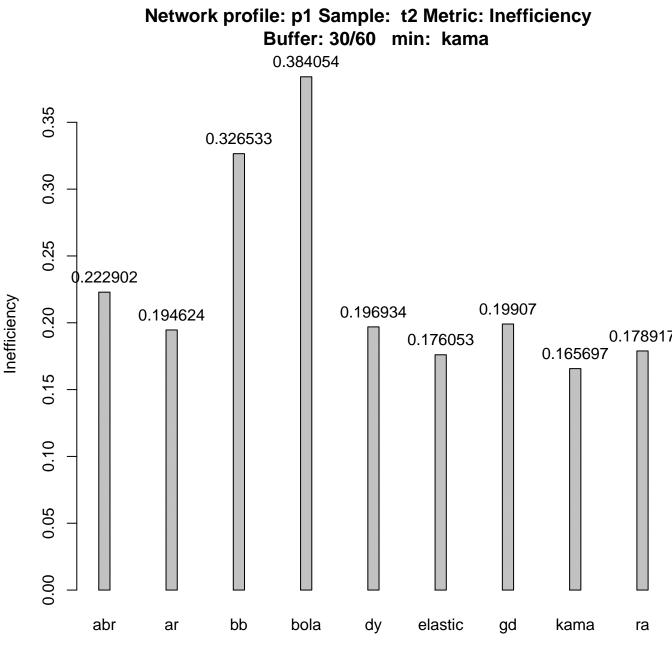


Network profile: p1 Sample: t2 Metric: Avg-Bitrate Buffer: 30/60 max: gd 3245.29 3238.17 3239.13 3218.46 3182.82 3229.47 3165.17 3000 \_2923.41 2500 2000 1938.93 1500 1000 500 elastic abr bb bola dy kama ar gd ra



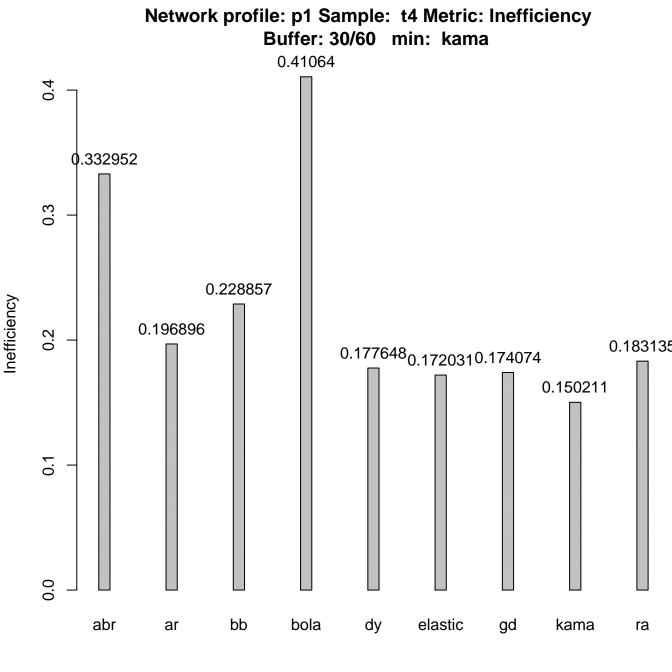
Network profile: p1 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola 88 80 9 # Quality changes 40 26 20 20 20 19 20 16 9 4 abr bola elastic kama bb dy gd ar ra

Network profile: p1 Sample: t3 Metric: Avg-Bitrate Buffer: 30/60 max: bb 3271.61 3174.95 3153.84 3223.03 3209.69 3216.58 3187.96 3000 2887.93 2719.58 2500 2000 Kbps 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t3 Metric: Inefficiency Buffer: 30/60 min: ra 0.369909 0.35 0.325825 0.296171 0.30 0.270479 0.261979 0.259648 0.249713 0.25 0.240502 0.220439 Inefficiency 0.20 0.15 0.10 0.05 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 146 140 120 100 # Quality changes 8 9 37 40 27 25 25 25 23 20 9 abr bola elastic kama bb dy gd ar ra

Network profile: p1 Sample: t4 Metric: Avg-Bitrate Buffer: 30/60 max: ra 3439.73 3382.88 3471.06 3417.98 3422.35 3346 3227.89 3000 2506.9 2500 2303.02 2000 Kbps 1500 1000 500 elastic abr bb bola dy kama ar gd ra



Network profile: p1 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 78 9 # Quality changes 4 27 25 25 24 21 20 13 11 6 abr bola elastic kama bb dy gd ar ra

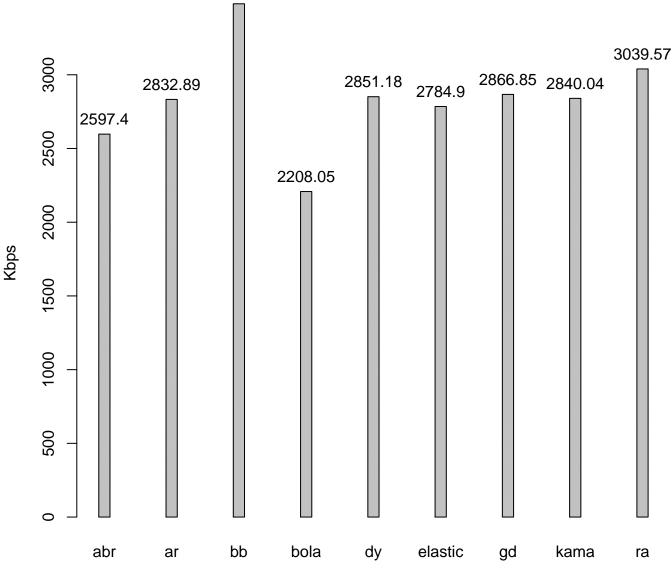
Buffer: 30/60 max: kama 2111.62 2106.49 2058.48 2091.64 2114.07 2113.89 2098.91 2000 1961.47 1801.32 1500 500 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t5 Metric: Avg-Bitrate

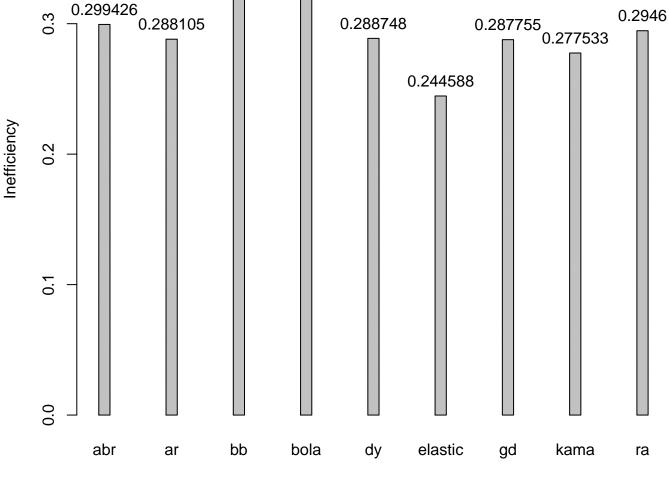
**Network profile: p1 Sample: t5 Metric: Inefficiency** Buffer: 30/60 min: ar 0.509916 0.5 0.426284 0.3808720.385732 0.380584  $0.368147_{0.360354}$ 0.361425 0.359583 0.3 Inefficiency elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t5 Metric: # quality change Buffer: 30/60 min: kama 26 25 20 20 # Quality changes 15 10 10 6 6 6 6 2 abr bola elastic kama bb dy gd ar ra

Network profile: p1 Sample: t6 Metric: Avg-Bitrate
Buffer: 30/60 max: bb
3481.43



**Network profile: p1 Sample: t6 Metric: Inefficiency** Buffer: 30/60 min: elastic 0.393433 0.319069 0.288105 0.288748 0.287755 0.277533 0.244588



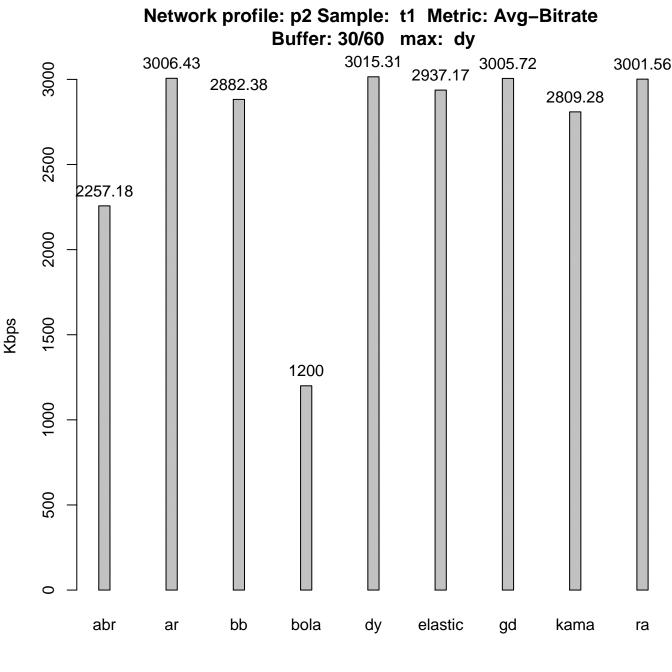
Network profile: p1 Sample: t6 Metric: # quality change Buffer: 30/60 min: ra 479 300 # Quality changes 200 100 65 65 55 55 53 52 48 47 abr bola elastic kama bb dy gd ar ra

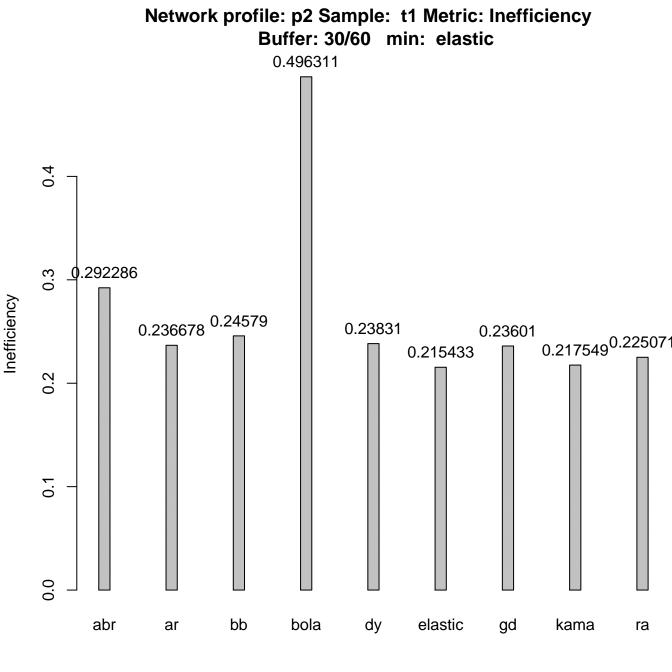
Network profile: p1 Sample: t7 Metric: Avg-Bitrate Buffer: 30/60 max: gd 2742.77 2716.72 2730.93 2715.41 2612.64 2635.24 2658.29 2662.98 2580.9 2500 2000 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Buffer: 30/60 min: elastic 0.37192 0.35 <del>-0</del>.339005 0.30 0.261376 0.241581 0.248893 0.25 0.232489 0.232266 0.216906 0.200599 Inefficiency 0.20 0.15 0.10 0.05 elastic abr bb bola dy kama ar gd ra

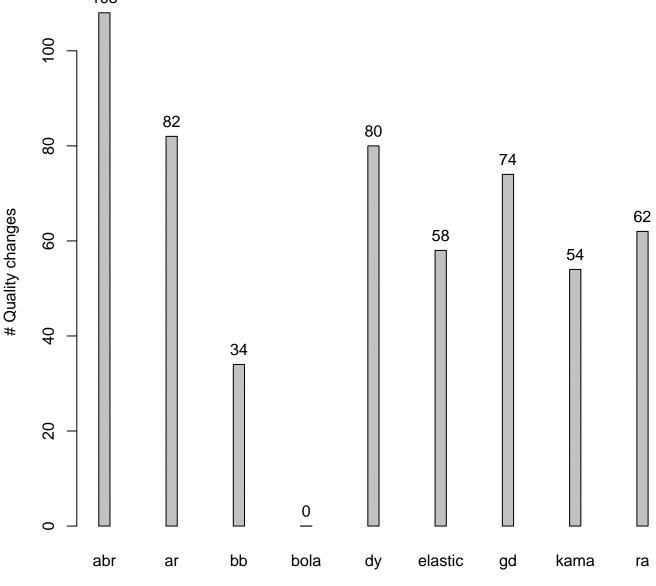
**Network profile: p1 Sample: t7 Metric: Inefficiency** 

Network profile: p1 Sample: t7 Metric: # quality change Buffer: 30/60 min: bb 236 200 150 # Quality changes 100 20 45 39 39 30 28 26 23 21 abr bola elastic kama bb dy gd ar ra

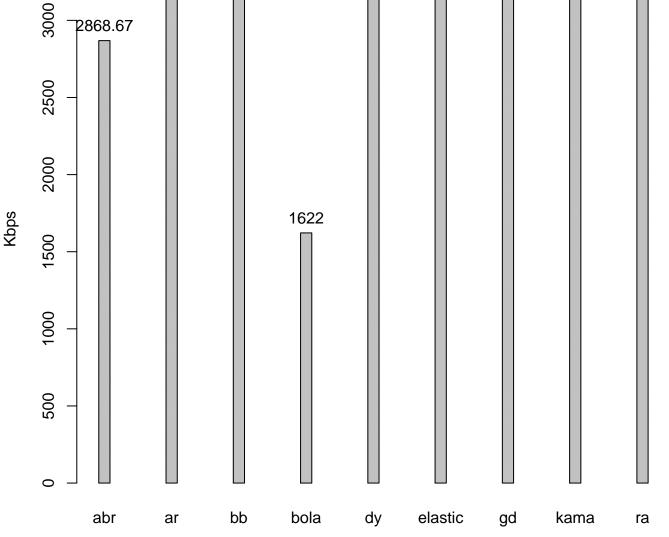


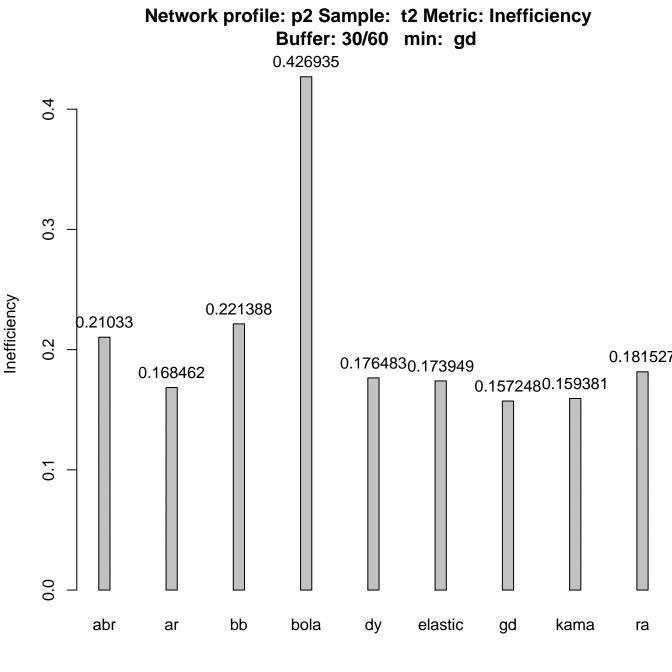


Network profile: p2 Sample: t1 Metric: # quality change Buffer: 30/60 min: bola

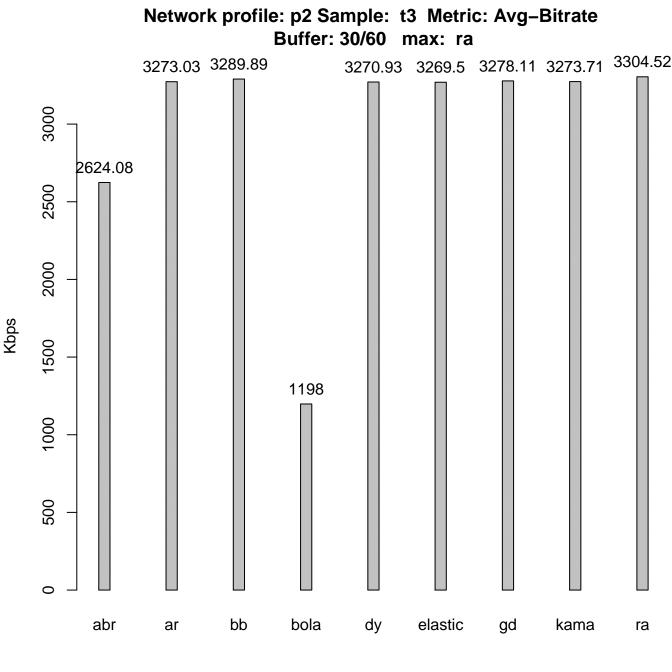


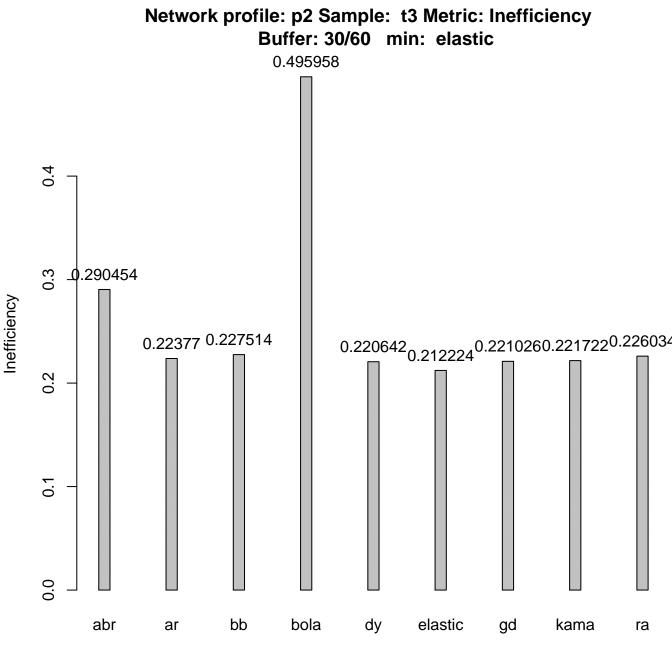
Network profile: p2 Sample: t2 Metric: Avg-Bitrate Buffer: 30/60 max: kama 3284.01 3245.47 3272.49 3327.93 3295.89 3264.64 3195.12 72868.67





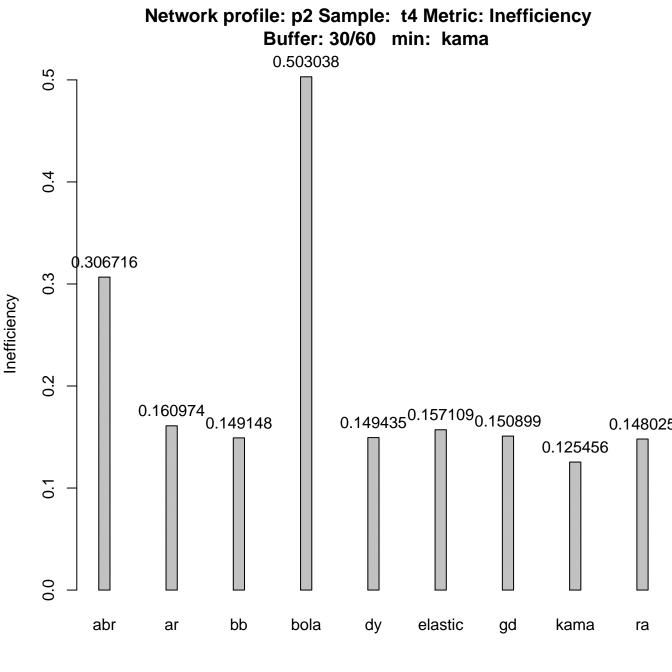
Network profile: p2 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola 82 8 9 # Quality changes 40 26 22 20 20 16 16 14 8 abr bola elastic kama bb dy gd ar ra





Network profile: p2 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 102 100 80 # Quality changes 9 46 42 38 4 36 30 22 20 6 abr bola elastic kama bb dy gd ar ra

Network profile: p2 Sample: t4 Metric: Avg-Bitrate **Buffer: 30/60** max: ra 3350.87 3298.51 3285.4 3291.67 3277.3 3206.67 3163.57 3000 2544.05 2500 2000 Kbps 1500 1143 1000 500 bola elastic abr bb dy gd kama ar ra



Network profile: p2 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 74 9 20 # Quality changes 40 30 28 24 24 20 20 20 18 14 10

bola

dy

bb

ar

elastic

gd

kama

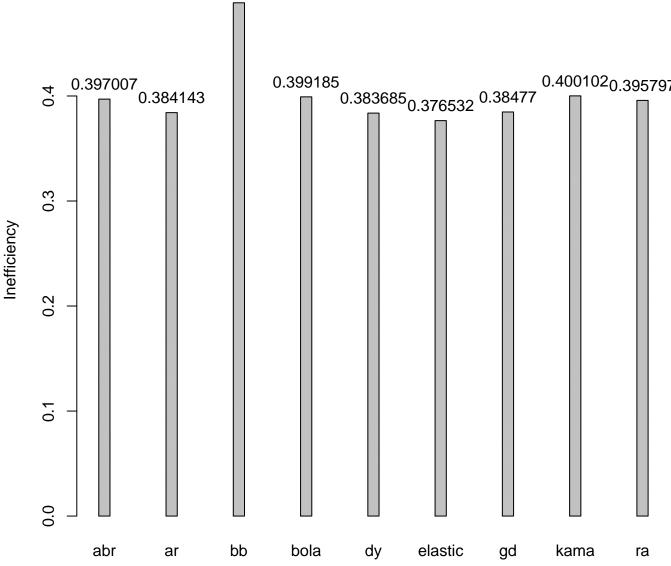
ra

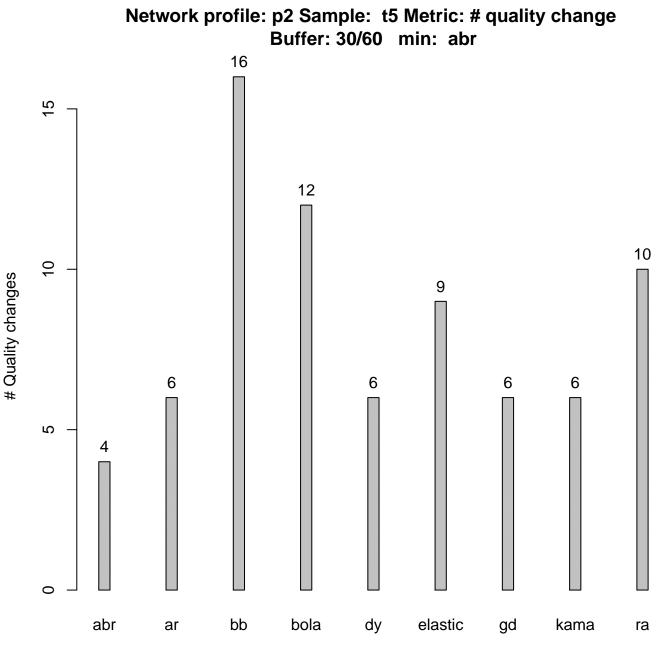
abr

Network profile: p2 Sample: t5 Metric: Avg-Bitrate Buffer: 30/60 max: kama 1967.22 1974.53 1940.42 1973.07 1972.8 1908.4 1886.82 1853.61 1838.48 1500 500 elastic abr bb bola dy kama ar gd ra

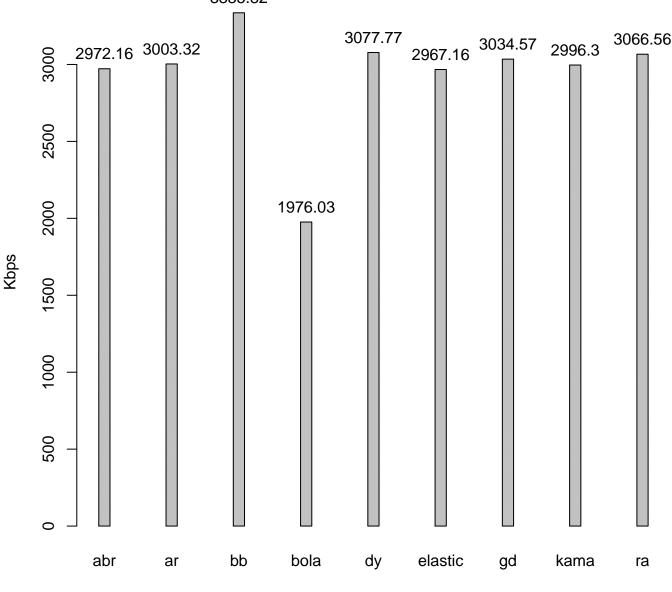
Network profile: p2 Sample: t5 Metric: Inefficiency
Buffer: 30/60 min: elastic

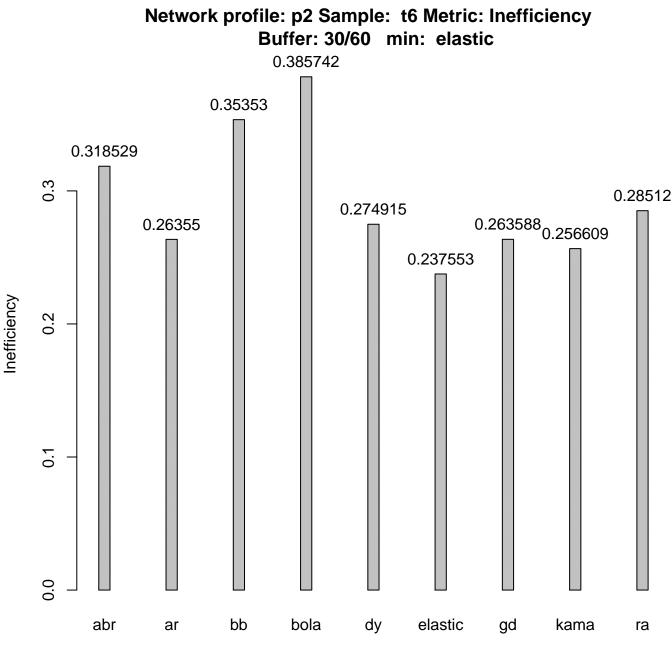
0.488738



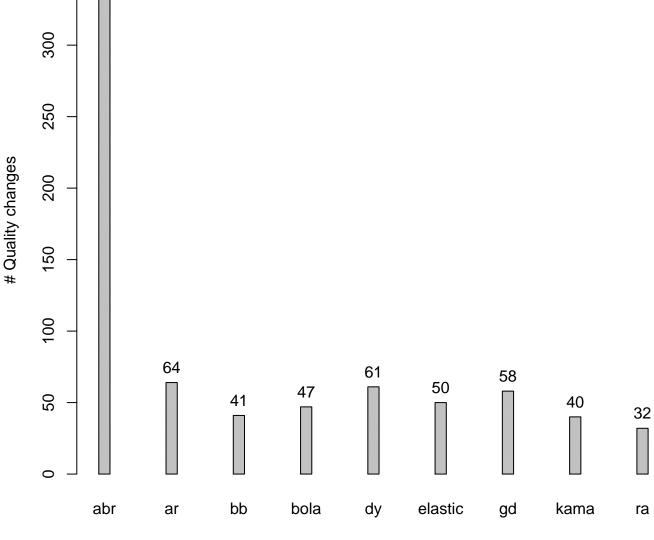


Network profile: p2 Sample: t6 Metric: Avg-Bitrate
Buffer: 30/60 max: bb
3335.82





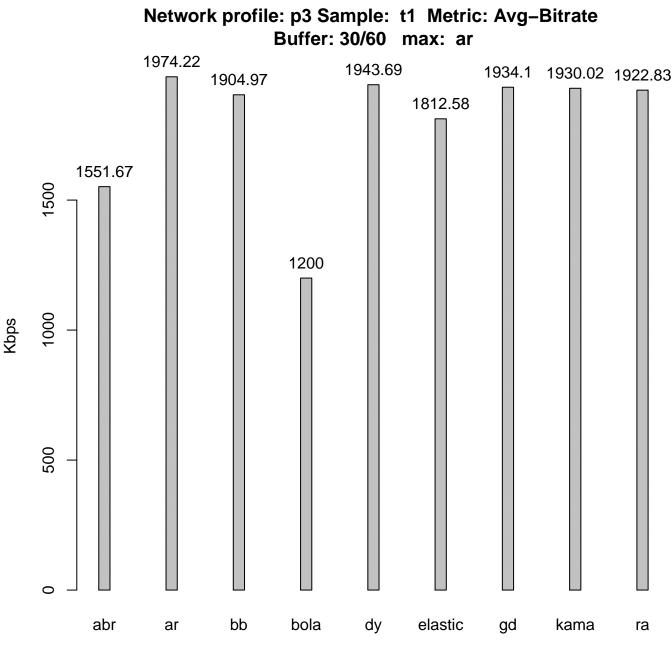
Network profile: p2 Sample: t6 Metric: # quality change Buffer: 30/60 min: ra 



Network profile: p2 Sample: t7 Metric: Avg-Bitrate Buffer: 30/60 max: bb 2700.97 2648.59 2653.82 2678.99 2638.71 2620.39 2547.2 2533.42 2500 2422.3 2000 1500 1000 500 elastic abr bb bola dy kama ar gd ra

**Network profile: p2 Sample: t7 Metric: Inefficiency** Buffer: 30/60 min: elastic 0.3219270.322091 0.31586 0.30 0.240965 — 0.256448 0.25 0.243399 0.234871 0.200165 0.20 Inefficiency 0.10 0.05 elastic abr bb bola dy kama ar gd ra

Network profile: p2 Sample: t7 Metric: # quality change Buffer: 30/60 min: bb 124 120 100 80 # Quality changes 9 40 40 34 30 28 28 26 20 20 16 abr bola elastic kama bb dy gd ar ra



Network profile: p3 Sample: t1 Metric: Inefficiency Buffer: 30/60 min: elastic 0.369505 0.35 0.319468 0.30 0.250837 0.25 0.237765 0.227538 -0.236161 0.227958 0.22717 0.196962 Inefficiency 0.20 0.15 0.10 0.05 elastic abr bb bola dy kama ar gd ra

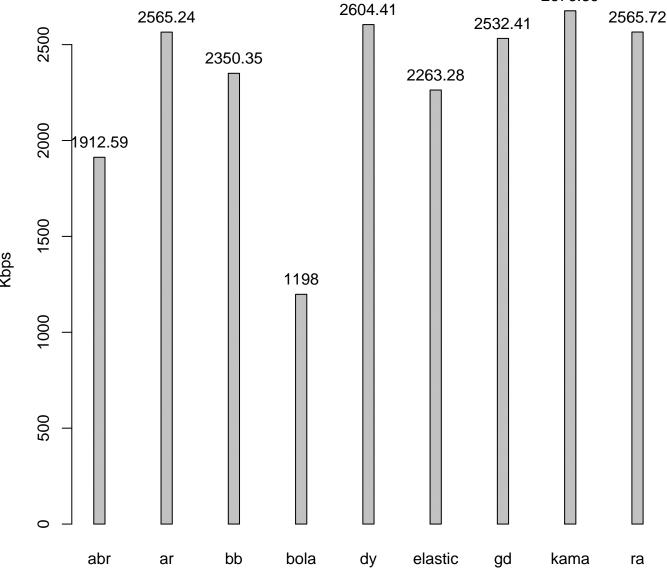
Network profile: p3 Sample: t1 Metric: # quality change Buffer: 30/60 min: bola 142 140 120 100 # Quality changes 80 61 9 57 55 55 50 43 39 40 20 abr bola elastic kama bb dy gd ar ra

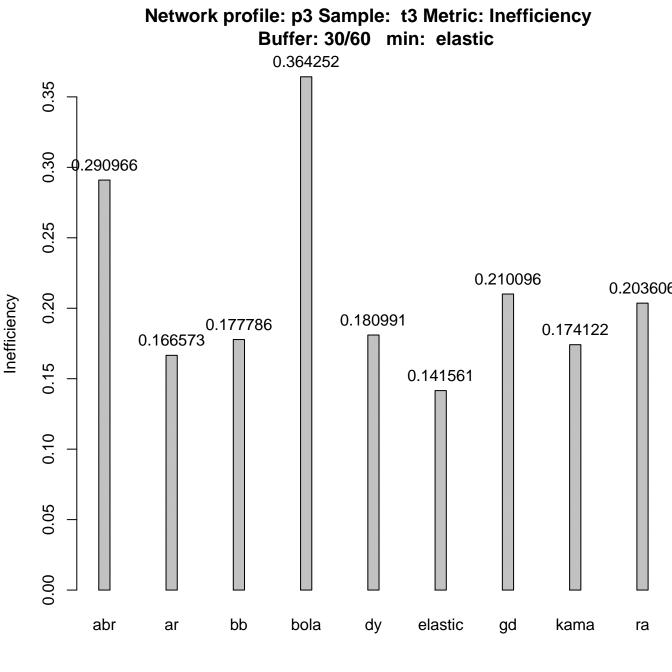
Network profile: p3 Sample: t2 Metric: Avg-Bitrate Buffer: 30/60 max: ar 2534.64 2500 2470.82 2405.79 2303.8 2262.97 2227.49 2224.54 2134.86 2000 1622 1500 1000 500 bola elastic abr bb dy kama ar gd ra

Network profile: p3 Sample: t2 Metric: Inefficiency Buffer: 30/60 min: elastic 0.245121 0.211896 0.200032 0.20 0.193968 0.186411 0.176199 0.174819 0.162947 0.150449 0.15 Inefficiency 0.10 0.05 elastic abr bb bola dy kama ar gd ra

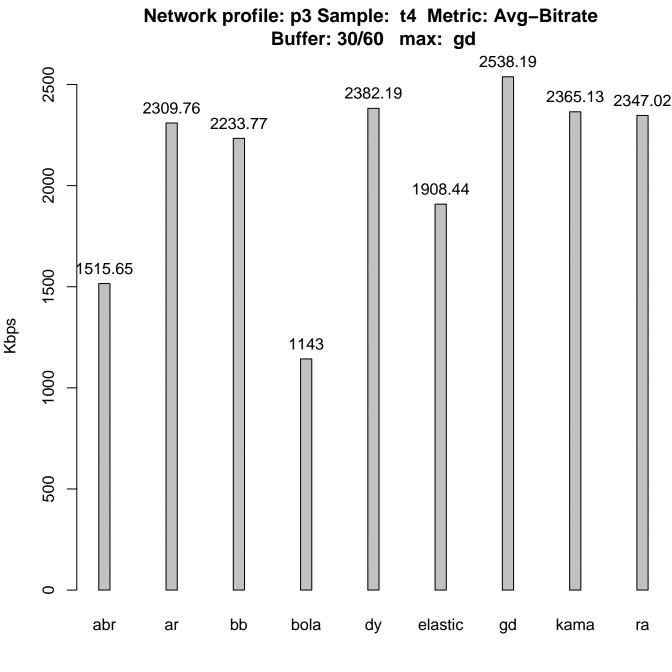
Network profile: p3 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola 152 140 120 100 # Quality changes 80 9 42 40 31 29 25 22 20 19 20 abr bola elastic kama bb dy gd ar ra

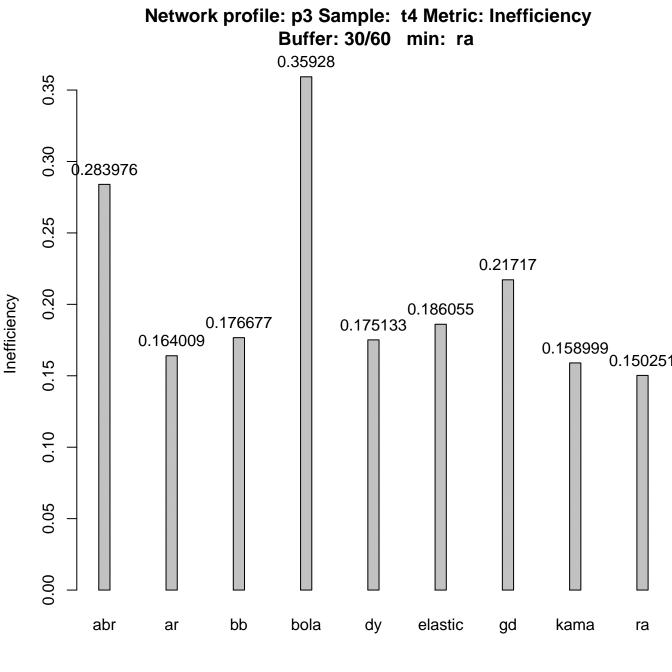
Network profile: p3 Sample: t3 Metric: Avg-Bitrate
Buffer: 30/60 max: kama
2676.39



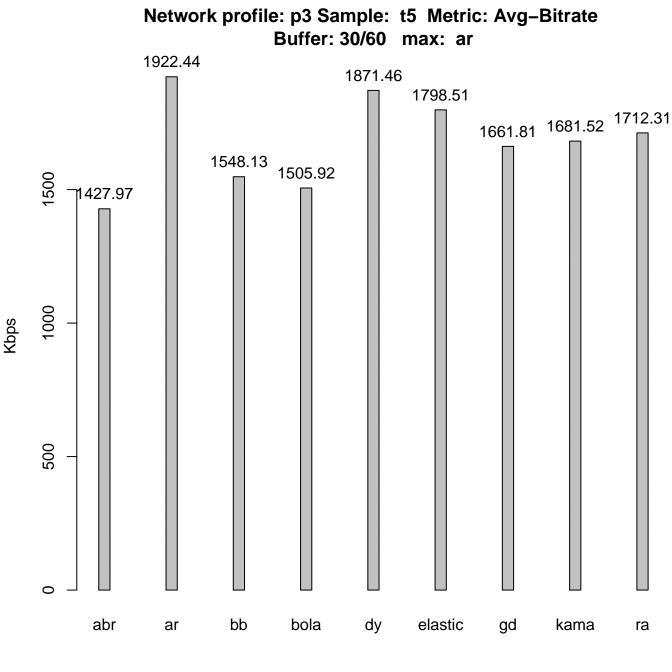


Network profile: p3 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 162 150 100 # Quality changes 65 62 60 58 52 50 42 21 abr bola elastic kama bb dy gd ar ra





Network profile: p3 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 126 120 100 80 # Quality changes 9 40 33 33 33 31 31 29 20 20 abr bola elastic kama bb dy gd ar ra



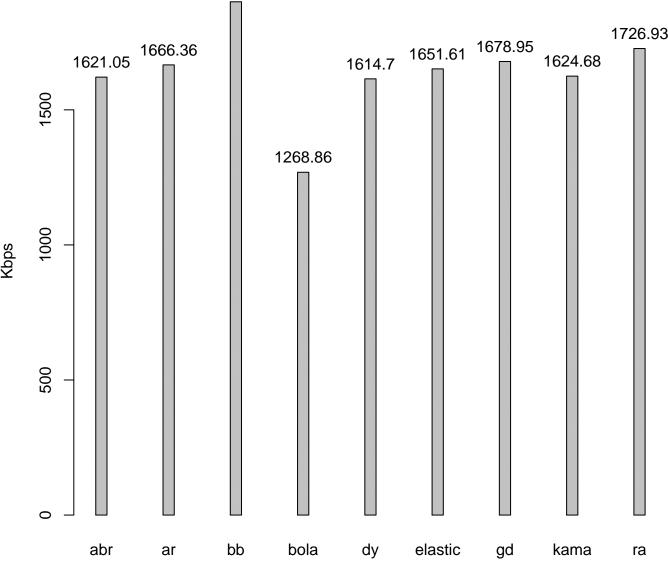
Network profile: p3 Sample: t5 Metric: Inefficiency Buffer: 30/60 min: gd 0.36506 0.352986 0.330184 0.3235290.32322 0.30 0.282389 0.254826 0.242123 0.232793 0.25 0.20 Inefficiency 0.15 0.10 0.05 elastic abr bb bola dy kama ar gd ra

Network profile: p3 Sample: t5 Metric: # quality change Buffer: 30/60 min: bb 34 30 28 25 24 24 22 20 # Quality changes 20 18 16 15 14 10 2 bola elastic abr bb dy gd kama ar ra

Network profile: p3 Sample: t6 Metric: Avg-Bitrate

Buffer: 30/60 max: bb

1899.9



Network profile: p3 Sample: t6 Metric: Inefficiency Buffer: 30/60 min: elastic 0.385496 0.359381 0.34252 0.302555 0.3 0.279336 0.26789 0.267352 0.247996 0.208492 Inefficiency elastic abr bb bola dy kama ar gd ra

Network profile: p3 Sample: t6 Metric: # quality change Buffer: 30/60 min: gd 676 009 500 400 # Quality changes 300 200 113 93 100 70 51 39 32 24 16 abr bola elastic kama bb dy gd ar ra

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

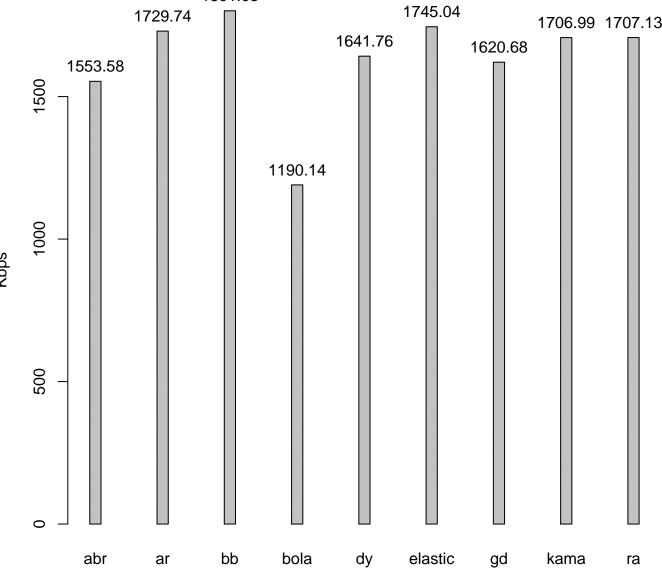
Buffer: 30/60 max: bb

1801.03

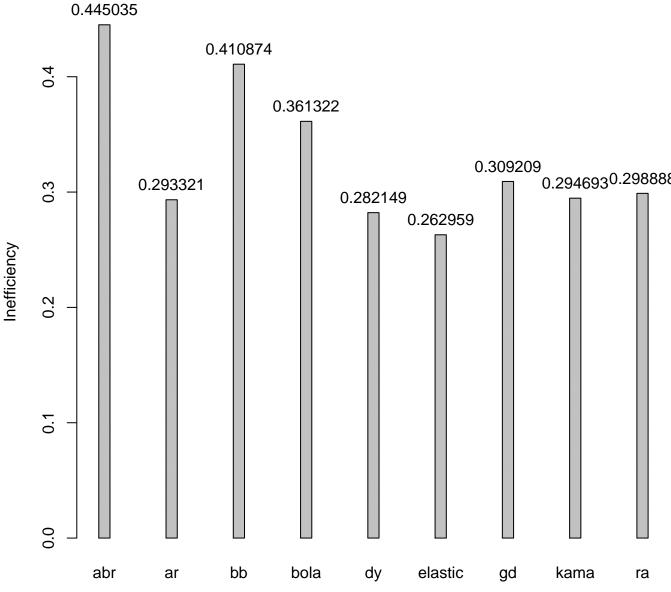
1729.74

1706.99 1

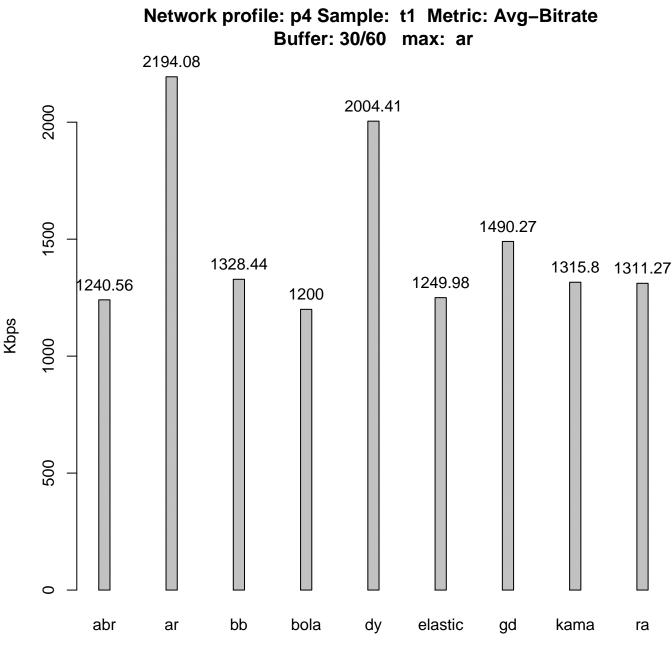
1641.76



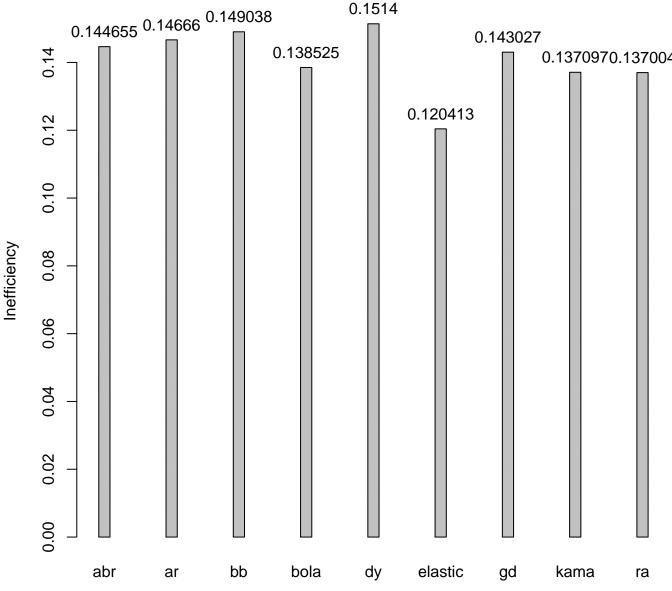
Network profile: p3 Sample: t7 Metric: Inefficiency Buffer: 30/60 min: elastic



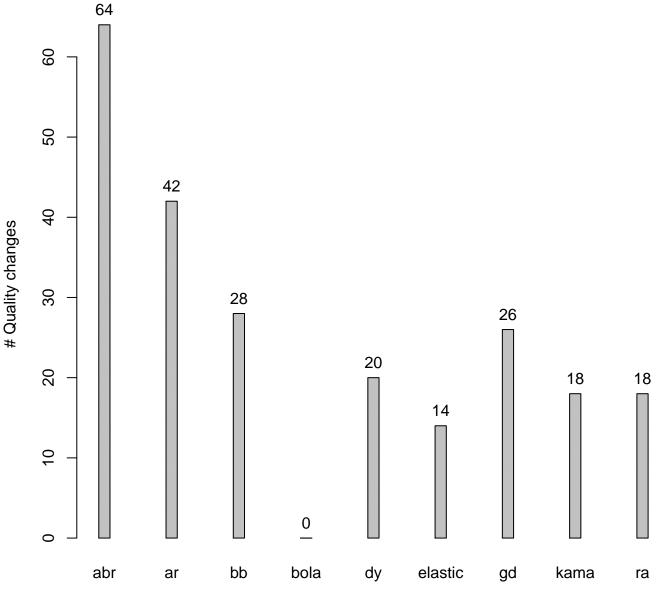
Network profile: p3 Sample: t7 Metric: # quality change Buffer: 30/60 min: bola 340 300 250 # Quality changes 200 150 102 100 73 51 49 50 34 32 29 23 abr bola elastic bb dy gd kama ar ra

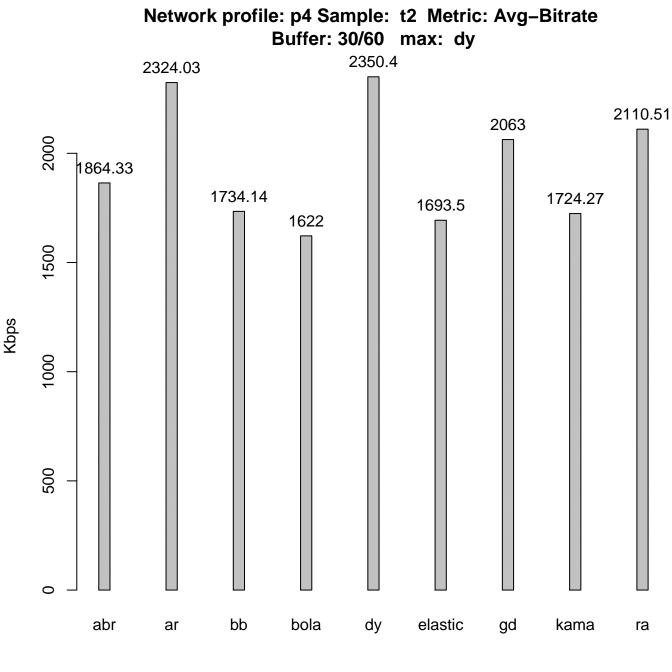


Network profile: p4 Sample: t1 Metric: Inefficiency
Buffer: 30/60 min: elastic
0.1514



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

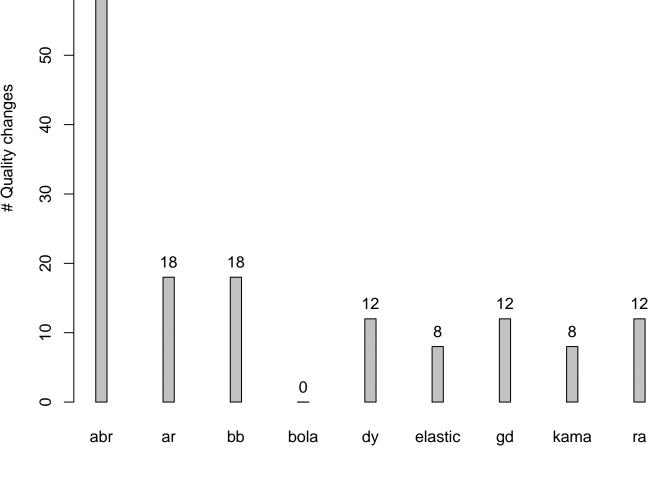




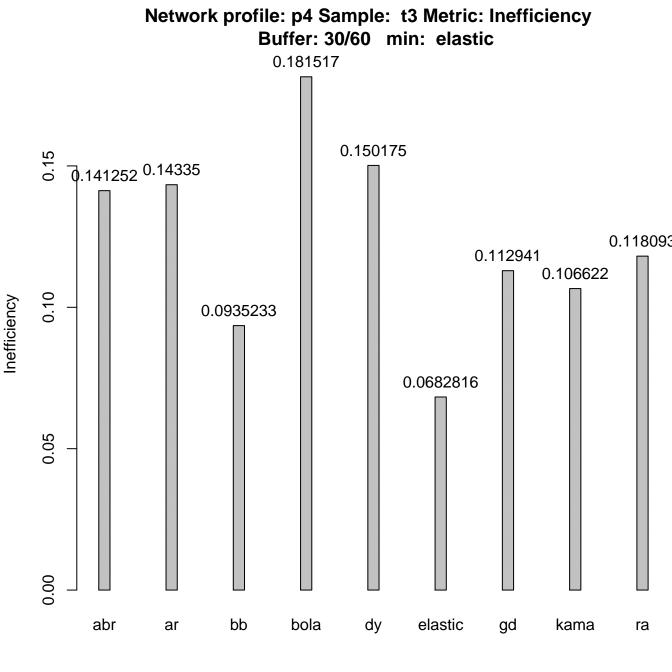
Buffer: 30/60 min: elastic 0.180725 0.164735 0.160866 0.15 0.12494 0.109771 0.109898 Inefficiency 0.0924658 0.0837816 0.0483547 0.05 elastic abr bb bola dy kama ar gd ra

Network profile: p4 Sample: t2 Metric: Inefficiency

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

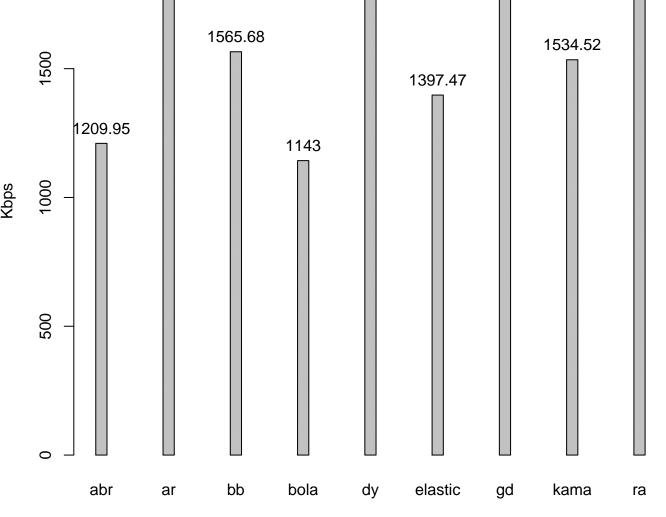


Network profile: p4 Sample: t3 Metric: Avg-Bitrate **Buffer: 30/60** max: ar 2268.57 2000 1916.88 1810.71 1720.04 1719.91 1639.01 1619.39 1500 1372.08 1300.22 Kbps 500 bola elastic abr bb dy gd kama ar ra

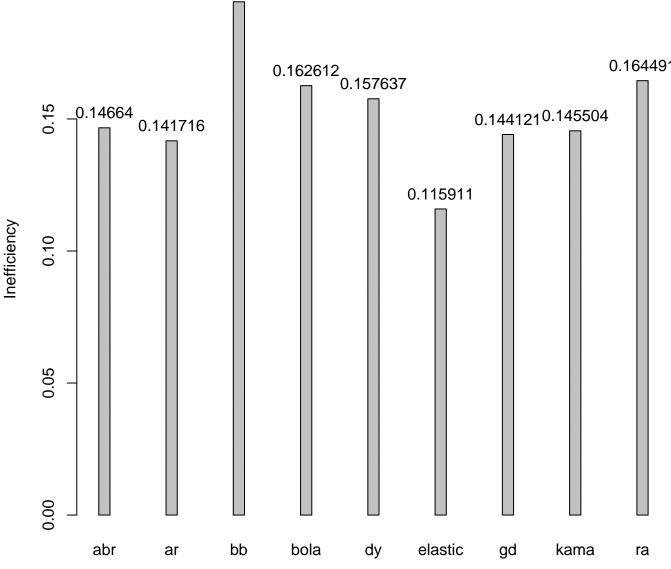


Network profile: p4 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 148 120 100 # Quality changes 80 73 62 9 51 51 49 41 38 4 20 3 abr bola elastic kama bb dy gd ar ra

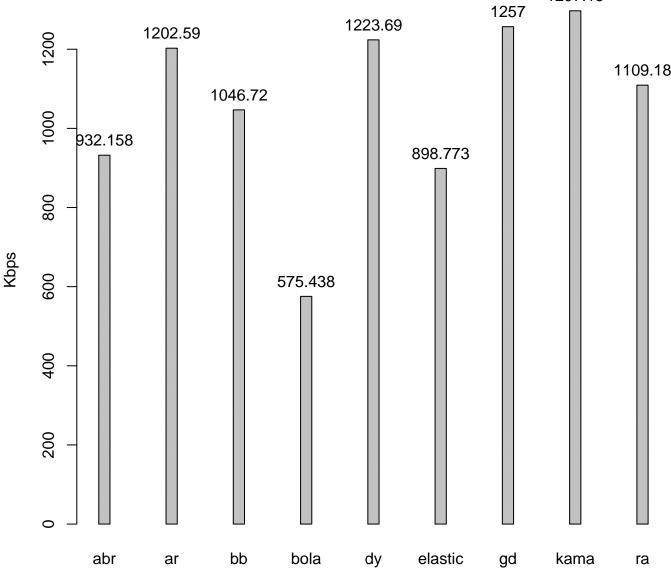
Network profile: p4 Sample: t4 Metric: Avg-Bitrate Buffer: 30/60 max: ar 1992.46 1889.79 1868.63 1829.84 1565.68 1534.52 1397.47 1143



Network profile: p4 Sample: t4 Metric: Inefficiency
Buffer: 30/60 min: elastic
0.194364



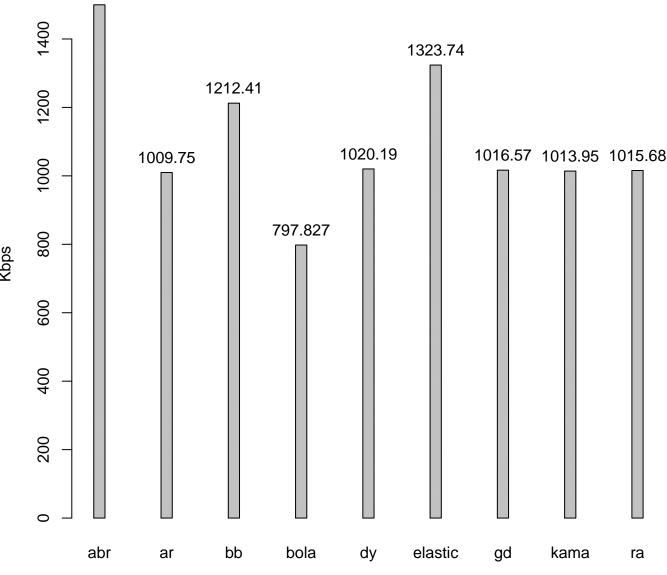
Network profile: p4 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 120 120 100 80 # Quality changes 9 47 42 41 40 33 31 31 29 20 elastic abr bola kama bb dy gd ar ra Network profile: p4 Sample: t5 Metric: Avg-Bitrate
Buffer: 30/60 max: kama
1297.15

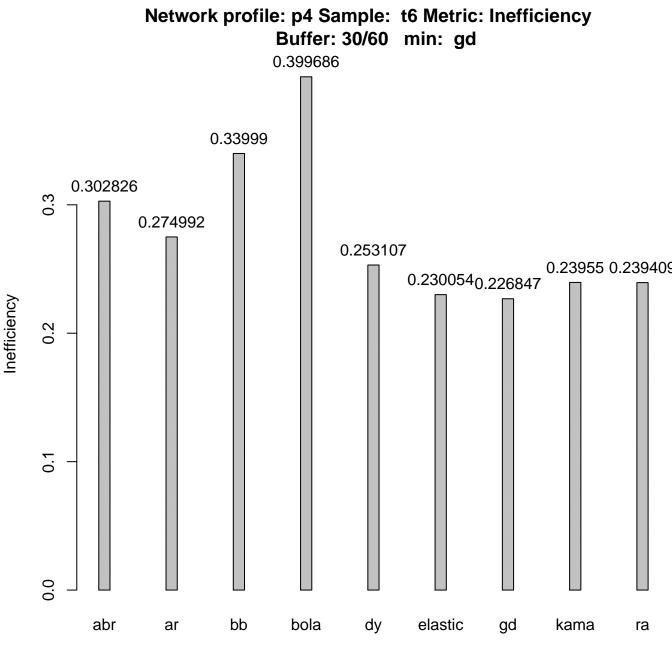


Network profile: p4 Sample: t5 Metric: Inefficiency Buffer: 30/60 min: ra 0.394937 0.381472 0.350815 0.285943 0.266531 0.273871 0.248225 0.23578 0.215704 Inefficiency 0.1 elastic abr bb bola dy kama ar gd ra

Network profile: p4 Sample: t5 Metric: # quality change Buffer: 30/60 min: bola 80 80 9 # Quality changes 40 26 24 24 20 18 17 15 12 abr bola elastic kama bb dy gd ar ra

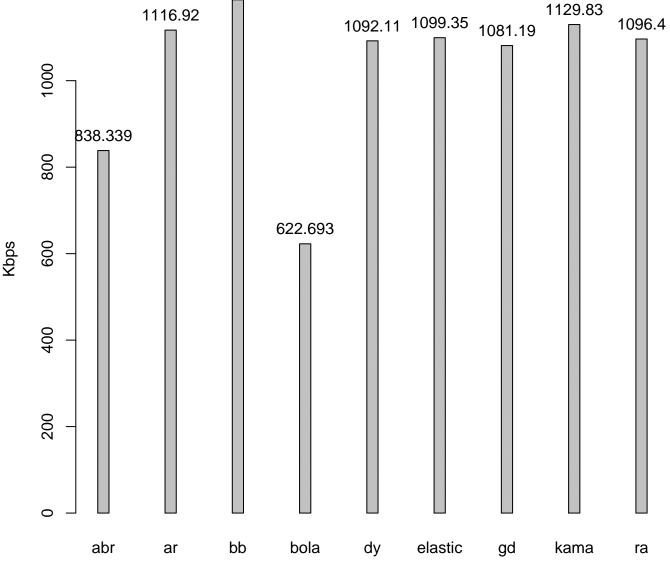
Network profile: p4 Sample: t6 Metric: Avg-Bitrate
Buffer: 30/60 max: abr





Network profile: p4 Sample: t6 Metric: # quality change Buffer: 30/60 min: gd 739 900 500 # Quality changes 400 300 200 136 100 89 86 48 35 29 23 17 abr bola elastic kama bb dy gd ar ra

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 0.488139 0.447946 0.396118 0.36784 0.357012  $0.333646^{\ 0.33988}$ 0.339229 0.310977 Inefficiency elastic abr bb bola dy kama ar gd ra

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

