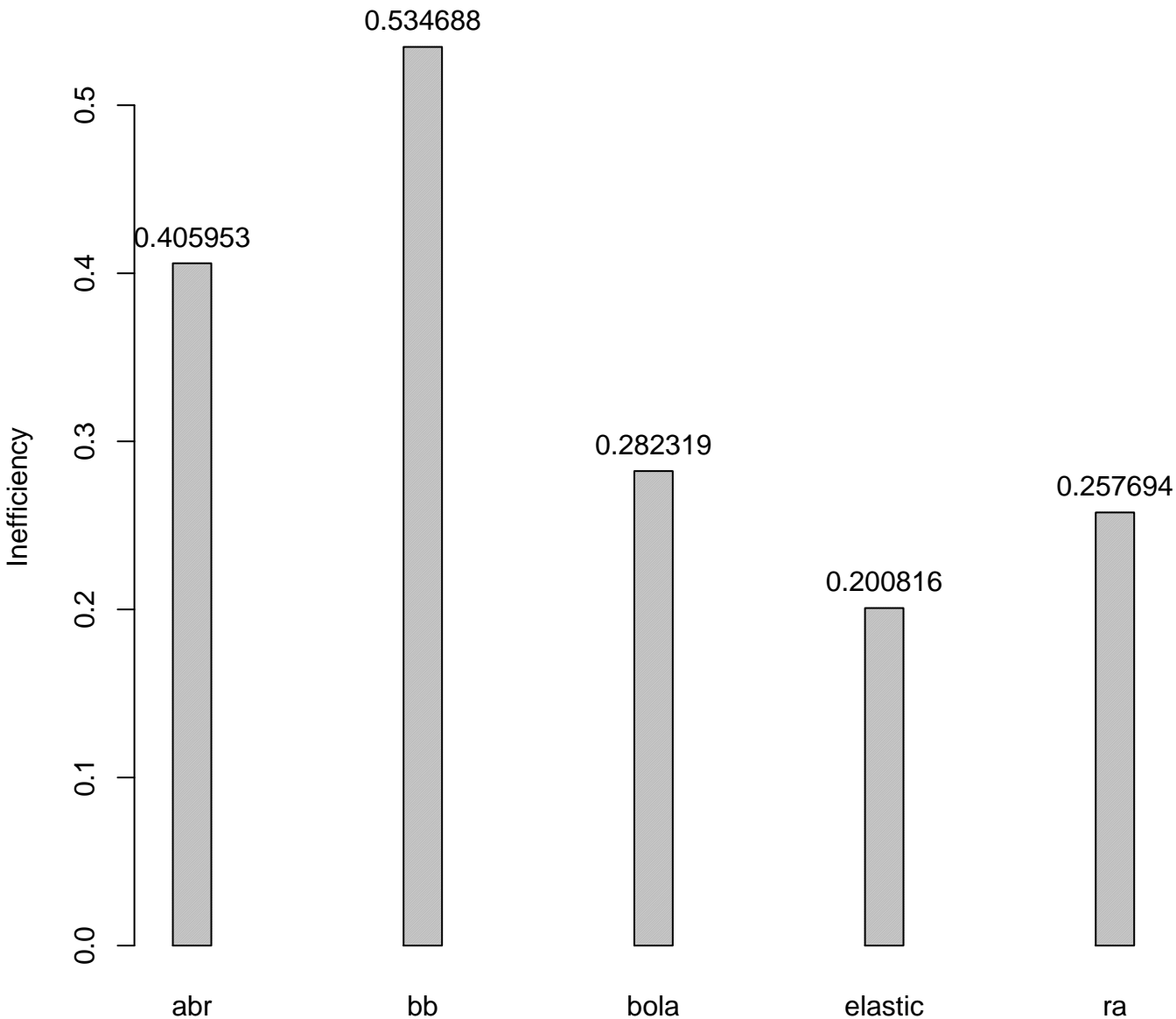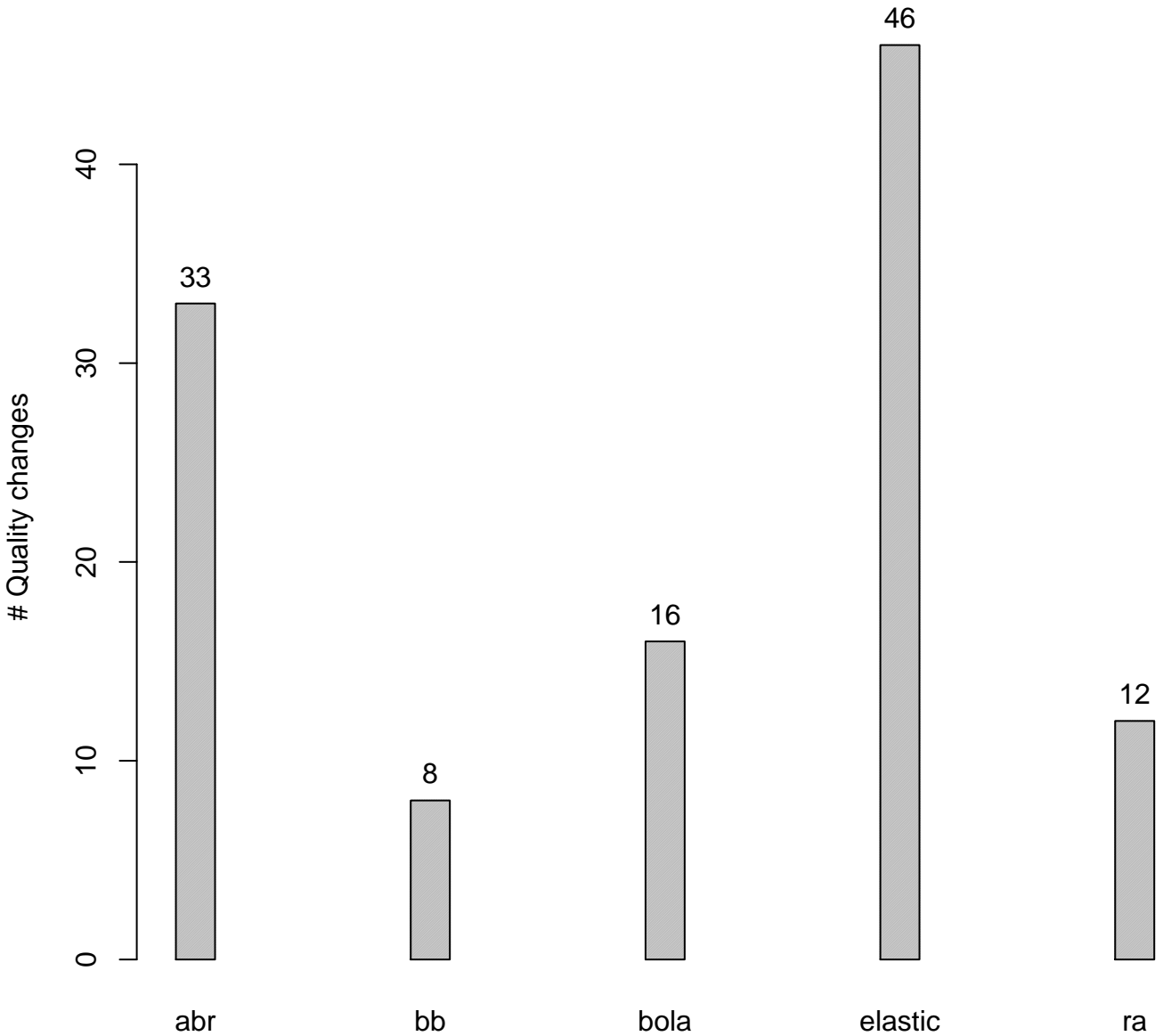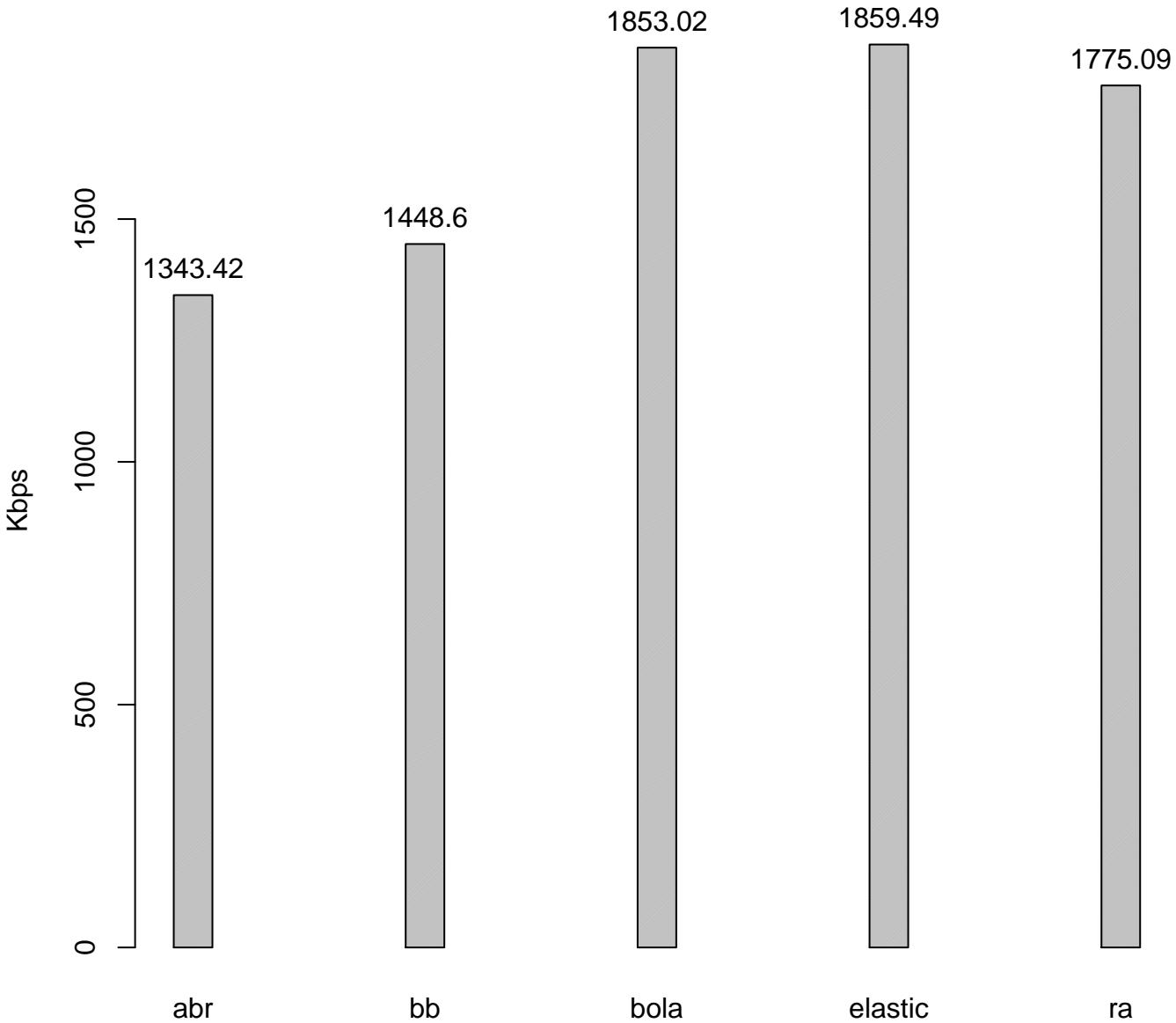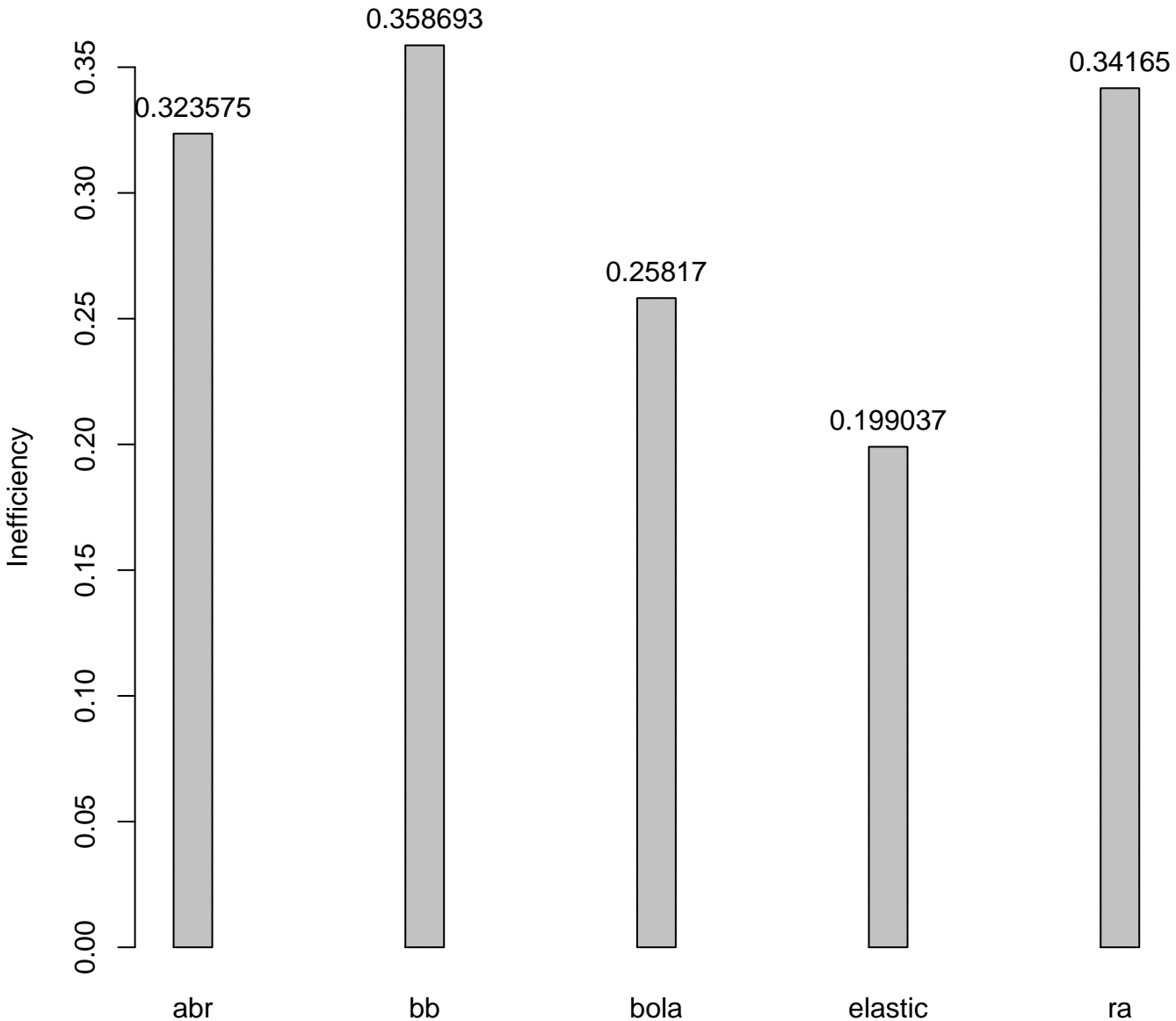Buffer: 240 min: bb**

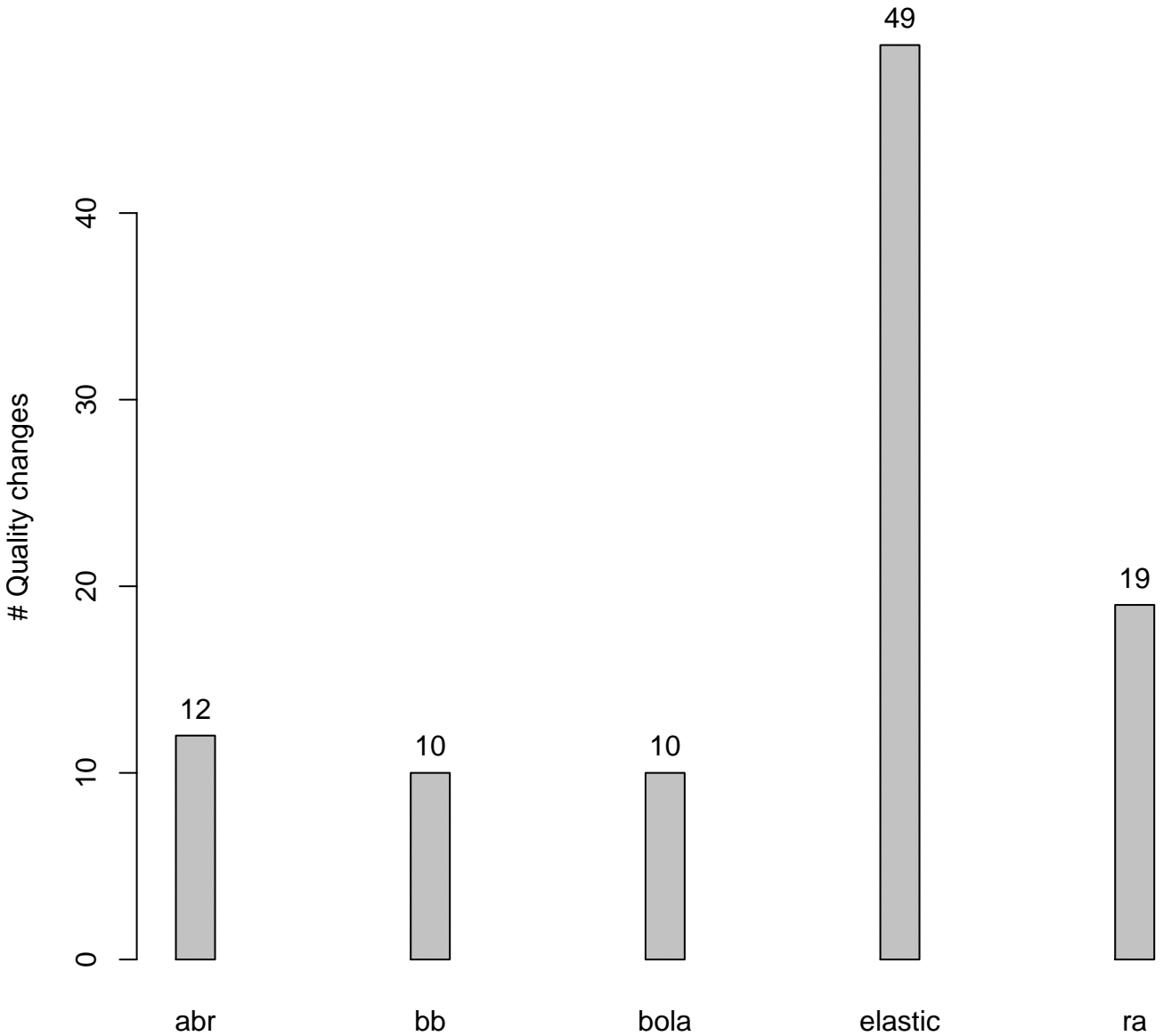**Network profile: p3 Sample: t1 Metric: Avg−Bitrate**
Buffer: 240 max: elastic

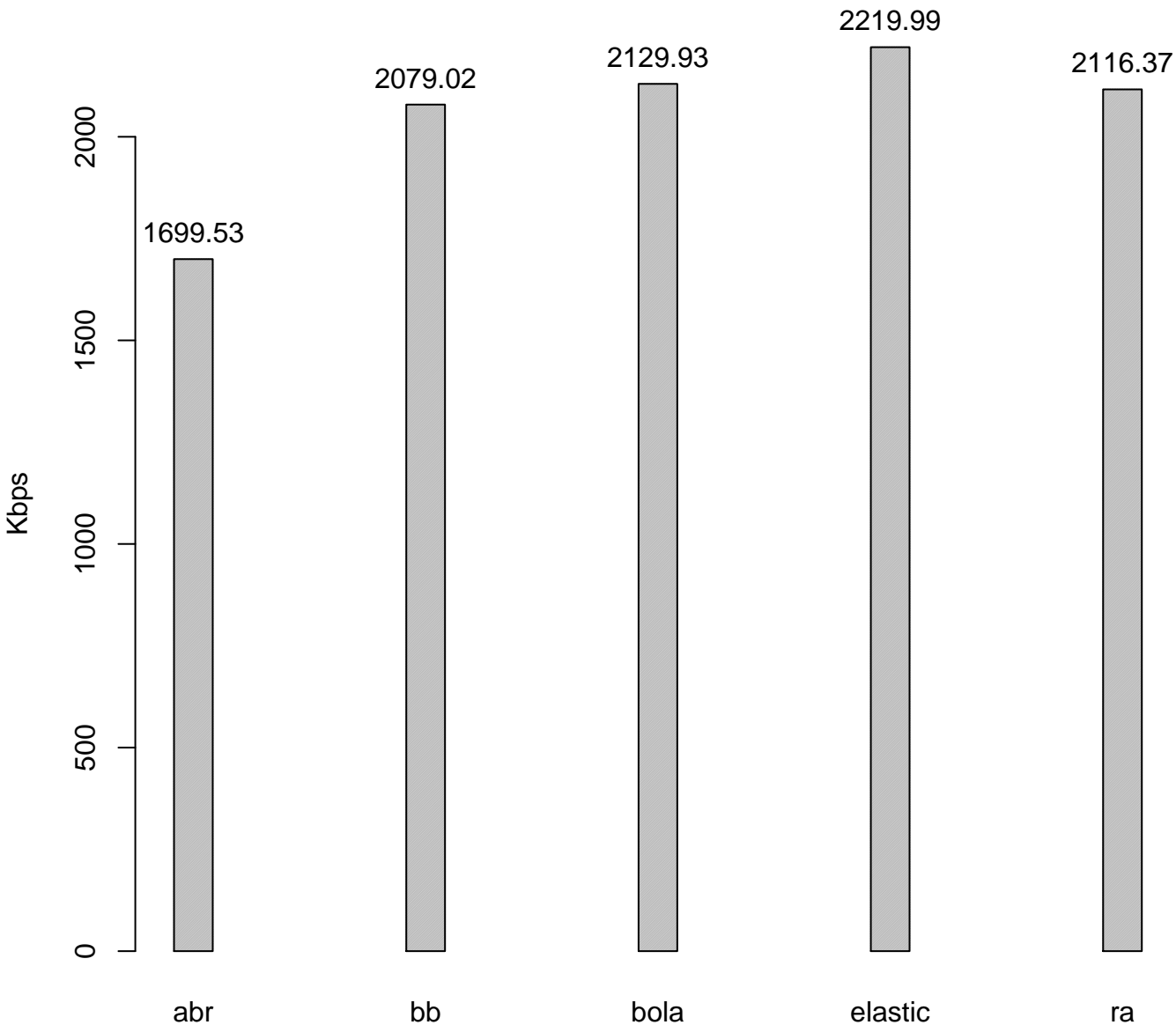**Network profile: p3 Sample: t1 Metric: Inefficiency**
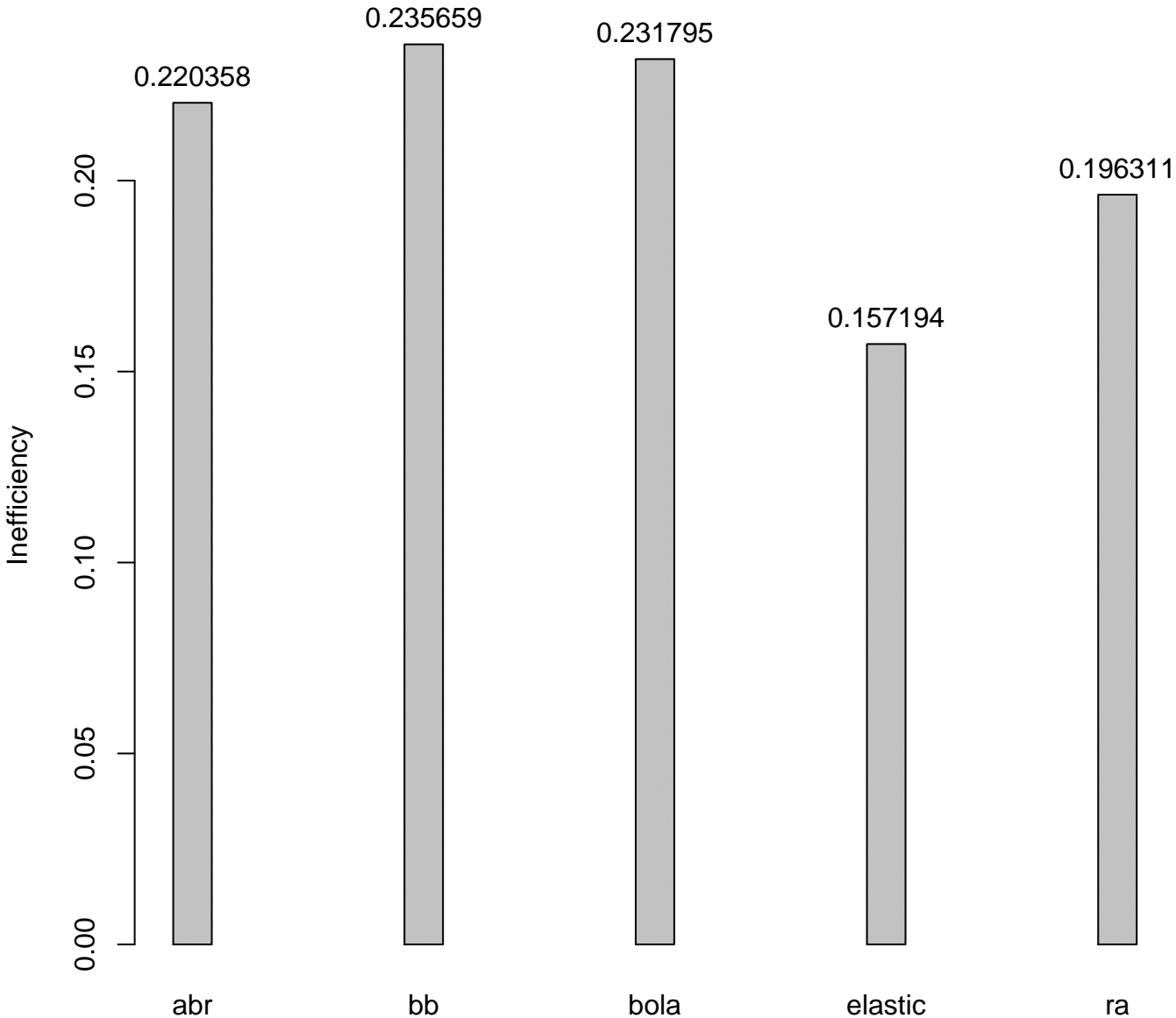**Buffer: 240 min: elastic**

Network profile: p3 Sample: t1 Metric: # quality change
Buffer: 240 min: bb

Network profile: p3 Sample: t2 Metric: Avg−Bitrate
Buffer: 240 max: elastic

Network profile: p3 Sample: t2 Metric: Inefficiency
Buffer: 240 min: elastic

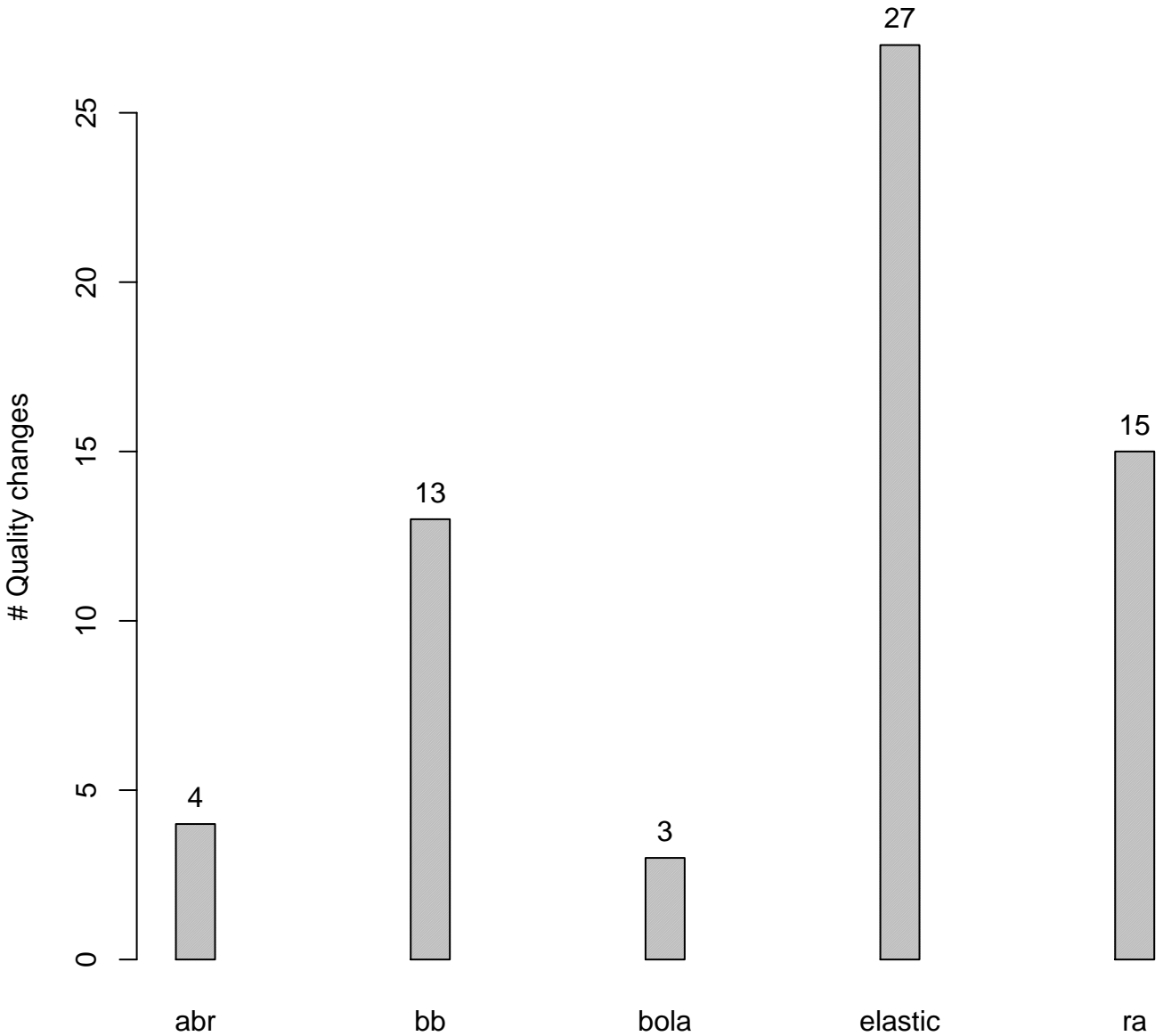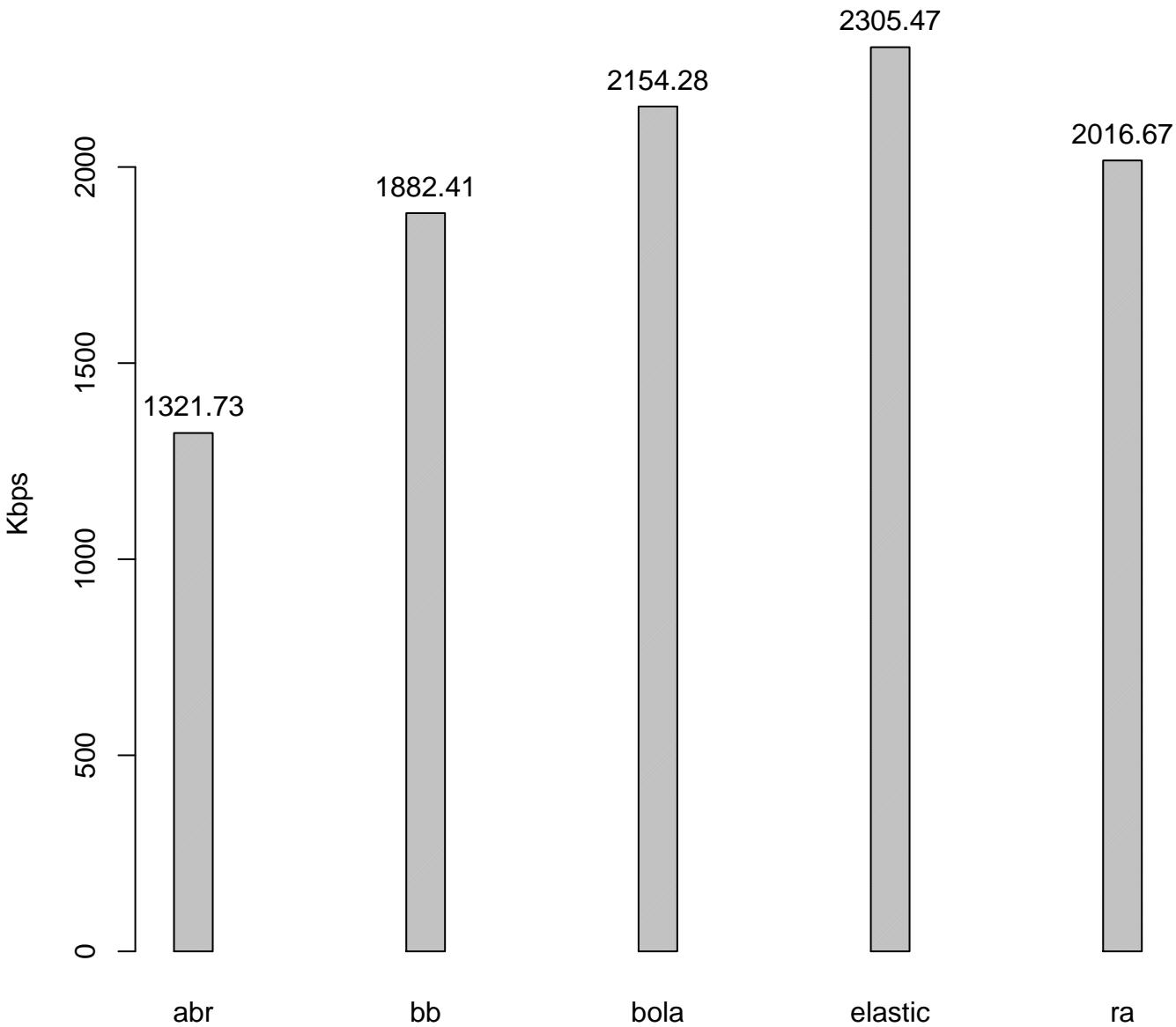**Network profile: p3 Sample: t2 Metric: # quality change
Buffer: 240 min: bola**

Quality changes

27

25

20

15

15

13

10

5

4

3

0

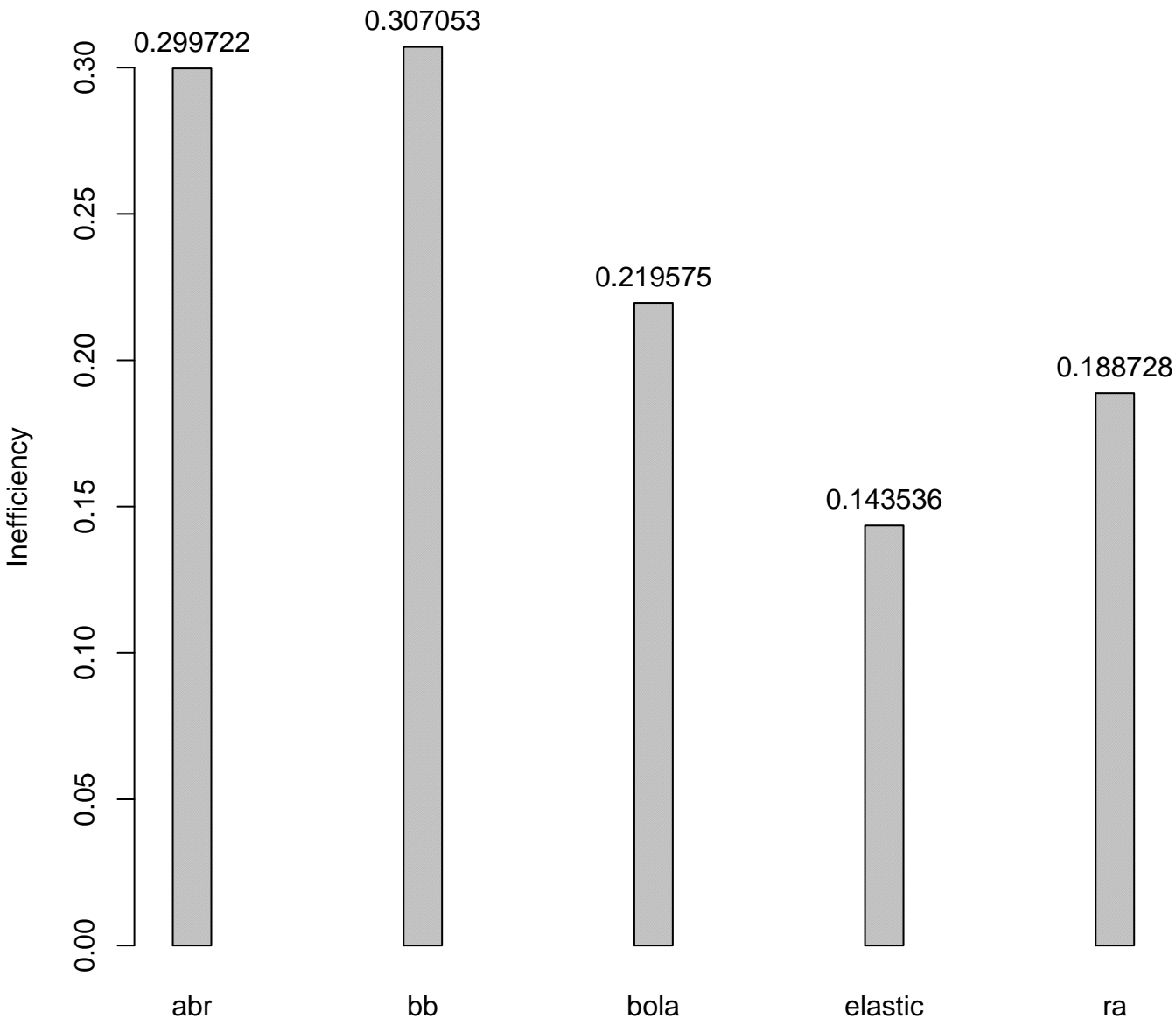abr   bb   bola   elastic   ra

Network profile: p3 Sample: t3 Metric: Avg−Bitrate
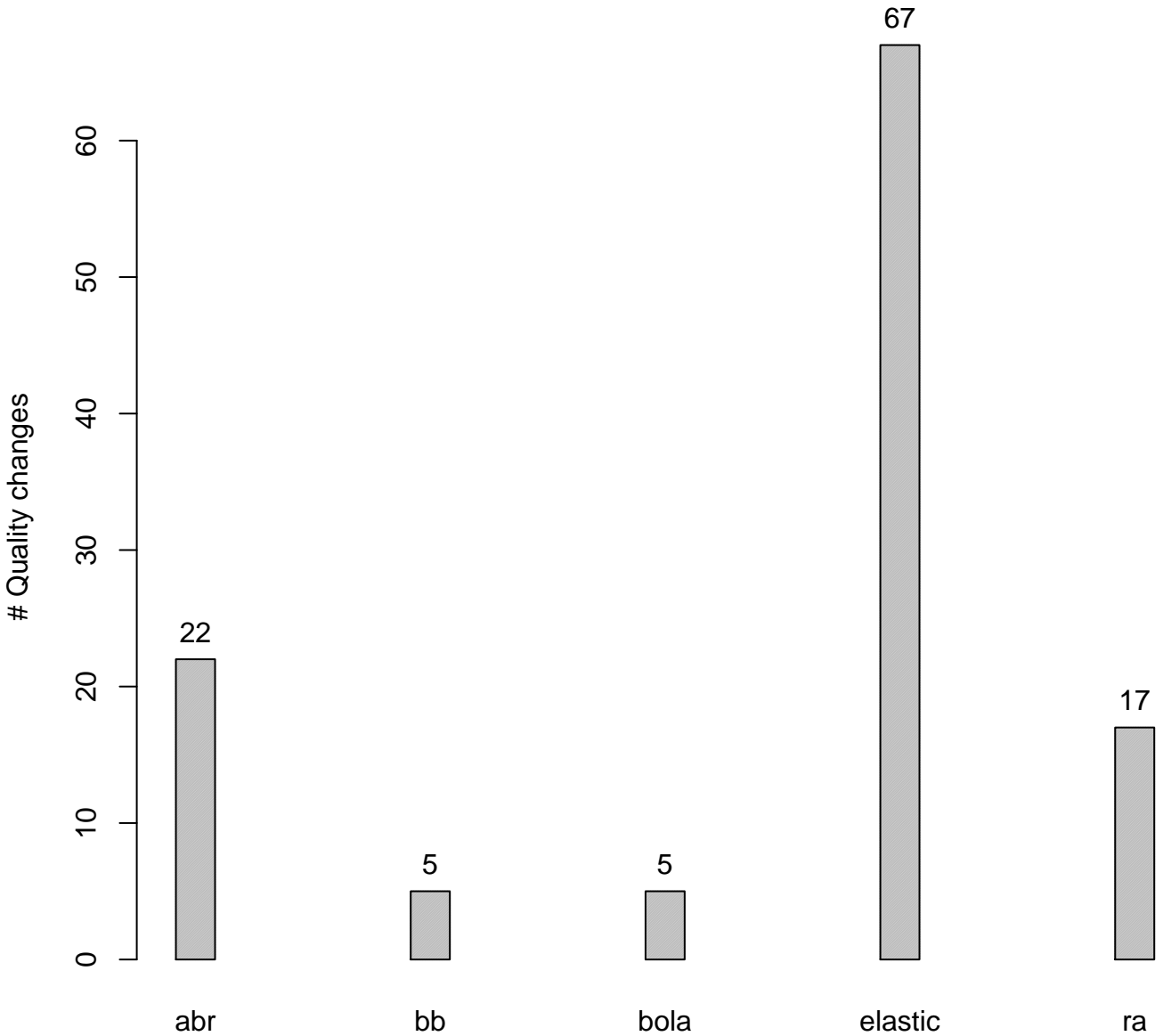**Buffer: 240   max: elastic**

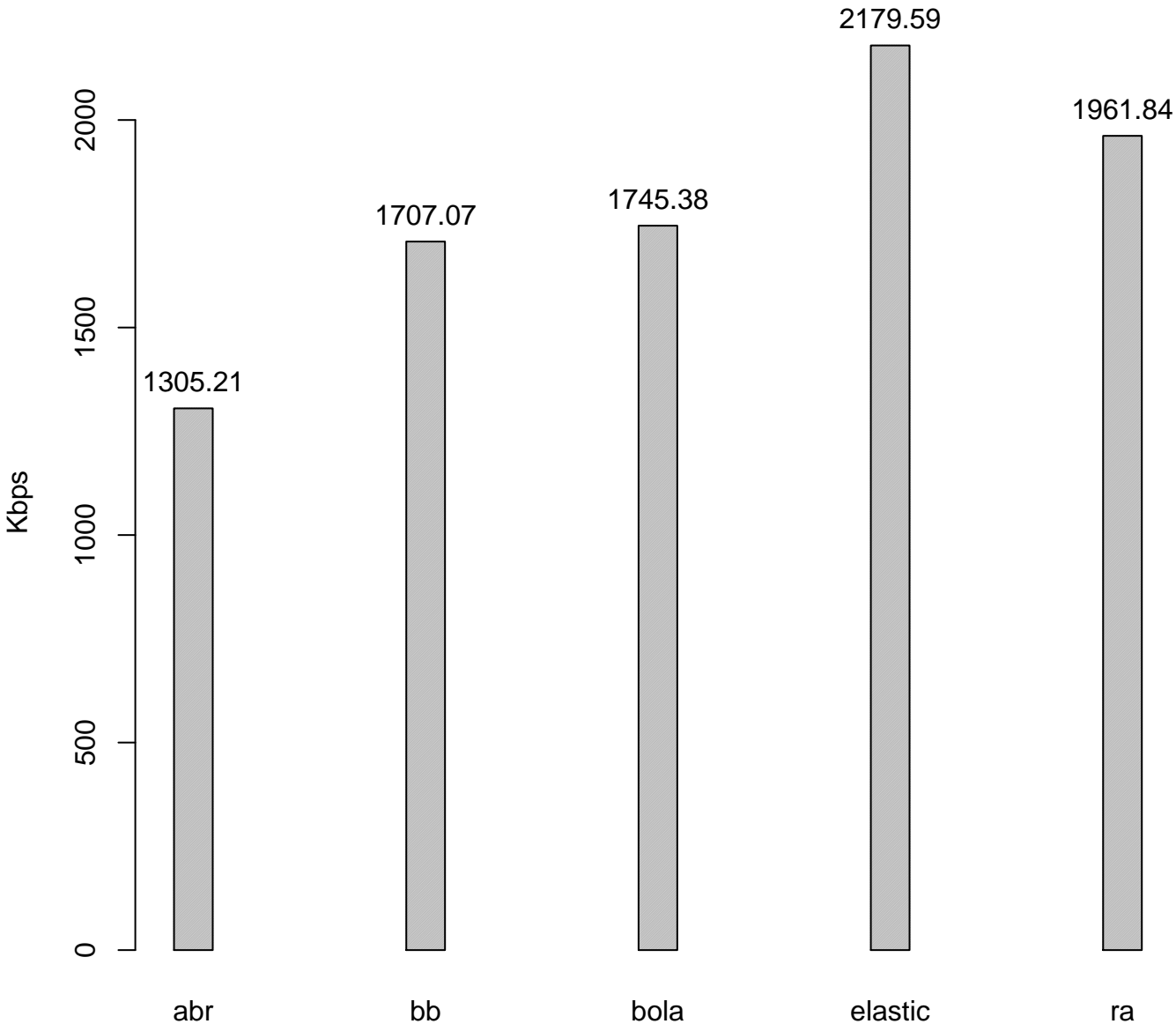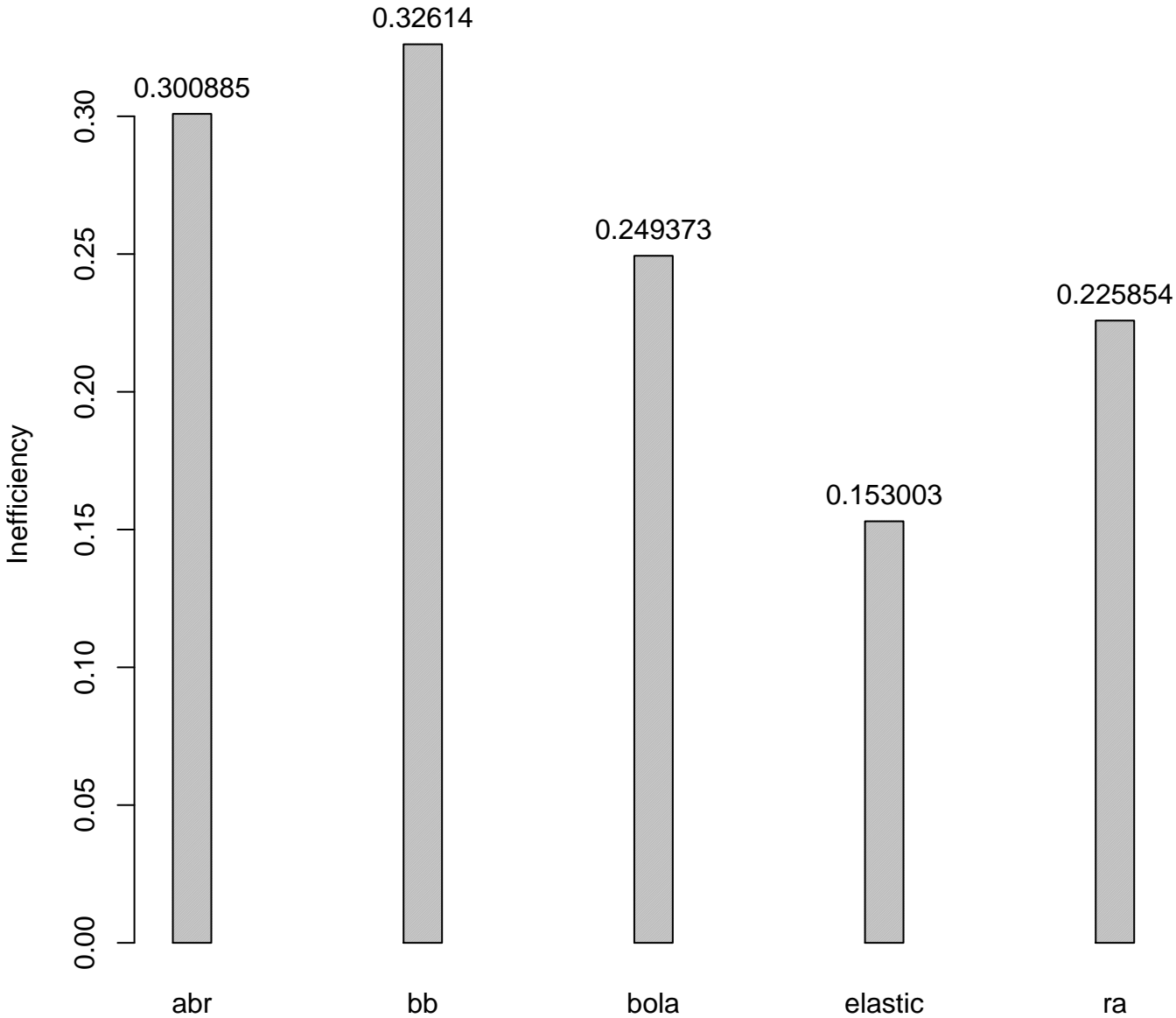**Network profile: p3 Sample: t3 Metric: Inefficiency
Buffer: 240 min: elastic**

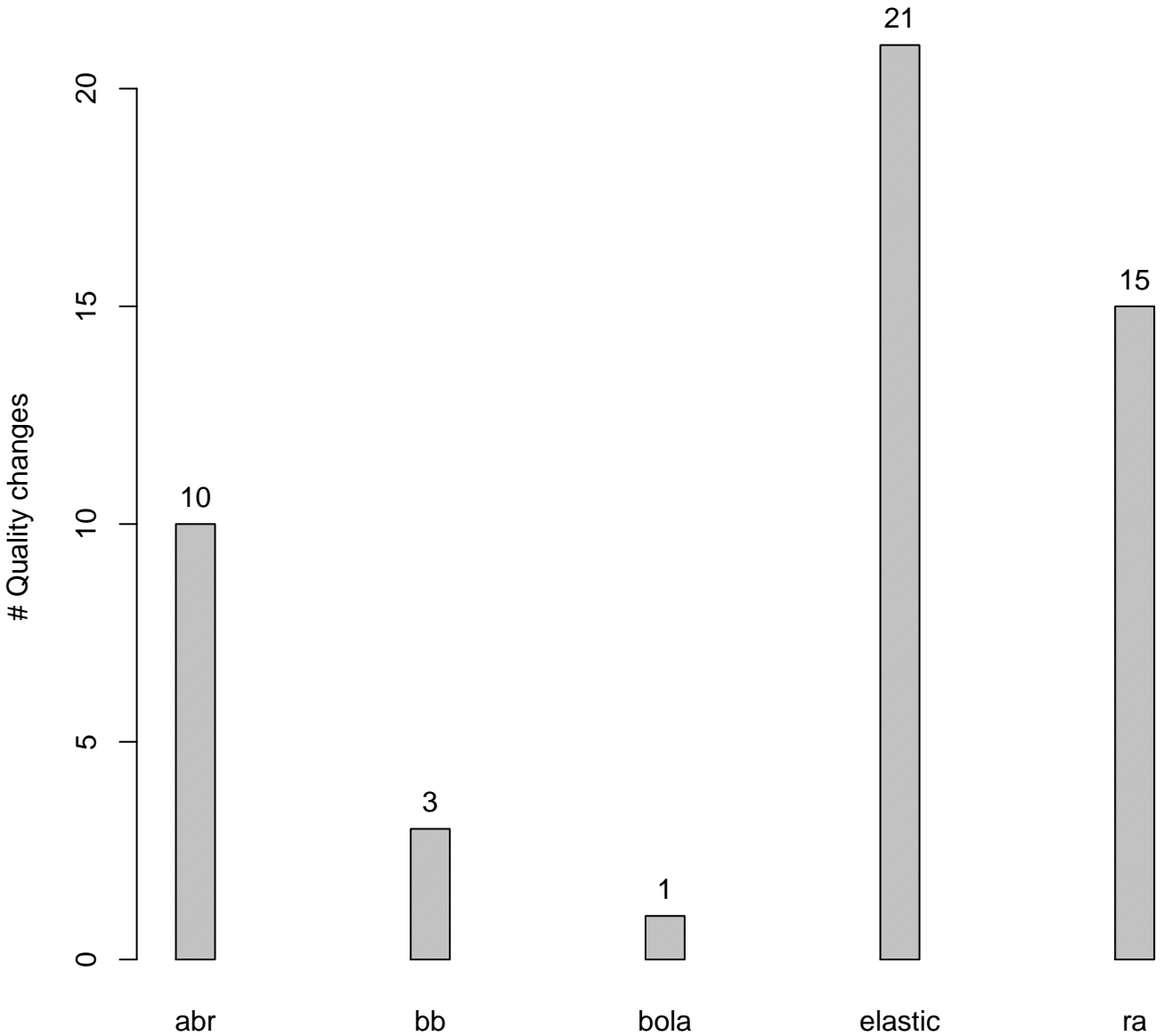**Network profile: p3 Sample: t3 Metric: # quality change**
Buffer: 240 min: bb

Network profile: p3 Sample: t4 Metric: Avg−Bitrate
Buffer: 240 max: elastic

Kbps

abr — 1305.21
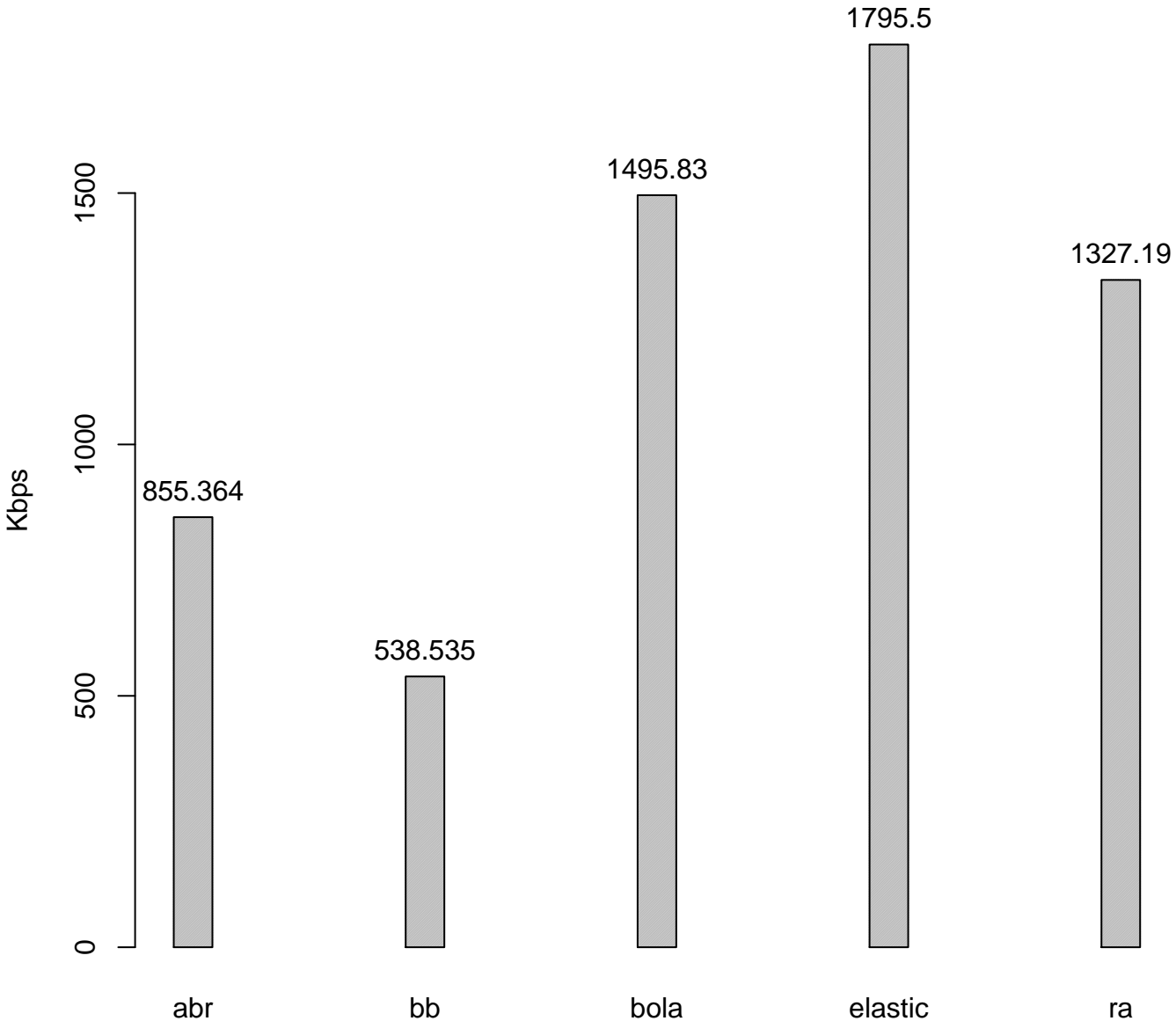bb — 1707.07
bola — 1745.38
elastic — 2179.59
ra — 1961.84

Network profile: p3 Sample: t4 Metric: Inefficiency
Buffer: 240 min: elastic

Network profile: p3 Sample: t4 Metric: # quality change
Buffer: 240 min: bola

Network profile: p3 Sample: t5 Metric: Avg−Bitrate
Buffer: 240   max: elastic

Network profile: p3 Sample: t5 Metric: Inefficiency
Buffer: 240 min: elastic

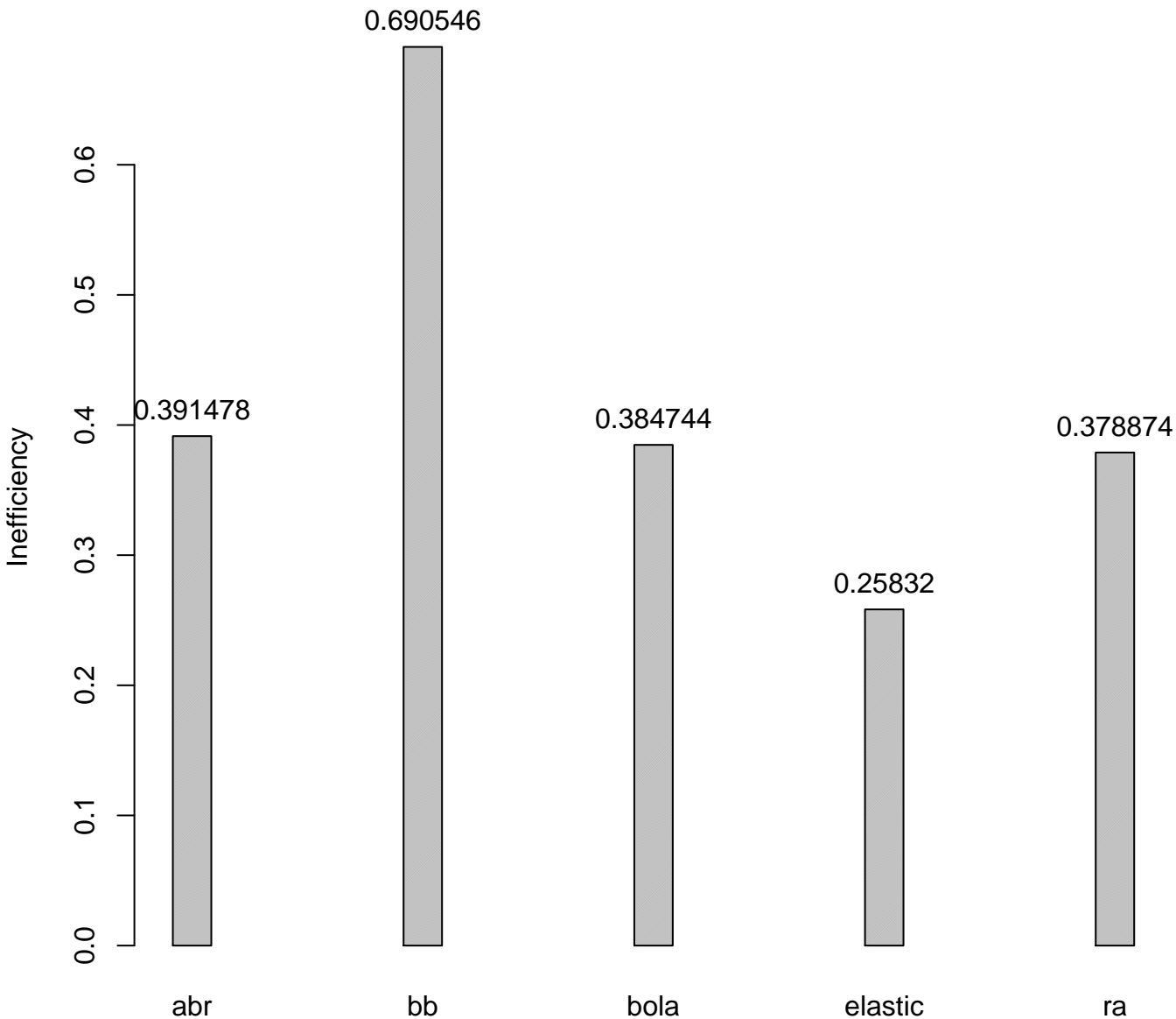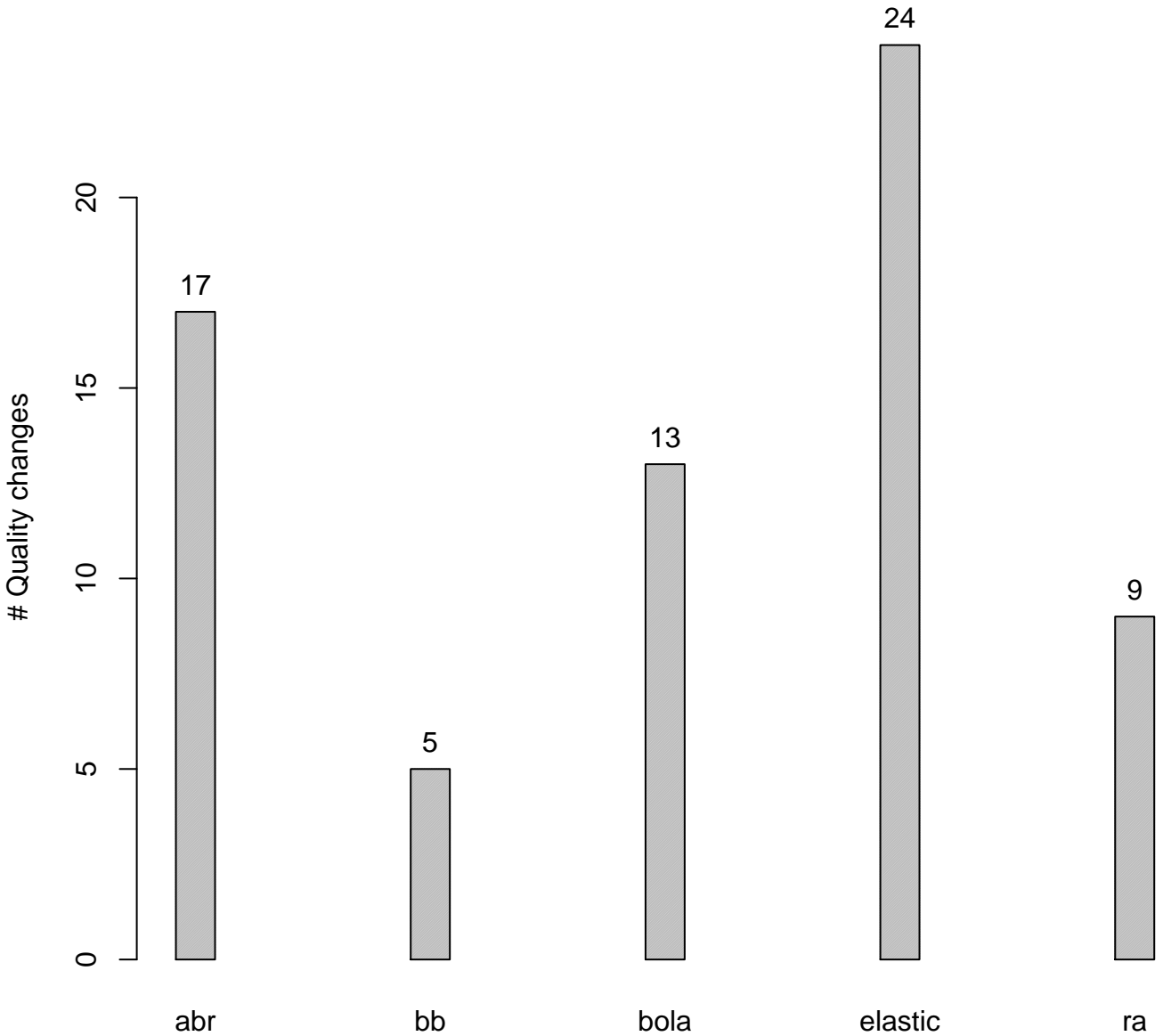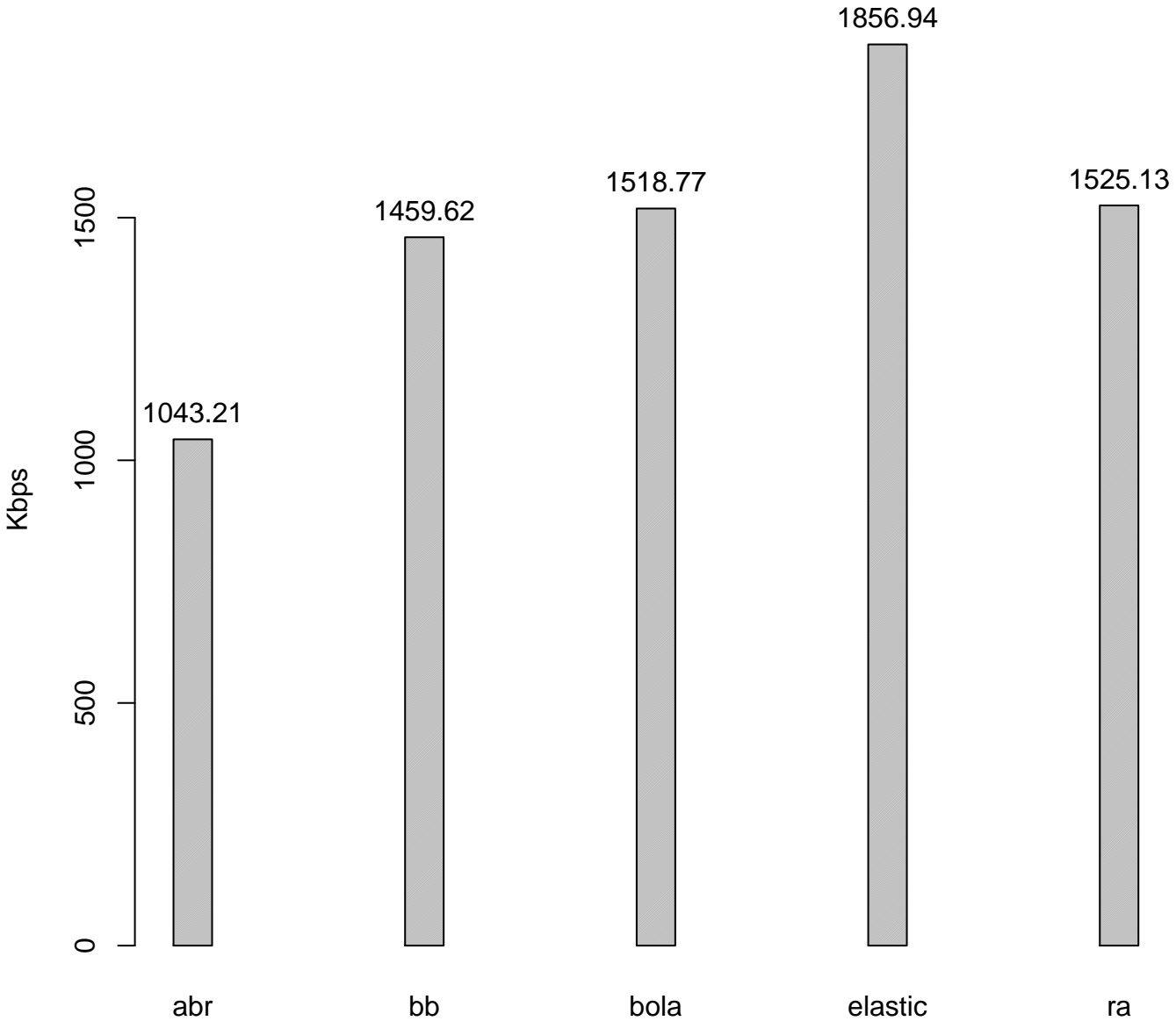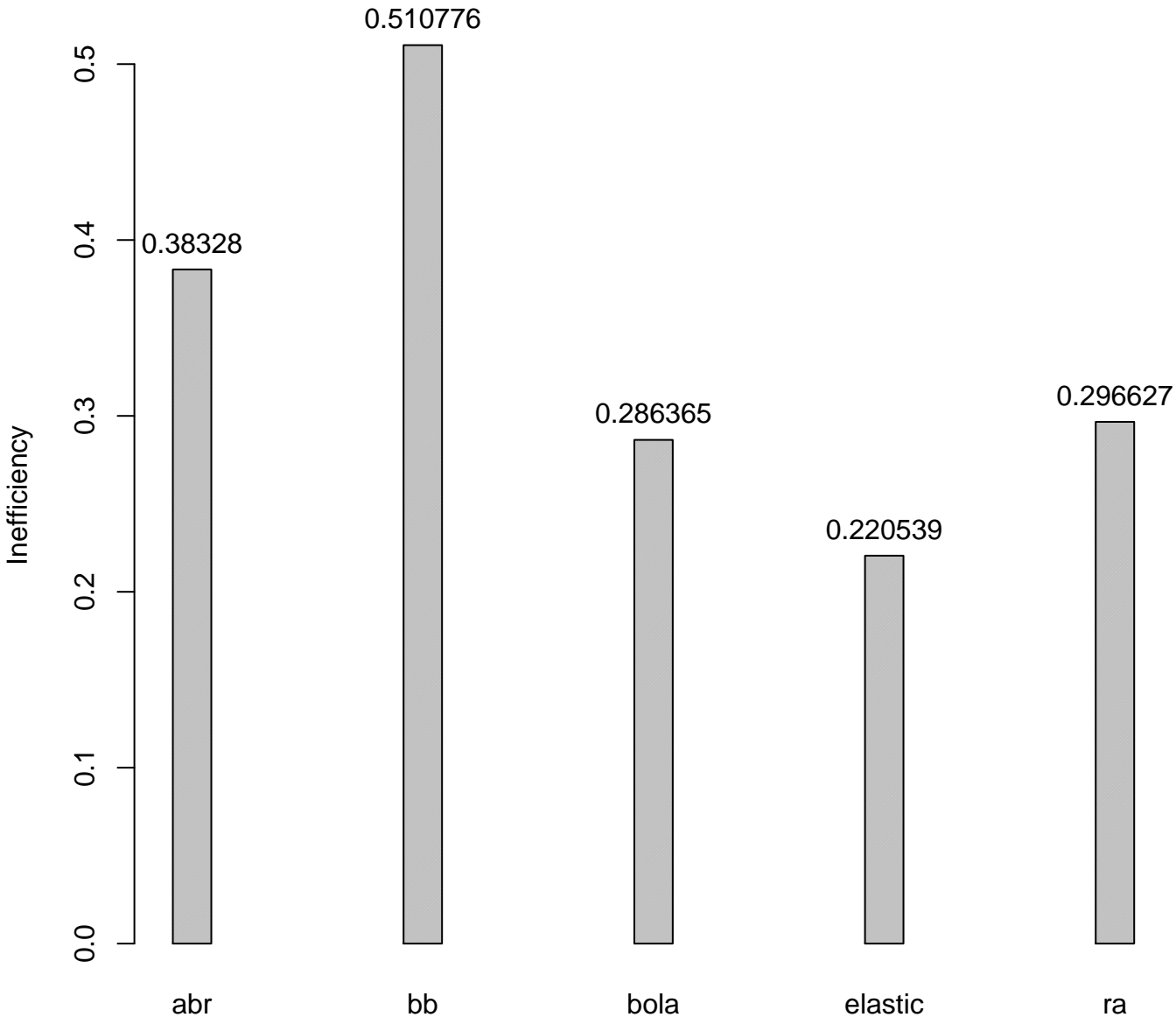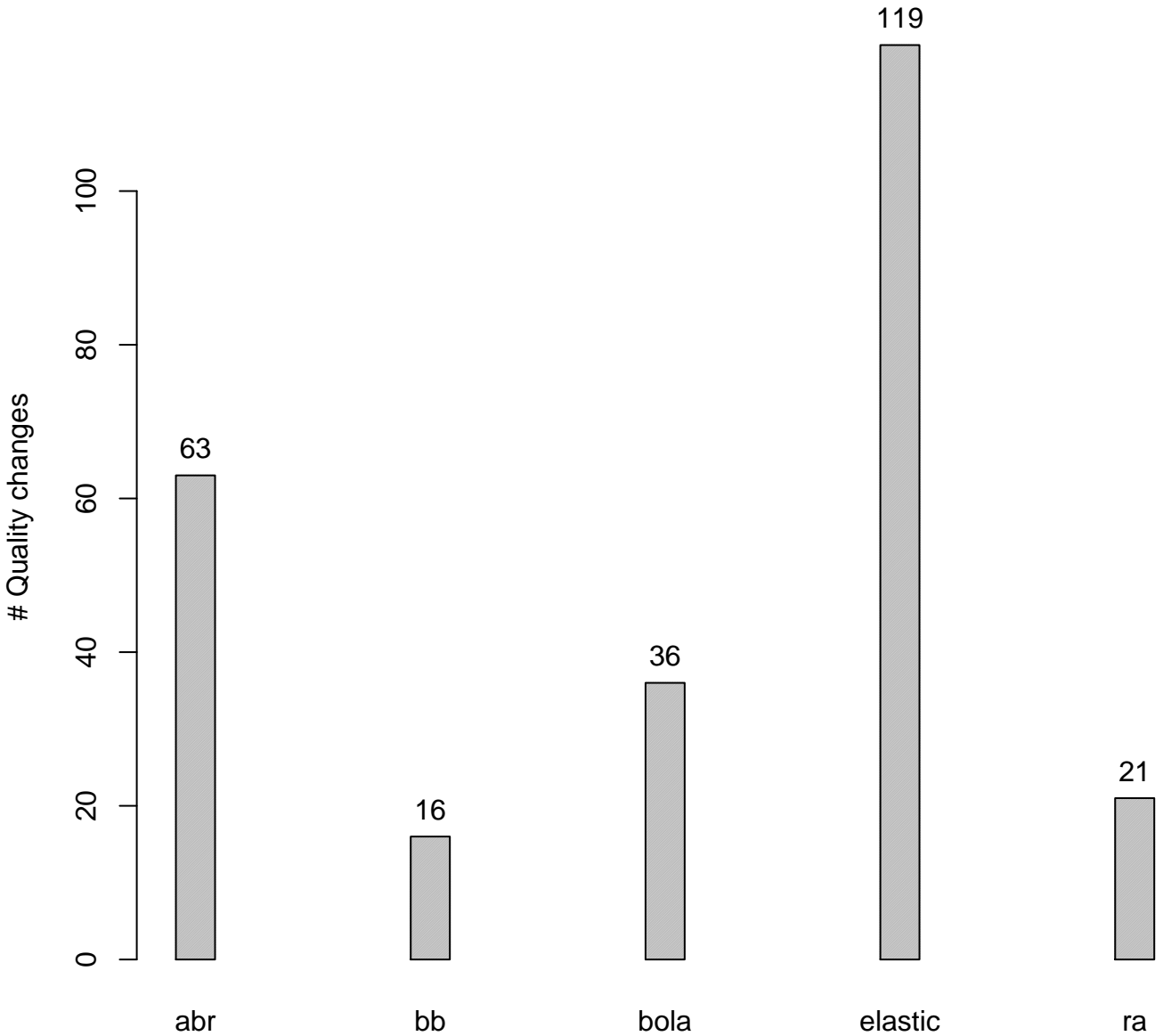**Network profile: p3 Sample: t5 Metric: # quality change Buffer: 240 min: bb**

Network profile: p3 Sample: t6 Metric: Avg−Bitrate
Buffer: 240 max: elastic

Kbps

1043.21 1459.62 1518.77 1856.94 1525.13
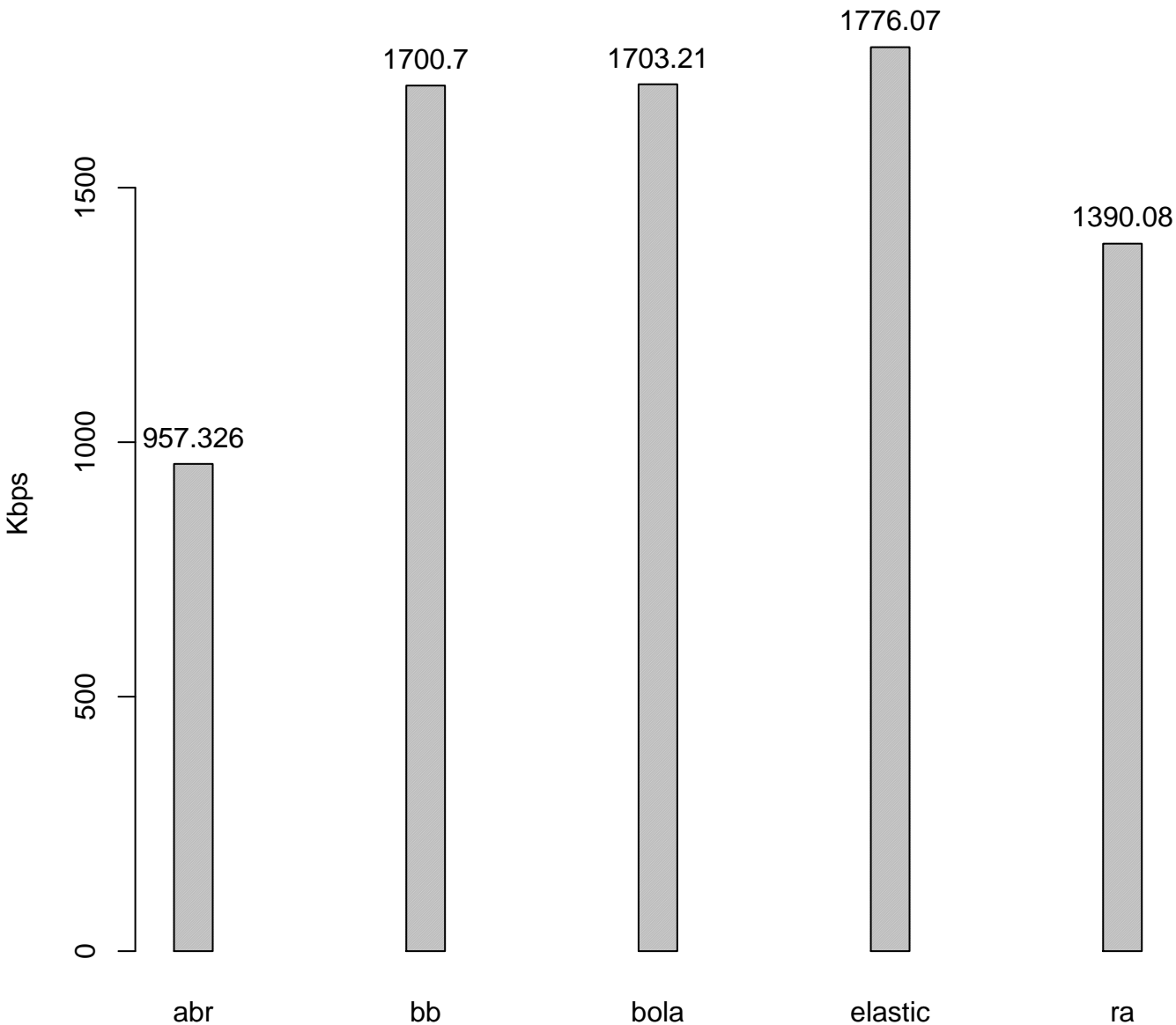
abr bb bola elastic ra

Network profile: p3 Sample: t6 Metric: Inefficiency
Buffer: 240 min: elastic

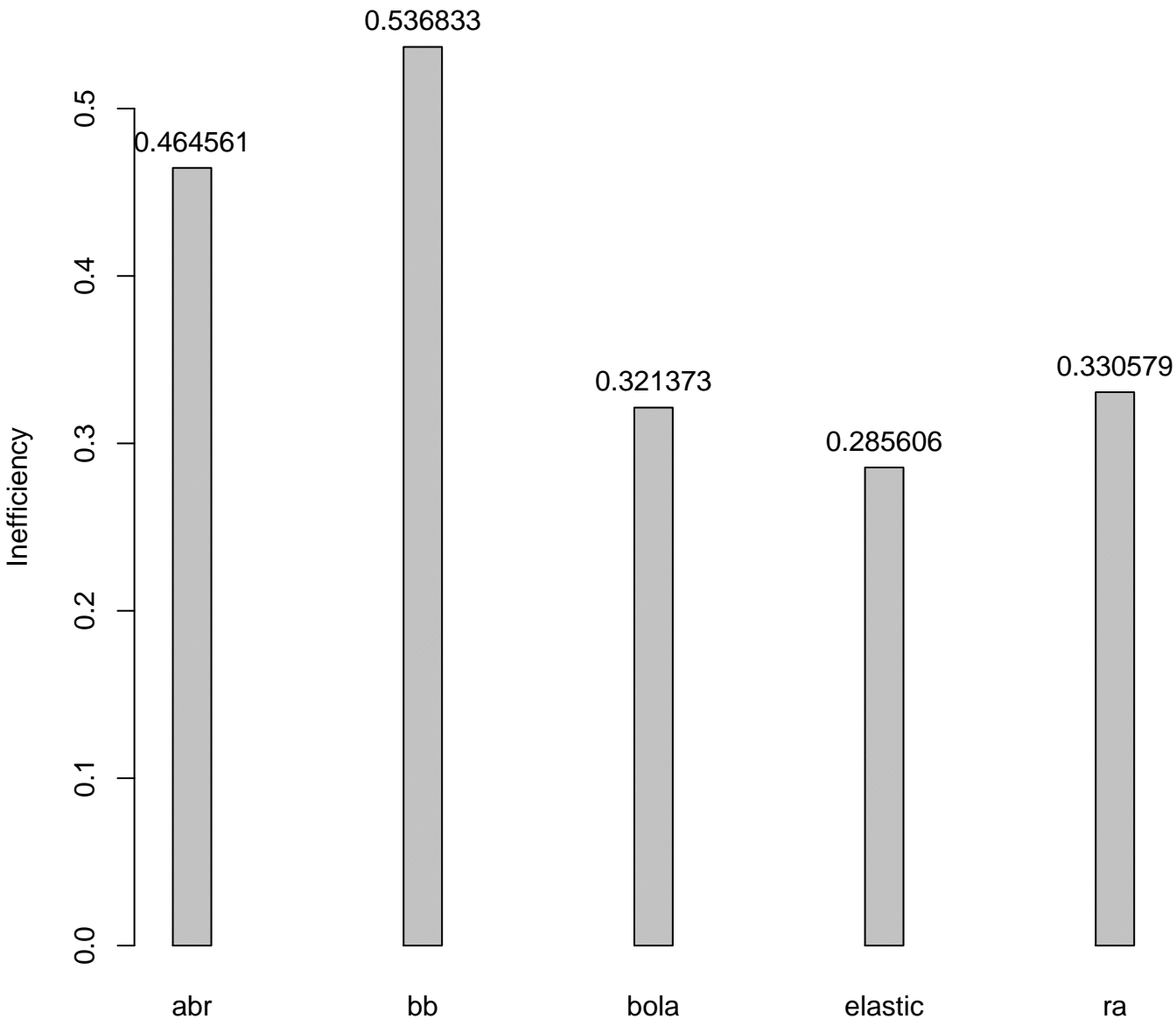**Network profile: p3 Sample: t6 Metric: # quality change**
Buffer: 240 min: bb

Network profile: p3 Sample: t7 Metric: Avg−Bitrate
Buffer: 240   max: elastic

Kbps

957.326
1700.7
1703.21
1776.07
1390.08

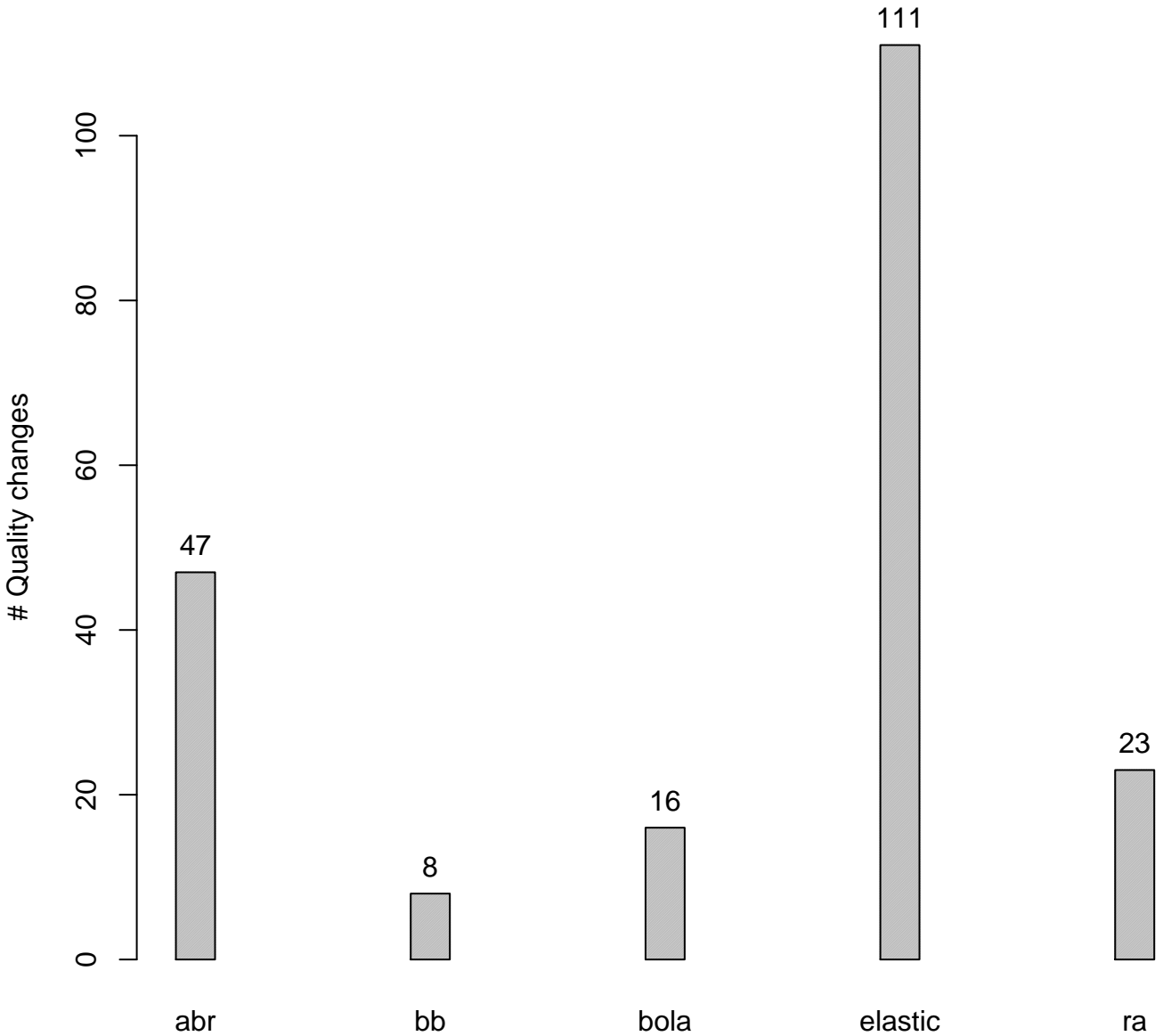abr   bb   bola   elastic   ra

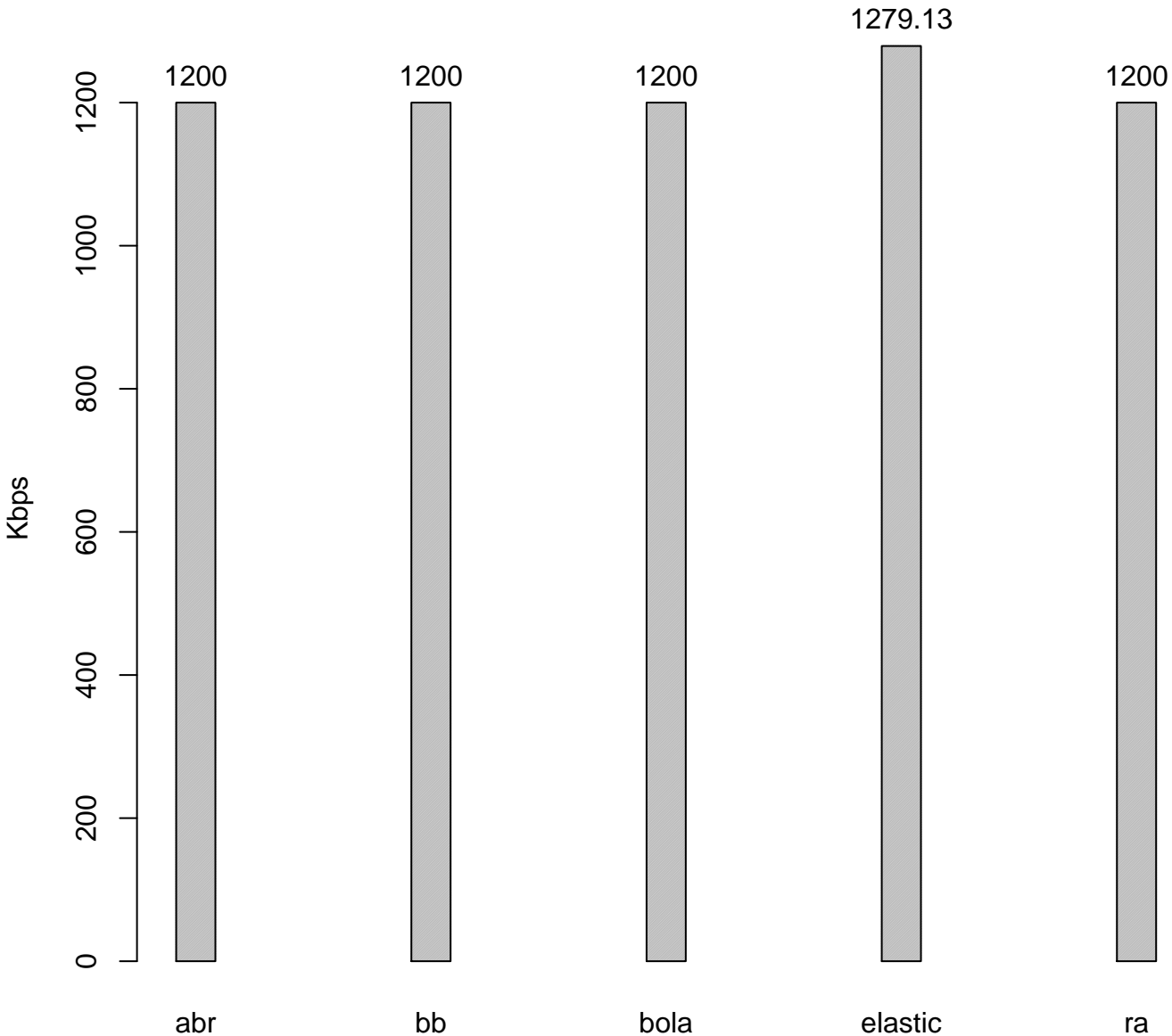**Network profile: p3 Sample: t7 Metric: Inefficiency**
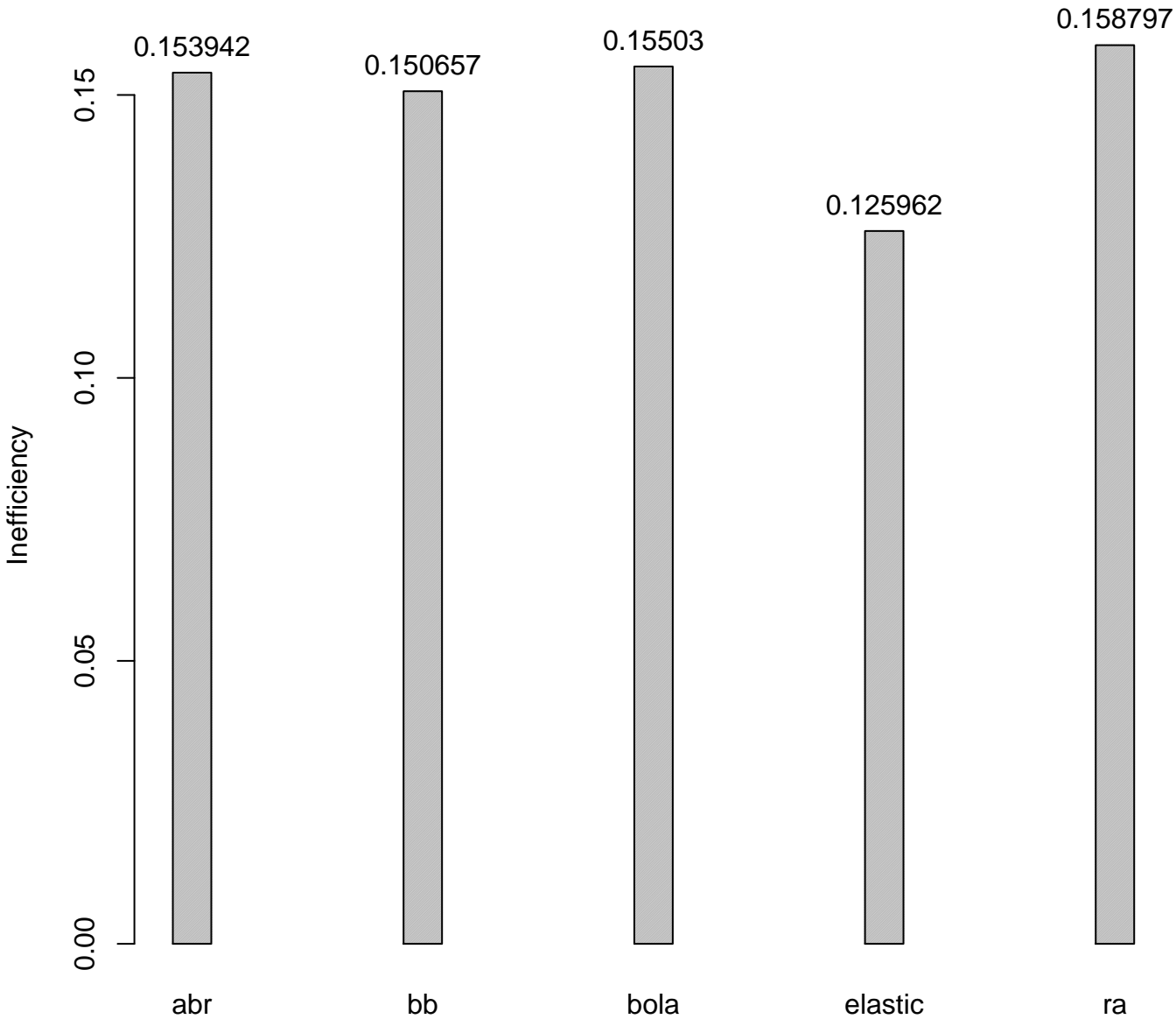**Buffer: 240 min: elastic**

Network profile: p3 Sample: t7 Metric: # quality change
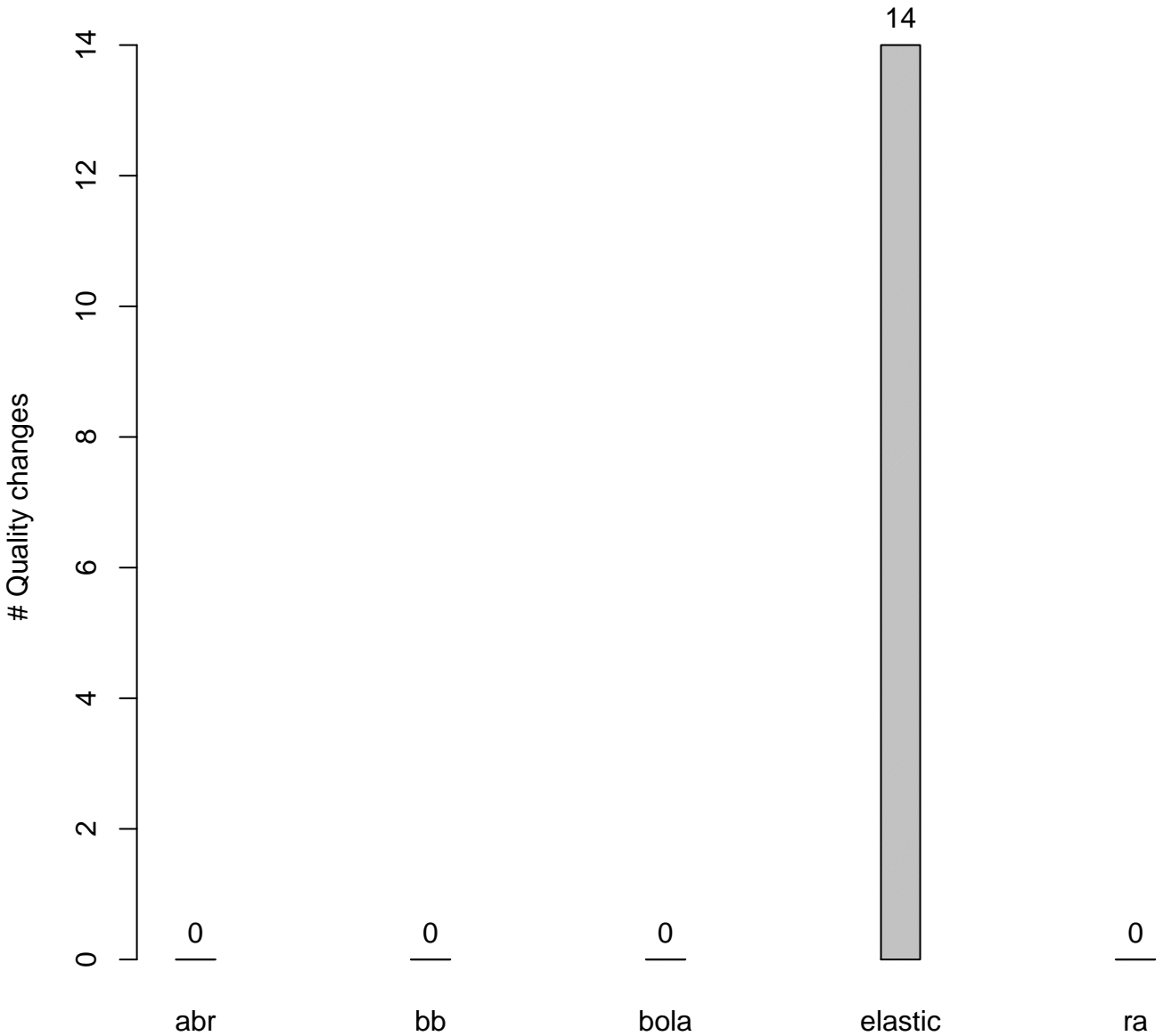**Buffer: 240 min: bb**

Network profile: p4 Sample: t1 Metric: Avg−Bitrate
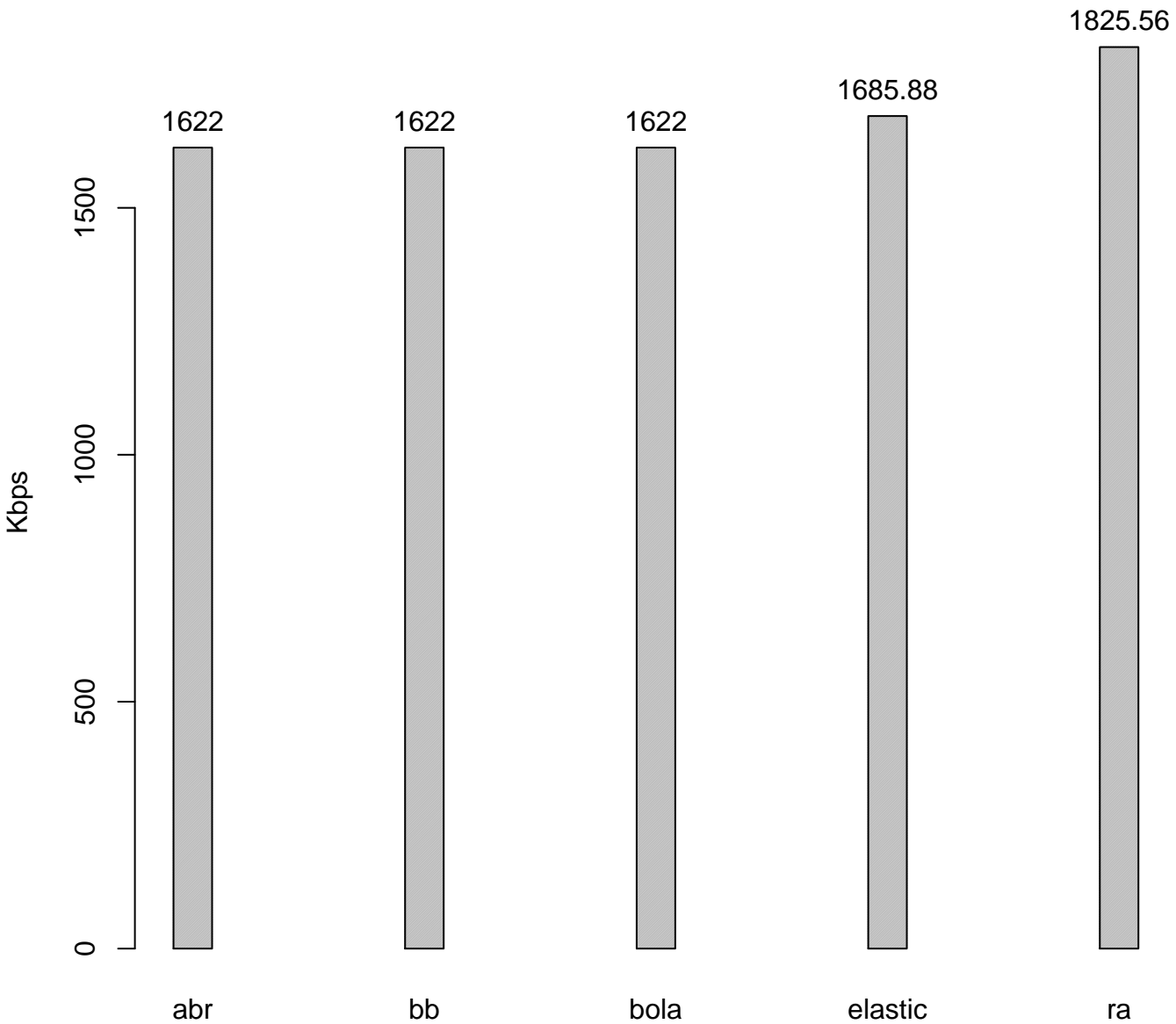**Buffer: 240 max: elastic**

Network profile: p4 Sample: t1 Metric: Inefficiency
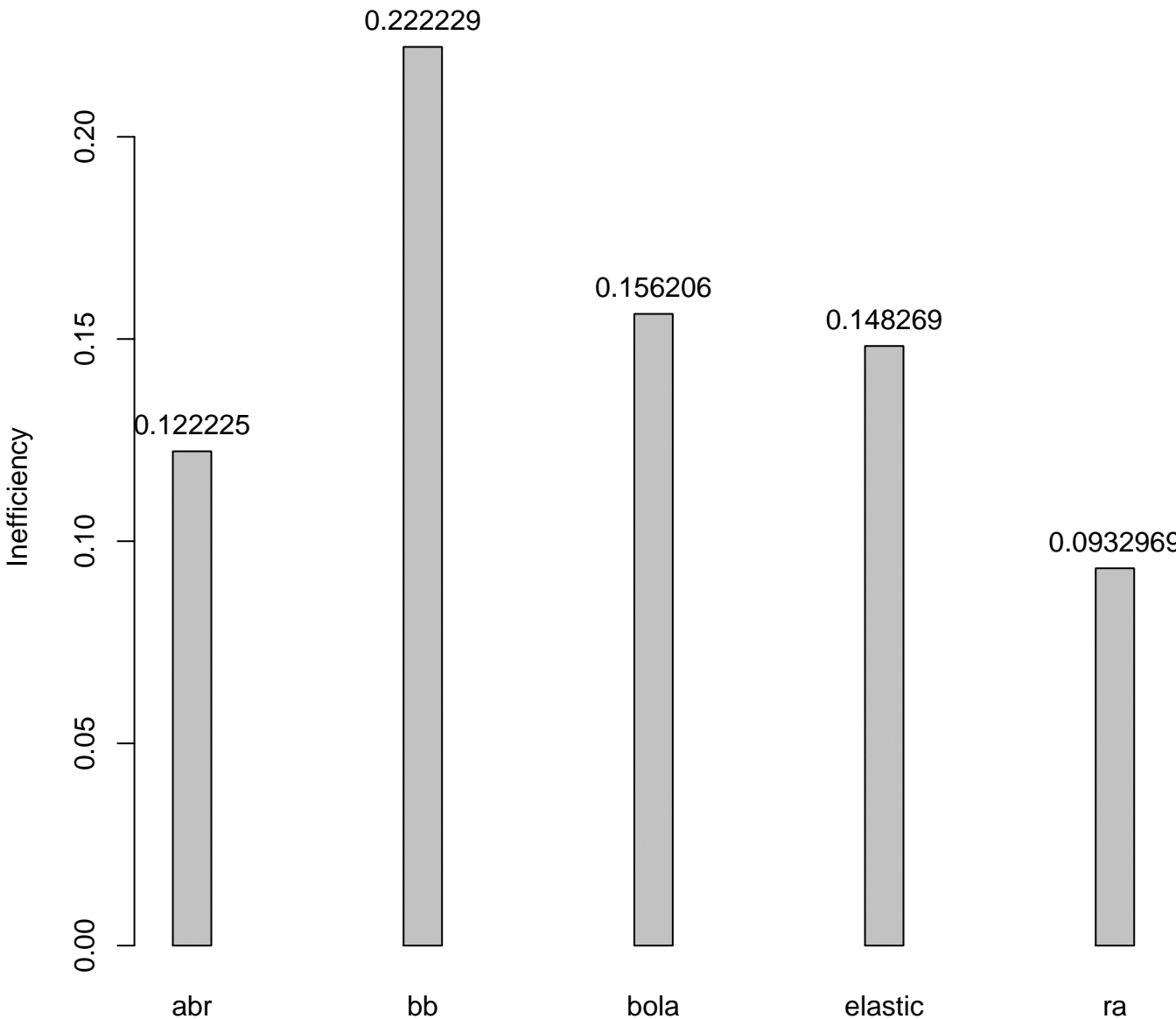**Buffer: 240 min: elastic**

Network profile: p4 Sample: t1 Metric: # quality change
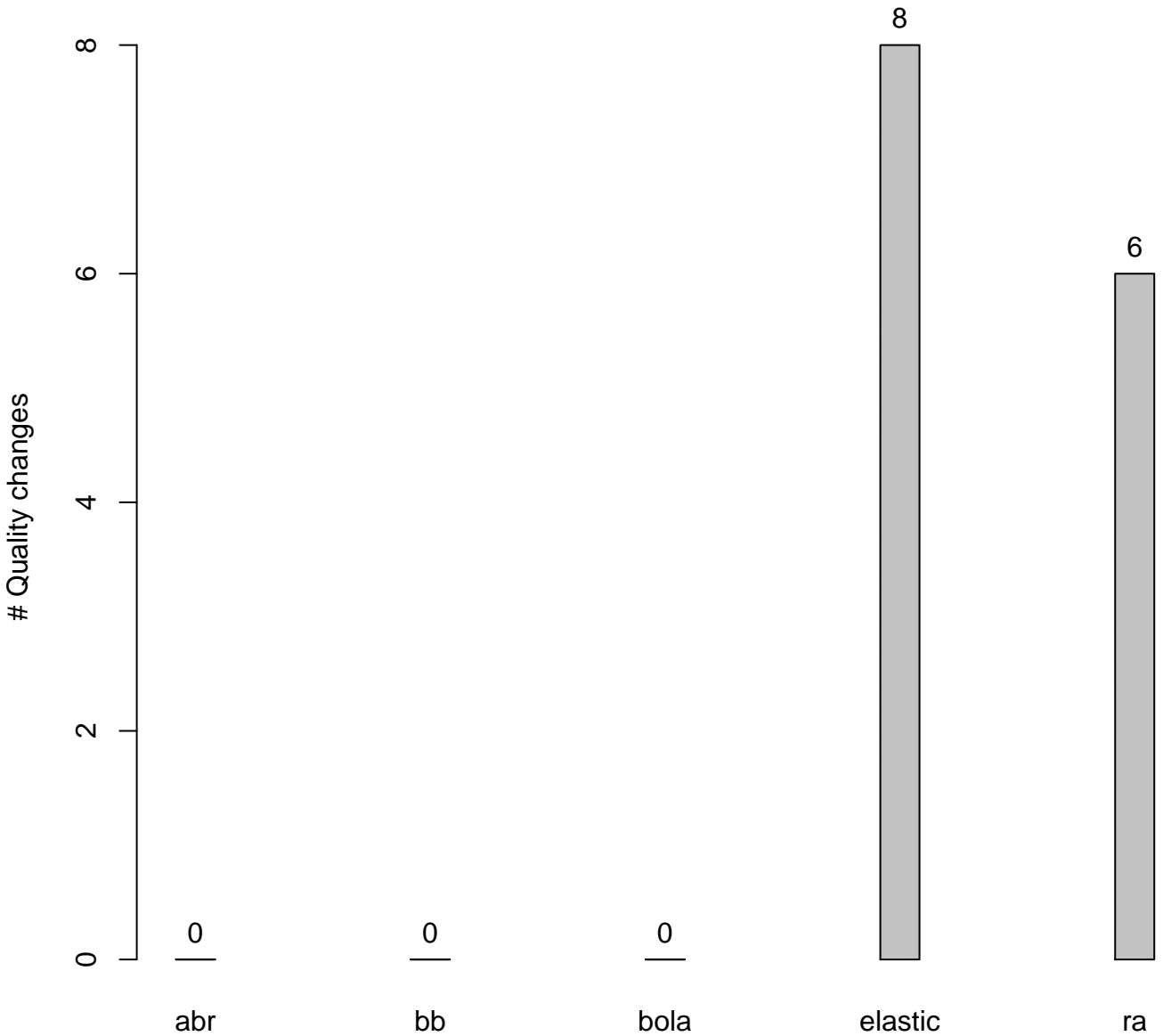**Buffer: 240 min: abr**

Network profile: p4 Sample: t2 Metric: Avg−Bitrate
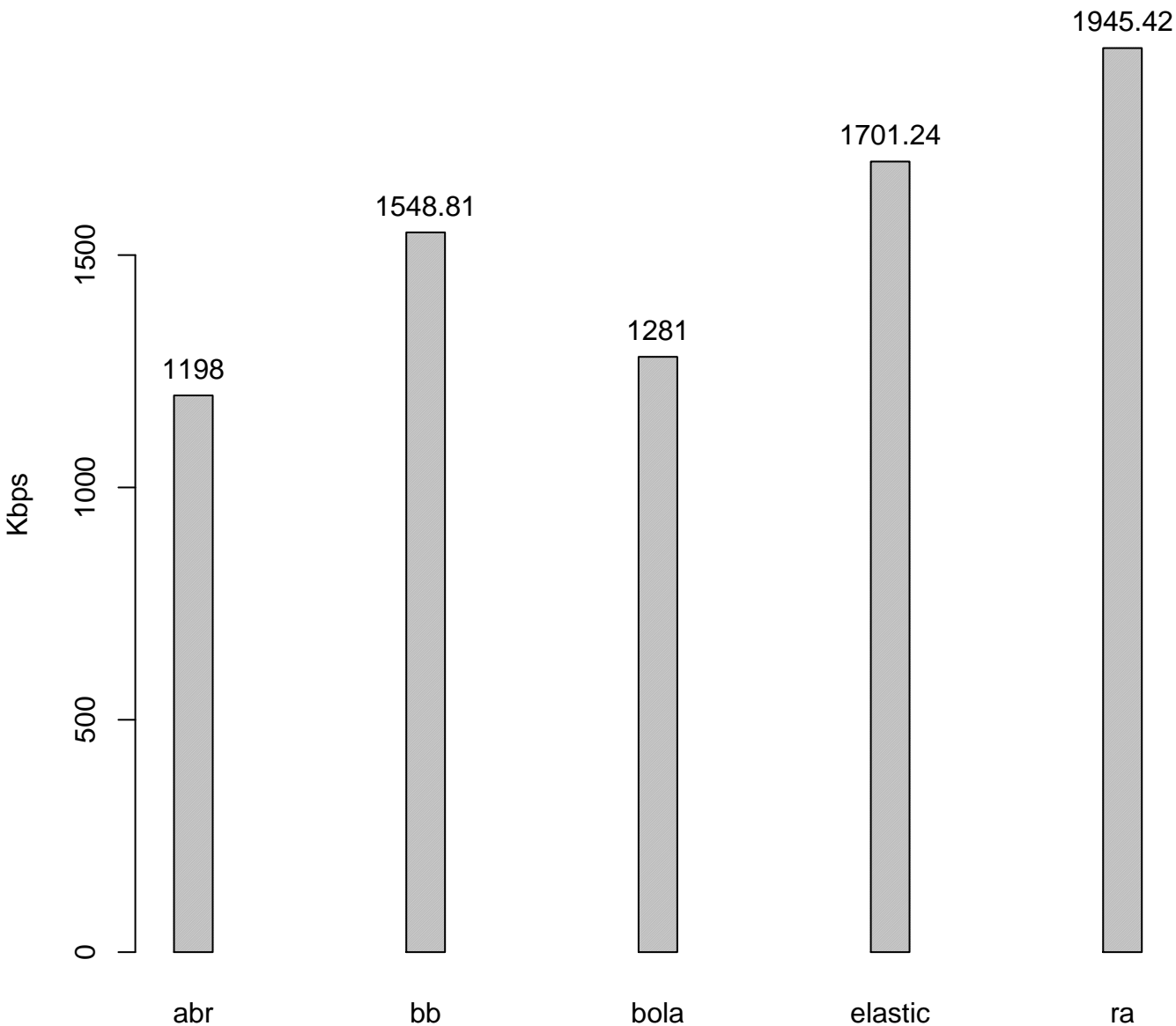**Buffer: 240 max: ra**

Network profile: p4 Sample: t2 Metric: Inefficiency
Buffer: 240 min: ra

Network profile: p4 Sample: t2 Metric: # quality change
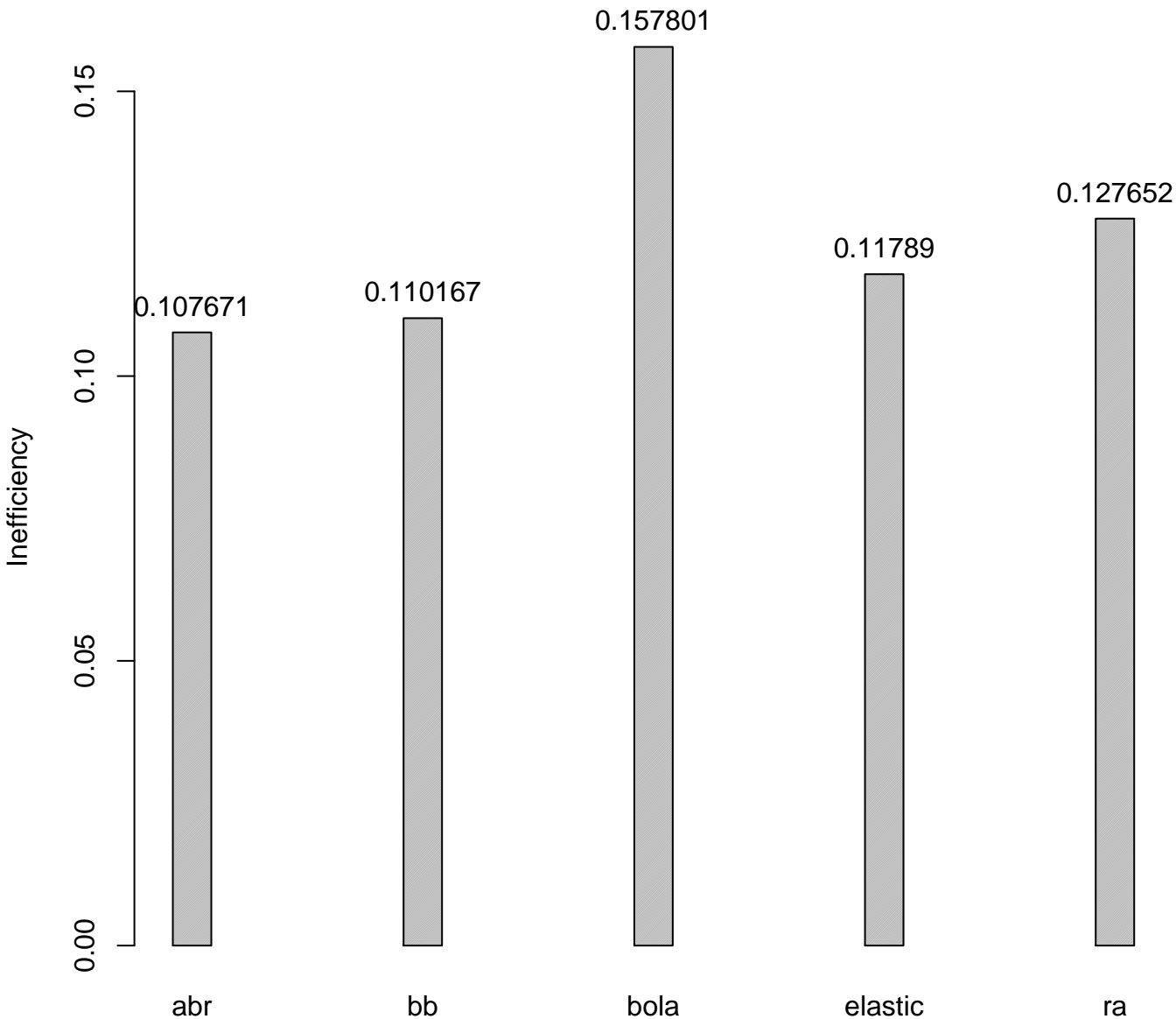**Buffer: 240 min: abr**

Network profile: p4 Sample: t3 Metric: Avg−Bitrate
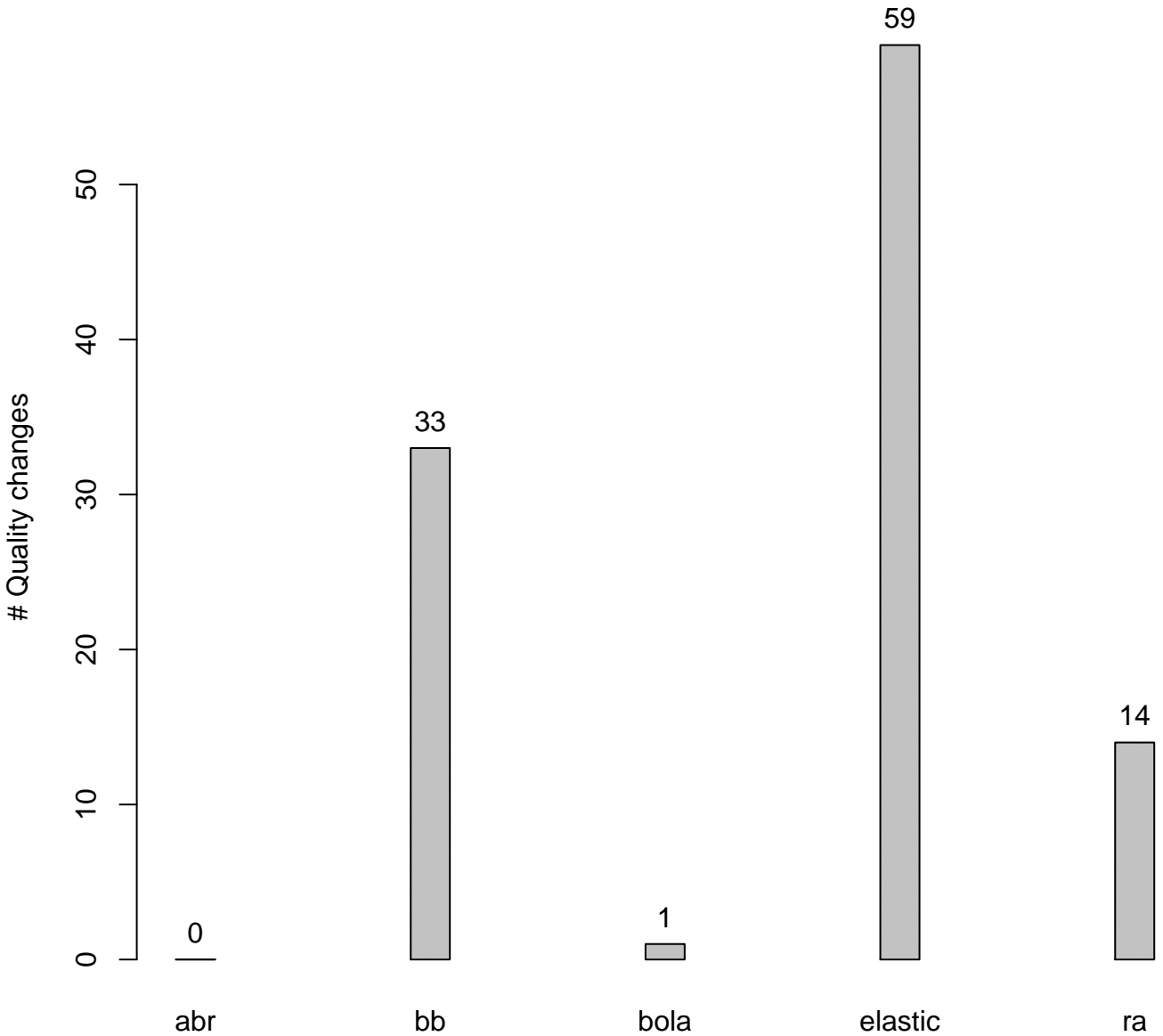**Buffer: 240 max: ra**

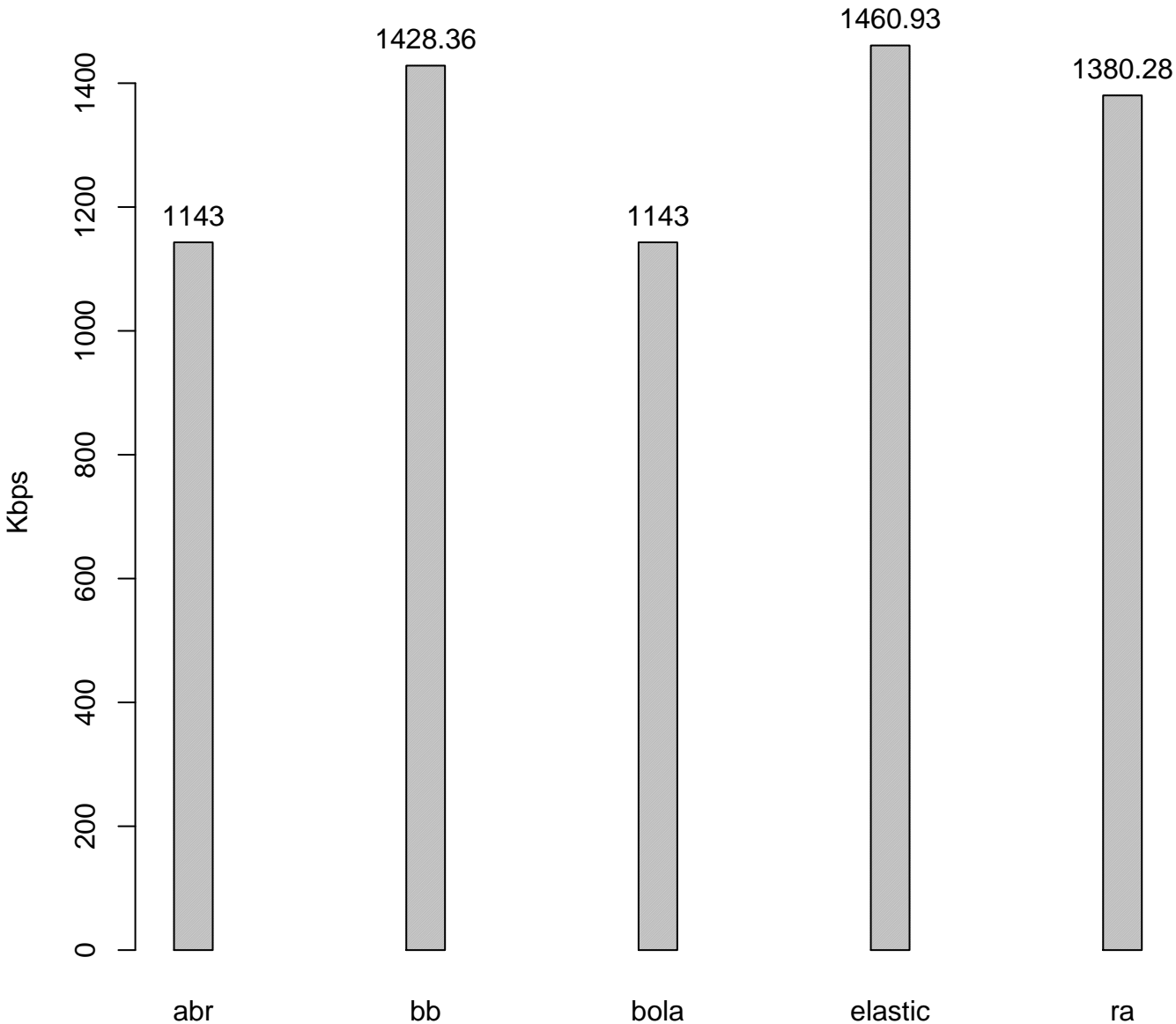**Network profile: p4 Sample: t3 Metric: Inefficiency**
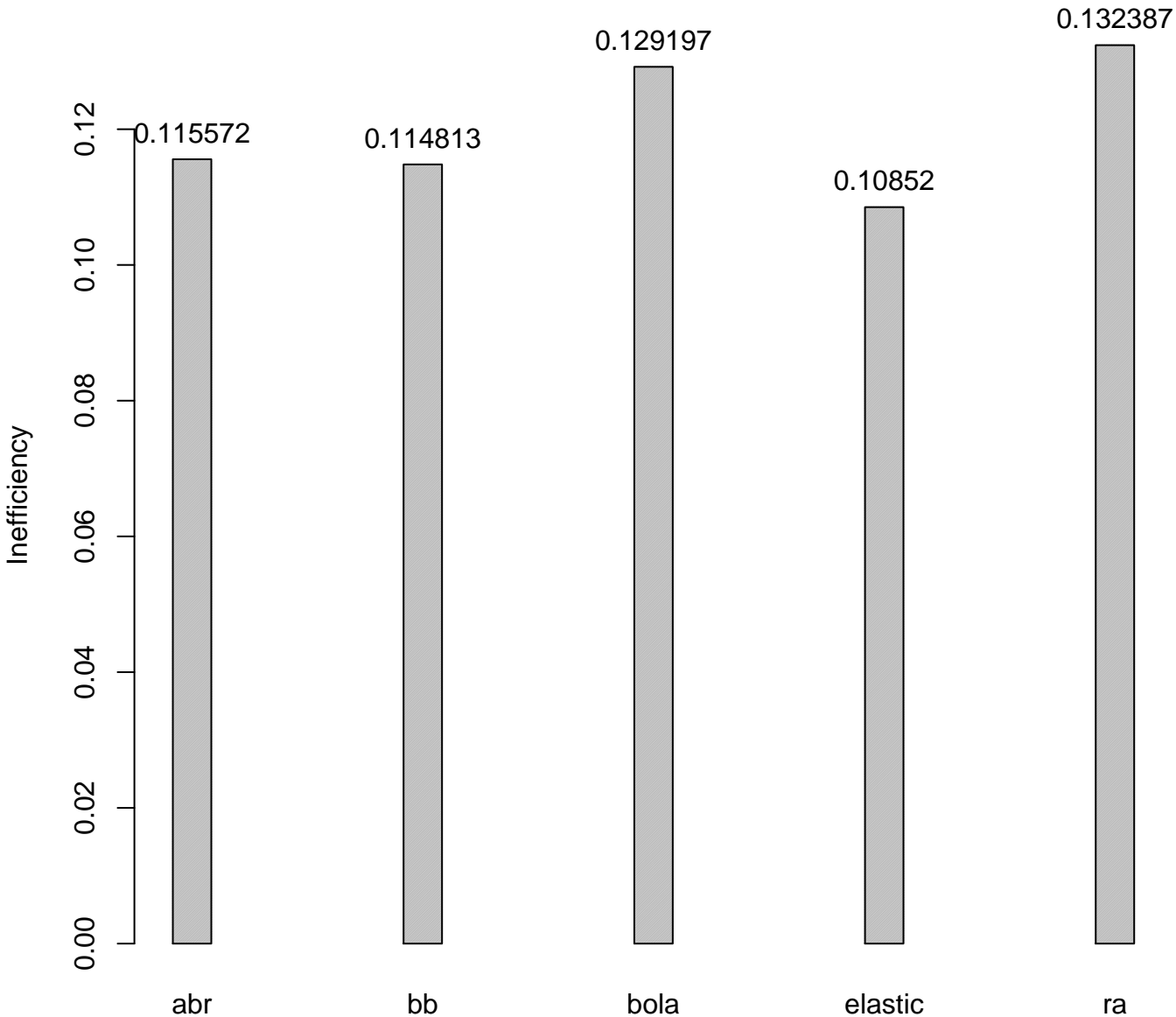**Buffer: 240 min: abr**

Network profile: p4 Sample: t3 Metric: # quality change
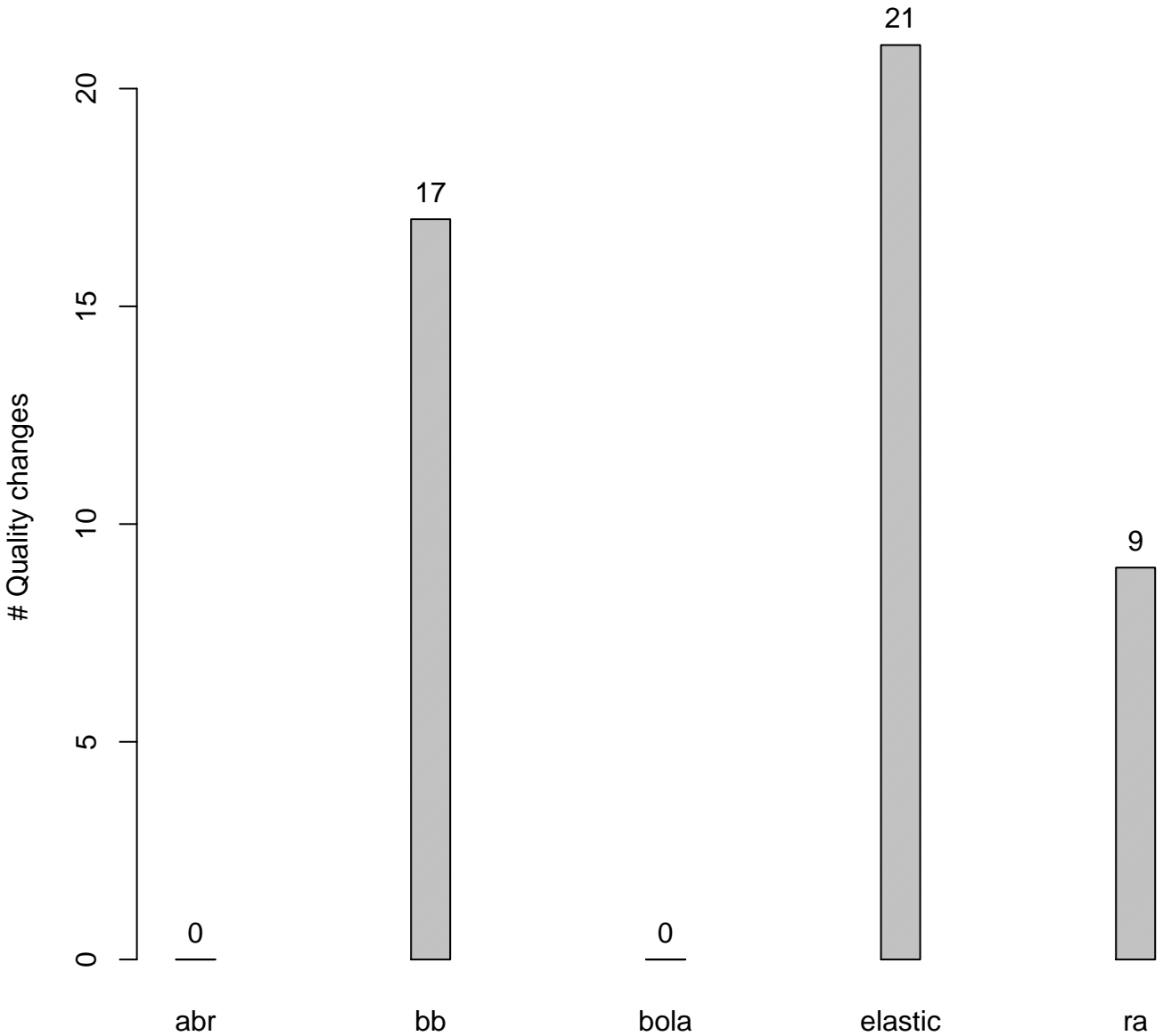**Buffer: 240 min: abr**

Network profile: p4 Sample: t4 Metric: Avg−Bitrate
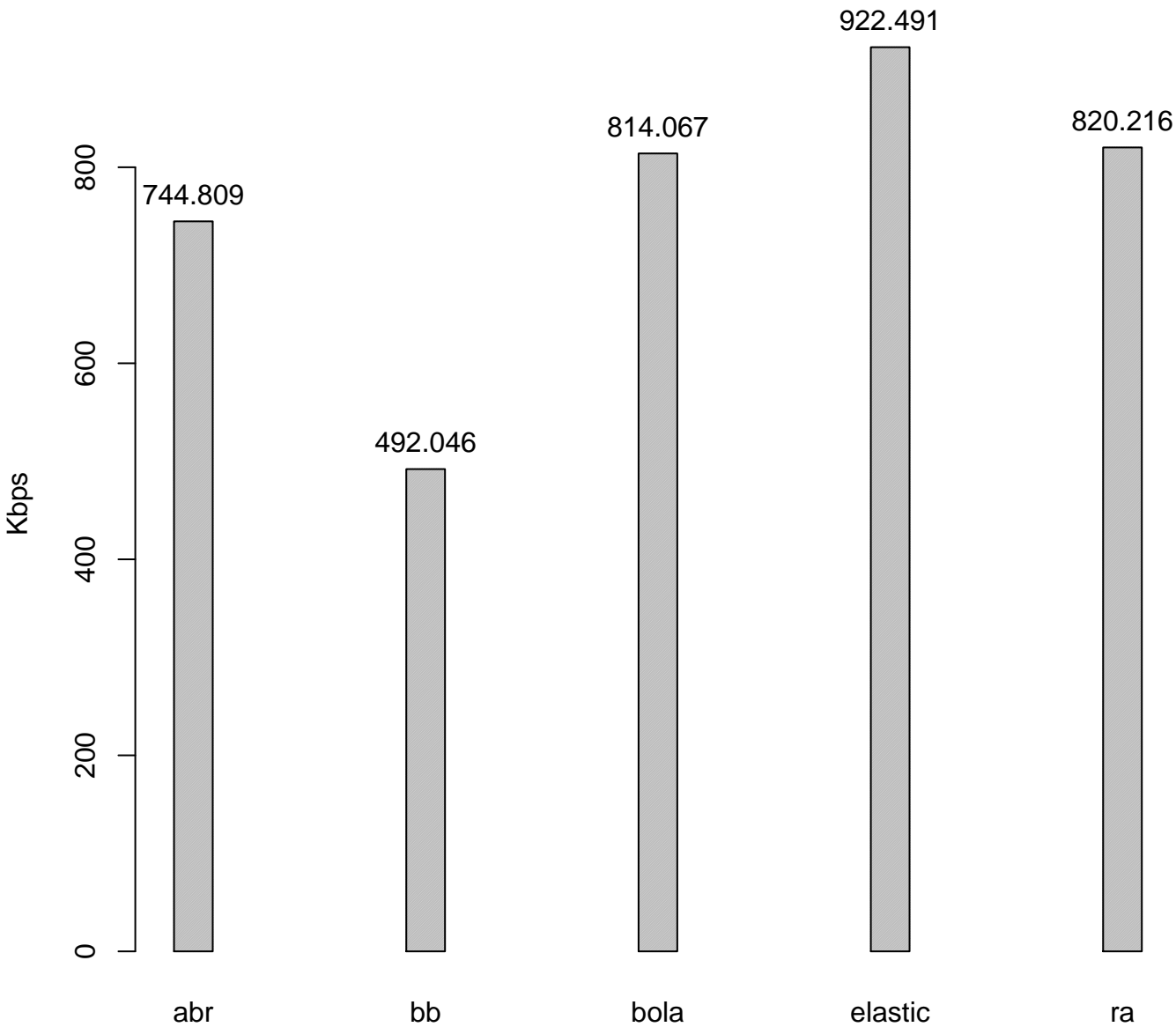**Buffer: 240   max: elastic**

Network profile: p4 Sample: t4 Metric: Inefficiency
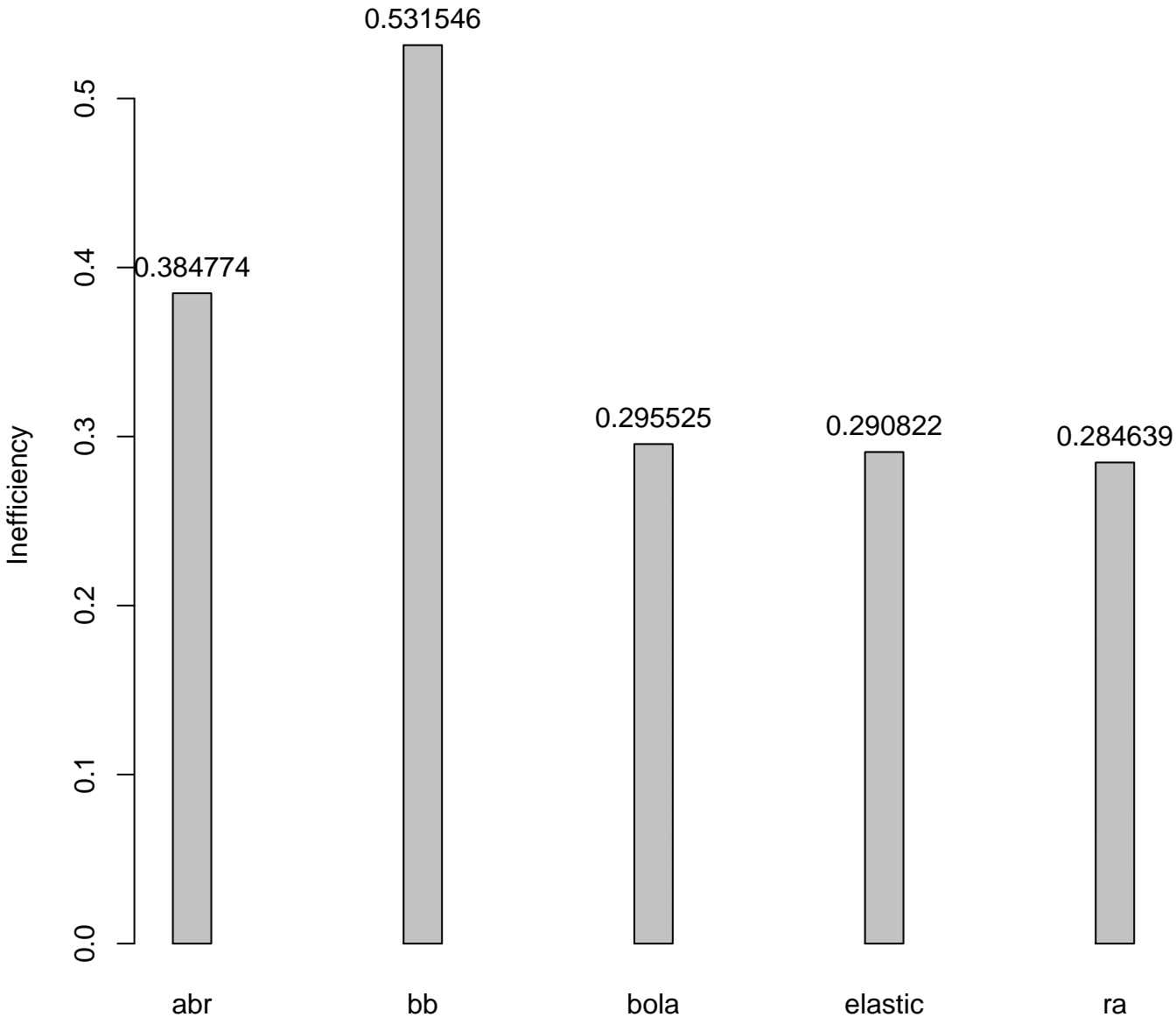**Buffer: 240 min: elastic**

Network profile: p4 Sample: t4 Metric: # quality change
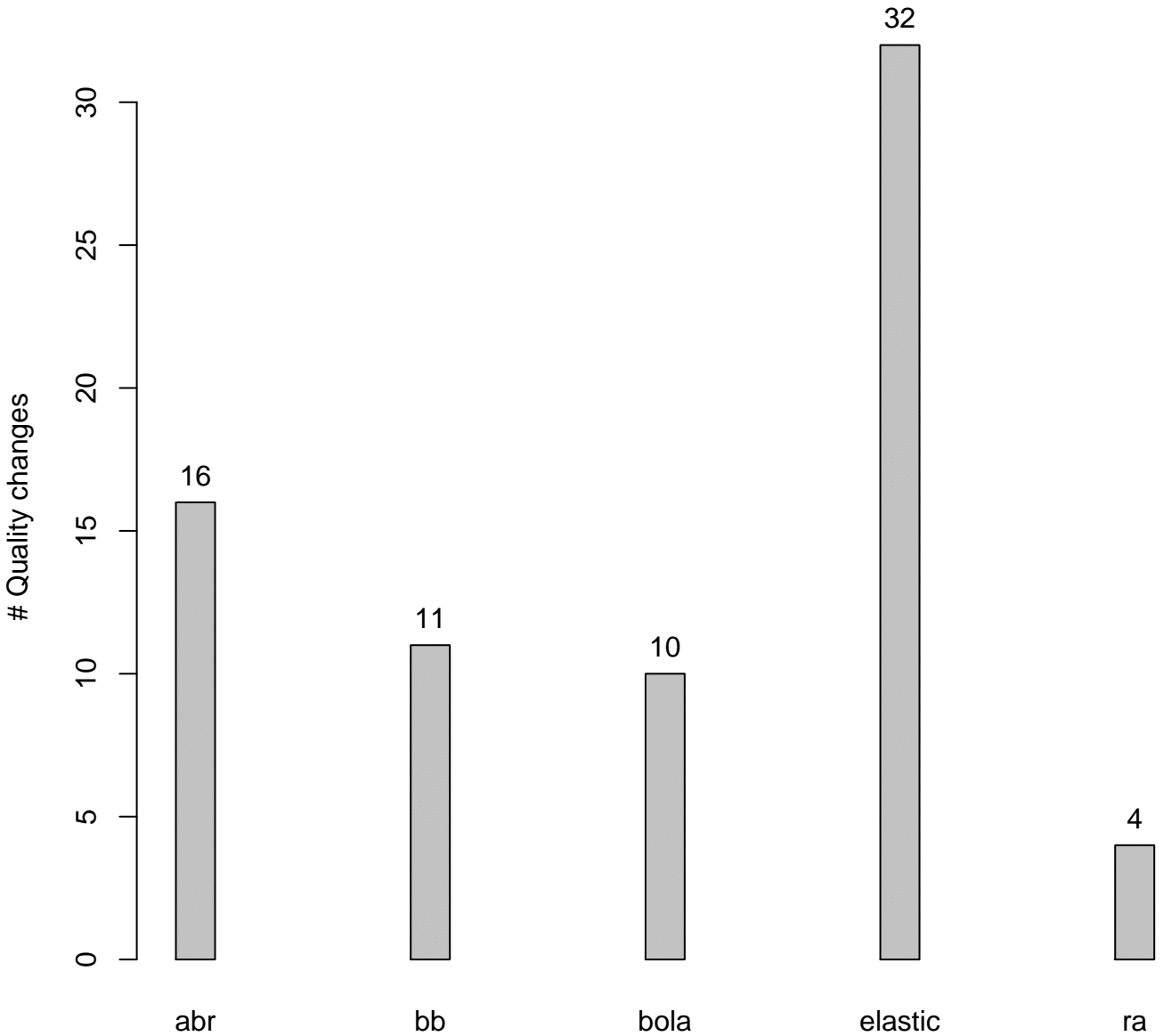**Buffer: 240 min: abr**

Network profile: p4 Sample: t5 Metric: Avg−Bitrate
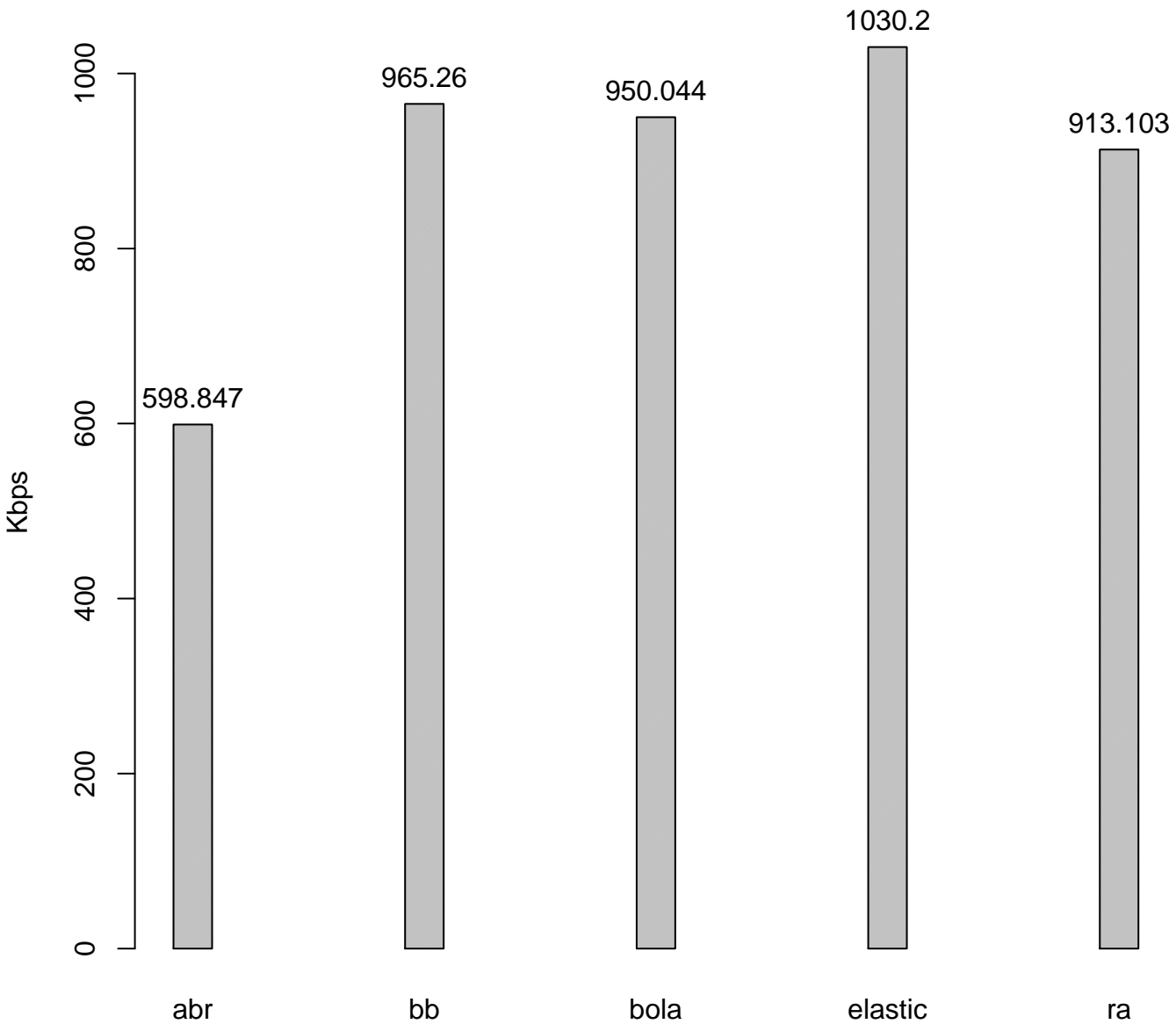**Buffer: 240 max: elastic**

Network profile: p4 Sample: t5 Metric: Inefficiency
Buffer: 240 min: ra

Network profile: p4 Sample: t5 Metric: # quality change
Buffer: 240 min: ra

Network profile: p4 Sample: t6 Metric: Avg−Bitrate
Buffer: 240   max: elastic

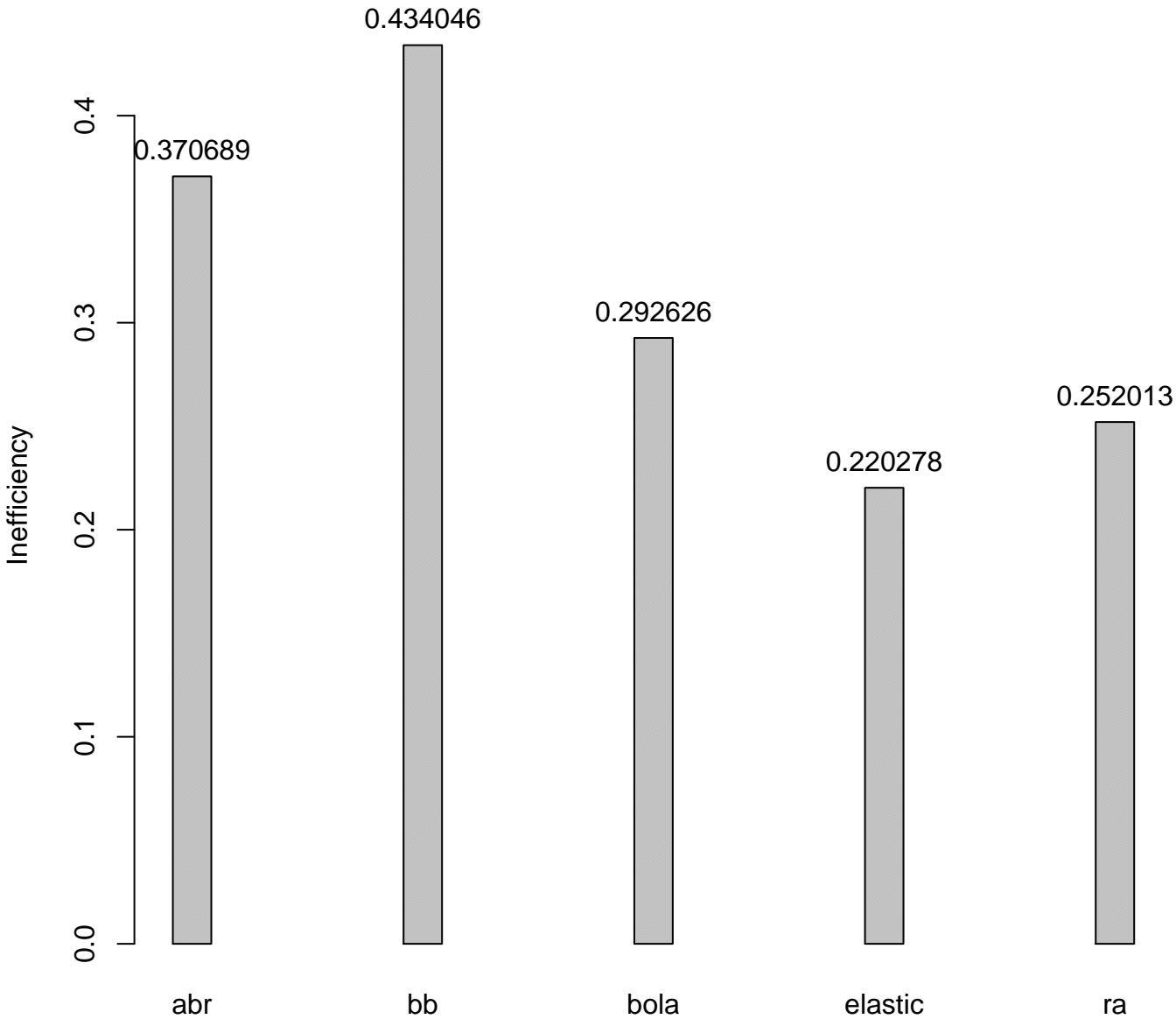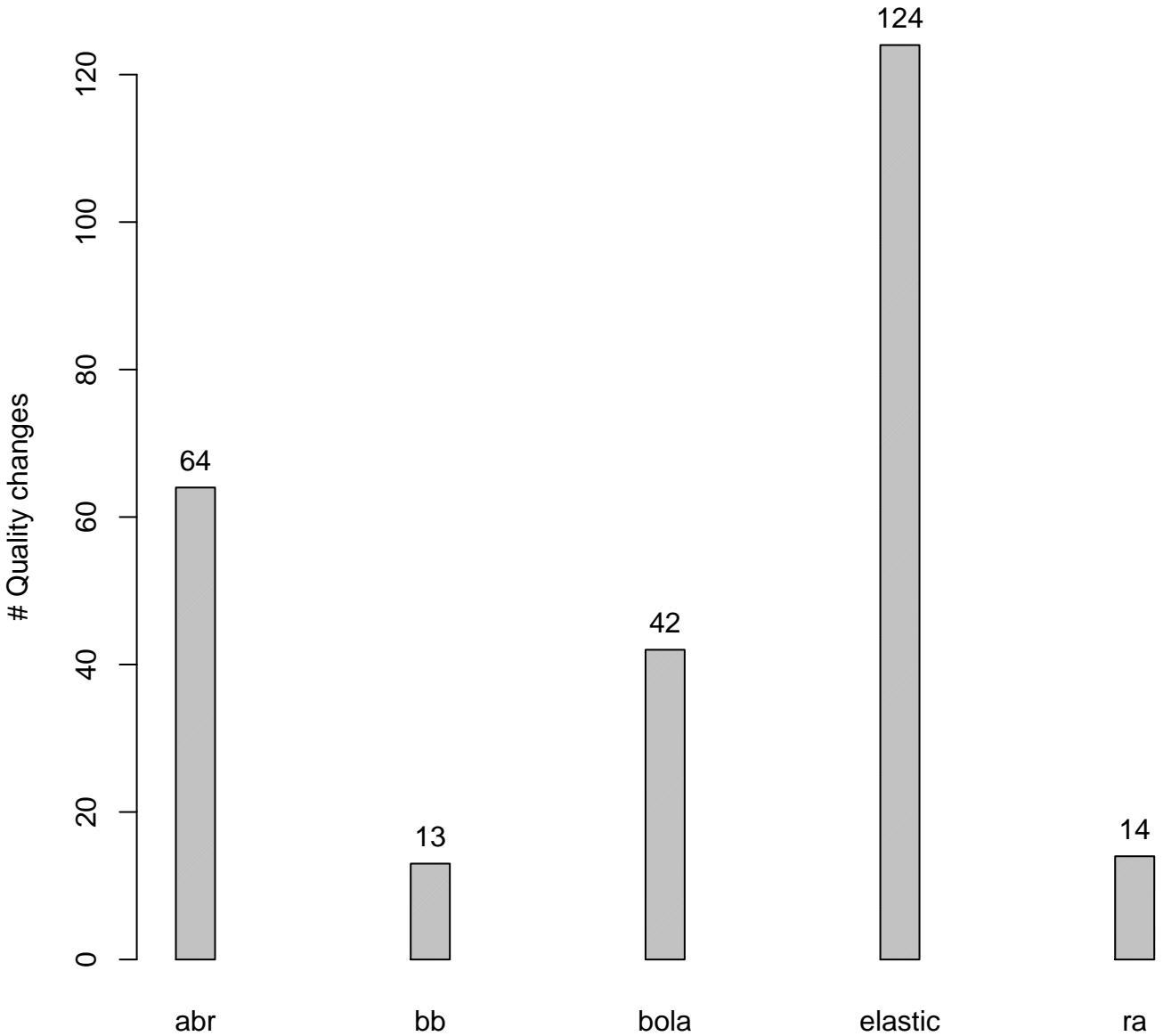**Network profile: p4 Sample: t6 Metric: Inefficiency**
Buffer: 240 min: elastic

Network profile: p4 Sample: t6 Metric: # quality change
Buffer: 240 min: bb

Network profile: p4 Sample: t7 Metric: Avg−Bitrate
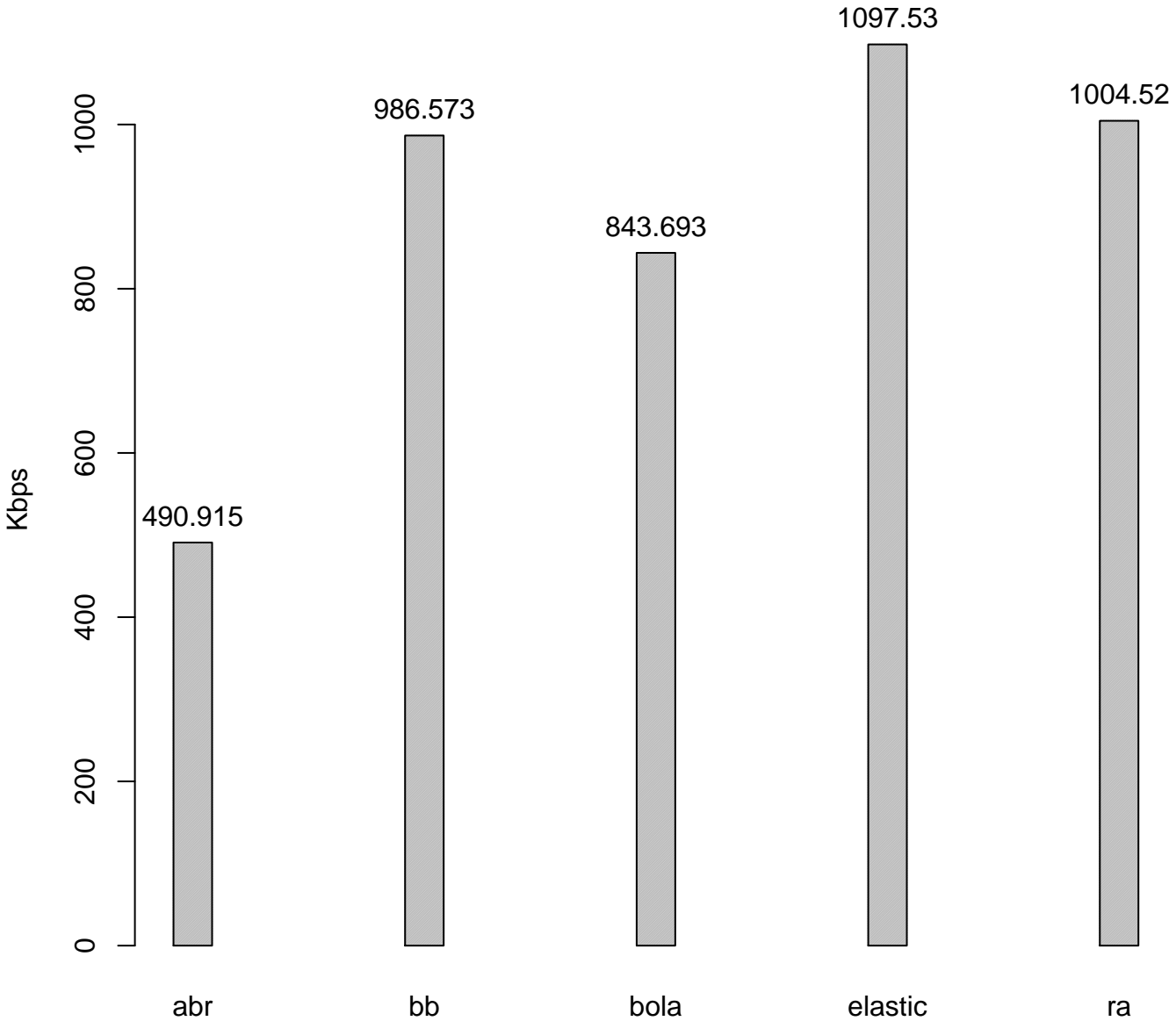**Buffer: 240   max: elastic**

Network profile: p4 Sample: t7 Metric: Inefficiency
Buffer: 240 min: elastic

Network profile: p4 Sample: t7 Metric: # quality change
Buffer: 240 min: bb