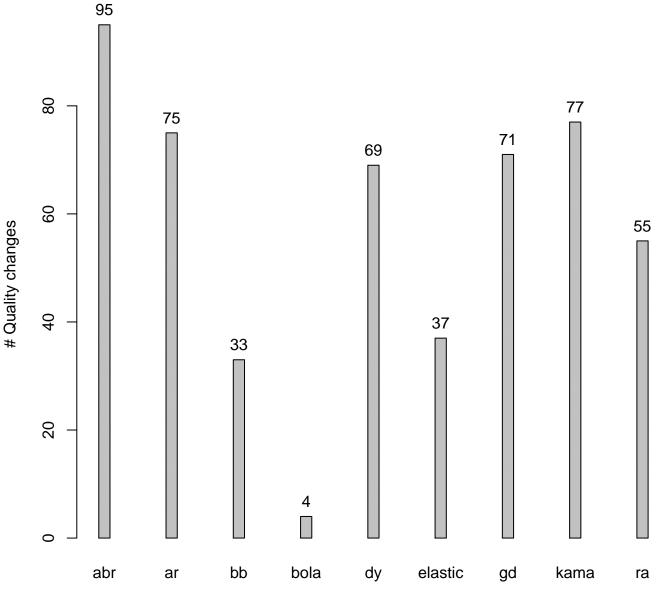
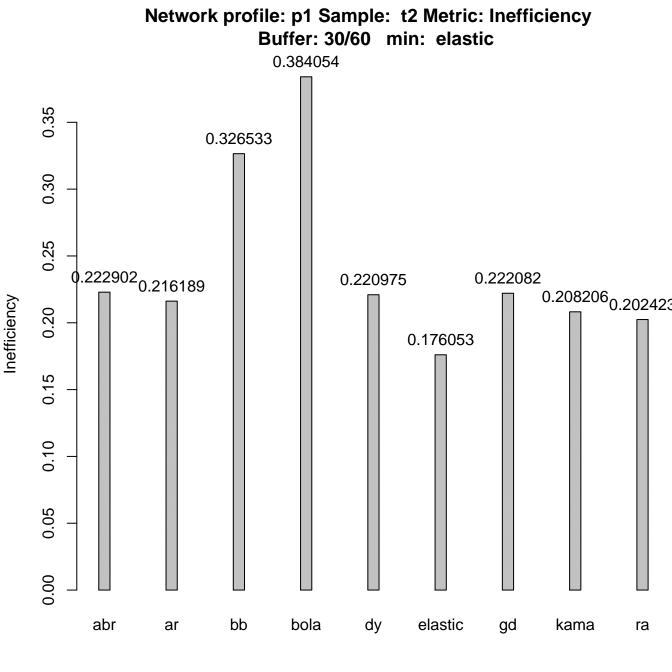


Network profile: p1 Sample: t1 Metric: # quality change Buffer: 30/60 min: bola



Network profile: p1 Sample: t2 Metric: Avg-Bitrate Buffer: 30/60 max: gd 3165.17 3255.48 3178.52 3241.71 3242.46 3142.2 3182.82 3000 \_2923.41 2500 2000 1938.93 Kbps 1500 1000 500 elastic abr bb bola dy kama ar gd ra



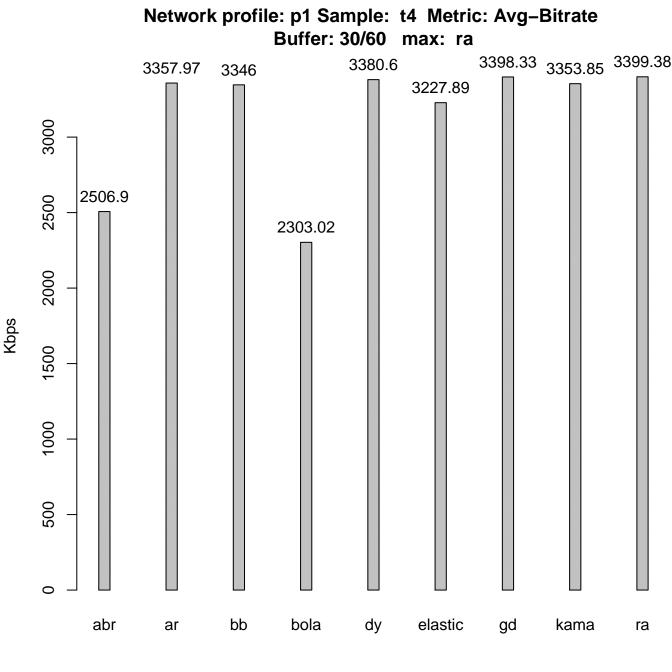
Network profile: p1 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola 88 80 9 # Quality changes 40 23 23 22 22 20 19 20 9 4 abr bola elastic kama bb dy gd ar ra

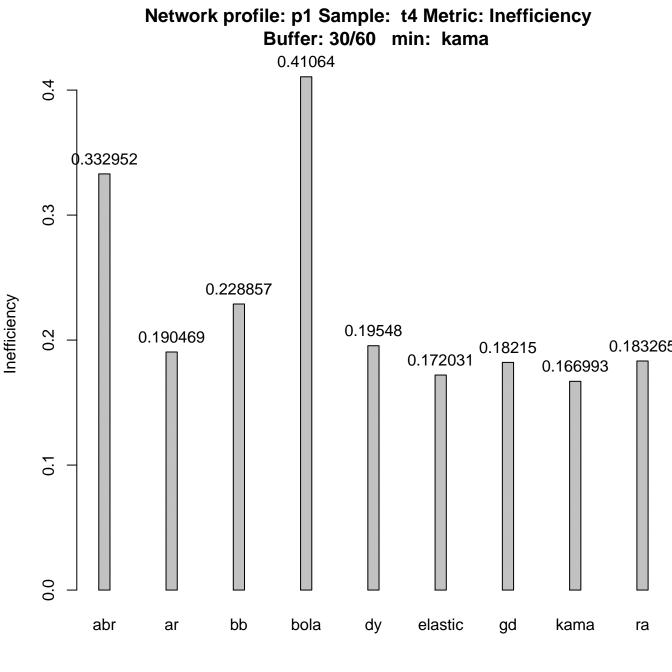
Buffer: 30/60 max: bb 3271.61 3192.58 3153.84 3166.03 3152.88 3175.15 3171.17 3000 2887.93 2719.58 2500 2000 Kbps 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Network profile: p1 Sample: t3 Metric: Avg-Bitrate

Network profile: p1 Sample: t3 Metric: Inefficiency Buffer: 30/60 min: ra 0.369909 0.35 0.325825 0.296171 0.30 0.275982 0.262869 0.261537 0.260583 0.25 0.240502 0.239121 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 23 21 20 9 abr bola elastic kama bb dy gd ar ra





Network profile: p1 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 78 9 # Quality changes 4 29 27 27 27 25 21 20 11 6 bola elastic kama abr bb dy gd ar ra

Buffer: 30/60 max: bola 2111.62 2084.76 <sub>2058.48</sub> 2084.56 <sub>2065.92</sub> 2108.38 2071.02 2000 1961.47 1801.32 1500 500 elastic abr bb bola dy kama ar gd ra

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

Buffer: 30/60 min: kama 0.509916 0.426284 0.391273  $0.3681470.370662^{\hbox{0.380584}}0.369985$ 0.364093 0.339857 Inefficiency elastic abr bb bola dy kama ar gd ra

**Network profile: p1 Sample: t5 Metric: Inefficiency** 

Network profile: p1 Sample: t5 Metric: # quality change Buffer: 30/60 min: bola 26 25 20 20 # Quality changes 15 10 10 8 8 6 6 6 6 2

bola

dy

bb

ar

elastic

gd

kama

ra

abr

Network profile: p1 Sample: t6 Metric: Avg-Bitrate Buffer: 30/60 max: bb 3481.43 3000 2784.9 2728.97 2743.2 2699.3 2697.98 2682.89 2597.4 2500 2208.05 2000 Kbps 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Buffer: 30/60 min: elastic 0.393433 0.319069 0.299426 0.279103 0.271648 0.2687750.267421 0.259007 0.244588 Inefficiency 0.1 elastic abr bb bola dy kama ar gd ra

**Network profile: p1 Sample: t6 Metric: Inefficiency** 

Network profile: p1 Sample: t6 Metric: # quality change Buffer: 30/60 min: kama 479 300 # Quality changes 200 100 55 53 52 43 39 37 31 31 abr bola elastic bb dy gd kama ar ra

Network profile: p1 Sample: t7 Metric: Avg-Bitrate Buffer: 30/60 max: elastic 2620.83 2612.64 2635.24 2648.68 2662.98 2644.06 2629.26 2624.08 2580.9 2500 2000 1500 1000 500 elastic abr bb bola dy kama ar gd ra

**Network profile: p1 Sample: t7 Metric: Inefficiency** Buffer: 30/60 min: elastic 0.37192 0.35 <del>-0</del>.339005 0.30 0.261376 0.25 0.235006 0.230766 0.227197 0.22393 0.221226 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: # quality change Buffer: 30/60 min: bb 236 200 150 # Quality changes 100 20 45 38 36 34 32 30 26 21

bola

dy

bb

elastic

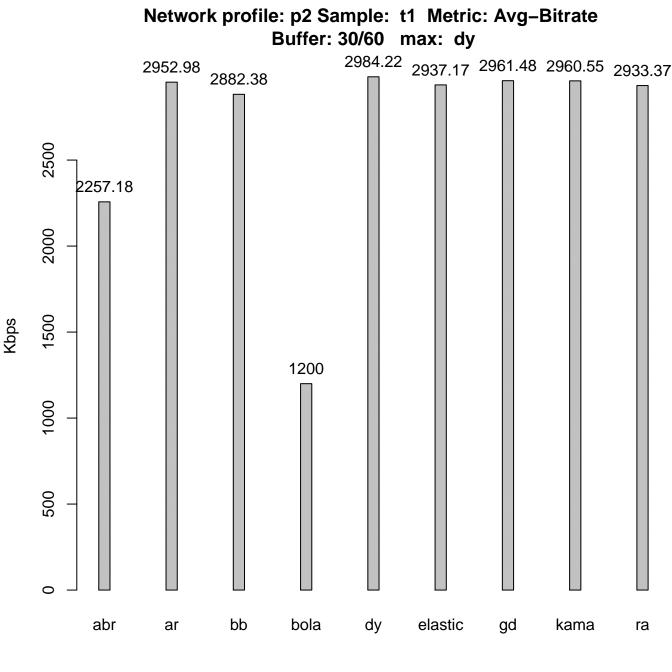
gd

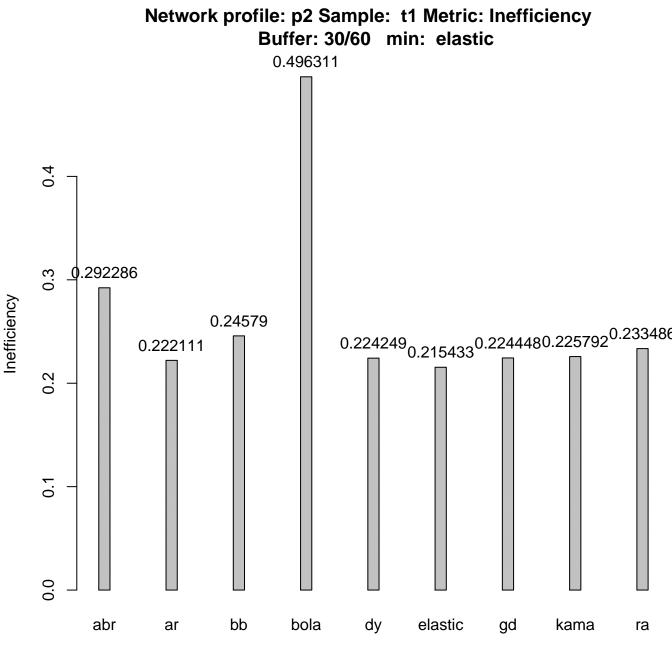
kama

ra

abr

ar





Network profile: p2 Sample: t1 Metric: # quality change Buffer: 30/60 min: bola 108 100 80 70 # Quality changes 62 60 58 9 50 42 40 34 20

bola

bb

ar

abr

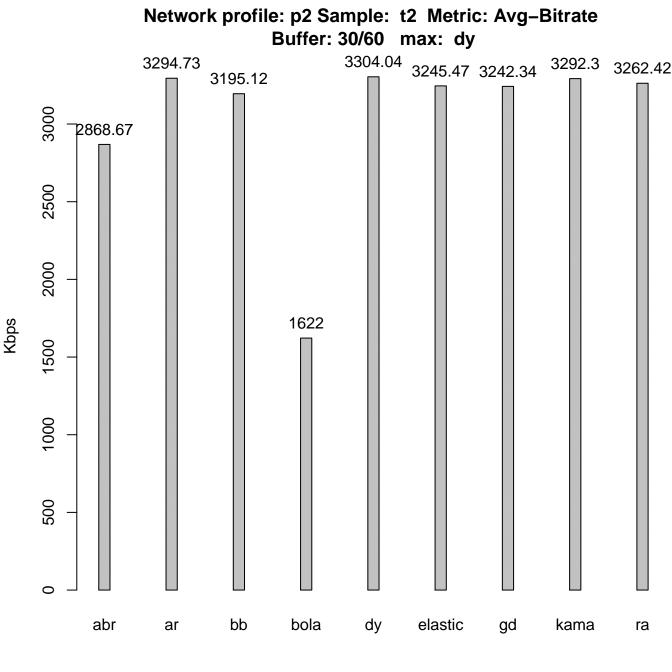
elastic

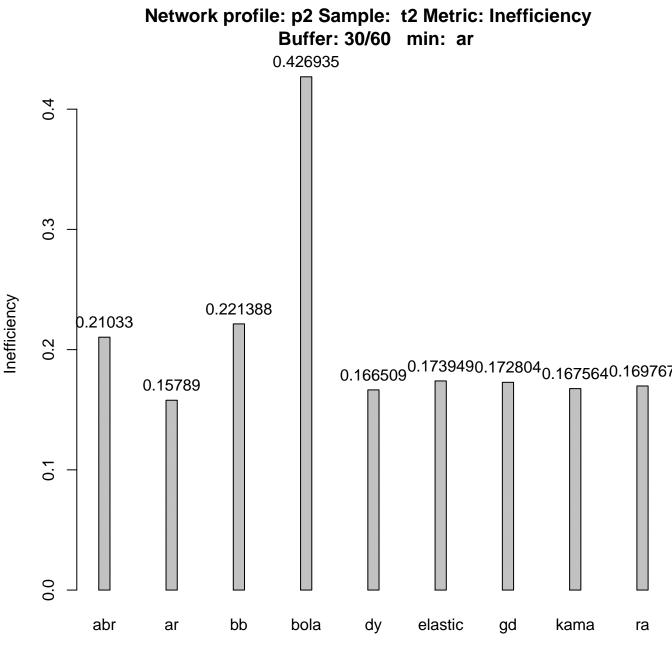
gd

kama

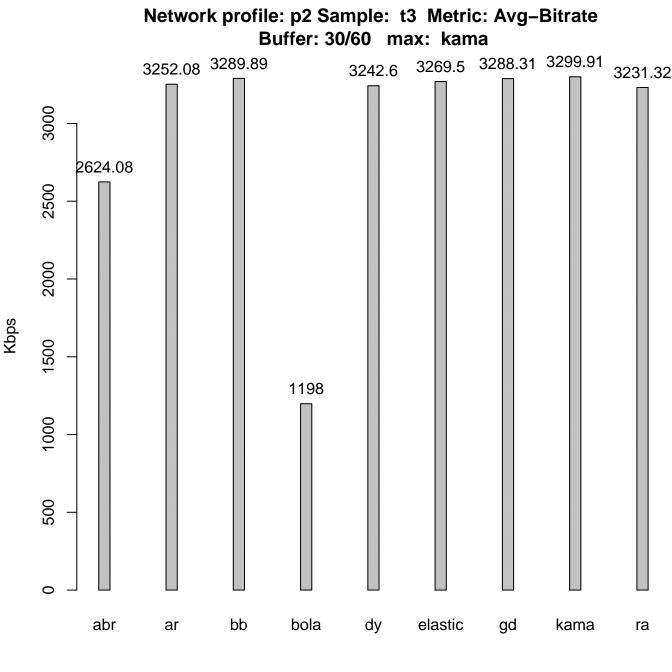
ra

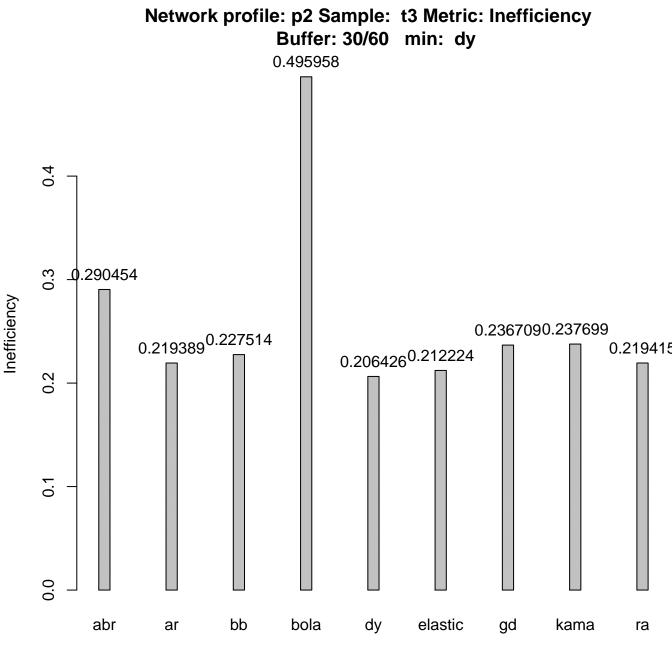
dy



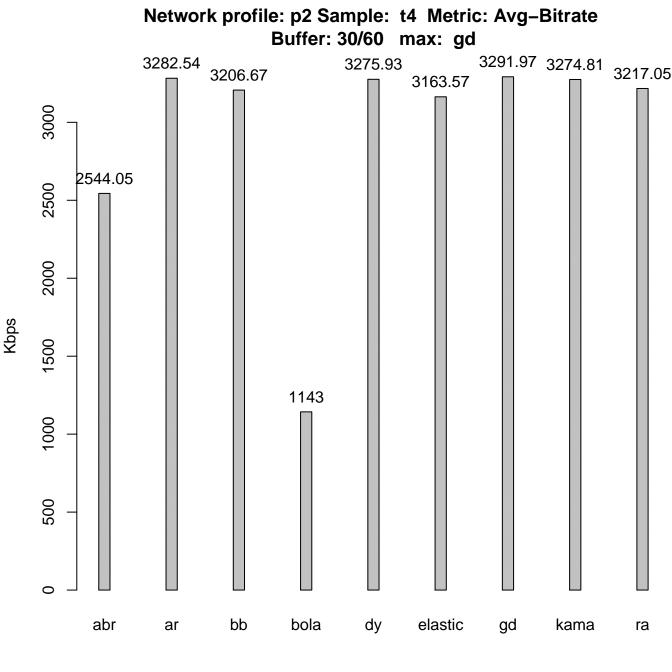


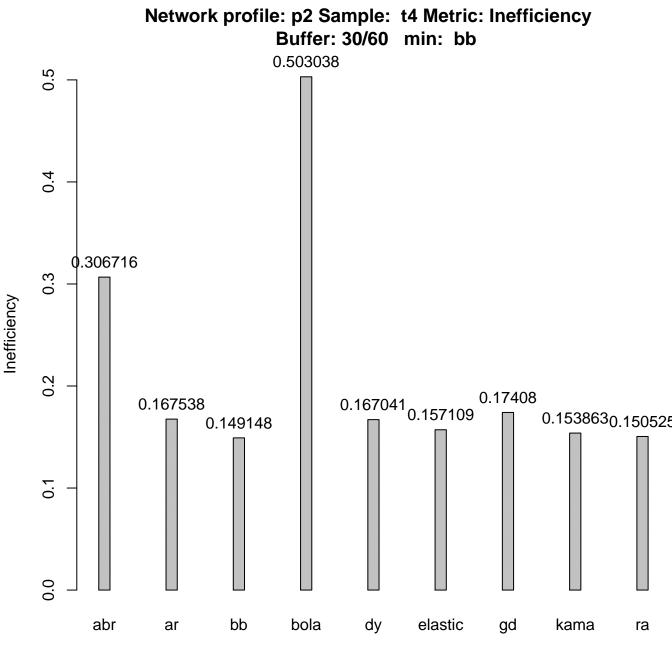
Network profile: p2 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola 82 8 9 # Quality changes 40 22 20 18 16 14 14 14 8 abr bola elastic kama bb dy gd ar ra





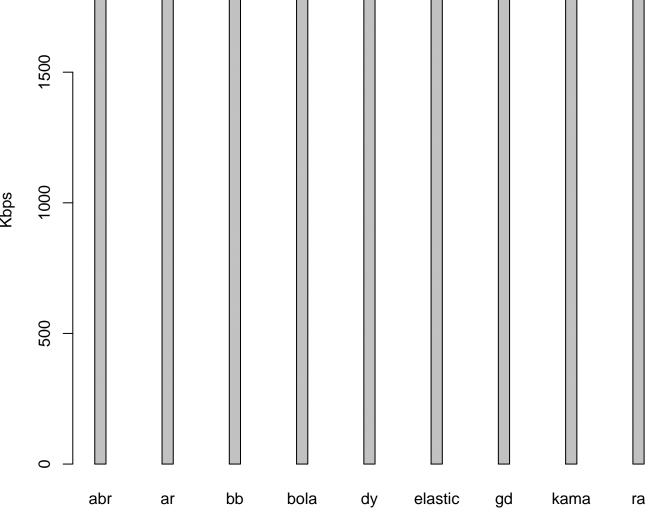
Network profile: p2 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 102 100 80 # Quality changes 9 46 46 44 38 4 36 30 20 6 abr bola elastic kama bb dy gd ar ra



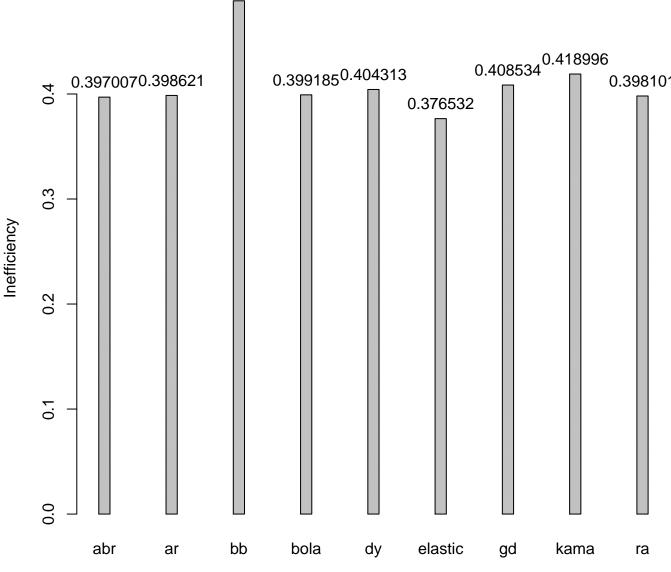


Network profile: p2 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 74 70 9 20 # Quality changes 40 32 30 30 28 24 24 20 18 14 10 abr bola elastic kama bb dy gd ar ra

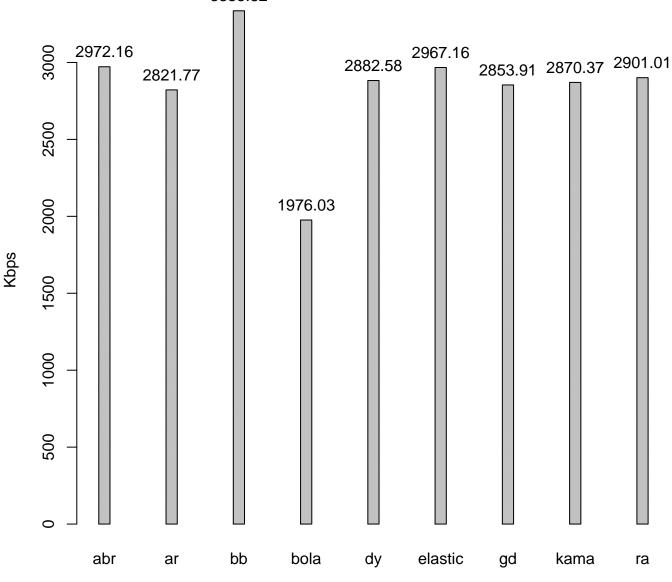
Network profile: p2 Sample: t5 Metric: Avg-Bitrate Buffer: 30/60 max: kama 1962.5 1964.61 1962.24 1955.92 1922.32 1908.4 1886.82 1853.61 1838.48



Network profile: p2 Sample: t5 Metric: Inefficiency
Buffer: 30/60 min: elastic
0.488738



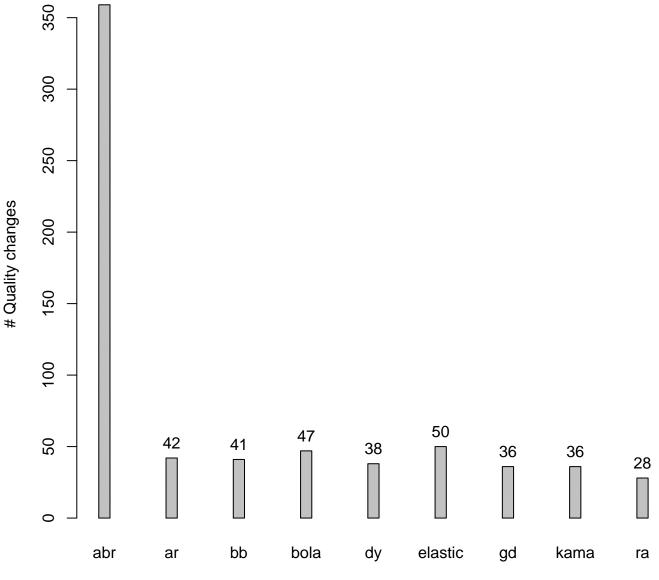
Network profile: p2 Sample: t5 Metric: # quality change Buffer: 30/60 min: abr 16 15 12 10 10 10 10 # Quality changes 9 8 8 2 4 bola elastic abr bb dy gd kama ar ra Network profile: p2 Sample: t6 Metric: Avg-Bitrate Buffer: 30/60 max: bb



Buffer: 30/60 min: elastic 0.385742 0.35353 0.318529 0.297417 0.3 0.2688690.262916 0.265732 0.260855 0.237553 Inefficiency 0.1 elastic abr bb bola dy kama ar gd ra

**Network profile: p2 Sample: t6 Metric: Inefficiency** 

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

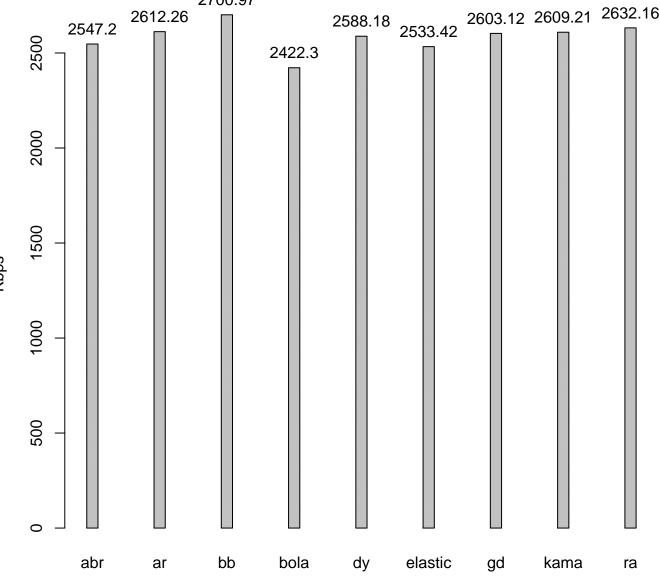


Network profile: p2 Sample: t7 Metric: Avg-Bitrate

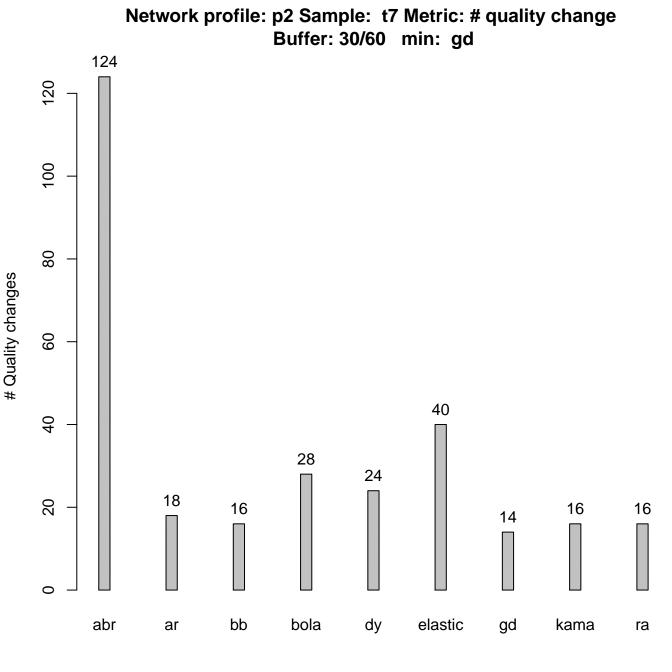
Buffer: 30/60 max: bb

2700.97

2588.18 2603.12 2609.21

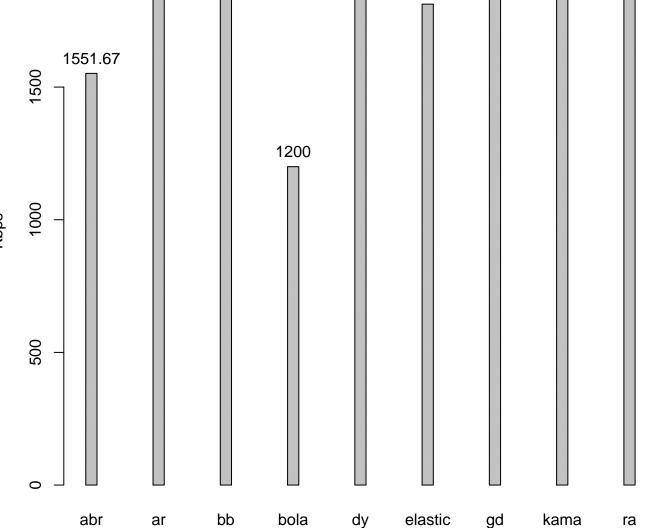


**Network profile: p2 Sample: t7 Metric: Inefficiency** Buffer: 30/60 min: elastic 0.3219270.322091 0.31586 0.30 0.256027 0.25 0.242201 0.236544 0.232747 0.231857 0.200165 0.20 Inefficiency 0.10 0.05 elastic abr bb bola dy kama ar gd ra



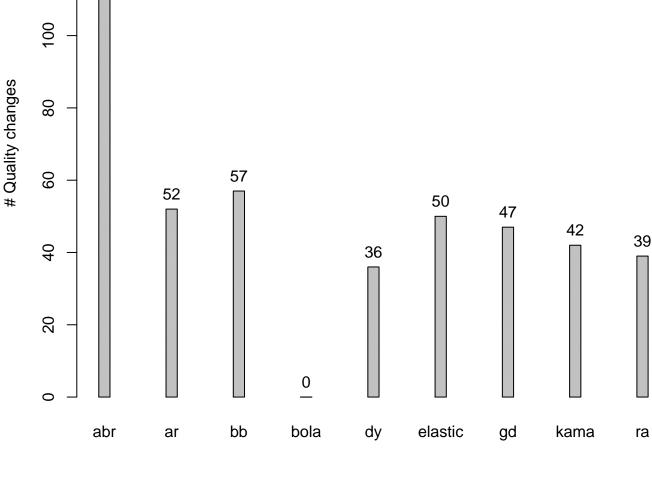
Network profile: p3 Sample: t1 Metric: Avg-Bitrate
Buffer: 30/60 max: gd

1904.97
1850.81
1851.84
1865.59
1.67



Network profile: p3 Sample: t1 Metric: Inefficiency Buffer: 30/60 min: elastic 0.369505 0.35 0.319468 0.30 0.27295 0.25 0.243891 0.241691 0.237765 0.227748 0.211464 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 

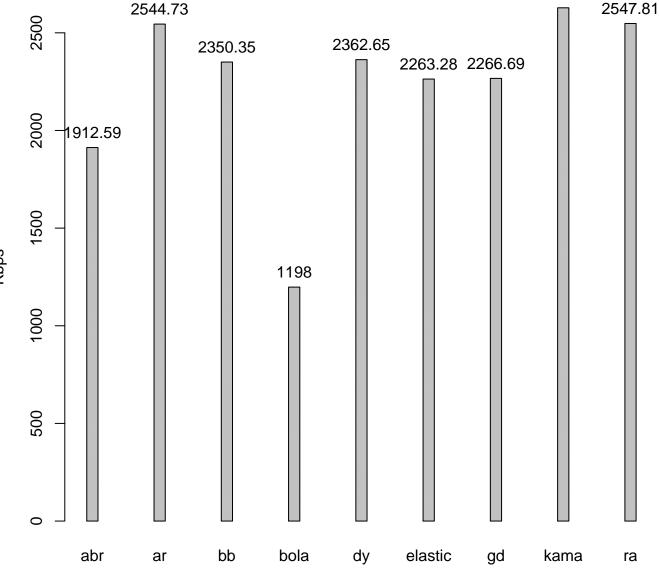


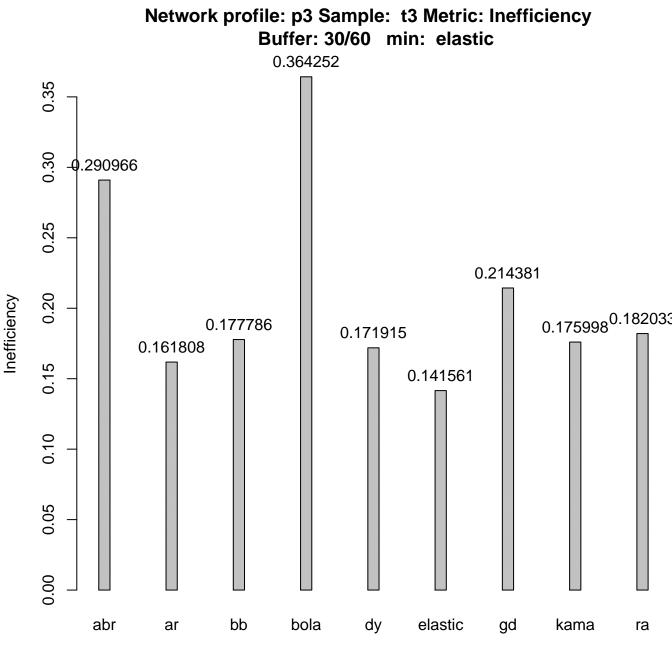
Network profile: p3 Sample: t2 Metric: Avg-Bitrate Buffer: 30/60 max: dy 2503.1 2500 2428.31 2364.21 2227.49 2224.54 2202.26 2197.78 2134.86 2000 1622 1500 1000 500 elastic abr bb bola dy kama ar gd ra

Network profile: p3 Sample: t2 Metric: Inefficiency Buffer: 30/60 min: elastic 0.245121 0.211896 0.196087 0.200238 0.195333 0.200032 0.20 0.190443 0.171806 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 40 31 26 25 24 23 22 19 20 abr bola elastic kama bb dy gd ar ra

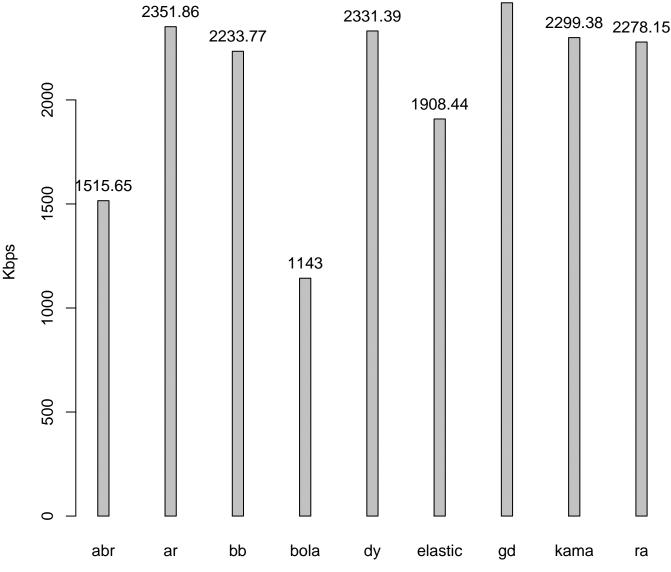
Network profile: p3 Sample: t3 Metric: Avg-Bitrate
Buffer: 30/60 max: kama
2628.13

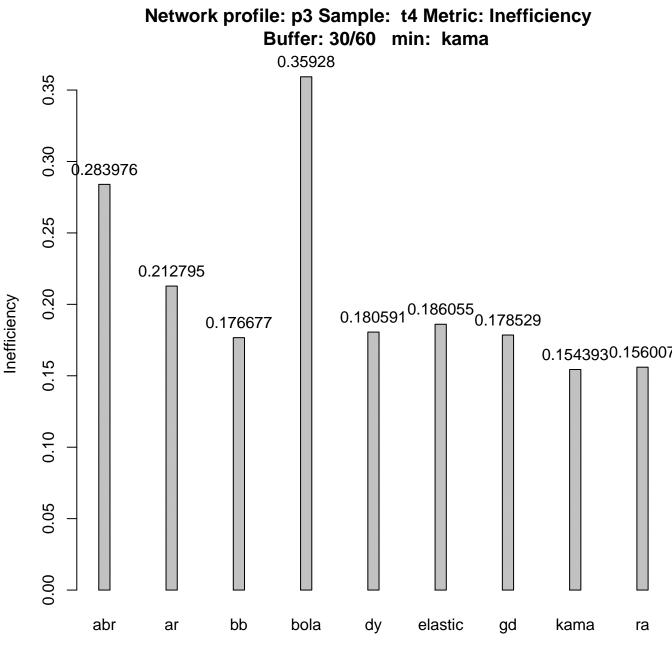




Network profile: p3 Sample: t3 Metric: # quality change Buffer: 30/60 min: bola 162 150 100 # Quality changes 65 52 50 40 38 33 31 21 abr bola elastic kama bb dy gd ar ra

Network profile: p3 Sample: t4 Metric: Avg-Bitrate
Buffer: 30/60 max: gd
2466.77





Network profile: p3 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 126 120 100 80 # Quality changes 9 47 43 41 39 40 31 25 20 20 abr bola elastic kama

dy

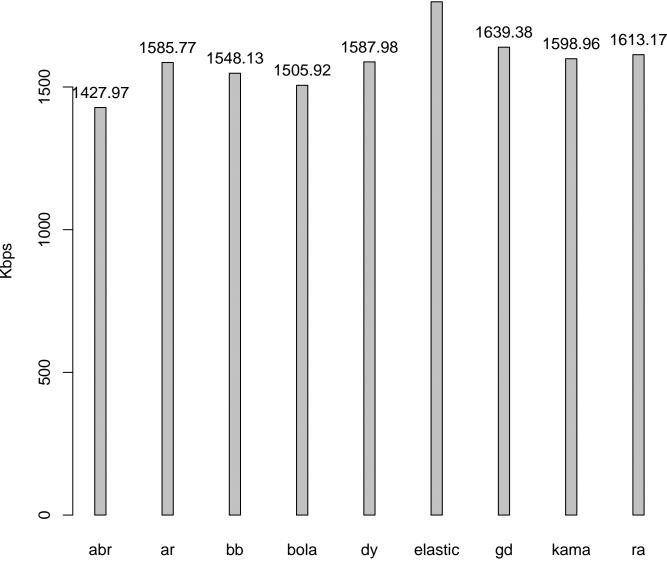
gd

ra

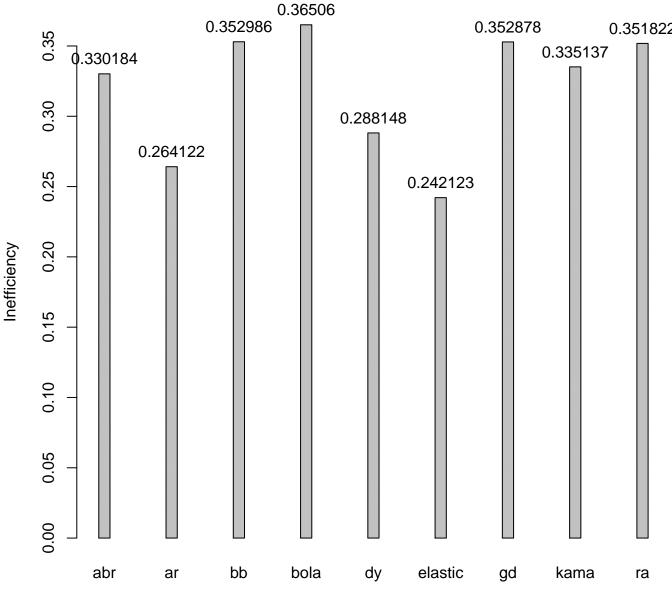
bb

ar

Network profile: p3 Sample: t5 Metric: Avg-Bitrate
Buffer: 30/60 max: elastic
1798.51



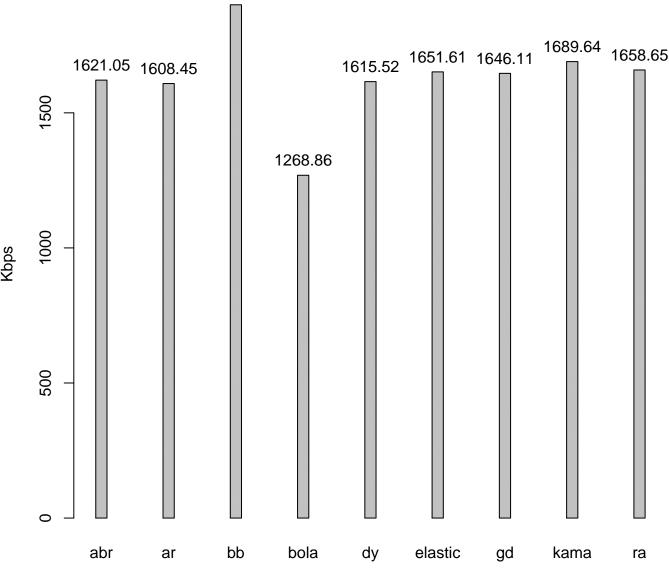
Network profile: p3 Sample: t5 Metric: Inefficiency Buffer: 30/60 min: elastic



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

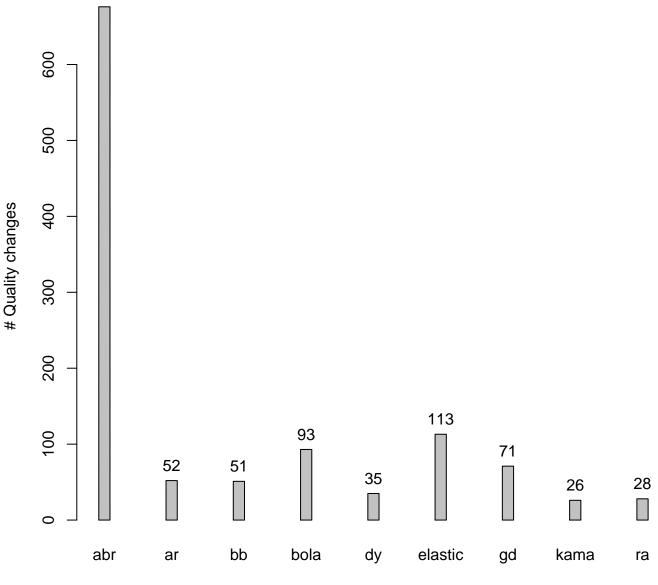
Network profile: p3 Sample: t6 Metric: Avg-Bitrate

Buffer: 30/60 max: bb



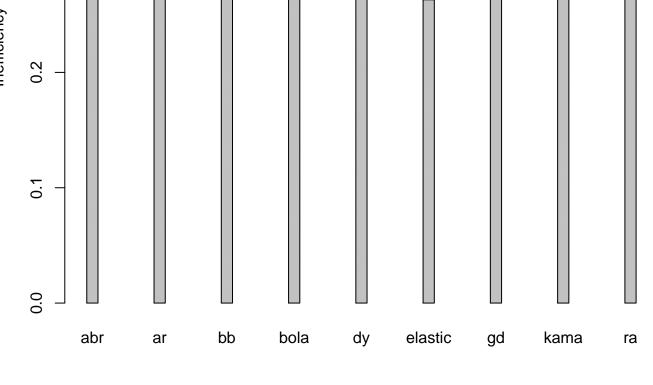
Network profile: p3 Sample: t6 Metric: Inefficiency Buffer: 30/60 min: elastic 0.385496 0.359381 0.34252 0.326815 0.299845 0.3 0.288861 0.264349 0.238885 0.208492 Inefficiency 0.1 elastic abr bb bola dy kama ar gd ra

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



Network profile: p3 Sample: t7 Metric: Avg-Bitrate Buffer: 30/60 max: bb 1801.03 1745.04 1756.55 1701.03 1702.28 1677.1 1676 1553.58 1500 1190.14 500 elastic abr bb bola dy kama ar gd ra

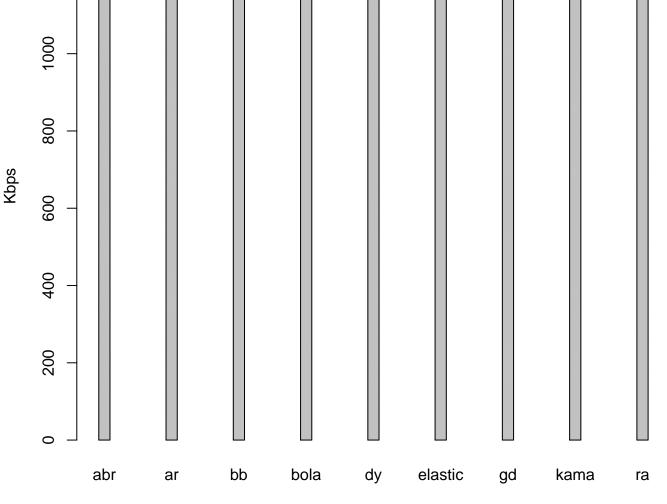
**Network profile: p3 Sample: t7 Metric: Inefficiency** Buffer: 30/60 min: elastic 0.445035 0.410874 0.361322 0.351976 0.283857 0.268983  $0.270182_{0.262959}$ Inefficiency



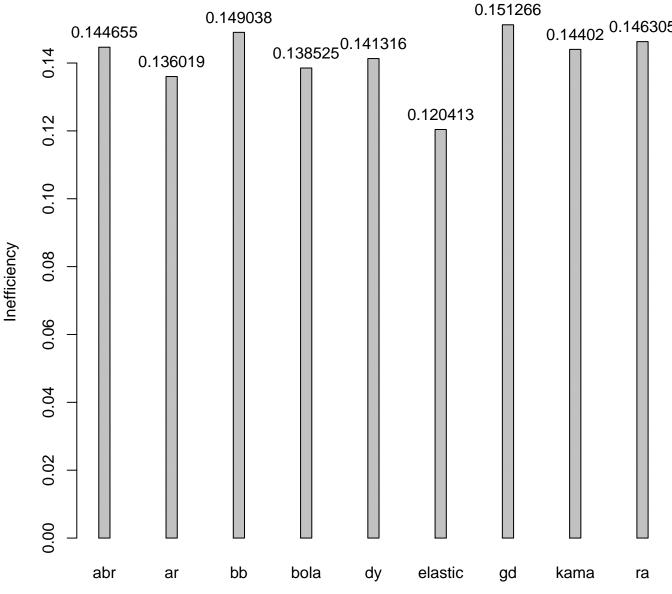
Network profile: p3 Sample: t7 Metric: # quality change Buffer: 30/60 min: bola 340 300 250 # Quality changes 200 150 102 100 81 50 32 29 29 29 27 23 abr bola elastic bb dy gd kama ar ra

Network profile: p4 Sample: t1 Metric: Avg-Bitrate Buffer: 30/60 max: bb 1328.44 1284.76 1308.21 1294.91 1288.4 1286.96 1249.98 1240.56 1200

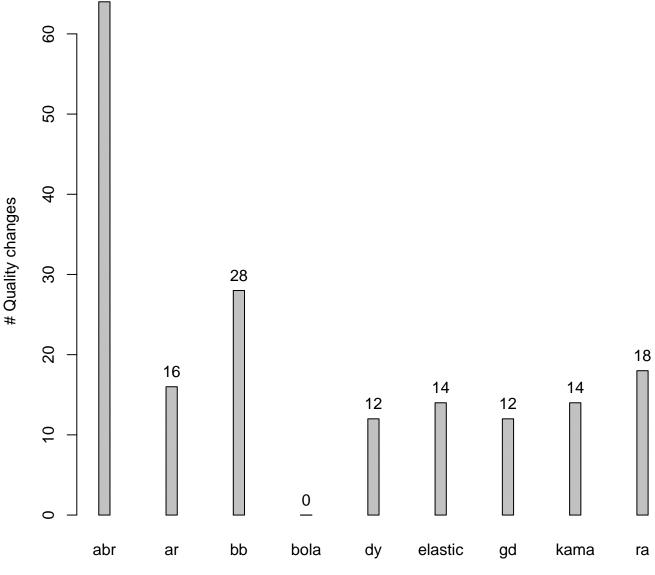
1200



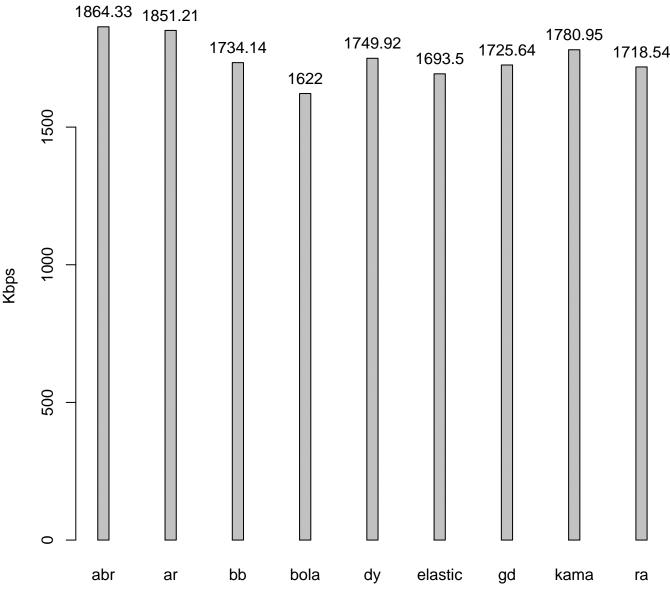
Network profile: p4 Sample: t1 Metric: Inefficiency Buffer: 30/60 min: elastic



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

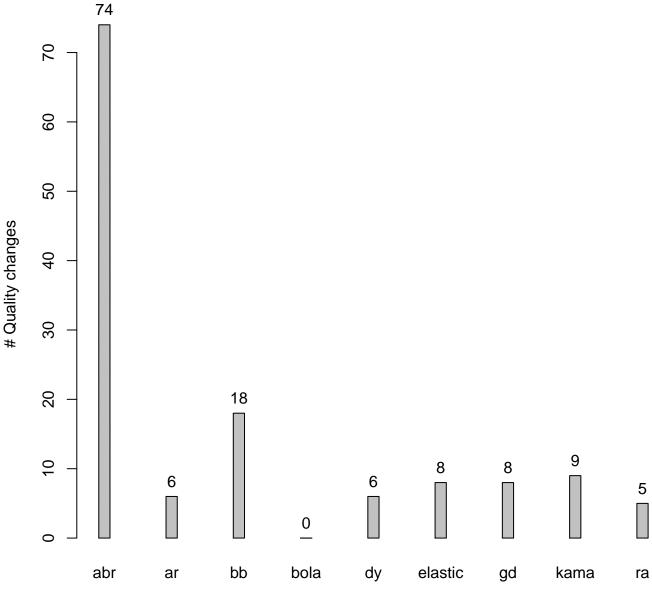


Network profile: p4 Sample: t2 Metric: Avg-Bitrate
Buffer: 30/60 max: abr

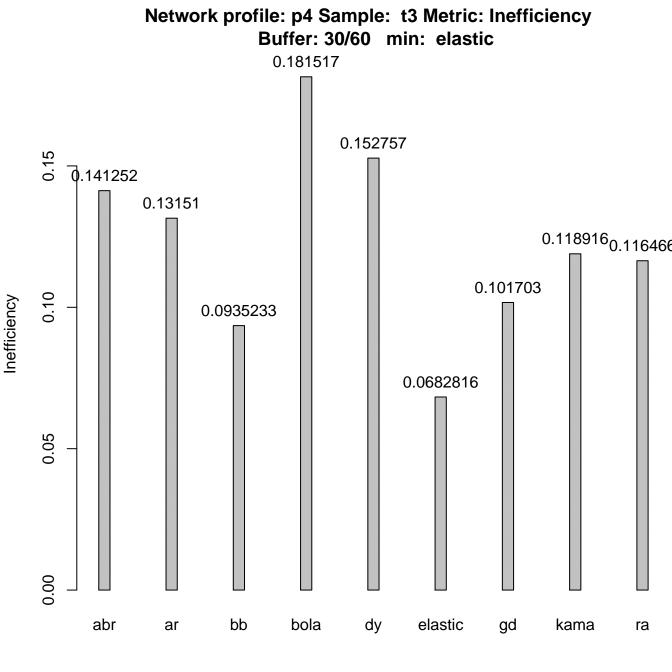


Network profile: p4 Sample: t2 Metric: Inefficiency Buffer: 30/60 min: elastic 0.233377 0.20 0.180725 0.164735 0.164884 0.148536 0.15 Inefficiency 0.101377 0.10 0.0924658 0.0788778 0.0483547 0.05 elastic abr bb bola dy kama ar gd ra

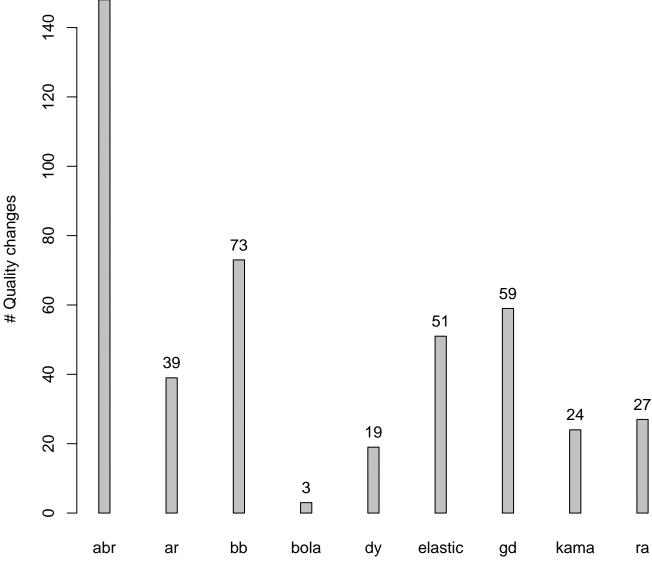
Network profile: p4 Sample: t2 Metric: # quality change Buffer: 30/60 min: bola



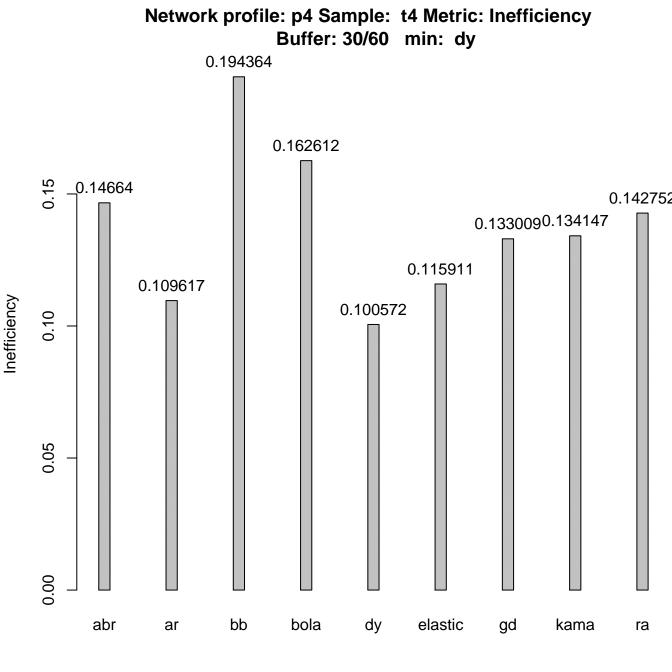
Network profile: p4 Sample: t3 Metric: Avg-Bitrate **Buffer: 30/60** max: ar 1860.8 1740.16 1690.56 1639.01 1664.94 1619.39 1605.17 1500 1372.08 1300.22 500 elastic abr bb bola dy kama ar gd ra



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: dy 1696.42 1664.33 1660.66 1600.41 1565.68 1532.13 1500 1397.47 1209.95 1143 500 bola elastic abr bb dy gd kama ar ra



Network profile: p4 Sample: t4 Metric: # quality change Buffer: 30/60 min: bola 120 120 100 80 # Quality changes 9 47 44 39 38 40 32 31 29 20 abr bola elastic kama bb dy gd ar ra

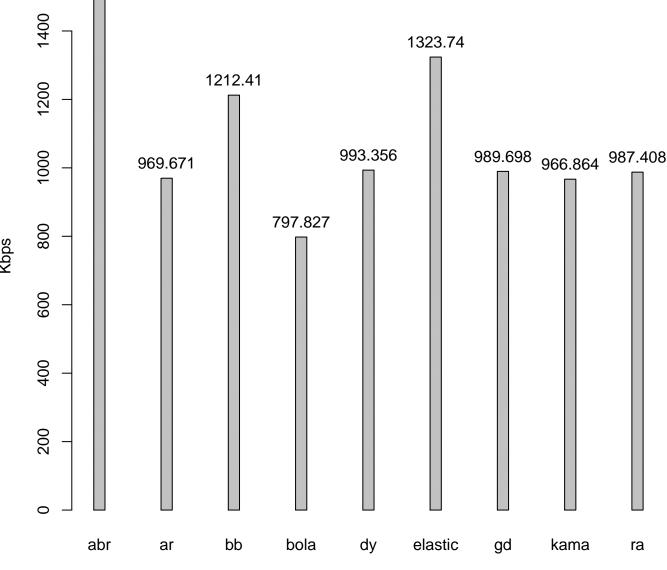
Buffer: 30/60 max: dy 1078.41 1067.41 1046.72 1053.8 1023.35 1015.99 1000 932.158 898.773 800 900 575.438 400 200 bola elastic abr bb dy kama ar gd ra

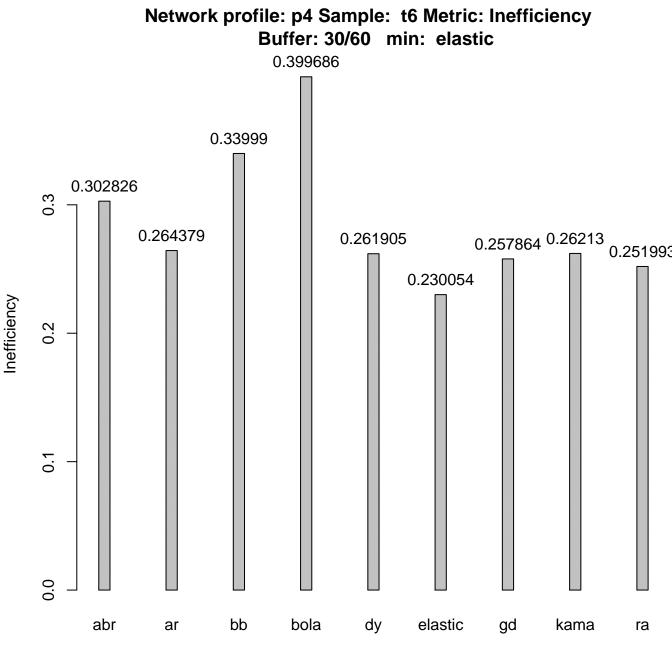
Network profile: p4 Sample: t5 Metric: Avg-Bitrate

Network profile: p4 Sample: t5 Metric: Inefficiency Buffer: 30/60 min: gd 0.394937 0.381472 0.350815 0.328583 0.286921 0.273871  $0.244929^{0.250323^{0.256531}}$ 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 24 22 20 18 17 15 13 13 elastic abr bola 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: kama 739 900 500 # Quality changes 400 300 200 136 100 86 65 48 37 29 25 23

bola

dy

bb

ar

elastic

gd

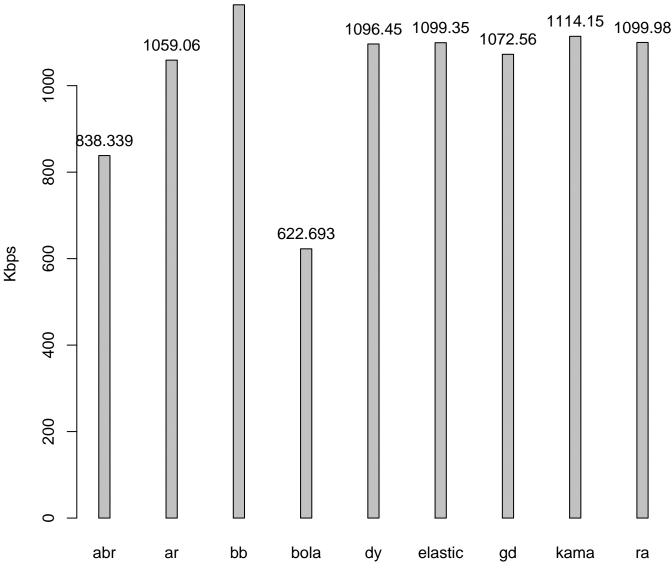
kama

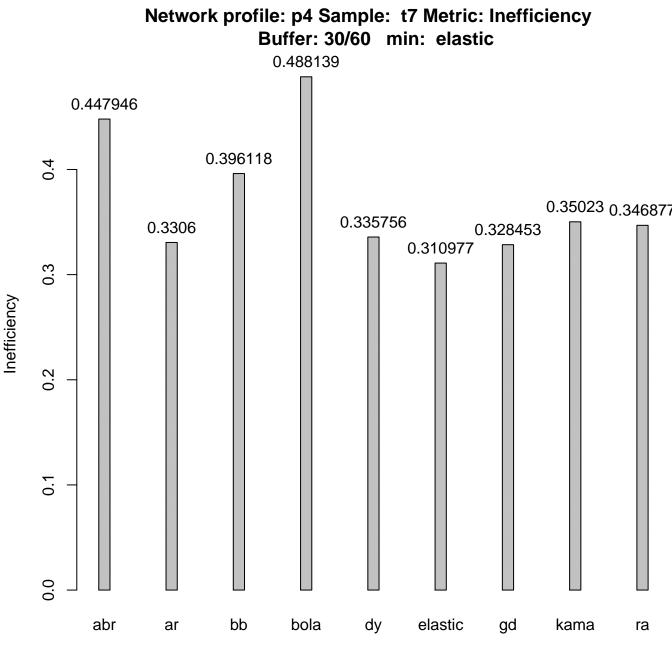
ra

abr

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

1187.05





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

