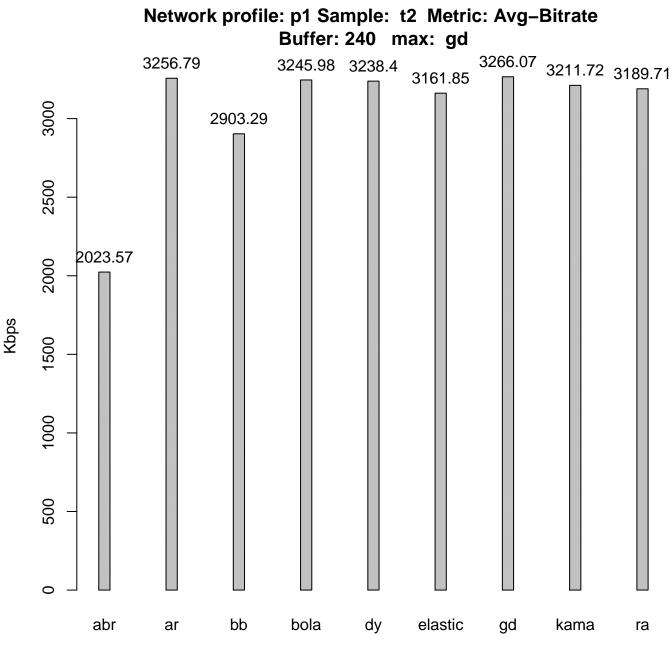
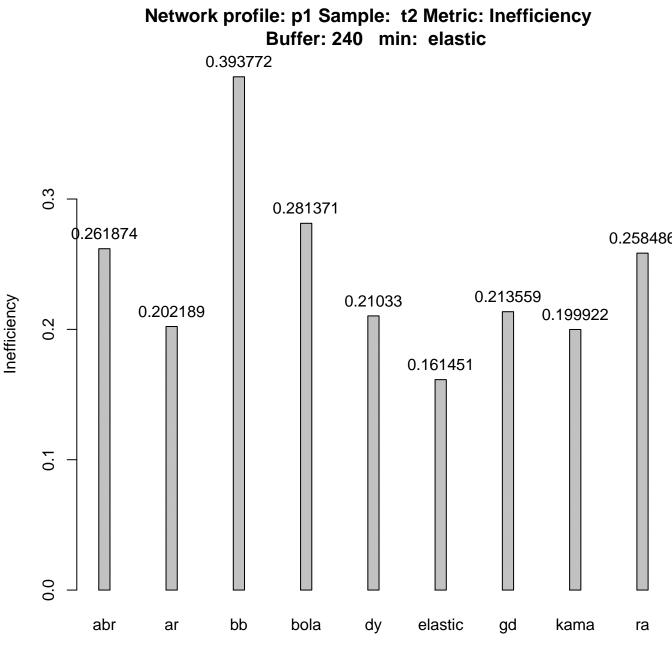
Buffer: 240 max: elastic 3068.84 3007.47 3000 2925.73 2905.39 2877.37 2921.37 2906.23 2500 2147.9 2000 1784.4 1500 1000 500 elastic abr bb bola dy kama ar gd ra

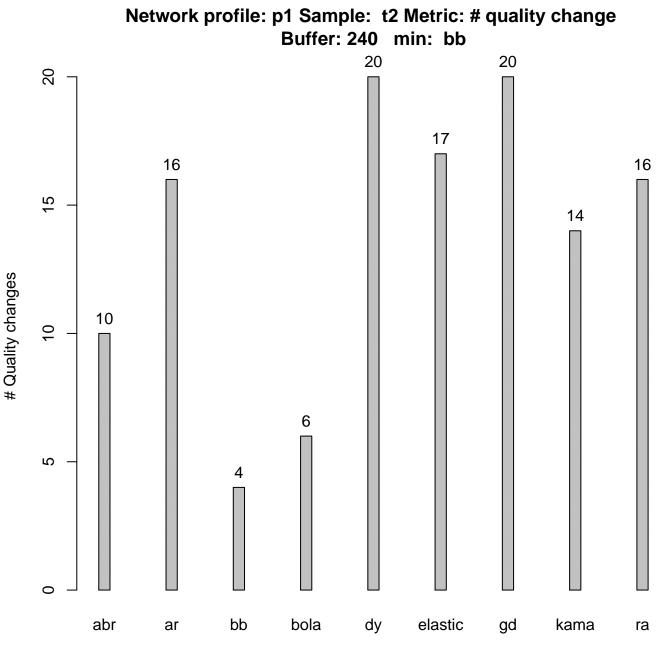
Network profile: p1 Sample: t1 Metric: Avg-Bitrate

Network profile: p1 Sample: t1 Metric: Inefficiency Buffer: 240 min: elastic 0.474962 0.312697 0.317486 0.293023<sup>0.296956</sup>0.290507 0.293433 Inefficiency 0.201053 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t1 Metric: # quality change Buffer: 240 min: bb 45 4 34 34 34 34 30 28 # Quality changes 20 10 8 6 bola elastic abr bb dy gd kama ar ra







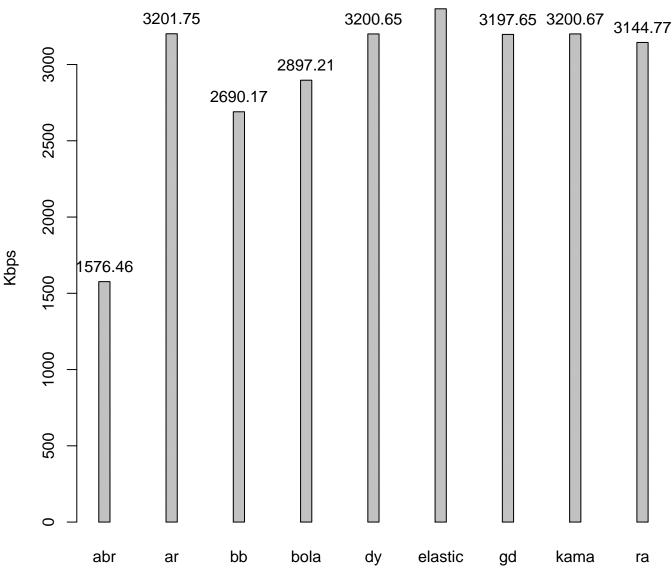
Network profile: p1 Sample: t3 Metric: Avg-Bitrate Buffer: 240 max: bb 3385.77 3261.85 3274.49 3311.7 3274.04 3277.52 3157.22 3078.48 3000 2500 2000 Kbps 1659.68 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t3 Metric: Inefficiency Buffer: 240 min: elastic 0.479113 0.384275 0.338159 0.320102 0.313876 0.310754 0.274318 0.257997 Inefficiency 0.22588 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t3 Metric: # quality change Buffer: 240 min: bb 28 26 25 24 22 20 20 19 15 10 8 6 2 2 bola elastic abr bb dy gd kama ar ra

# Quality changes

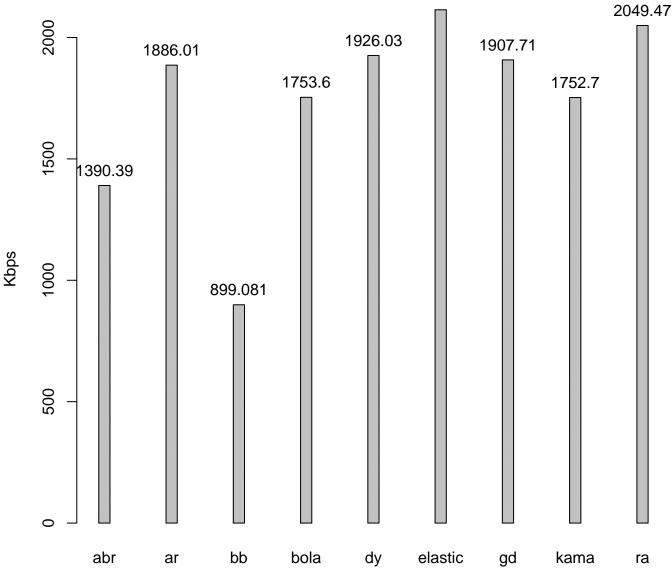
Network profile: p1 Sample: t4 Metric: Avg-Bitrate
Buffer: 240 max: elastic
3365.47

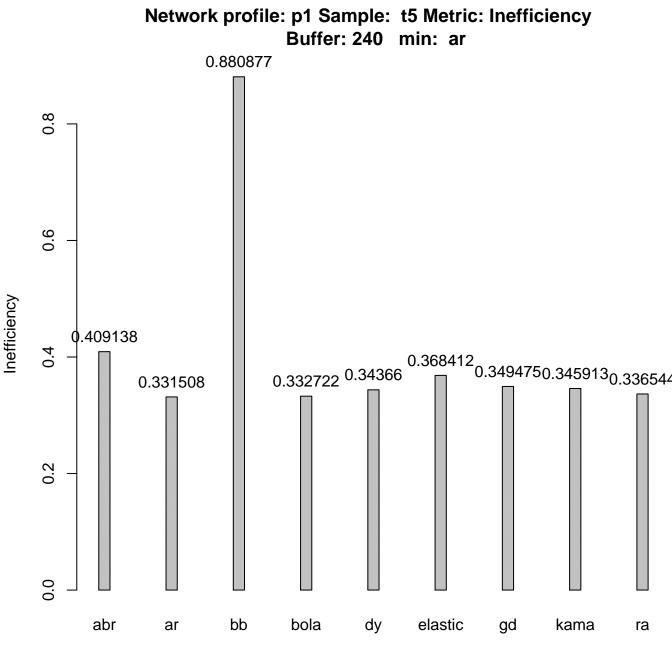


**Network profile: p1 Sample: t4 Metric: Inefficiency** Buffer: 240 min: elastic 0.445321 70.382409 0.335417 0.3 0.27614 0.243776 0.240451 0.237903 Inefficiency 0.21733 0.143342 0.1 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t4 Metric: # quality change Buffer: 240 min: bb 18 15 14 14 12 12 # Quality changes 10 8 8 6 2 3 bola elastic abr bb dy gd kama ar ra

Network profile: p1 Sample: t5 Metric: Avg-Bitrate
Buffer: 240 max: elastic
2114.1





Network profile: p1 Sample: t5 Metric: # quality change Buffer: 240 min: elastic 10 9 8 8  $\infty$ 7 6 6 6 # Quality changes 9 4  $^{\circ}$ bola elastic abr bb dy gd kama ar ra

Network profile: p1 Sample: t6 Metric: Avg-Bitrate Buffer: 240 max: dy 3116.2 3000 2930.08 2891.98 2876.95 2786.75 2591.72 2581 2548.07 2500 2000 1730.74 1500 1000 500

abr

bb

ar

bola

elastic

gd

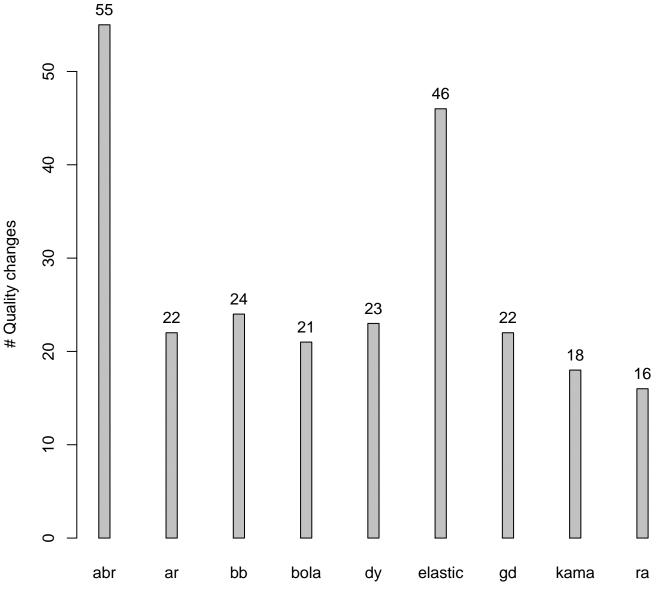
kama

ra

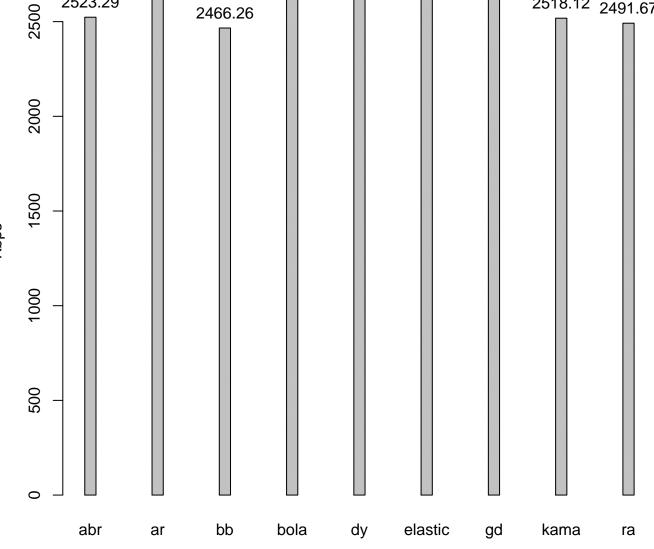
dy

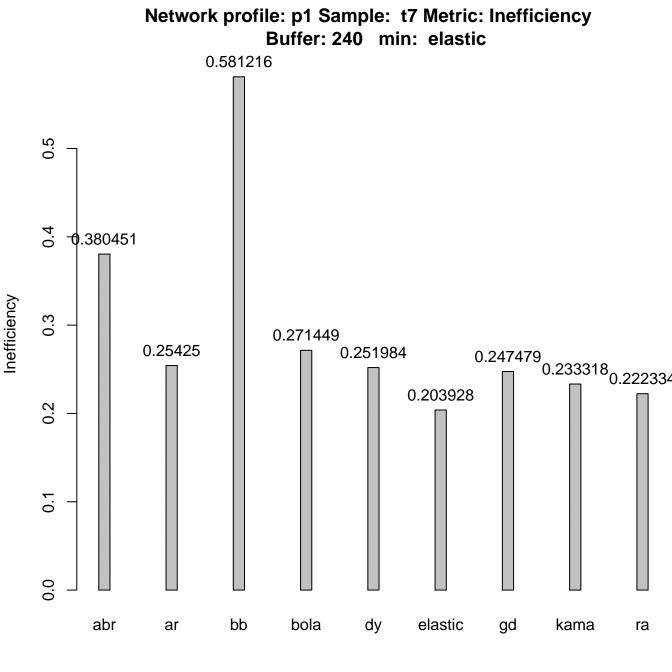
**Network profile: p1 Sample: t6 Metric: Inefficiency** Buffer: 240 min: elastic 0.599309 0.464776 Inefficiency 0.291622 0.280148 0.296311<sub>0.287451</sub>0.291573 0.3 0.277917 0.254743 elastic abr bb bola dy kama ar gd ra

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



Network profile: p1 Sample: t7 Metric: Avg-Bitrate Buffer: 240 max: gd 2688.19 <sub>2657.37</sub> <sup>2710.38</sup> 2664 2657.71 2518.12 <sub>2491.67</sub> 2523.29 2466.26





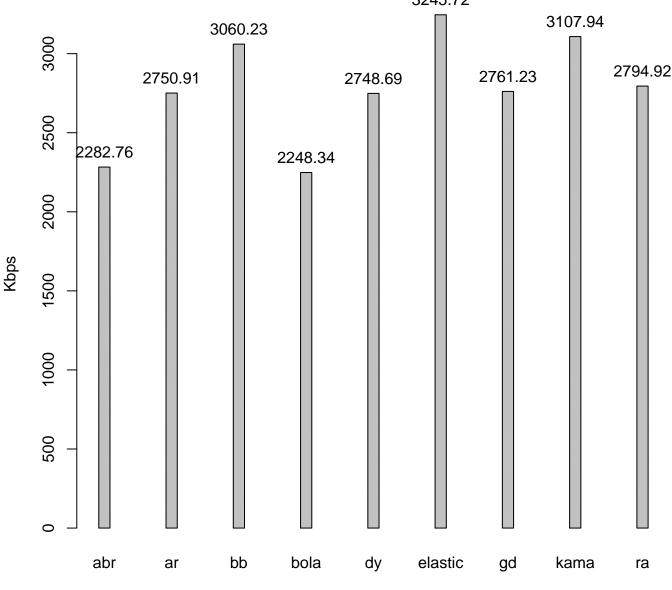
Network profile: p1 Sample: t7 Metric: # quality change Buffer: 240 min: bb 47 4 30 30 # Quality changes 20 18 18 17 16 16 14 10 7 abr bola elastic kama bb dy gd ar ra

Network profile: p2 Sample: t1 Metric: Avg-Bitrate Buffer: 240 max: elastic 2936.67 2849.57 2879.81 2500 2342.12 2349.32 2353.7 2334.02 2330.65 2136.97 2000 1500 1000 500 elastic abr bb bola dy kama ar gd ra

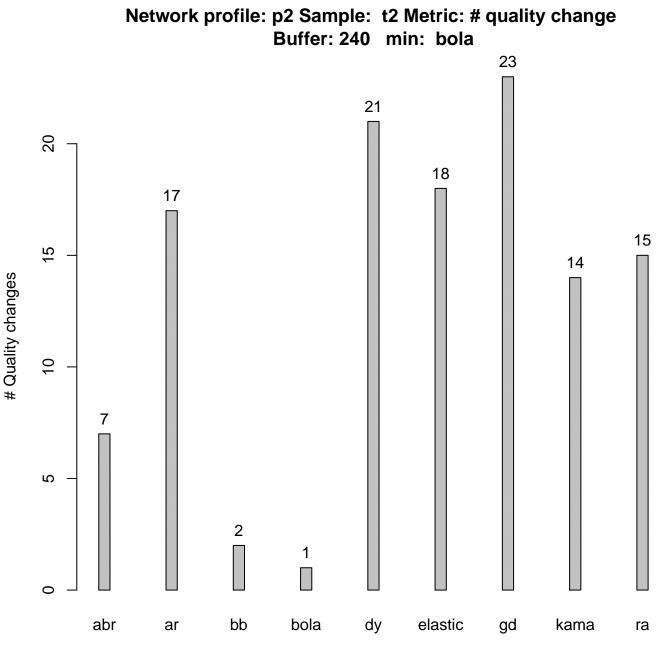
**Network profile: p2 Sample: t1 Metric: Inefficiency** Buffer: 240 min: elastic 0.460288 0.317472 0.301804 0.289394 0.284272 0.303534 0.294115 0.291148 0.3 Inefficiency 0.203485 elastic abr bb bola dy kama ar gd ra

Network profile: p2 Sample: t1 Metric: # quality change Buffer: 240 min: bb 38 36 35 30 30 30 26 25 22 # Quality changes 20 15 11 10 5 2 2 bola elastic abr bb dy gd kama ar ra

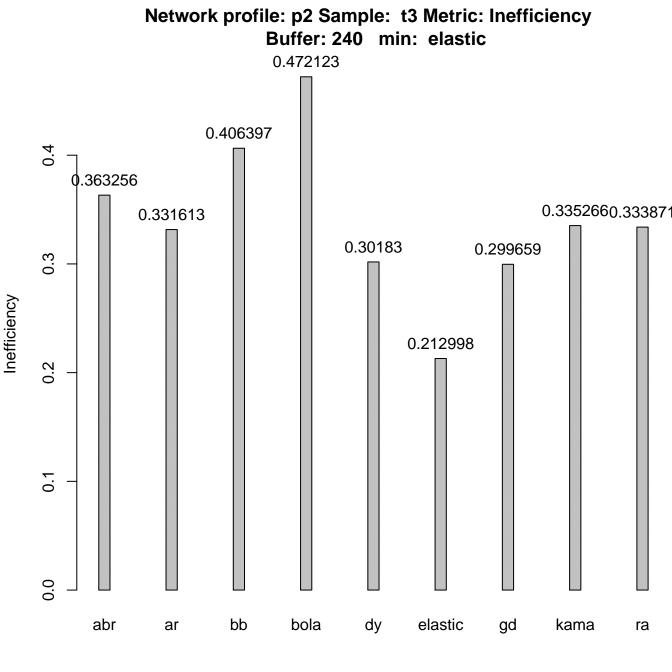
Network profile: p2 Sample: t2 Metric: Avg-Bitrate
Buffer: 240 max: elastic
3245.72



Network profile: p2 Sample: t2 Metric: Inefficiency Buffer: 240 min: elastic 0.325926 0.316141 0.30 0.274942 0.258021 0.253192<sub>0.2478840.246944</sub> 0.25 0.239531 0.20 Inefficiency 0.167881 0.15 0.10 0.05 elastic abr bb bola dy kama ar gd ra

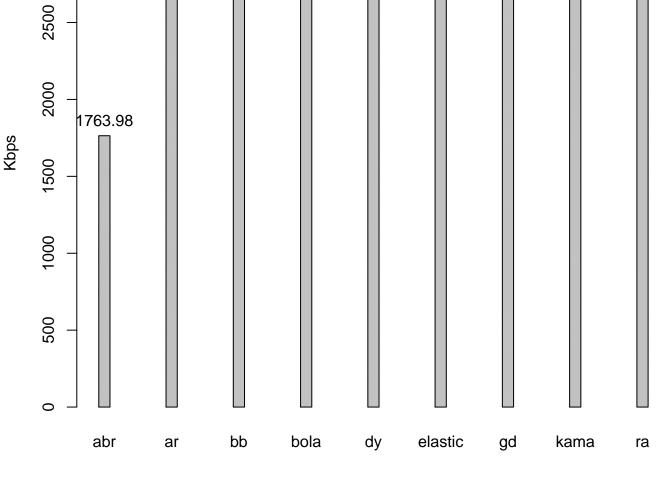


Network profile: p2 Sample: t3 Metric: Avg-Bitrate Buffer: 240 max: bb 3365.54 3292.14 3000 2767.32 2777.9 2760.37 2696.7 2698.51 2500 2000 1962.55 Kbps 1500 1198 1000 500 bola elastic abr bb dy kama ar gd ra



Network profile: p2 Sample: t3 Metric: # quality change Buffer: 240 min: bola 43 40 39 40 33 31 31 30 # Quality changes 20 13 10 4 bola elastic abr bb dy gd kama ar ra

Network profile: p2 Sample: t4 Metric: Avg-Bitrate Buffer: 240 max: bb 3336.85 3184.9 2872.66 2781.69 2843.87 2839.08 2767.53 2767.14

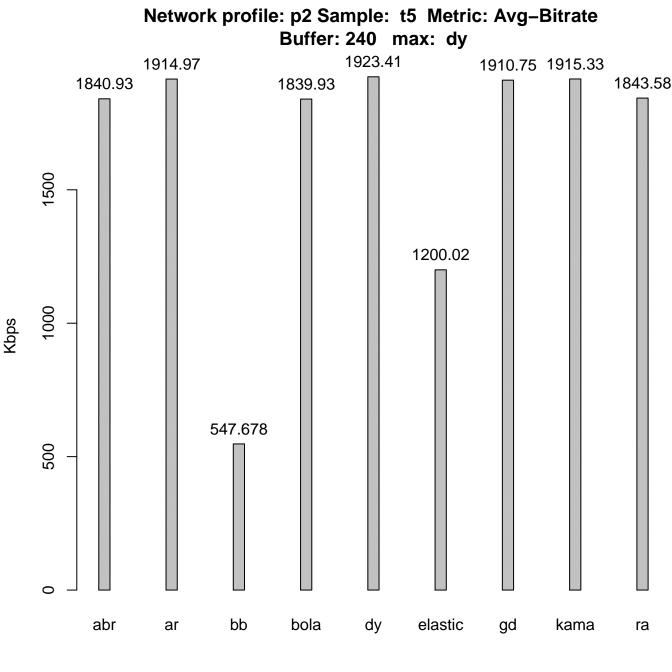


3000

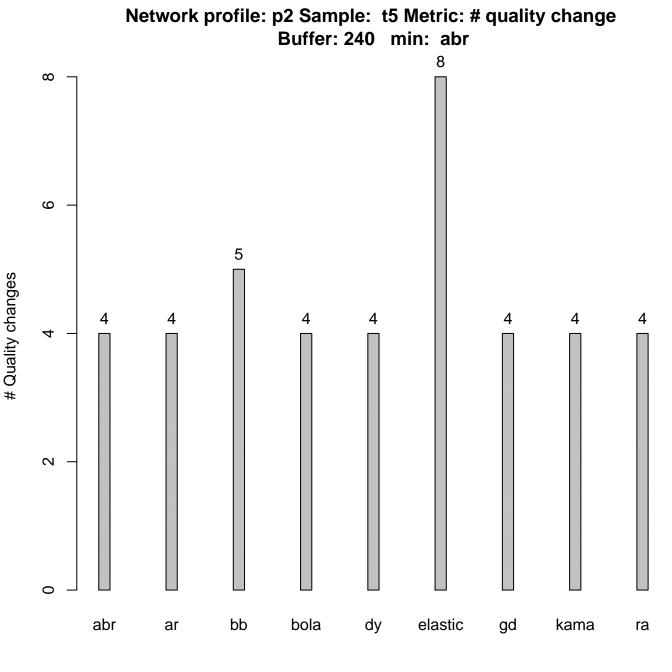
**Network profile: p2 Sample: t4 Metric: Inefficiency** Buffer: 240 min: elastic 0.44983 **\_Q.390573** 0.294352 0.243018<sup>0.250704<sup>0.256879</sup></sup> 0.248445 0.241084 Inefficiency 0.127468 0.1 elastic abr bb bola dy kama ar gd ra

Buffer: 240 min: bb 15 12 11 11 10 10 9 9 # Quality changes  $\infty$ 9 5 5 4  $^{\circ}$ bola elastic kama abr bb dy gd ar ra

Network profile: p2 Sample: t4 Metric: # quality change

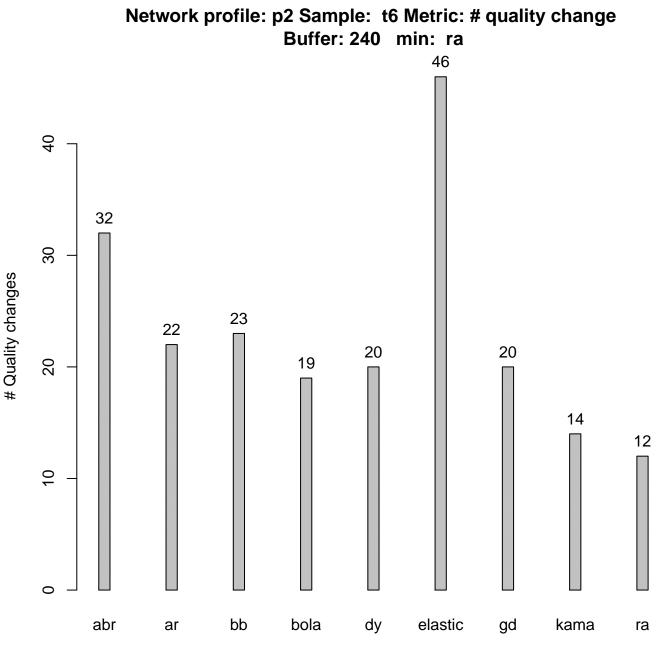


**Network profile: p2 Sample: t5 Metric: Inefficiency** Buffer: 240 min: bola 0.759579 9.0 0.493184 0.5 0.434025 0.450782 0.4468130.444371<sub>0.433613</sub>  $0.430616^{0.440638}$ Inefficiency 0.4 0.3 0.1 elastic abr bb bola dy kama ar gd ra

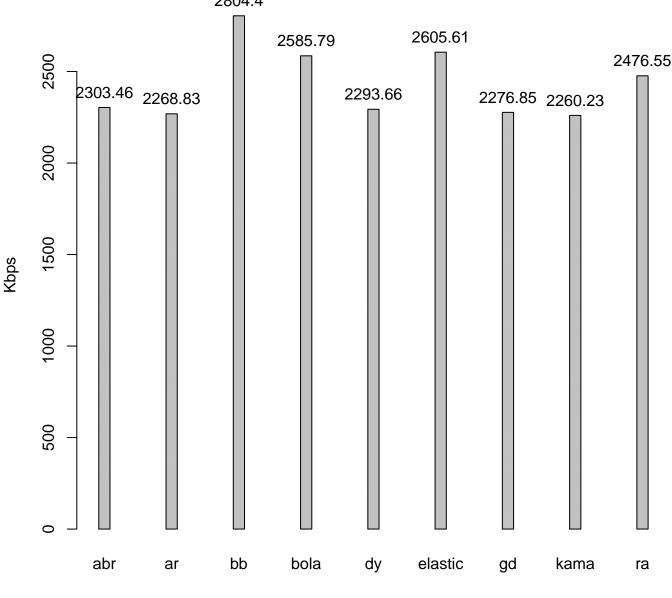


Network profile: p2 Sample: t6 Metric: Avg-Bitrate Buffer: 240 max: bb 4091.08 4000 3000 2938.71 2534.43 2330.29 2100.46 2177.34 2181.06 2181.52 2183.99 2000 elastic abr bb bola dy kama ar gd ra

**Network profile: p2 Sample: t6 Metric: Inefficiency** Buffer: 240 min: elastic 0.549936 4.388533 0.300222 0.2893130.2888270.293015 Inefficiency 0.283473 0.279627 0.236415 elastic abr bb bola dy kama ar gd ra

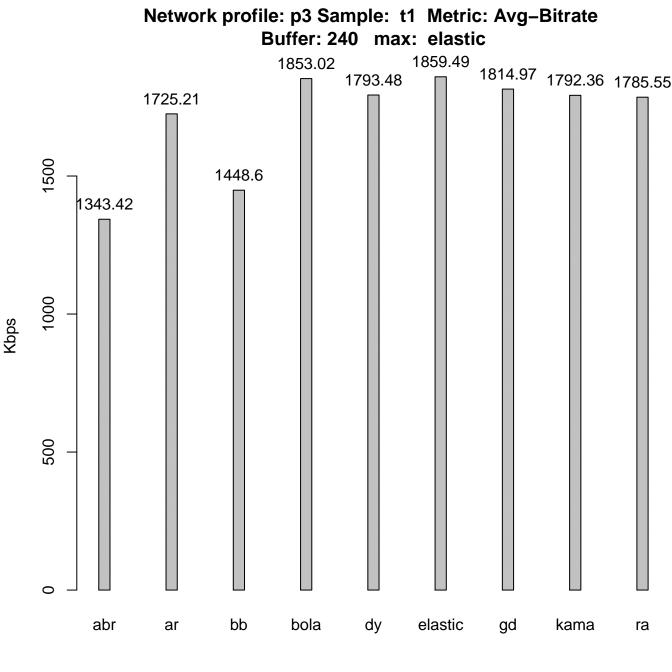


Network profile: p2 Sample: t7 Metric: Avg-Bitrate
Buffer: 240 max: bb
2804.4

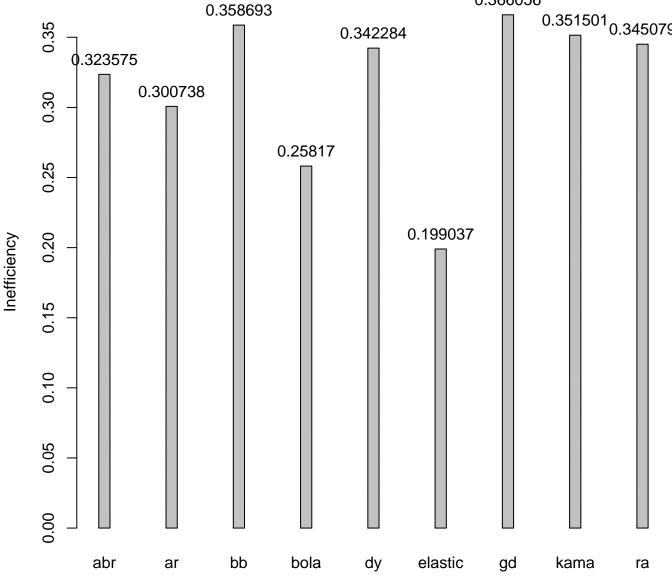


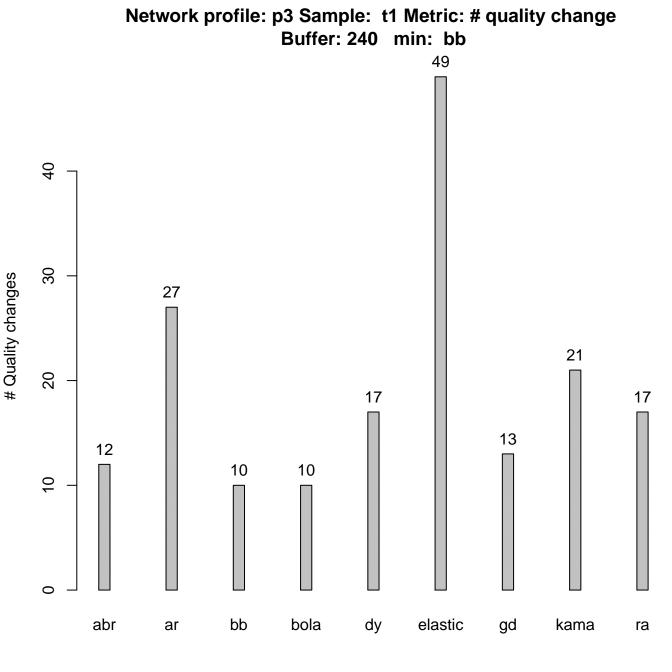
**Network profile: p2 Sample: t7 Metric: Inefficiency** Buffer: 240 min: elastic 0.534688 0.405953 0.3 0.278934 0.268606 0.261134  $0.282319_{0.274414}$ Inefficiency 0.268943 0.200816 0.1 elastic abr bb bola dy kama ar gd ra

Network profile: p2 Sample: t7 Metric: # quality change Buffer: 240 min: bb 46 40 33 30 # Quality changes 20 19 17 16 15 15 12 10 8 abr bola elastic kama bb dy gd ar ra

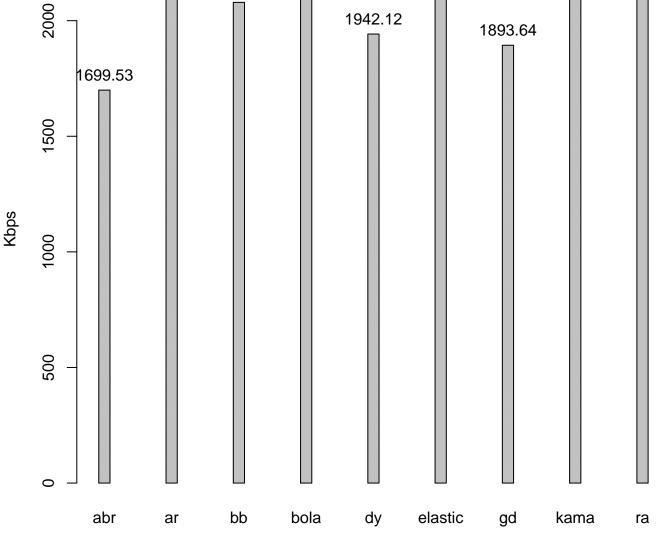


Network profile: p3 Sample: t1 Metric: Inefficiency
Buffer: 240 min: elastic
0.366056

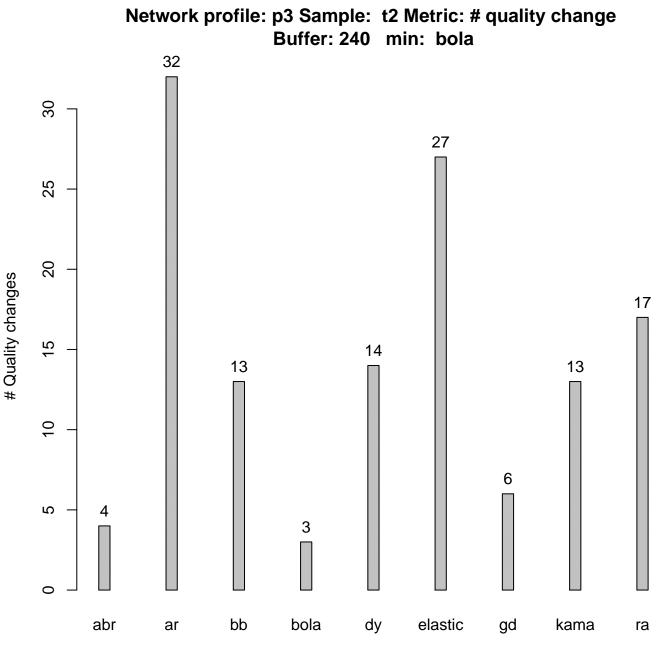




Network profile: p3 Sample: t2 Metric: Avg-Bitrate Buffer: 240 max: elastic 2219.99 2200.7 2177.31 2129.93 2079.02 2103.68 1942.12 1893.64

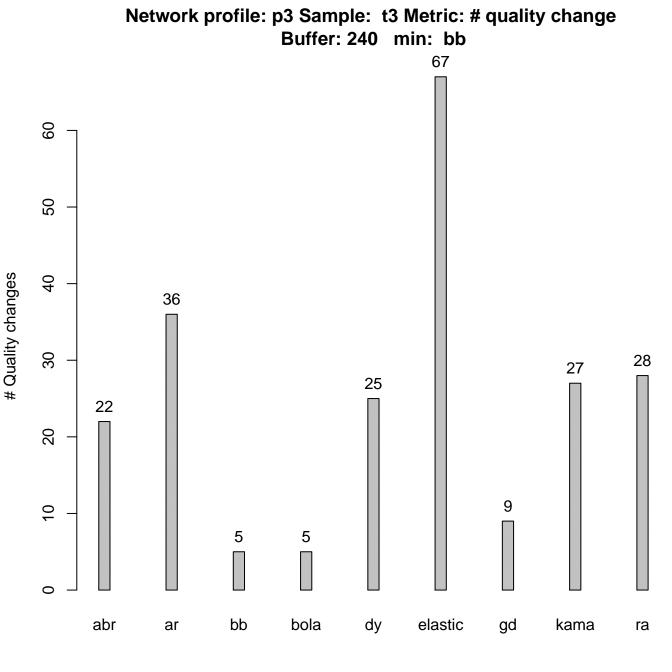


Network profile: p3 Sample: t2 Metric: Inefficiency Buffer: 240 min: elastic 0.275025 0.25  $0.235659_{0.231795}^{0.236742}$ 0.220358 0.210754 0.2088 0.200494 0.20 0.157194 Inefficiency 0.10 0.05 elastic abr bb bola dy kama ar gd ra

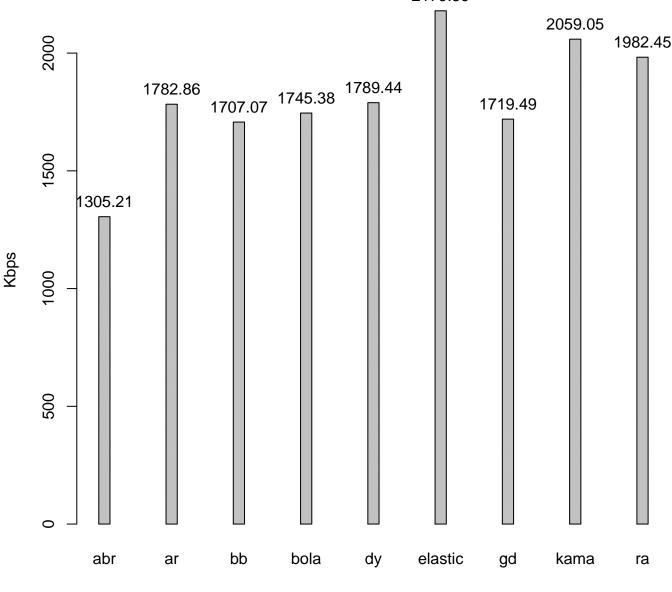


Network profile: p3 Sample: t3 Metric: Avg-Bitrate Buffer: 240 max: ar 2682.42 2644.5 2500 2305.47 2154.28 2112.54 2076.5 2000 1882.41 1880.3 1500 1321.73 1000 500 bola elastic abr bb dy gd kama ar ra

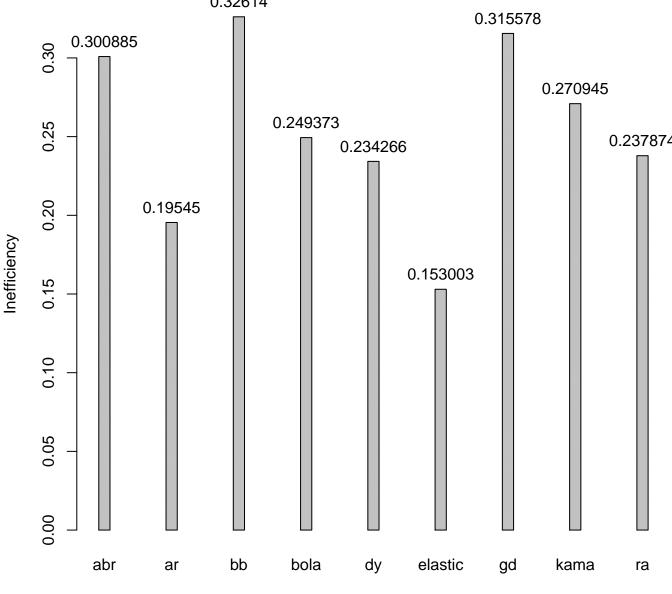
Network profile: p3 Sample: t3 Metric: Inefficiency Buffer: 240 min: elastic 0.307053 0.299722 0.256907 0.25 0.219575 0.211022 0.201996 0.201501 0.20 0.174075 Inefficiency 0.15 0.143536 0.10 0.05 elastic abr bb bola dy kama ar gd ra

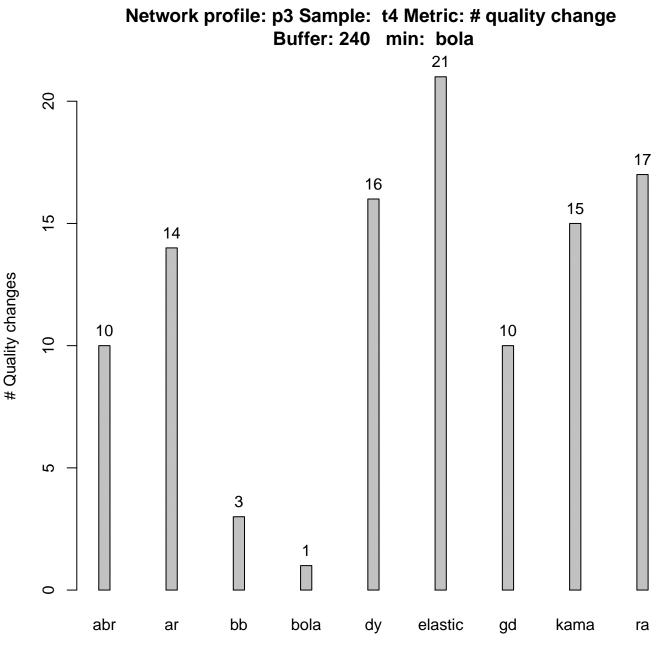


Network profile: p3 Sample: t4 Metric: Avg-Bitrate
Buffer: 240 max: elastic
2179.59



Network profile: p3 Sample: t4 Metric: Inefficiency Buffer: 240 min: elastic 0.32614



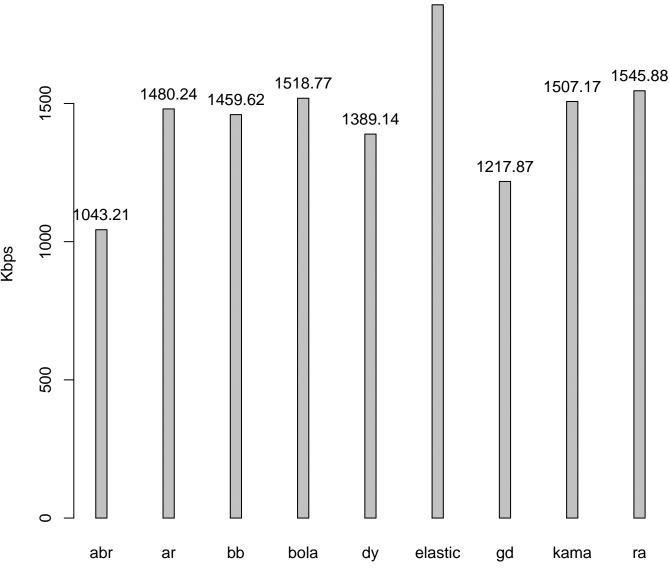


Network profile: p3 Sample: t5 Metric: Avg-Bitrate Buffer: 240 max: elastic 1795.5 1495.83 1500 1448.91 1377.14 1112.56 1129.55 1090.59 1000 855.364 538.535 500 bola elastic abr bb dy kama ar gd ra

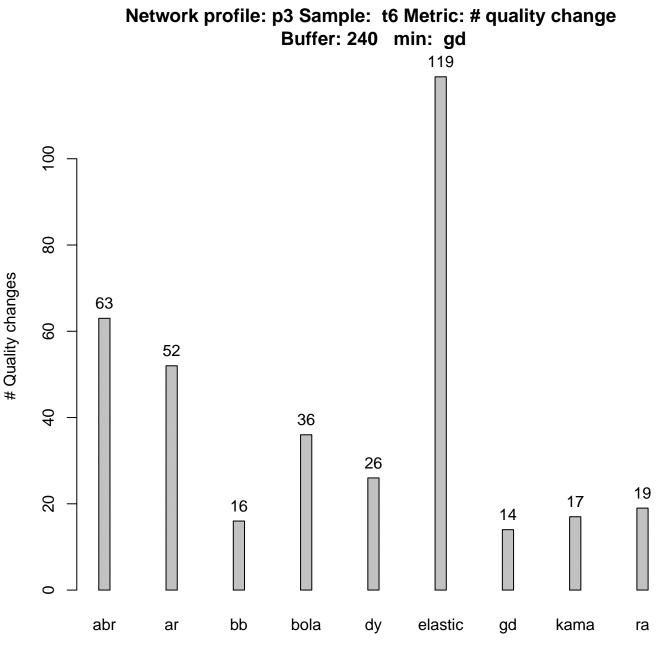
Network profile: p3 Sample: t5 Metric: Inefficiency Buffer: 240 min: elastic 0.690546 0.5 0.416968 0.405594 ₫.391478 0.384744 Inefficiency 0.365092 0.326664 0.299553 0.3 0.25832 0.2 elastic abr bb bola dy kama ar gd ra

Network profile: p3 Sample: t5 Metric: # quality change Buffer: 240 min: bb 24 22 20 17 15 # Quality changes 13 11 10 10 6 5 2 bola elastic abr bb dy gd kama ar ra Network profile: p3 Sample: t6 Metric: Avg-Bitrate
Buffer: 240 max: elastic

1856.94



Network profile: p3 Sample: t6 Metric: Inefficiency Buffer: 240 min: elastic 0.510776 0.5 **þ**.38328 0.372215 0.286365 0.296803 0.296285<sub>0.289976</sub> 0.3 Inefficiency 0.263813 0.220539 elastic abr bb bola dy kama ar gd ra

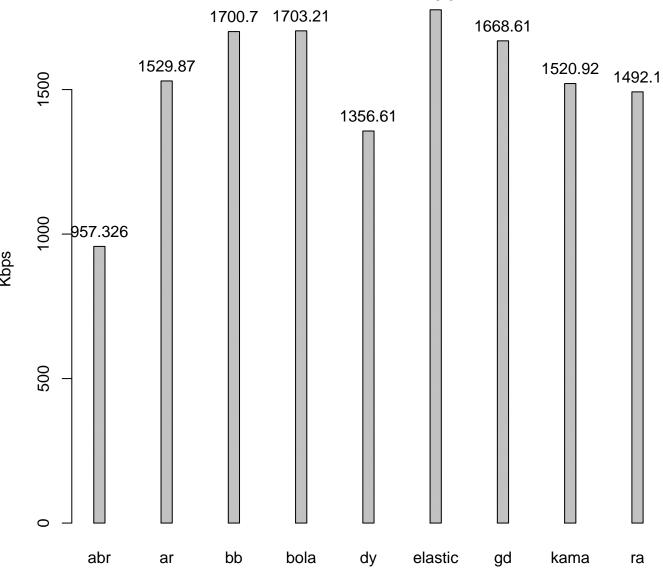


Network profile: p3 Sample: t7 Metric: Avg-Bitrate

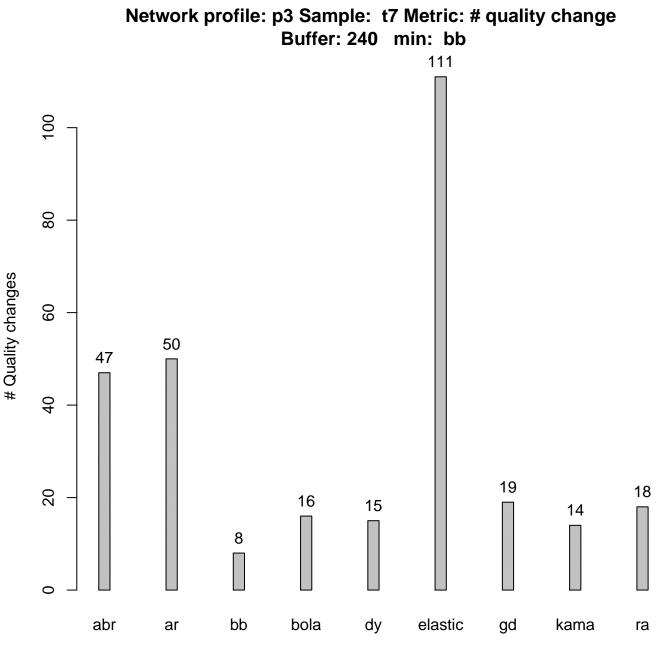
Buffer: 240 max: elastic

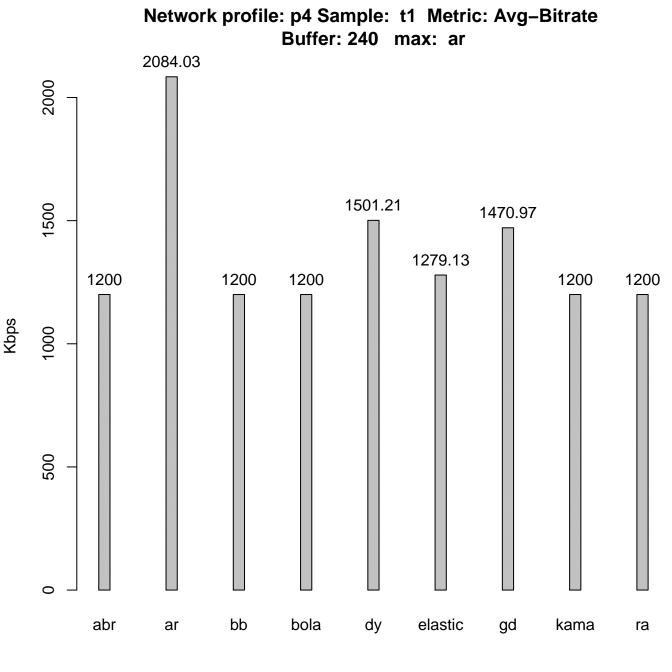
1776.07

1700.7 1703.21 1668.61

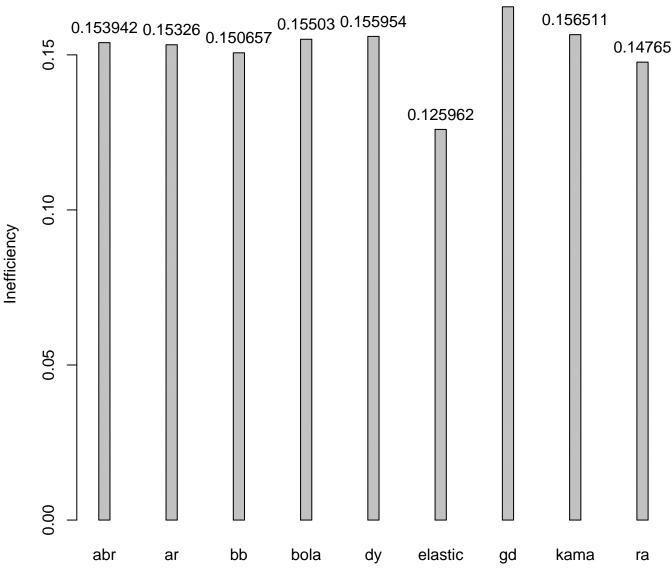


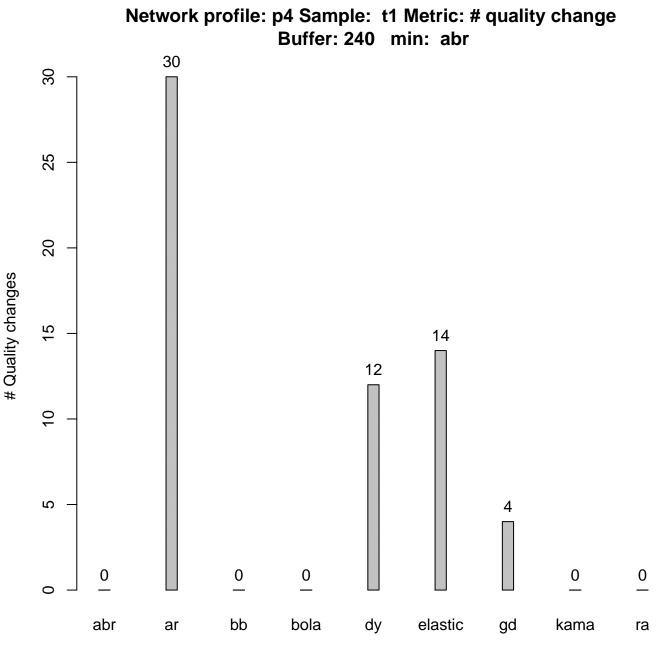
**Network profile: p3 Sample: t7 Metric: Inefficiency** Buffer: 240 min: elastic 0.536833 **0.464561** 0.4 0.366607  $0.321373\ 0.32658$ 0.3141680.314702 0.306336 0.285606 Inefficiency 0.1 elastic abr bb bola dy kama ar gd ra





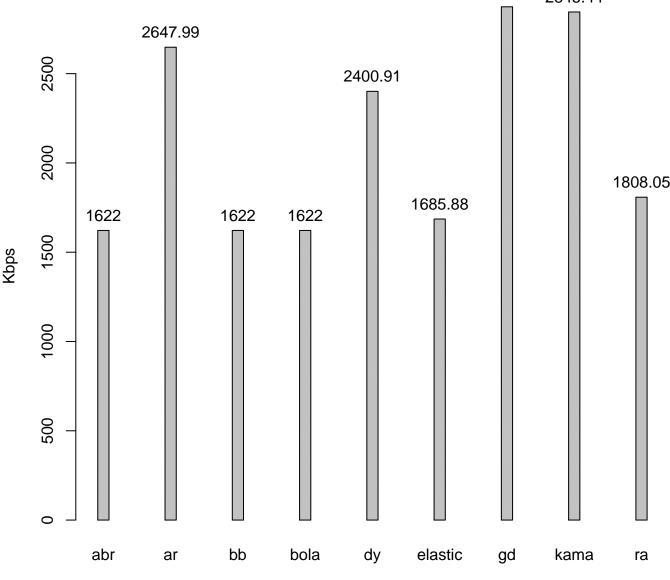
Network profile: p4 Sample: t1 Metric: Inefficiency
Buffer: 240 min: elastic
0.165498

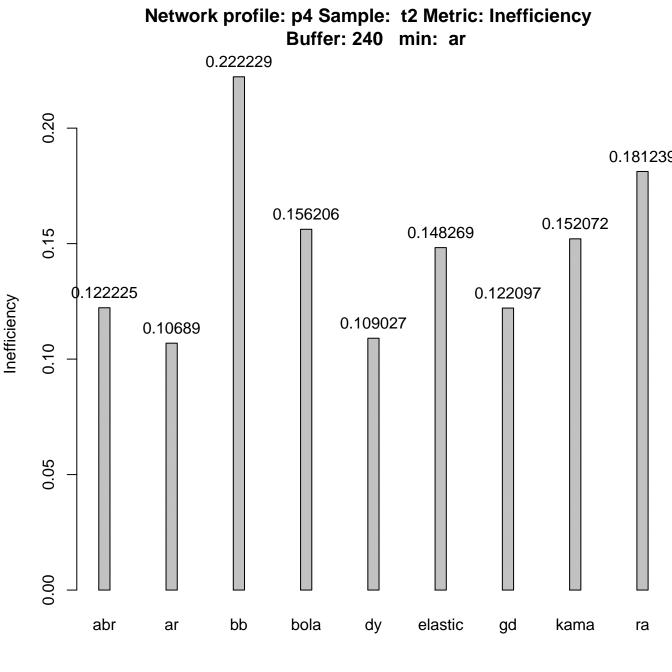


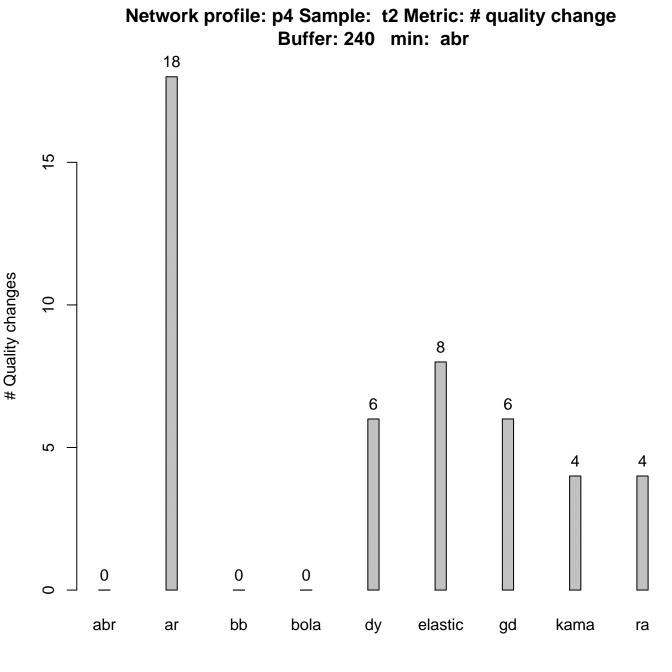


Network profile: p4 Sample: t2 Metric: Avg-Bitrate
Buffer: 240 max: gd

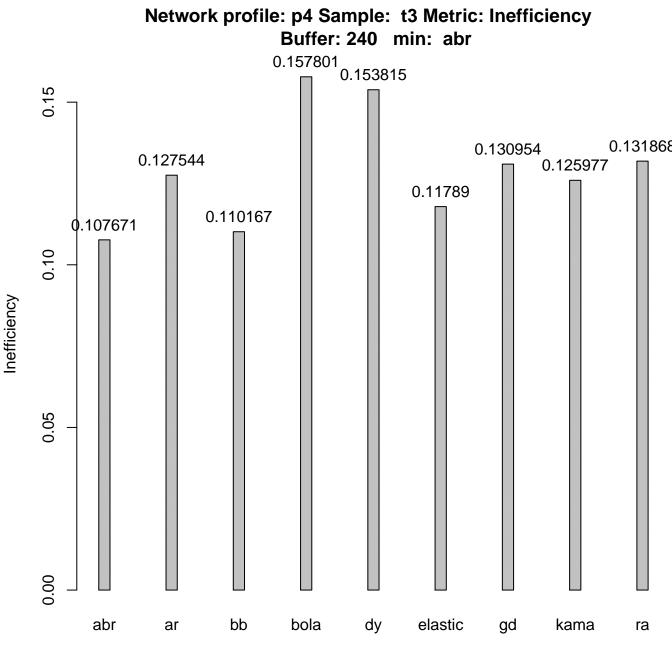
2874.4 2845.44



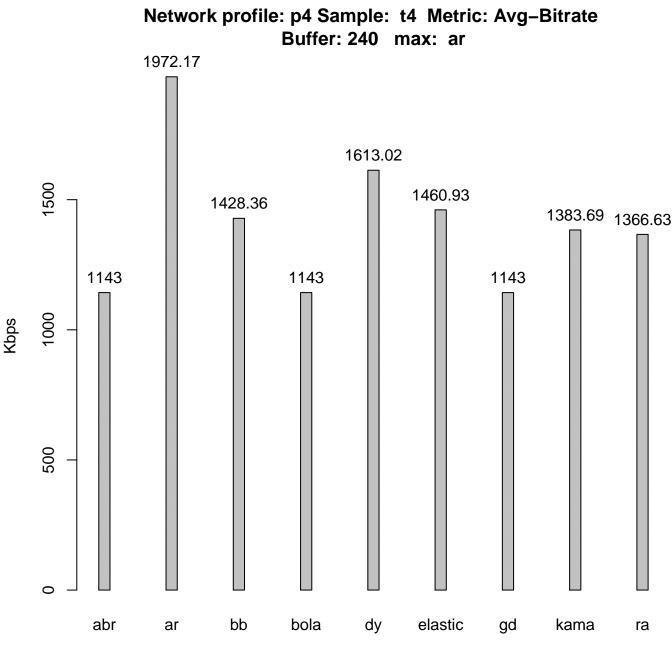


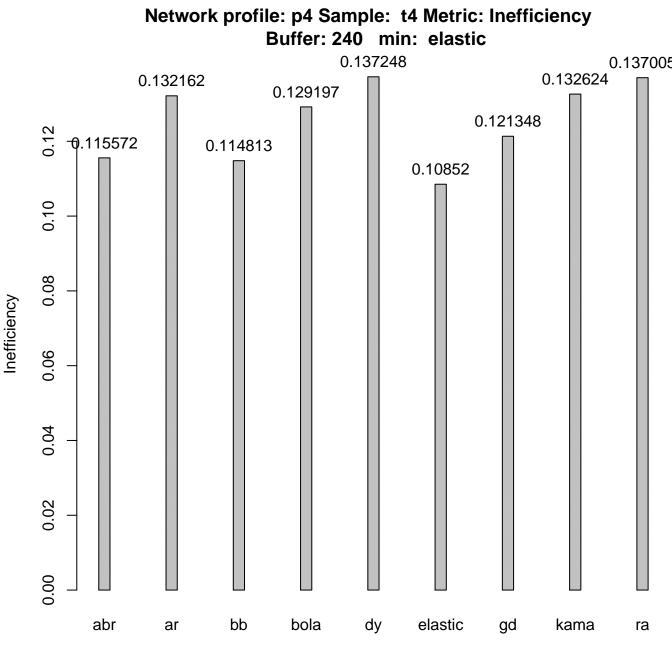


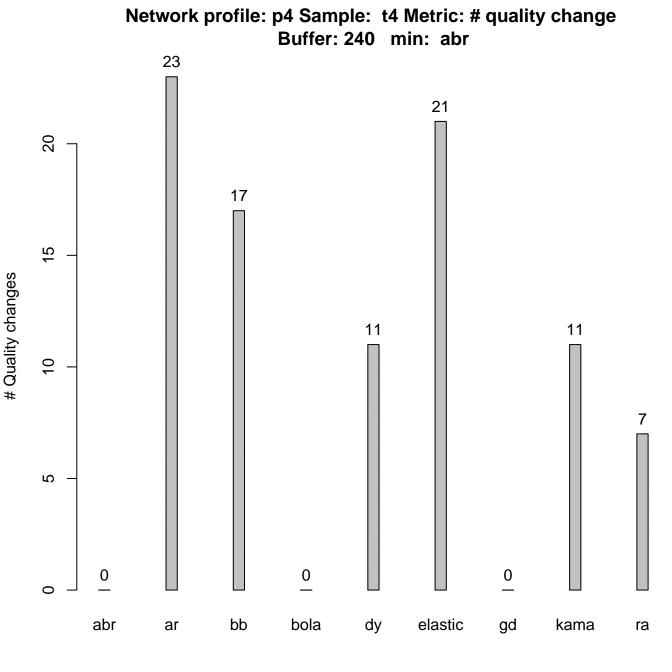
Network profile: p4 Sample: t3 Metric: Avg-Bitrate Buffer: 240 max: ar 2067.53 2000 1701.24 1571.1 1548.81 1506.18 1500 1314.95 1281 1209.81 1198 1000 500 bola elastic abr bb dy gd kama ar ra



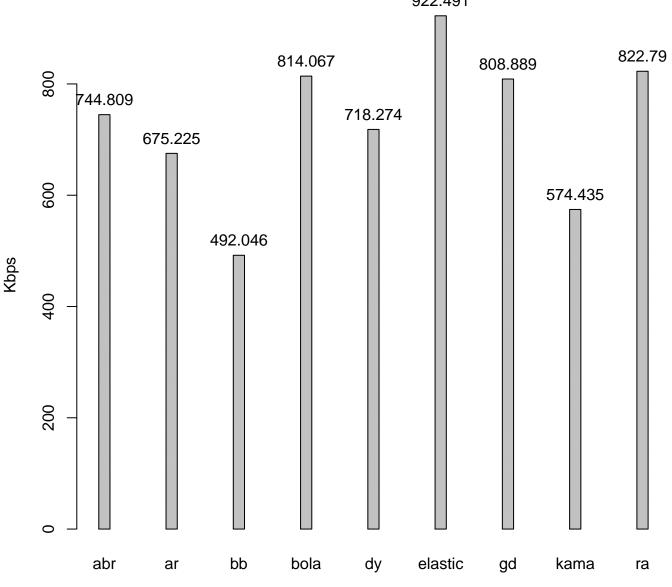
Network profile: p4 Sample: t3 Metric: # quality change Buffer: 240 min: abr 59 50 45 4 # Quality changes 33 30 24 20 13 10 10 2 bola elastic kama abr bb dy gd ar ra



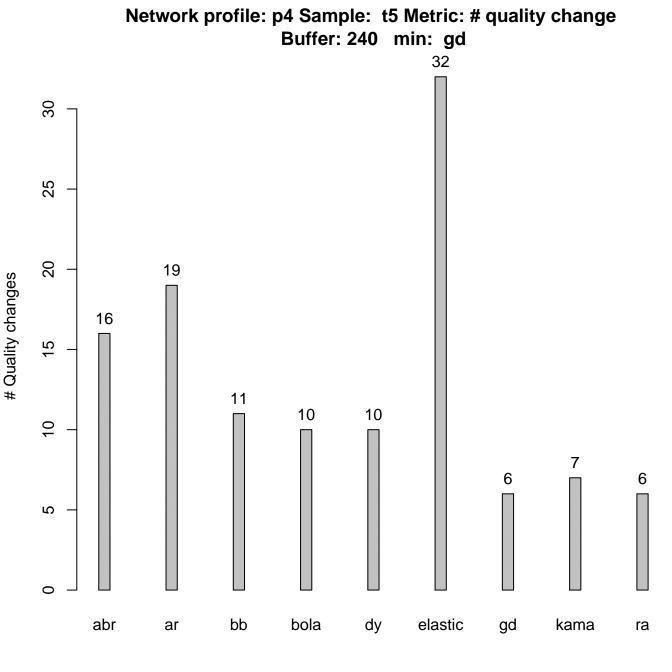




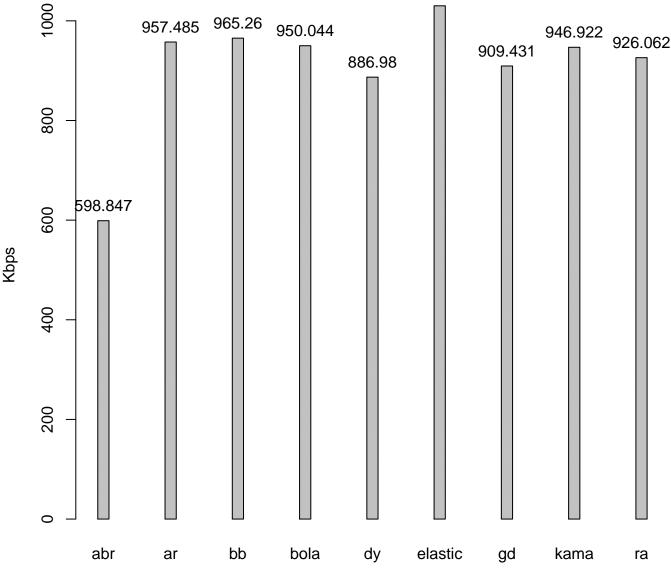
Network profile: p4 Sample: t5 Metric: Avg-Bitrate
Buffer: 240 max: elastic
922.491



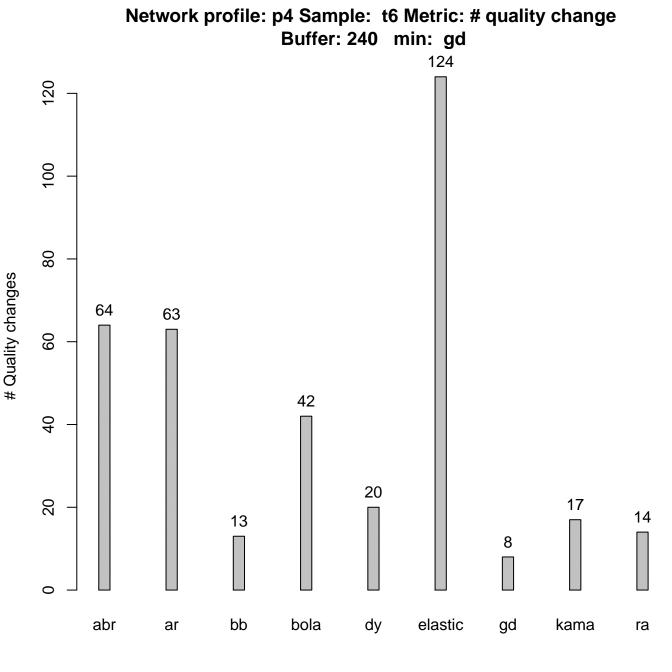
Network profile: p4 Sample: t5 Metric: Inefficiency Buffer: 240 min: gd 0.531546 0.443671 -0.384774 0.360197 0.300487 0.300753 0.290822<sub>0.281529</sub> 0.295525 Inefficiency 0.2 0.1 elastic abr bb bola dy kama ar gd ra



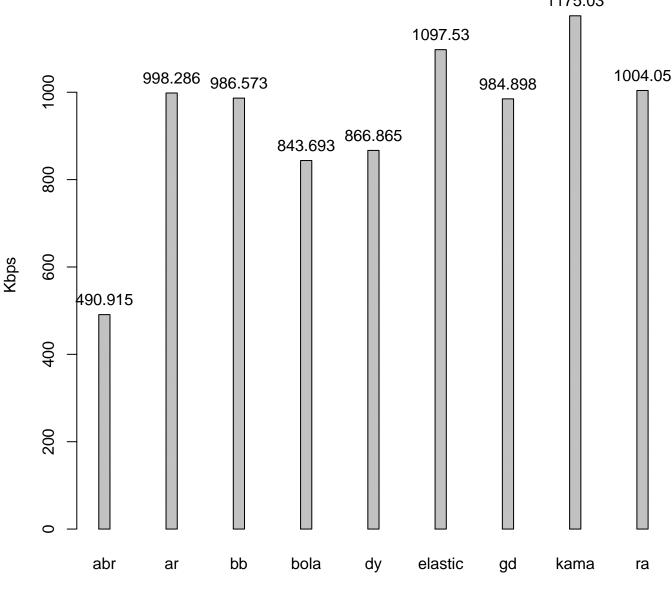
Network profile: p4 Sample: t6 Metric: Avg-Bitrate
Buffer: 240 max: elastic
1030.2



**Network profile: p4 Sample: t6 Metric: Inefficiency** Buffer: 240 min: elastic 0.434046 0.370689 0.292626 0.283664 0.2950320.294432 0.255142 0.255753 Inefficiency 0.220278 elastic abr bb bola dy kama ar gd ra

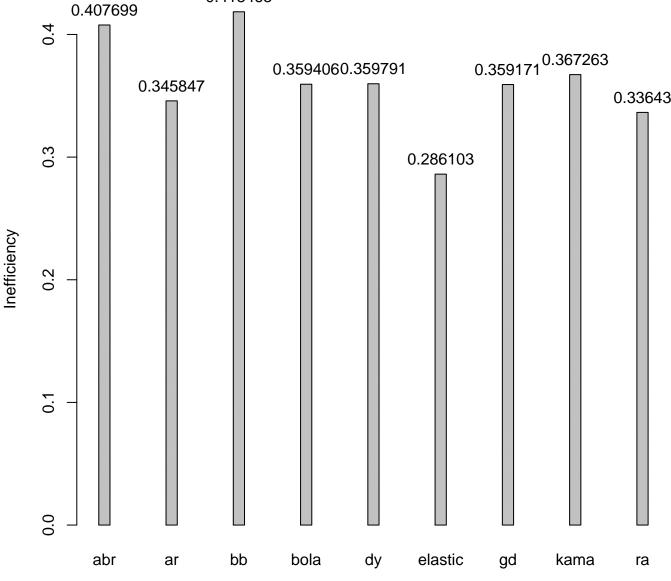


Network profile: p4 Sample: t7 Metric: Avg-Bitrate
Buffer: 240 max: kama
1175.03



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

0.418465



Network profile: p4 Sample: t7 Metric: # quality change Buffer: 240 min: bb 90 80 64 9 # Quality changes 4 35 32 29 26 24 20 10 bola elastic abr bb dy gd kama ar ra