Analysis of Heterogeneous IP Traffic in Wireless Environment: Full Statistics of the Results

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Master's Thesis Supplementary

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1 Introduction

In this supplementary we list the complete statistics of the results of the performance measurements [Jär06]. The columns are minimum, 10% percentile, 25% percentile, median, 75% percentile, 90% percentile, maximum, average, and interquartile range. Because the competing transfers finish before the bulk TCPs do, the simultaneous throughput and throughput are equal except with the competing bulk TCP flow. Thus we list only the simultaneous throughputs with those other workloads.

The storage space required to store the uncompressed, raw log files of the Seawind system is over 150 gigabytes. A collection of scripts were used to generate intermediate data files from the log files of the Seawind system. These data files categorize the immense amount of data so that the data can be gathered to tables. Because of the space required by the tables is huge, we have chosen to not include them into the thesis itself as an appendix. Instead, we provide them in this supplementary.

2 Bulk TCPs and Short Competing TCP Flow

Error-Free Link - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7647.97	7802.41	7811.97	7817.23	7823.22	7824.48	7847.71	7814.33	11.25
Fairness of sim. thr. (F+S)	0.76	0.89	0.95	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.66	0.73	0.76	0.80	0.86	0.89	1.00	0.81	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	73.82	79.50	84.51	92.44	95.14	96.43	97.33	89.86	10.63
Throughput	3788.06	3822.45	3872.96	3987.94	4353.31	4618.75	4993.79	4123.56	480.36
Simultaneous throughput	1315.17	2594.27	3073.11	3397.26	3762.70	4221.55	4874.59	3406.82	689.59
Total drops	6.00	18.00	19.00	20.00	21.00	23.00	26.00	19.99	2.00
Congestion drops	6.00	18.00	19.00	20.00	21.00	23.00	26.00	19.99	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.88	97.16	97.19	97.26	97.32	97.40	99.41	97.29	0.14
Throughput	3708.54	3782.69	3788.06	3790.21	3793.43	3793.43	3805.25	3789.16	5.37
Simultaneous throughput	984.79	1773.14	2400.20	2730.31	3043.16	3320.30	4246.00	2665.96	642.96
Total drops	8.00	19.00	19.00	21.00	22.00	23.00	26.00	20.81	3.00
Congestion drops	8.00	19.00	19.00	21.00	22.00	23.00	26.00	20.81	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	15.27	17.67	20.57	26.14	36.97	42.42	62.50	29.11	16.40
Simultaneous throughput	321.43	560.36	623.71	861.25	1089.56	1271.14	2231.41	886.44	465.85
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	7.00	2.41	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	5.00	7.00	2.41	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00

Error-Free Link - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7667.29	7745.63	7811.36	7816.43	7822.76	7823.93	7855.02	7806.11	11.39
Fairness of sim. thr. (F+S)	0.57	0.91	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.57	0.75	0.78	0.81	0.86	0.89	0.99	0.82	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	73.67	80.81	85.88	91.80	95.14	96.54	97.08	90.22	9.27
Throughput	3797.73	3817.07	3869.73	4015.88	4290.99	4487.64	5003.46	4104.38	421.25
Simultaneous throughput	897.53	2478.86	2872.28	3353.87	3648.21	3927.35	5396.26	3279.97	775.93

Total drops	3.00	18.00	19.00	20.00	21.00	23.00	25.00	19.72	2.00
Congestion drops	3.00	18.00	19.00	20.00	21.00	23.00	25.00	19.72	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.76	97.16	97.19	97.27	97.32	97.95	99.16	97.39	0.13
Throughput	3717.13	3755.82	3786.99	3790.21	3792.36	3793.43	3809.55	3785.23	5.37
Simultaneous throughput	399.72	2099.72	2502.28	2809.28	3191.75	3403.44	4000.79	2771.81	689.47
Total drops	11.00	17.00	19.00	20.00	22.00	23.00	28.00	20.12	3.00
Congestion drops	11.00	17.00	19.00	20.00	22.00	23.00	28.00	20.12	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.02	18.06	20.68	25.57	32.18	37.21	43.79	26.71	11.49
Simultaneous throughput	515.19	604.78	692.55	880.24	1092.17	1258.64	2301.55	925.05	399.63
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.17	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.17	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00

Error-Free Link - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7781.21	7864.54	7866.95	7871.76	7877.42	7877.79	7891.44	7869.47	10.46
Fairness of sim. thr. (F+S)	0.85	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.66	0.78	0.87	0.90	0.92	0.93	0.99	0.88	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	72.19	82.69	85.21	91.04	95.54	96.01	96.61	90.31	10.34
Throughput	3816.00	3839.64	3856.84	4049.19	4320.00	4451.10	5106.63	4098.34	463.16
Simultaneous throughput	2346.72	2649.58	2840.43	2904.21	3105.18	3715.40	4728.72	3036.37	264.75
Total drops	0.00	0.00	0.00	1.00	1.00	20.00	26.00	3.11	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	20.00	26.00	3.11	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.04	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.35	96.48	96.51	96.57	96.62	96.65	97.68	96.60	0.11
Throughput	3774.09	3813.85	3814.93	3817.07	3819.22	3820.30	3825.67	3816.26	4.30
Simultaneous throughput	1863.82	2292.79	2599.14	2775.67	2851.80	2956.38	3698.17	2727.20	252.66
Total drops	1.00	1.00	1.00	1.00	2.00	15.00	22.00	3.41	1.00
Congestion drops	1.00	1.00	1.00	1.00	2.00	15.00	22.00	3.41	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.13	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.68	15.83	16.96	18.95	22.73	28.93	53.62	21.10	5.77
Simultaneous throughput	476.85	778.07	1101.69	1209.61	1329.61	1422.64	2156.29	1191.93	227.92
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	8.00	0.86	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	8.00	0.86	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.15	0.00

Error-Free Link - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7671.71	7848.29	7864.97	7870.99	7877.35	7877.75	7896.24	7865.35	12.38
Fairness of sim. thr. (F+S)	0.89	0.98	1.00	1.00	1.00	1.00	1.00	0.99	0.00
Fairness of sim. thr. (all)	0.73	0.84	0.89	0.91	0.93	0.96	1.00	0.91	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	75.99	82.10	86.30	88.80	94.60	95.80	96.18	89.44	8.30
Throughput	3833.19	3848.24	3893.37	4151.28	4269.49	4469.37	4850.87	4134.90	376.12
Simultaneous throughput	2153.87	2627.57	2778.58	2861.25	2925.99	3210.01	4192.72	2895.57	147.41
Total drops	0.00	0.00	0.00	0.00	0.00	17.00	26.00	2.59	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	17.00	26.00	2.59	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.26	96.49	96.52	96.57	96.64	96.85	99.08	96.65	0.13
Throughput	3720.36	3806.33	3813.85	3817.07	3819.22	3820.30	3829.97	3814.28	5.37
Simultaneous throughput	1338.08	2443.88	2659.39	2803.21	2874.12	2932.11	3301.82	2725.74	214.73
Total drops	0.00	0.00	0.00	0.00	1.00	14.00	26.00	2.37	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	14.00	26.00	2.37	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.08	0.00

Third flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.10	12.84	15.57	17.28	19.56	24.40	38.03	18.34	4.00
Simultaneous throughput	593.63	1008.01	1163.53	1309.45	1449.58	1737.08	2351.29	1334.89	286.05
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.41	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.41	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.07	0.00

Link with High ARQ Persistency - Baseline TCP

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5372.05	6251.90	6508.74	6638.61	6807.34	6877.47	7134.20	6596.73	298.59
Fairness of sim. thr. (F+S)	0.55	0.67	0.87	0.97	0.99	1.00	1.00	0.91	0.13
Fairness of sim. thr. (all)	0.47	0.61	0.72	0.80	0.87	0.92	1.00	0.79	0.15

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	72.09	78.51	92.07	100.50	106.48	110.18	116.94	98.52	14.41
Throughput	3152.96	3314.15	3454.93	3668.24	4000.84	4558.57	5113.07	3797.73	545.91
Simultaneous throughput	832.61	2129.61	2636.31	3100.01	3534.10	4031.76	5502.49	3124.39	897.80
Total drops	0.00	8.00	13.00	17.00	20.00	23.00	29.00	16.49	7.00
Congestion drops	0.00	6.00	13.00	17.00	20.00	22.00	29.00	15.84	7.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	9.00	22.00	1.58	0.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.54	110.52	111.60	114.50	116.76	121.47	141.50	115.51	5.15
Throughput	2604.90	3031.52	3156.18	3219.58	3301.25	3334.57	3460.30	3198.87	145.07
Simultaneous throughput	202.04	852.61	1560.30	2222.92	2633.36	2994.52	3978.64	2050.94	1073.06
Total drops	0.00	2.00	7.00	16.00	19.00	22.00	26.00	13.49	12.00
Congestion drops	0.00	1.00	6.00	14.50	18.00	21.00	24.00	12.38	12.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.11	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.64	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	14.00	19.00	58.00	7.21	14.00

Third flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.21	17.52	19.43	27.50	36.16	43.45	55.98	28.84	16.73
Simultaneous throughput	401.66	518.55	624.50	847.63	1176.10	1497.94	2509.10	944.03	551.59
Total drops	0.00	0.00	0.00	2.00	4.00	5.00	10.00	2.44	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	5.00	10.00	2.41	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	11.00	0.66	0.00

Link with High ARQ Persistency - Baseline TCP and RED+ECN

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5026.01	6009.37	6376.97	6597.68	6739.97	6865.83	7012.10	6499.50	363.00
Fairness of sim. thr. (F+S)	0.52	0.74	0.85	0.97	1.00	1.00	1.00	0.92	0.14
Fairness of sim. thr. (all)	0.45	0.66	0.76	0.83	0.89	0.92	0.99	0.81	0.12

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	72.56	82.92	91.46	102.12	107.29	111.35	135.32	99.67	15.82
Throughput	2724.18	3293.73	3434.51	3609.67	4029.85	4419.94	5080.84	3749.26	595.34
Simultaneous throughput	949.36	1950.99	2433.87	2876.28	3520.24	4126.80	5582.47	2980.85	1086.37
Total drops	0.00	5.00	13.00	16.00	19.00	22.00	33.00	15.57	6.00
Congestion drops	0.00	4.00	12.00	16.00	19.00	22.00	29.00	14.91	7.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.66	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	5.00	32.00	1.80	0.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.40	110.59	112.72	115.23	119.11	126.01	151.28	117.41	6.39
Throughput	2437.25	2913.31	3091.70	3199.70	3269.01	3330.27	3401.19	3151.79	177.31
Simultaneous throughput	76.57	989.30	1426.60	2148.46	2556.73	2911.04	3439.11	2014.89	1130.13
Total drops	0.00	1.00	6.00	16.00	18.00	20.00	25.00	13.01	12.00
Congestion drops	0.00	0.00	6.00	15.00	17.00	20.00	22.00	12.10	11.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	5.00	0.91	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	3.00	7.00	0.92	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	14.00	33.00	60.00	9.47	14.00

Third flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.33	15.84	19.84	24.29	29.93	38.48	48.25	25.24	10.09
Simultaneous throughput	465.91	604.12	761.28	944.62	1172.35	1432.96	2674.65	1030.87	411.07
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.59	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.57	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	14.00	0.81	1.00

Link with High ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6080.83	6502.12	6636.26	6729.86	6883.79	6948.59	7168.96	6733.44	247.53
Fairness of sim. thr. (F+S)	0.65	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.56	0.78	0.83	0.89	0.93	0.97	1.00	0.88	0.10
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	77.94	92.34	96.87	103.86	109.10	111.60	114.96	102.55	12.24
Throughput	3206.69	3294.81	3378.63	3549.49	3791.28	3977.19	4729.43	3617.34	412.66
Simultaneous throughput	1526.73	2130.30	2470.74	2788.71	3102.12	3407.51	4374.52	2801.58	631.38
Total drops	0.00	0.00	1.00	1.00	2.00	3.00	21.00	2.30	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	2.00	20.00	1.81	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.49	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.06	109.35	110.41	112.96	114.54	116.73	125.04	112.99	4.13
Throughput	2948.78	3152.96	3217.43	3263.64	3338.87	3370.03	3475.34	3265.15	121.43
Simultaneous throughput	688.58	1625.25	2019.64	2370.13	2626.65	2797.92	3192.88	2290.38	607.01
Total drops	0.00	1.00	2.00	3.00	3.00	4.00	29.00	3.51	1.00
Congestion drops	0.00	0.00	1.00	1.00	2.00	3.00	29.00	2.33	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.36	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	7.00	0.68	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.72	12.86	16.61	21.04	28.58	34.29	58.81	23.45	11.97
Simultaneous throughput	417.94	664.28	824.35	1112.50	1491.95	1795.13	3133.82	1187.35	667.59
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.08	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.04	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	7.00	0.74	0.00

Link with High ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6106.78	6439.35	6552.56	6688.12	6820.94	6902.15	7121.67	6683.00	268.38
Fairness of sim. thr. (F+S)	0.67	0.88	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.68	0.80	0.84	0.89	0.94	0.97	1.00	0.89	0.11
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	74.22	90.81	98.18	102.44	107.99	111.15	121.95	102.20	9.80
Throughput	3022.93	3298.03	3402.27	3598.93	3749.37	4029.85	4966.93	3632.15	347.10
Simultaneous throughput	1298.12	2071.31	2395.42	2703.13	2977.08	3259.19	3896.67	2693.97	581.66
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	27.00	2.17	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	27.00	1.56	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.61	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.34	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.73	110.13	111.28	113.67	115.80	117.98	124.50	113.84	4.52
Throughput	2960.60	3122.87	3177.67	3243.22	3307.70	3347.46	3453.85	3240.70	130.03
Simultaneous throughput	502.07	1546.55	1962.27	2343.26	2636.44	2892.18	3488.96	2272.40	674.17
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	22.00	2.44	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	18.00	1.28	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.17	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	14.00	0.95	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.84	12.64	15.30	19.65	25.43	31.17	40.15	21.00	10.14
Simultaneous throughput	560.89	723.27	916.92	1226.84	1502.64	1808.09	2346.75	1233.98	585.73
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.62	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.59	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	5.00	5.00	0.96	0.00

Link with Medium ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4987.95	5718.30	6006.35	6360.13	6722.35	6889.16	7162.64	6338.55	716.00
Fairness of sim. thr. (F+S)	0.50	0.78	0.88	0.97	1.00	1.00	1.00	0.92	0.11
Fairness of sim. thr. (all)	0.56	0.70	0.80	0.85	0.93	0.97	1.00	0.85	0.13
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	69.22	84.79	91.51	102.30	109.19	115.02	129.92	100.86	17.68
Throughput	2837.01	3181.97	3376.48	3603.76	4024.48	4345.79	5325.85	3711.15	648.00
Simultaneous throughput	1360.33	1750.56	2268.03	2828.84	3442.74	4071.13	4759.90	2863.69	1174.71
Total drops	4.00	10.00	15.00	23.00	28.00	35.00	42.00	22.36	13.00

Congestion drops	0.00	0.00	2.00	14.00	18.00	22.00	32.00	11.55	16.00
Error drops	2.00	6.00	8.00	10.00	13.00	16.00	25.00	10.81	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	30.00	1.23	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.15	110.19	112.79	119.53	126.55	132.41	152.40	120.57	13.76
Throughput	2418.99	2773.61	2912.24	3084.18	3260.42	3341.01	3473.19	3073.63	348.18
Simultaneous throughput	0.00	1096.17	1452.04	2160.15	2656.02	3043.29	3731.22	2065.78	1203.98
Total drops	7.00	11.00	14.00	19.00	27.00	33.00	45.00	20.88	13.00
Congestion drops	0.00	0.00	0.00	5.00	15.00	18.00	26.00	7.82	15.00
Error drops	6.00	8.00	10.00	12.00	16.00	19.00	22.00	13.07	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	10.00	35.00	3.00	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.78	12.44	14.34	18.74	25.12	30.67	45.97	20.55	10.78
Simultaneous throughput	506.27	732.90	909.48	1204.71	1608.24	1989.29	2836.77	1301.93	698.75
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	7.00	1.73	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.08	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	10.00	0.32	0.00

Link with Medium ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5125.52	5735.05	6065.14	6318.63	6574.87	6810.11	7084.47	6302.94	509.73
Fairness of sim. thr. (F+S)	0.60	0.76	0.86	0.96	0.99	1.00	1.00	0.91	0.14
Fairness of sim. thr. (all)	0.56	0.70	0.79	0.84	0.92	0.97	0.99	0.84	0.13
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	72.58	90.28	96.73	102.61	108.81	115.05	126.71	102.16	12.08
Throughput	2909.01	3202.39	3372.18	3592.48	3809.55	4072.84	5079.76	3646.99	437.37
Simultaneous throughput	1029.82	1837.04	2469.87	3048.67	3456.12	3820.80	5143.53	2975.82	986.25
Total drops	3.00	10.00	17.00	23.00	29.00	33.00	47.00	22.52	12.00
Congestion drops	0.00	0.00	4.00	14.50	18.00	22.00	26.00	12.07	14.00
Error drops	1.00	6.00	8.00	10.00	12.00	16.00	24.00	10.45	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	21.00	0.82	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	107.29	111.01	115.58	120.33	125.22	130.45	148.34	121.13	9.63
Throughput	2485.61	2781.13	2941.25	3063.76	3188.42	3302.33	3435.58	3056.41	247.16
Simultaneous throughput	297.72	1054.59	1403.18	2092.95	2578.69	2886.49	4057.48	2016.86	1175.50
Total drops	6.00	11.00	14.00	20.50	27.00	33.00	41.00	21.12	13.00
Congestion drops	0.00	0.00	1.00	6.00	15.00	18.00	26.00	8.18	14.00
Error drops	5.00	8.00	10.00	13.00	16.00	17.00	22.00	12.93	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	9.00	0.77	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	8.00	16.00	45.00	4.90	8.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.62	11.62	14.80	19.26	25.47	31.60	45.64	20.79	10.67
Simultaneous throughput	494.14	712.90	884.49	1201.96	1570.59	1949.61	2960.43	1258.06	686.10
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.62	3.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	8.00	0.89	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	15.00	0.41	0.00

Link with Medium ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5207.12	5816.83	6098.90	6416.78	6669.23	6892.21	7193.58	6371.40	570.33
Fairness of sim. thr. (F+S)	0.58	0.88	0.93	0.98	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.50	0.81	0.88	0.94	0.97	0.99	1.00	0.91	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	73.18	89.62	99.29	105.36	110.83	117.78	123.98	104.47	11.53
Throughput	2973.49	3126.09	3324.90	3498.45	3710.69	4111.52	5037.85	3565.43	385.79
Simultaneous throughput	909.26	1811.10	2197.64	2549.12	3055.46	3477.30	5620.14	2635.96	857.82
Total drops	1.00	6.00	8.00	11.00	13.00	19.00	37.00	11.93	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	4.00	23.00	1.67	0.00
Error drops	1.00	6.00	8.00	10.00	12.00	14.00	21.00	10.26	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	14.00	1.00	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.66	109.98	113.86	118.47	124.65	128.75	146.02	119.83	10.79
Throughput	2524.30	2819.82	2957.37	3111.58	3233.55	3342.09	3489.31	3089.53	276.18
Simultaneous throughput	281.30	1407.33	1726.71	2093.21	2420.99	2696.23	3393.09	2050.93	694.27
Total drops	5.00	8.00	10.00	12.00	15.00	18.00	35.00	13.15	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	19.00	0.87	0.00
Error drops	5.00	8.00	10.00	12.00	14.00	17.00	22.00	12.28	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.61	1.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	6.00	11.00	1.50	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.76	10.27	11.82	14.33	18.21	22.55	45.39	15.97	6.39
Simultaneous throughput	512.82	1001.98	1239.44	1620.50	1943.99	2189.58	2923.23	1597.70	704.55
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	8.00	1.06	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00

Link with Medium ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5280.12	5844.52	6081.37	6355.91	6602.68	6771.47	7031.48	6331.88	521.31
Fairness of sim. thr. (F+S)	0.57	0.88	0.94	0.98	1.00	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.61	0.80	0.88	0.95	0.98	1.00	1.00	0.92	0.10
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	84.59	92.73	98.07	104.98	110.60	116.90	128.63	105.06	12.53
Throughput	2866.03	3133.61	3331.34	3511.88	3747.22	3933.13	4357.61	3536.50	415.88
Simultaneous throughput	1430.40	1744.17	2079.79	2488.92	3021.17	3436.40	4678.19	2593.23	941.38
Total drops	2.00	6.00	8.00	10.00	14.00	19.00	39.00	11.88	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	6.00	26.00	1.68	0.00
Error drops	2.00	5.00	7.00	10.00	13.00	15.00	23.00	10.20	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	12.00	0.58	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.13	111.54	114.79	119.59	124.78	129.94	143.97	120.45	9.99
Throughput	2560.84	2834.87	2948.78	3082.03	3202.39	3282.99	3408.72	3070.41	253.61
Simultaneous throughput	239.75	1346.83	1722.65	2023.25	2401.11	2644.25	3114.47	2023.48	678.46
Total drops	6.00	9.00	10.00	12.00	15.00	19.00	34.00	13.09	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.83	0.00
Error drops	6.00	8.00	10.00	11.00	15.00	17.00	23.00	12.26	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.67	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	6.00	16.00	1.73	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.50	10.64	11.83	13.88	17.58	21.47	35.49	15.48	5.75
Simultaneous throughput	633.25	985.78	1301.31	1655.15	1914.26	2149.82	2999.00	1631.89	612.95
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	9.00	0.98	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	11.00	0.37	0.00

Link with Low ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4323.32	5028.02	5341.79	5656.92	6027.61	6359.24	6783.89	5683.28	685.82
Fairness of sim. thr. (F+S)	0.50	0.71	0.89	0.98	0.99	1.00	1.00	0.92	0.10
Fairness of sim. thr. (all)	0.51	0.70	0.81	0.91	0.96	0.99	1.00	0.87	0.15
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	74.93	92.74	103.22	113.86	122.99	133.98	147.70	113.63	19.77
Throughput	2496.36	2751.04	2987.46	3237.85	3552.72	3923.46	4919.64	3306.66	565.25
Simultaneous throughput	0.00	1652.58	2131.16	2655.71	3141.95	4215.82	5927.06	2730.89	1010.79
Total drops	13.00	23.00	29.00	35.00	41.00	51.00	72.00	36.10	12.00
Congestion drops	0.00	0.00	0.00	2.00	15.00	21.00	26.00	6.99	15.00
Error drops	13.00	20.00	24.00	29.50	33.00	37.00	49.00	29.11	9.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	20.00	1.11	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.05	119.25	125.84	134.39	141.54	150.37	175.86	134.75	15.71
Throughput	2096.60	2438.33	2590.93	2742.99	2922.99	3083.10	3290.51	2755.85	332.06
Simultaneous throughput	274.25	901.53	1378.54	2011.32	2381.42	2709.27	3575.07	1887.90	1002.88
Total drops	24.00	28.00	31.00	35.50	41.00	50.00	57.00	36.94	10.00
Congestion drops	0.00	0.00	0.00	1.00	7.00	15.00	23.00	4.49	7.00
Error drops	19.00	25.00	28.00	32.50	37.00	40.00	47.00	32.45	9.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.47	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	10.00	1.50	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.36	10.26	11.75	15.77	20.84	27.15	60.54	17.63	9.09
Simultaneous throughput	371.55	768.25	1083.29	1440.36	1895.44	2197.93	3199.41	1514.87	812.15
Total drops	0.00	0.00	0.00	2.00	4.00	6.00	9.00	2.42	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
Error drops	0.00	0.00	0.00	2.00	3.00	5.00	8.00	2.07	3.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00

Link with Low ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4317.01	5038.73	5335.46	5659.91	6054.37	6261.35	6754.76	5679.90	718.91
Fairness of sim. thr. (F+S)	0.54	0.77	0.90	0.98	1.00	1.00	1.00	0.93	0.09
Fairness of sim. thr. (all)	0.52	0.72	0.82	0.92	0.97	0.98	1.00	0.88	0.15
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	76.59	95.41	106.98	117.47	126.58	133.19	148.81	116.35	19.59
Throughput	2477.01	2740.30	2906.87	3138.45	3426.99	3810.63	4813.25	3221.24	520.12
Simultaneous throughput	57.29	1464.66	2056.80	2553.13	3095.38	4068.76	5310.79	2665.81	1038.59
Total drops	15.00	24.00	29.00	35.50	43.00	49.00	62.00	36.27	14.00
Congestion drops	0.00	0.00	0.00	0.00	13.00	18.00	30.00	6.36	13.00
Error drops	15.00	21.00	25.00	30.00	34.00	37.00	51.00	29.91	9.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	11.00	1.09	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.53	121.41	125.24	134.32	142.31	149.98	176.09	134.87	17.07
Throughput	2093.37	2443.70	2587.70	2744.60	2935.88	3035.82	3275.46	2754.24	348.18
Simultaneous throughput	445.53	1127.06	1402.63	1911.87	2325.08	2639.56	3703.40	1896.65	922.45
Total drops	24.00	28.00	32.00	36.00	42.00	48.00	64.00	37.38	10.00
Congestion drops	0.00	0.00	0.00	0.00	5.00	15.00	24.00	4.01	5.00
Error drops	20.00	25.00	29.00	33.00	37.00	42.00	60.00	33.38	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	10.00	1.47	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.74	10.21	11.77	16.03	20.49	25.00	34.15	16.73	8.72
Simultaneous throughput	659.89	911.39	1107.92	1443.89	1930.36	2288.68	3124.01	1559.96	822.45
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	8.00	2.48	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.33	0.00
Error drops	0.00	0.00	0.00	2.00	4.00	5.00	8.00	2.16	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00

Link with Low ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4618.69	5062.24	5366.36	5670.18	5922.07	6161.15	6581.76	5653.71	555.72
Fairness of sim. thr. (F+S)	0.68	0.89	0.94	0.98	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.72	0.83	0.91	0.95	0.98	0.99	1.00	0.93	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.93	105.61	114.65	121.31	128.67	136.50	152.31	121.50	14.02
Throughput	2420.06	2684.42	2853.13	3039.04	3201.31	3453.85	3883.70	3060.00	348.18
Simultaneous throughput	645.62	1501.74	1958.15	2247.57	2641.84	2945.50	3986.23	2284.18	683.69
Total drops	14.00	22.00	25.00	28.00	32.00	36.00	61.00	29.07	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	31.00	0.78	0.00
Error drops	14.00	22.00	25.00	28.00	32.00	35.00	46.00	28.29	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.63	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	11.00	1.93	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.52	123.27	128.22	134.07	140.82	149.21	164.59	135.20	12.60
Throughput	2239.52	2454.45	2602.75	2749.43	2871.40	2987.46	3191.64	2741.53	268.66
Simultaneous throughput	224.83	1243.05	1523.22	1930.47	2202.09	2534.30	3115.73	1908.56	678.87
Total drops	18.00	24.00	27.00	31.00	35.00	41.00	48.00	31.77	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.52	0.00
Error drops	18.00	24.00	27.00	31.00	35.00	39.00	48.00	31.25	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.72	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	4.00	5.00	9.00	2.05	4.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.05	8.99	10.82	12.87	15.58	20.03	38.24	14.26	4.76
Simultaneous throughput	590.32	1121.12	1452.15	1775.36	2148.02	2520.76	3729.63	1809.09	695.87
Total drops	0.00	0.00	0.00	1.00	4.00	6.00	10.00	2.19	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.08	0.00
Error drops	0.00	0.00	0.00	1.00	4.00	5.00	9.00	2.11	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

Link with Low ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4569.41	5131.67	5371.79	5688.98	5982.63	6249.05	6744.50	5687.45	610.84
Fairness of sim. thr. (F+S)	0.65	0.91	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.75	0.85	0.90	0.96	0.98	1.00	1.00	0.94	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	100.18	108.12	115.13	122.82	128.01	135.31	150.86	122.04	12.88
Throughput	2443.70	2722.03	2871.40	3001.97	3201.31	3387.22	3679.52	3041.01	329.91
Simultaneous throughput	350.08	1604.80	1850.85	2154.88	2645.51	3023.37	3832.90	2248.09	794.67
Total drops	15.00	21.00	25.00	29.00	32.00	36.00	47.00	29.07	7.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.48	0.00
Error drops	15.00	21.00	25.00	29.00	32.00	35.00	47.00	28.59	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.58	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	11.00	1.77	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.70	121.53	126.23	133.63	141.39	147.34	166.39	134.40	15.16
Throughput	2215.88	2487.76	2604.90	2758.57	2900.42	3030.45	3271.16	2757.88	295.52
Simultaneous throughput	827.98	1333.91	1555.20	2028.73	2279.96	2629.50	3426.86	1978.13	724.76
Total drops	16.00	24.00	27.00	32.00	35.00	38.00	50.00	31.48	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	13.00	0.28	0.00
Error drops	16.00	24.00	27.00	31.00	35.00	38.00	44.00	31.21	8.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.73	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	4.00	6.00	9.00	2.18	4.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.42	9.12	11.03	13.15	16.45	20.99	34.04	14.35	5.42
Simultaneous throughput	662.84	1038.74	1376.47	1752.77	2083.50	2500.64	3591.52	1771.69	707.03
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	10.00	2.24	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.12	0.00
Error drops	0.00	0.00	0.00	2.00	3.00	5.00	10.00	2.12	3.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

3 Bulk TCPs and Competing Bulk TCP

Error-Free Link - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7653.92	7826.47	7868.51	7871.26	7877.66	7878.12	7900.59	7861.94	9.15
Fairness of sim. thr. (F+S)	0.83	0.91	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.71	0.77	0.84	0.91	0.97	0.99	1.00	0.90	0.13
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	80.96	88.08	97.01	104.85	117.24	126.34	138.77	106.67	20.23
Throughput	2656.48	2916.54	3136.84	3516.18	3785.91	4179.22	4553.19	3516.61	649.07
Simultaneous throughput	2255.44	2631.35	2950.20	3369.56	3670.38	4173.71	4683.66	3367.76	720.18
Total drops	14.00	18.00	20.00	21.00	23.00	25.00	31.00	21.47	3.00
Congestion drops	14.00	18.00	20.00	21.00	23.00	25.00	31.00	21.47	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.65	105.69	110.50	120.25	132.76	140.39	144.49	121.75	22.27
Throughput	2551.16	2625.31	2738.15	3065.91	3296.96	3473.19	3626.87	3059.33	558.81
Simultaneous throughput	1382.22	1954.41	2226.56	2616.72	2970.42	3175.49	3370.72	2596.27	743.86
Total drops	15.00	20.00	21.00	23.00	25.00	27.00	33.00	23.25	4.00
Congestion drops	15.00	20.00	21.00	23.00	25.00	27.00	33.00	23.25	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.93	108.75	112.74	123.29	131.09	136.17	139.96	122.05	18.35
Throughput	2633.91	2696.24	2809.07	2989.61	3265.79	3387.22	3883.70	3042.62	456.72
Simultaneous throughput	470.19	887.73	1102.12	1520.05	2315.85	2944.02	3877.19	1743.04	1213.73
Total drops	1.00	1.00	3.00	5.00	10.00	16.00	20.00	6.87	7.00
Congestion drops	1.00	1.00	3.00	5.00	10.00	16.00	20.00	6.87	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

Error-Free Link - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7523.18	7815.61	7860.45	7871.21	7875.10	7878.31	7903.82	7857.07	14.64
Fairness of sim. thr. (F+S)	0.77	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.74	0.85	0.90	0.94	0.98	0.99	1.00	0.93	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.28	95.92	103.26	111.12	120.34	131.12	139.59	112.13	17.08
Throughput	2640.36	2766.09	3061.61	3317.37	3555.94	3833.19	4649.91	3332.74	494.33
Simultaneous throughput	1862.75	2479.62	2895.87	3143.95	3446.15	3747.25	4401.04	3152.55	550.28
Total drops	13.00	17.00	19.00	20.00	22.00	23.00	27.00	20.20	3.00
Congestion drops	13.00	17.00	19.00	20.00	22.00	23.00	27.00	20.20	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	105.35	112.08	116.29	126.33	134.54	140.44	141.47	125.87	18.25
Throughput	2605.97	2624.24	2736.00	2918.15	3156.18	3285.13	3498.99	2949.35	420.18
Simultaneous throughput	1004.95	1906.70	2276.97	2614.59	2811.43	2974.51	3609.14	2516.39	534.46
Total drops	12.00	18.00	19.00	21.00	22.00	24.00	30.00	20.97	3.00
Congestion drops	12.00	18.00	19.00	21.00	22.00	24.00	30.00	20.97	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.10	107.40	112.24	120.86	130.78	135.67	141.10	121.13	18.53
Throughput	2612.42	2714.51	2817.67	3050.33	3282.99	3423.76	3917.01	3069.54	465.31
Simultaneous throughput	727.82	1228.99	1494.34	1914.50	2374.48	3324.97	3915.45	2064.99	880.14
Total drops	0.00	1.00	2.00	3.50	8.00	17.00	28.00	6.30	6.00
Congestion drops	0.00	1.00	2.00	3.50	8.00	17.00	28.00	6.30	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00

Error-Free Link - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7702.67	7879.90	7900.42	7908.64	7912.49	7915.35	7928.38	7901.03	12.07
Fairness of sim. thr. (F+S)	0.84	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.66	0.81	0.91	0.96	0.98	1.00	1.00	0.93	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	75.14	90.36	101.54	112.14	118.97	130.13	139.24	110.81	17.43
Throughput	2647.88	2825.19	3094.93	3287.82	3602.15	4027.70	4906.75	3383.44	507.22
Simultaneous throughput	2209.06	2707.06	2914.88	3138.13	3503.89	3926.91	4892.15	3244.86	589.01
Total drops	0.00	1.00	1.00	2.00	3.00	14.00	27.00	3.92	2.00
Congestion drops	0.00	1.00	1.00	2.00	3.00	14.00	27.00	3.92	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.07	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.35	109.14	115.58	124.70	137.31	139.80	143.58	125.15	21.72
Throughput	2567.28	2637.13	2676.90	2956.30	3168.00	3370.03	3637.61	2972.96	491.10
Simultaneous throughput	1533.75	2111.22	2327.38	2557.35	2788.39	2890.38	3098.10	2533.40	461.01
Total drops	1.00	2.00	3.00	4.00	4.00	15.00	29.00	5.41	1.00
Congestion drops	1.00	2.00	3.00	4.00	4.00	15.00	29.00	5.41	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.18	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.09	108.34	112.07	121.99	128.42	133.33	139.54	121.14	16.35
Throughput	2641.43	2763.94	2859.58	3021.85	3286.21	3392.60	3507.58	3060.84	426.63
Simultaneous throughput	554.17	926.25	1559.28	2048.39	2492.92	2729.62	3407.19	1987.66	933.65
Total drops	0.00	1.00	1.00	2.00	3.00	5.00	22.00	2.62	2.00
Congestion drops	0.00	1.00	1.00	2.00	3.00	5.00	22.00	2.62	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	8.00	0.45	0.00

Error-Free Link - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7601.38	7878.28	7904.00	7908.51	7912.48	7915.33	7928.40	7899.18	8.49
Fairness of sim. thr. (F+S)	0.78	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.65	0.88	0.94	0.97	0.99	1.00	1.00	0.96	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	70.37	97.63	106.01	115.70	124.06	129.81	138.03	114.73	18.05
Throughput	2670.45	2827.34	2971.34	3186.27	3475.34	3738.63	5238.81	3255.77	504.00
Simultaneous throughput	1985.57	2665.74	2798.23	3041.58	3324.42	3603.10	4983.99	3072.93	526.19
Total drops	0.00	0.00	0.00	0.00	0.00	20.00	27.00	2.77	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	20.00	27.00	2.77	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.08	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.56	113.93	121.57	128.76	137.17	139.84	141.93	128.32	15.60
Throughput	2597.37	2636.06	2673.67	2862.81	2998.21	3202.39	3492.54	2888.28	324.54
Simultaneous throughput	1305.96	2080.21	2280.62	2505.45	2665.50	2805.78	3192.94	2461.07	384.87
Total drops	0.00	0.00	0.00	0.00	1.00	16.00	24.00	2.58	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	16.00	24.00	2.58	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.06	0.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	85.66	107.99	112.31	123.04	128.66	132.84	139.19	120.99	16.35
Throughput	2647.88	2773.61	2862.81	2996.06	3276.54	3407.64	4303.88	3070.55	413.73
Simultaneous throughput	877.94	1443.79	1897.63	2292.09	2610.71	2909.41	4301.59	2272.76	713.07
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	25.00	1.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	25.00	1.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.17	0.00

Link with High ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5408.72	6340.51	6547.28	6689.19	6791.61	6892.78	7096.22	6647.39	244.33
Fairness of sim. thr. (F+S)	0.64	0.80	0.94	0.98	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.50	0.73	0.87	0.95	0.98	0.99	1.00	0.90	0.10
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	68.43	91.22	111.54	127.05	140.59	151.22	174.66	126.21	29.05
Throughput	2110.57	2371.70	2609.19	2901.49	3298.03	3840.72	5387.10	3030.05	688.84
Simultaneous throughput	924.07	2076.70	2461.29	2804.00	3191.16	3878.96	5022.20	2887.85	729.87
Total drops	2.00	9.00	17.00	19.00	22.00	24.00	31.00	18.55	5.00
Congestion drops	2.00	9.00	16.00	19.00	21.00	24.00	29.00	17.84	5.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.71	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	24.00	1.34	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.66	131.80	140.57	154.26	164.12	168.25	192.62	152.70	23.55
Throughput	1913.91	2186.87	2244.90	2389.43	2616.72	2768.24	3005.73	2435.72	371.82
Simultaneous throughput	726.48	1097.39	1706.11	2081.48	2310.76	2507.89	2946.42	1975.41	604.65
Total drops	1.00	5.00	9.00	18.00	22.00	24.00	29.00	16.14	13.00
Congestion drops	1.00	3.00	8.00	17.00	21.00	23.00	28.00	15.10	13.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.04	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.59	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	9.00	19.00	53.00	5.35	9.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	78.86	127.96	134.67	141.85	152.40	159.86	189.89	142.69	17.73
Throughput	1941.85	2297.55	2417.91	2598.99	2733.85	2830.57	4674.63	2617.83	315.94
Simultaneous throughput	473.79	1018.02	1302.61	1906.91	2274.89	2730.95	4667.32	1877.13	972.29
Total drops	1.00	2.00	3.00	6.00	10.00	15.00	22.00	7.20	7.00
Congestion drops	0.00	1.00	3.00	5.00	9.00	14.00	22.00	6.38	6.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.82	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	7.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	12.00	57.00	3.75	1.00

Link with High ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5522.61	6257.60	6475.28	6666.28	6747.78	6857.50	7045.62	6598.48	272.50
Fairness of sim. thr. (F+S)	0.78	0.93	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.78	0.87	0.92	0.96	0.98	0.99	1.00	0.95	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	85.16	109.55	119.38	131.72	143.08	153.51	174.43	131.14	23.70
Throughput	2113.79	2394.27	2575.88	2798.87	3069.13	3360.36	4328.60	2860.18	493.25
Simultaneous throughput	1737.43	2228.81	2439.25	2713.90	2976.89	3219.70	3901.19	2711.18	537.64
Total drops	0.00	8.00	15.00	17.50	20.00	22.00	27.00	16.59	5.00
Congestion drops	0.00	7.00	14.00	17.00	19.00	22.00	27.00	15.83	5.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.76	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	33.00	1.62	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.53	137.59	146.13	154.32	165.02	170.29	185.73	154.66	18.89
Throughput	1984.84	2163.22	2234.15	2388.90	2517.85	2679.04	2960.60	2401.49	283.70
Simultaneous throughput	1067.98	1629.07	1857.86	2059.40	2321.56	2462.18	2758.08	2066.79	463.70
Total drops	0.00	4.00	12.00	17.00	20.00	21.00	27.00	14.98	8.00
Congestion drops	0.00	3.00	11.00	16.00	18.00	20.00	24.00	13.88	7.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.10	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	11.00	21.00	41.00	6.18	11.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	110.83	128.55	136.08	145.02	155.67	164.44	186.96	145.93	19.59
Throughput	1971.94	2233.07	2367.40	2542.03	2705.91	2858.51	3325.97	2547.60	338.51
Simultaneous throughput	949.34	1290.93	1548.53	1885.73	2338.94	2715.26	3193.12	1944.00	790.41
Total drops	0.00	1.00	2.00	4.00	10.00	14.00	23.00	6.03	8.00
Congestion drops	0.00	0.00	1.00	3.00	9.00	13.00	23.00	5.17	8.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.87	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.64	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	17.00	47.00	4.60	2.00

Link with High ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6215.89	6546.89	6654.10	6745.10	6851.07	6923.17	7082.54	6741.02	196.96
Fairness of sim. thr. (F+S)	0.61	0.94	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.59	0.85	0.92	0.97	0.99	1.00	1.00	0.94	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	78.28	108.36	117.20	130.56	143.04	153.81	160.84	130.77	25.84
Throughput	2292.18	2373.85	2572.66	2823.58	3119.64	3382.93	4709.01	2869.96	546.99
Simultaneous throughput	1858.90	2270.96	2477.94	2681.14	2988.84	3387.62	4243.66	2765.72	510.90
Total drops	0.00	1.00	2.00	3.00	4.00	6.00	27.00	4.23	2.00
Congestion drops	0.00	1.00	1.00	2.00	3.00	5.00	27.00	3.63	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.60	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	16.00	0.48	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.11	131.39	141.53	150.51	160.79	165.03	171.84	150.10	19.26
Throughput	2144.96	2227.70	2288.96	2449.61	2602.75	2803.70	3069.13	2474.08	313.79
Simultaneous throughput	463.88	1668.73	1938.65	2179.41	2320.82	2499.09	2897.74	2115.61	382.17
Total drops	2.00	3.00	3.00	4.00	5.00	7.00	27.00	5.38	2.00
Congestion drops	0.00	1.00	2.00	3.00	4.00	5.00	27.00	4.29	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.08	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.33	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	9.00	0.55	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.70	131.02	136.73	142.10	151.63	157.71	172.61	143.67	14.91
Throughput	2135.28	2320.12	2425.43	2594.15	2694.09	2802.63	3391.52	2581.06	268.66
Simultaneous throughput	684.34	1181.54	1509.27	1955.07	2202.05	2559.50	3393.82	1903.66	692.78
Total drops	1.00	1.00	2.00	4.00	5.00	8.00	21.00	4.37	3.00
Congestion drops	0.00	1.00	2.00	3.00	4.00	6.00	20.00	3.62	2.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.74	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	14.00	1.05	1.00

Link with High ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6213.43	6500.57	6621.24	6728.24	6823.94	6924.80	7067.58	6720.24	202.69
Fairness of sim. thr. (F+S)	0.84	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.74	0.92	0.94	0.98	0.99	1.00	1.00	0.96	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.96	116.84	122.60	134.02	146.69	155.14	165.09	134.09	24.09
Throughput	2233.07	2373.85	2511.40	2751.04	2992.84	3152.96	4008.36	2786.45	481.43
Simultaneous throughput	1458.84	2273.05	2438.55	2647.57	2899.73	3093.76	4068.21	2649.25	461.18
Total drops	0.00	0.00	0.00	1.00	2.00	9.00	25.00	2.95	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	9.00	25.00	2.27	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	26.00	0.73	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	127.57	137.00	144.47	153.28	162.41	165.03	171.07	152.47	17.94
Throughput	2154.63	2232.00	2268.54	2405.01	2544.72	2689.79	2889.67	2430.53	276.18
Simultaneous throughput	1262.22	1802.64	1932.46	2127.76	2302.48	2448.22	2680.38	2122.35	370.02
Total drops	0.00	0.00	1.00	1.00	3.00	5.00	25.00	3.24	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	5.00	25.00	2.18	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.07	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.41	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	12.00	0.88	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	103.81	130.64	135.35	142.66	152.87	157.56	166.53	143.57	17.53
Throughput	2213.73	2335.16	2403.94	2583.94	2715.58	2812.30	3551.64	2584.13	311.64
Simultaneous throughput	918.85	1498.63	1697.78	1967.43	2282.06	2638.58	3558.02	2006.61	584.28
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	17.00	2.09	3.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	13.00	1.17	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	0.92	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	5.00	17.00	1.43	2.00

Link with Medium ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5750.67	6290.95	6449.23	6665.08	6869.63	7011.03	7254.21	6655.95	420.40
Fairness of sim. thr. (F+S)	0.76	0.90	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.74	0.87	0.93	0.97	0.99	0.99	1.00	0.95	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.95	105.44	117.83	130.06	145.08	153.25	170.97	130.14	27.25
Throughput	2155.70	2405.01	2529.67	2834.33	3120.72	3487.16	4610.15	2898.17	591.04

Simultaneous throughput	1619.99	2055.47	2321.11	2673.40	2999.69	3267.24	4346.20	2682.02	678.58
Total drops	5.00	11.00	16.00	24.00	31.00	36.00	49.00	24.17	15.00
Congestion drops	0.00	0.00	3.00	15.00	20.00	24.00	33.00	13.09	17.00
Error drops	2.00	6.00	8.00	11.00	14.00	16.00	20.00	11.07	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.56	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.51	137.46	145.72	156.99	164.55	171.45	192.31	155.29	18.83
Throughput	1917.13	2150.33	2238.45	2348.06	2526.45	2668.30	2984.24	2389.79	288.00
Simultaneous throughput	1029.08	1520.49	1822.35	2039.47	2278.58	2432.41	3291.11	2025.96	456.24
Total drops	6.00	12.00	16.00	19.00	28.00	33.00	41.00	21.43	12.00
Congestion drops	0.00	0.00	1.00	4.50	15.00	19.00	24.00	8.15	14.00
Error drops	4.00	8.00	10.00	13.00	16.00	19.00	23.00	13.28	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.46	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	10.00	23.00	2.55	1.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.63	115.30	130.27	141.64	153.53	161.13	173.12	140.80	23.26
Throughput	2128.84	2286.81	2389.97	2602.75	2827.34	3183.04	3979.34	2663.20	437.37
Simultaneous throughput	1135.65	1599.70	1817.08	2218.03	2583.11	3027.58	4035.61	2259.87	766.04
Total drops	3.00	9.00	12.00	17.00	22.00	30.00	40.00	18.03	10.00
Congestion drops	0.00	0.00	1.00	4.00	11.00	17.00	26.00	6.50	10.00
Error drops	3.00	7.00	9.00	12.00	14.00	16.00	22.00	11.53	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.43	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	7.00	23.00	1.95	1.00

Link with Medium ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5819.40	6249.95	6398.74	6620.98	6754.81	6914.71	7137.77	6579.51	356.07
Fairness of sim. thr. (F+S)	0.67	0.92	0.96	0.98	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.75	0.88	0.93	0.97	0.99	1.00	1.00	0.95	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	87.19	106.13	120.18	134.90	145.72	153.93	167.03	132.35	25.54
Throughput	2207.28	2388.90	2515.70	2732.78	3054.09	3410.87	4227.58	2843.72	538.39
Simultaneous throughput	1554.31	1992.20	2310.92	2640.00	2884.66	3158.03	4235.50	2621.43	573.74
Total drops	5.00	12.00	18.00	23.50	31.00	35.00	43.00	24.07	13.00
Congestion drops	0.00	0.00	5.00	15.00	21.00	23.00	31.00	13.26	16.00
Error drops	3.00	5.00	8.00	11.00	13.00	16.00	19.00	10.82	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	15.00	0.63	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.05	138.49	149.27	159.35	166.42	172.23	190.04	157.39	17.15
Throughput	1939.70	2134.21	2213.73	2313.13	2440.48	2625.31	2971.34	2358.64	226.75
Simultaneous throughput	673.97	1508.33	1772.24	2038.38	2234.05	2486.44	3027.84	2004.93	461.81
Total drops	9.00	13.00	16.00	21.00	27.00	31.00	38.00	21.64	11.00
Congestion drops	0.00	0.00	1.00	6.00	15.00	17.00	26.00	7.94	14.00
Error drops	5.00	9.00	11.00	14.00	16.00	17.00	23.00	13.70	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.68	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	7.00	13.00	29.00	3.88	7.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.83	115.72	132.85	143.27	153.97	161.02	181.91	141.91	21.12
Throughput	2026.75	2277.13	2393.19	2573.19	2772.54	3169.07	3970.75	2640.64	379.34
Simultaneous throughput	854.39	1539.04	1862.39	2239.30	2632.77	3164.28	3965.82	2290.07	770.38
Total drops	6.00	9.00	12.00	17.00	24.00	30.00	40.00	18.42	12.00
Congestion drops	0.00	0.00	0.00	3.50	11.00	17.00	23.00	6.29	11.00
Error drops	6.00	8.00	9.00	11.00	14.00	17.00	23.00	12.13	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	10.00	31.00	2.62	2.00

Link with Medium ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5696.28	6286.06	6457.96	6674.43	6783.79	6997.77	7295.81	6630.78	325.83
Fairness of sim. thr. (F+S)	0.79	0.94	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.77	0.91	0.95	0.97	0.99	1.00	1.00	0.96	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.44	110.56	121.70	133.99	146.39	152.79	163.81	132.89	24.70
Throughput	2250.27	2393.19	2504.96	2751.58	3014.33	3323.82	4030.93	2820.69	509.37
Simultaneous throughput	1575.24	2294.71	2417.43	2679.88	2918.80	3128.97	4197.14	2713.53	501.37
Total drops	4.00	5.00	8.00	11.00	13.00	17.00	42.00	11.48	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	22.00	1.25	0.00
Error drops	4.00	5.00	7.00	10.00	13.00	15.00	21.00	10.23	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	9.00	0.89	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.13	138.43	144.51	156.75	163.92	170.01	177.00	155.06	19.41
Throughput	2082.63	2163.22	2245.97	2351.82	2529.67	2659.70	2993.91	2392.67	283.70
Simultaneous throughput	1212.83	1704.60	1891.93	2092.37	2273.39	2503.90	2672.90	2077.82	381.47

Total drops	7.00	10.00	11.00	14.00	18.00	20.00	37.00	14.88	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	20.00	1.12	0.00
Error drops	6.00	10.00	11.00	14.00	16.00	18.00	23.00	13.77	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.46	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	6.00	12.00	1.52	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	90.65	130.52	137.38	145.76	151.49	158.39	171.44	144.01	14.12
Throughput	2150.33	2313.67	2431.88	2529.13	2674.75	2820.90	4066.39	2583.67	242.87
Simultaneous throughput	954.45	1617.30	1827.02	2165.44	2440.71	2712.32	4125.32	2191.78	613.70
Total drops	2.00	8.00	10.00	12.00	15.00	18.00	27.00	12.74	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	19.00	0.88	0.00
Error drops	2.00	7.00	10.00	12.00	14.00	17.00	20.00	11.86	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	6.00	12.00	1.57	2.00

Link with Medium ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6017.58	6303.12	6437.17	6610.92	6780.80	6911.55	7236.02	6606.61	343.62
Fairness of sim. thr. (F+S)	0.79	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.82	0.93	0.95	0.98	0.99	1.00	1.00	0.97	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.26	115.79	127.21	137.35	147.18	154.85	166.95	136.41	19.96
Throughput	2208.36	2373.85	2492.06	2684.42	2880.00	3174.45	4177.07	2739.26	387.94
Simultaneous throughput	1995.22	2243.29	2389.55	2592.09	2860.83	3114.63	3889.50	2653.79	471.28
Total drops	3.00	6.00	9.00	11.50	14.00	18.00	36.00	12.27	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	24.00	1.30	0.00
Error drops	3.00	6.00	8.00	11.00	13.00	16.00	24.00	10.97	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	14.00	0.89	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	126.16	139.49	145.32	154.74	163.35	167.80	178.06	154.57	18.03
Throughput	2070.81	2193.31	2256.72	2381.91	2533.97	2634.99	2921.91	2397.82	277.25
Simultaneous throughput	1239.34	1765.94	1963.81	2152.48	2315.97	2474.38	2777.99	2135.43	352.16
Total drops	7.00	10.00	11.00	14.00	16.00	20.00	32.00	14.64	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.97	0.00
Error drops	7.00	10.00	11.00	14.00	16.00	18.00	24.00	13.67	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.49	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	5.00	15.00	1.77	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.48	130.77	139.35	147.16	153.00	158.20	168.40	145.87	13.65
Throughput	2189.01	2321.19	2403.94	2504.96	2644.66	2809.07	3277.61	2542.03	240.72
Simultaneous throughput	1267.15	1601.98	1895.01	2164.77	2412.46	2643.19	3273.26	2168.44	517.45
Total drops	4.00	8.00	10.00	13.00	15.00	18.00	32.00	13.17	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.68	0.00
Error drops	4.00	8.00	10.00	12.00	15.00	17.00	27.00	12.48	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	4.00	6.00	11.00	1.87	4.00

Link with Low ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5347.26	5665.44	5873.74	6049.43	6359.63	6614.64	7038.83	6114.62	485.89
Fairness of sim. thr. (F+S)	0.78	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.78	0.93	0.96	0.98	1.00	1.00	1.00	0.97	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	85.86	117.77	135.12	147.98	160.80	171.14	192.53	147.54	25.67
Throughput	1914.99	2149.25	2283.58	2490.99	2713.43	3025.07	4293.13	2548.07	429.85
Simultaneous throughput	1351.16	2016.26	2155.53	2308.26	2509.06	2853.76	4043.29	2377.67	353.53
Total drops	17.00	27.00	31.00	38.00	46.00	57.00	72.00	39.61	15.00
Congestion drops	0.00	0.00	0.00	3.00	14.00	22.00	30.00	7.35	14.00
Error drops	16.00	24.00	28.00	31.50	36.00	41.00	48.00	32.26	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	10.00	0.98	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	133.14	148.02	158.88	171.11	181.36	188.27	196.41	169.72	22.47
Throughput	1877.37	1947.22	2029.97	2154.09	2319.04	2470.57	2769.31	2189.35	289.07
Simultaneous throughput	1174.51	1584.24	1743.36	1974.17	2159.90	2243.66	2504.72	1948.79	416.54
Total drops	25.00	31.00	35.00	38.00	45.00	51.00	72.00	40.07	10.00
Congestion drops	0.00	0.00	0.00	2.00	7.00	16.00	26.00	4.93	7.00
Error drops	22.00	27.00	31.00	35.00	39.00	43.00	54.00	35.13	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.63	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	6.00	14.00	1.83	2.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.48	128.42	145.47	157.52	167.56	175.71	195.67	155.68	22.09
Throughput	1883.82	2097.67	2199.76	2340.54	2509.25	2847.76	3494.69	2403.63	309.49
Simultaneous throughput	1243.65	1740.62	1896.07	2147.41	2455.18	2864.55	3495.51	2220.87	559.11
Total drops	20.00	28.00	31.00	38.00	44.00	49.00	62.00	38.24	13.00

Congestion drops	0.00	0.00	0.00	0.00	7.00	16.00	23.00	4.47	7.00
Error drops	17.00	27.00	29.00	34.00	37.00	42.00	46.00	33.78	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.57	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	11.00	1.47	2.00

Link with Low ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5223.25	5640.77	5837.06	6091.93	6299.06	6529.30	6885.02	6080.75	462.01
Fairness of sim. thr. (F+S)	0.79	0.94	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.77	0.91	0.96	0.98	0.99	1.00	1.00	0.97	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	93.53	121.65	135.27	146.21	157.86	171.64	185.02	146.67	22.59
Throughput	1992.36	2141.73	2331.94	2521.07	2720.96	3026.15	3941.73	2559.02	389.01
Simultaneous throughput	1495.53	1967.18	2154.46	2334.01	2575.35	2937.32	3865.65	2390.08	420.89
Total drops	21.00	26.00	32.00	37.50	46.00	54.00	65.00	39.41	14.00
Congestion drops	0.00	0.00	0.00	4.00	15.00	22.00	27.00	7.66	15.00
Error drops	19.00	22.00	27.00	32.00	37.00	40.00	49.00	31.75	10.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	10.00	1.39	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	133.60	147.76	158.36	168.74	179.15	187.37	200.52	169.07	20.79
Throughput	1838.69	1946.15	2043.94	2184.72	2326.57	2475.94	2759.64	2197.76	282.63
Simultaneous throughput	1175.70	1538.66	1747.86	1961.60	2151.60	2331.85	2554.47	1940.51	403.73
Total drops	27.00	32.00	35.00	39.00	45.00	50.00	69.00	40.67	10.00
Congestion drops	0.00	0.00	0.00	1.50	9.00	15.00	25.00	5.00	9.00
Error drops	19.00	29.00	32.00	35.00	39.00	43.00	50.00	35.67	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.68	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	11.00	1.79	3.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	90.93	127.82	145.42	158.28	170.75	181.23	200.26	156.71	25.33
Throughput	1840.84	2024.60	2158.93	2328.72	2530.75	2860.66	4054.57	2398.29	371.82
Simultaneous throughput	1173.09	1611.42	1895.45	2139.00	2449.22	2805.98	4049.35	2200.44	553.77
Total drops	19.00	27.00	32.00	36.00	43.00	51.00	72.00	37.88	11.00
Congestion drops	0.00	0.00	0.00	0.00	7.00	17.00	25.00	4.35	7.00
Error drops	19.00	25.00	29.00	33.50	37.00	42.00	55.00	33.53	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.69	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	11.00	1.77	2.00

Link with Low ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4920.27	5607.00	5791.58	6006.52	6210.77	6450.83	6824.22	6013.09	419.20
Fairness of sim. thr. (F+S)	0.78	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.73	0.97	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	99.97	136.22	142.00	151.28	157.94	167.70	182.26	151.17	15.94
Throughput	2022.45	2165.37	2316.90	2436.72	2593.07	2682.27	3687.04	2457.81	276.18
Simultaneous throughput	1372.50	2084.19	2205.32	2372.63	2517.90	2635.16	3676.28	2373.11	312.58
Total drops	19.00	25.00	29.00	32.00	36.00	41.00	62.00	32.81	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	5.00	25.00	1.62	0.00
Error drops	19.00	25.00	28.00	31.00	34.00	38.00	47.00	31.19	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	12.00	1.61	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.17	150.42	159.56	167.65	178.03	184.87	197.23	168.47	18.47
Throughput	1868.78	1993.43	2069.73	2198.69	2307.22	2441.55	2648.96	2200.19	237.49
Simultaneous throughput	1127.31	1716.75	1897.07	2057.16	2191.94	2307.95	2528.92	2029.64	294.87
Total drops	21.00	28.00	32.00	36.00	40.00	45.00	59.00	36.26	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	20.00	1.32	0.00
Error drops	21.00	28.00	31.00	35.00	39.00	42.00	53.00	34.93	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.63	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	10.00	1.83	3.00
Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.15	146.33	156.10	162.05	170.56	179.98	195.13	162.26	14.46
Throughput	1889.19	2043.94	2158.93	2274.99	2360.96	2502.81	4182.45	2296.28	202.03
Simultaneous throughput	1285.91	1763.17	1884.38	2061.39	2265.04	2483.19	4341.73	2115.67	380.66
Total drops	21.00	27.00	30.00	34.00	38.00	43.00	57.00	34.41	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	23.00	0.84	0.00
Error drops	21.00	26.00	30.00	33.00	37.00	41.00	57.00	33.57	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.32	2.00

Link with Low ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Overall throughput	5300.87	5713.47	5851.17	6076.31	6309.00	6639.42	6839.54	6106.21	457.83
Fairness of sim. thr. (F+S)	0.91	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.92	0.97	0.98	0.99	1.00	1.00	1.00	0.99	0.01

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	111.57	134.66	146.28	157.30	163.02	172.77	185.90	155.10	16.74
Throughput	1982.69	2129.91	2253.49	2343.22	2510.33	2718.81	3304.48	2398.31	256.84
Simultaneous throughput	1709.73	2055.17	2176.49	2301.30	2423.07	2606.90	3061.65	2320.53	246.58
Total drops	12.00	24.00	27.00	31.00	34.00	37.00	63.00	31.57	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.75	0.00
Error drops	12.00	24.00	27.00	31.00	34.00	37.00	46.00	30.82	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.46	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	15.00	1.93	3.00

Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.06	153.20	162.12	169.85	177.88	185.19	196.78	169.80	15.76
Throughput	1873.07	1988.06	2071.88	2170.21	2273.91	2382.45	2651.10	2182.05	202.03
Simultaneous throughput	1509.67	1784.05	1938.96	2031.75	2151.20	2276.93	2451.62	2031.55	212.24
Total drops	21.00	27.00	30.00	36.00	41.00	43.00	64.00	35.70	11.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	26.00	0.84	0.00
Error drops	21.00	27.00	30.00	35.00	40.00	43.00	46.00	34.86	10.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.73	1.00
Unnecessary retransmissions	0.00	0.00	1.00	1.00	3.00	4.00	9.00	1.83	2.00

Third flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.68	144.19	151.42	158.79	168.99	173.84	199.75	159.88	17.57
Throughput	1845.13	2109.49	2179.34	2321.73	2429.73	2525.37	3029.37	2320.76	250.39
Simultaneous throughput	1640.07	1809.18	1963.77	2172.43	2345.43	2473.04	3026.37	2168.12	381.66
Total drops	20.00	26.00	29.00	34.00	38.00	42.00	62.00	33.81	9.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.48	0.00
Error drops	20.00	26.00	29.00	33.00	37.00	41.00	50.00	33.33	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	5.00	10.00	1.75	2.00

4 Bulk TCPs and HTTP

Error-Free Link - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7749.86	7808.84	7819.99	7832.04	7843.23	7853.07	7866.74	7830.26	23.23
Fairness of sim. thr. (F+S)	0.86	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.82	0.91	0.93	0.94	0.95	0.97	0.99	0.94	0.03

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	86.81	94.09	99.50	101.60	102.85	103.87	105.07	100.49	3.35
Throughput	3508.66	3547.34	3583.88	3628.48	3704.24	3914.87	4245.85	3673.39	120.36
Simultaneous throughput	2428.52	2762.62	2966.66	3061.63	3191.16	3403.32	4135.46	3092.53	224.50
Total drops	7.00	16.00	18.00	23.00	24.00	25.00	29.00	21.32	6.00
Congestion drops	7.00	16.00	18.00	23.00	24.00	25.00	29.00	21.32	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.69	104.88	105.01	105.17	105.32	105.47	106.28	105.19	0.31
Throughput	3468.90	3494.69	3500.06	3505.43	3510.81	3515.10	3521.55	3504.69	10.75
Simultaneous throughput	1719.12	2447.37	2580.45	2754.47	2859.02	2994.64	3344.23	2704.57	278.58
Total drops	3.00	17.00	17.00	19.00	22.00	26.00	31.00	19.61	5.00
Congestion drops	3.00	17.00	17.00	19.00	22.00	26.00	31.00	19.61	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1337.69	1475.70	1595.20	1657.84	1756.48	1872.70	2335.17	1680.98	161.29
Total drops	1.00	2.00	5.00	8.00	12.00	14.00	19.00	8.54	7.00
Congestion drops	1.00	2.00	5.00	8.00	12.00	14.00	19.00	8.54	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	1.00	3.00	4.00	4.00	6.00	2.57	3.00
Unnecessary rexmits	0.00	2.00	2.00	4.00	8.00	8.00	11.00	4.77	6.00
Response time	37.00	45.93	49.18	52.10	54.12	58.53	64.59	51.90	4.94

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	13.04	17.55	20.92	25.88	29.64	31.74	38.05	25.20	8.72
Throughput	333.13	397.61	426.63	490.03	586.75	714.63	971.46	531.01	160.12
Simultaneous throughput	196.20	216.44	233.96	243.15	257.62	274.66	342.49	246.60	23.66
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	7.00	2.03	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	4.00	7.00	2.03	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.50	2.00	2.00	2.00	1.03	2.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.40	14.71	17.17	19.19	21.50	24.12	35.92	19.69	4.33
Throughput	256.84	373.97	426.63	480.36	531.94	614.69	808.12	485.13	105.31
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.16	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.16	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.92	2.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	13.80	16.35	17.37	20.73	22.77	26.83	32.93	20.80	5.40
Throughput	279.40	341.73	404.06	444.36	520.12	564.18	667.34	459.36	116.06
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	1.00	2.00	2.00	3.00	4.00	1.72	1.00
Congestion drops	0.00	0.00	1.00	2.00	2.00	3.00	4.00	1.72	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.71	2.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.97	14.91	17.49	19.22	23.97	26.82	38.86	20.78	6.47
Throughput	237.49	343.88	383.64	479.28	524.42	617.91	769.43	465.72	140.78
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.72	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.72	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.81	2.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.59	11.15	12.12	13.72	24.89	26.99	31.39	17.43	12.77
Throughput	293.37	341.73	367.52	671.64	759.76	812.42	1073.55	601.43	392.24
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.62	12.21	13.72	14.48	18.62	25.04	29.94	16.79	4.90
Throughput	307.34	361.07	494.33	636.72	671.64	755.46	1208.96	594.84	177.31
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.96	13.14	13.79	14.80	16.82	21.05	27.49	16.05	3.02
Throughput	335.28	408.36	540.54	622.21	668.42	700.66	770.51	596.31	127.88
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.40	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.40	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.12	13.43	14.85	15.34	18.26	19.26	28.50	16.41	3.41
Throughput	323.46	478.21	502.93	600.72	617.91	685.61	759.76	574.07	114.99
Simultaneous throughput	142.69	157.41	170.15	176.84	187.36	199.75	249.08	179.34	17.20
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.62	2.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.94	10.60	12.80	14.52	17.88	18.43	29.30	14.77	5.08
Throughput	314.87	497.55	513.67	634.57	718.93	825.31	1161.67	654.07	205.25
Simultaneous throughput	125.32	154.60	170.15	176.84	187.36	199.75	249.08	178.99	17.20
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.26	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.52	2.00

Error-Free Link - Baseline TCP and RED+ECN

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7753.81	7814.62	7830.55	7840.98	7843.67	7853.99	7866.26	7836.44	13.12
Fairness of sim. thr. (F+S)	0.79	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.81	0.92	0.94	0.96	0.98	0.99	1.00	0.96	0.03

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.73	92.19	94.24	98.83	101.78	103.64	105.00	97.83	7.55
Throughput	3510.81	3555.94	3619.34	3730.03	3908.42	3983.64	4624.12	3779.16	289.07
Simultaneous throughput	2139.56	2597.26	2824.53	3022.84	3225.79	3416.96	4221.51	3033.56	401.26
Total drops	9.00	15.00	17.00	21.00	23.00	25.00	29.00	20.42	6.00
Congestion drops	9.00	15.00	17.00	21.00	23.00	25.00	29.00	20.42	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.70	104.87	105.00	105.04	105.19	105.40	106.22	105.10	0.18
Throughput	3471.04	3497.91	3504.36	3509.73	3510.81	3515.10	3520.48	3507.38	6.45
Simultaneous throughput	1320.76	2042.65	2282.22	2474.79	2697.67	2864.41	3297.78	2479.73	415.45
Total drops	3.00	15.00	16.00	18.00	21.00	24.00	28.00	18.67	5.00
Congestion drops	3.00	15.00	16.00	18.00	21.00	24.00	28.00	18.67	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1408.72	1657.54	1776.84	1909.95	2039.68	2142.63	2514.32	1917.20	262.83
Total drops	0.00	1.00	2.00	6.00	10.00	12.00	16.00	6.34	8.00
Congestion drops	0.00	1.00	2.00	6.00	10.00	12.00	16.00	6.34	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	6.00	1.95	2.00
Unnecessary rexmits	0.00	0.00	2.00	3.00	6.00	8.00	10.00	3.55	4.00
Response time	34.36	39.95	42.30	45.23	48.56	51.77	61.33	45.51	6.26
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.62	17.08	20.08	23.15	25.93	27.89	33.15	22.95	5.85
Throughput	382.57	447.04	486.81	546.99	625.43	741.49	1003.70	575.16	138.63
Simultaneous throughput	206.61	243.11	260.85	280.45	299.15	314.25	368.77	281.41	38.31
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	7.00	1.88	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	7.00	1.88	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.46	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.88	2.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.33	13.43	14.43	18.09	20.26	22.80	27.91	17.91	5.83
Throughput	329.91	398.69	451.34	509.91	631.88	683.46	893.01	537.64	180.54
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.99	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.99	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.72	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.82	13.98	15.94	18.80	21.47	25.36	29.64	19.13	5.53
Throughput	310.57	361.07	427.70	490.03	576.00	658.75	851.10	505.80	148.30
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.38	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.38	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.71	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.11	14.13	15.81	17.96	23.15	25.27	28.62	19.17	7.34
Throughput	322.39	360.00	395.46	513.13	579.22	639.40	829.61	505.77	183.76
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	1.00	3.00	3.00	5.00	1.61	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	3.00	5.00	1.61	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.43	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.72	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.23	9.04	10.12	11.69	12.57	13.63	26.05	12.02	2.45
Throughput	353.55	674.87	730.75	788.24	898.39	1014.45	1275.58	811.64	167.64
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.14	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.14	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.22	9.18	10.53	12.21	13.65	14.44	24.54	12.54	3.12
Throughput	376.12	631.88	672.72	755.46	869.37	987.58	1276.66	777.06	196.66
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00

HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.43	9.80	11.34	12.71	14.29	15.06	25.92	13.11	2.95
Throughput	355.70	608.24	644.78	725.37	807.04	940.30	1241.19	738.31	162.27
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	10.04	11.77	13.24	14.80	16.44	24.35	13.43	3.03
Throughput	378.27	559.88	620.06	695.82	779.10	912.36	1201.43	712.67	159.04
Simultaneous throughput	150.26	176.80	189.71	203.96	217.57	228.55	268.19	204.66	27.86
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.09	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.09	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.14	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.72	9.24	10.51	12.83	14.18	17.21	19.54	12.77	3.68
Throughput	471.76	530.87	646.93	718.39	857.55	989.73	1372.30	761.36	210.63
Simultaneous throughput	25.58	176.76	189.53	203.73	217.57	228.55	268.19	203.17	28.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.28	0.00

Error-Free Link - Baseline TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7779.20	7843.66	7853.99	7854.42	7854.44	7854.82	7877.57	7850.86	0.45
Fairness of sim. thr. (F+S)	0.83	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.87	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.81	98.37	100.54	101.51	102.92	104.15	105.16	101.06	2.38
Throughput	3505.43	3539.82	3579.58	3631.16	3666.63	3747.22	4618.75	3652.25	87.04
Simultaneous throughput	2069.03	2381.77	2536.15	2661.93	2729.39	2825.89	3446.17	2648.78	193.24
Total drops	7.00	18.00	24.00	26.00	27.00	29.00	31.00	24.70	3.00
Congestion drops	7.00	18.00	24.00	26.00	27.00	29.00	31.00	24.70	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.38	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.55	104.86	104.86	104.86	104.86	105.00	105.87	104.91	0.01
Throughput	3481.79	3510.81	3515.10	3515.10	3515.10	3515.10	3525.85	3513.71	0.00
Simultaneous throughput	1296.00	2069.98	2304.37	2430.15	2515.18	2605.51	3031.70	2379.09	210.81
Total drops	5.00	19.00	20.00	22.00	23.00	25.00	32.00	21.58	3.00
Congestion drops	5.00	19.00	20.00	22.00	23.00	25.00	32.00	21.58	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.16	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2155.24	2240.64	2264.08	2298.79	2329.46	2401.54	2668.21	2312.05	65.38
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.11	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.22	0.00
Response time	32.38	35.69	37.08	37.58	38.16	38.56	40.08	37.41	1.07

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.54	13.47	13.69	14.05	14.31	14.37	14.50	13.90	0.62
Throughput	873.67	881.19	885.49	901.61	922.03	940.30	1329.31	914.53	36.54
Simultaneous throughput	316.10	328.63	332.07	337.16	341.65	352.23	391.34	339.10	9.59
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.54	12.20	12.63	12.85	12.99	13.06	13.42	12.66	0.36
Throughput	686.69	706.03	709.25	717.85	729.67	751.16	966.09	729.67	20.42
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.11	12.84	13.09	13.25	13.34	13.46	14.06	13.14	0.25
Throughput	655.52	683.46	690.99	695.28	703.88	717.85	912.36	703.14	12.90
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.60	13.34	13.55	13.91	14.17	14.49	16.72	13.95	0.62
Throughput	551.28	594.27	650.15	661.97	680.24	690.99	869.37	663.61	30.09
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.23	10.77	11.20	11.60	12.05	12.57	13.08	11.60	0.85
Throughput	704.96	732.90	764.06	794.69	823.16	855.40	998.33	797.56	59.10
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.76	10.84	11.20	11.69	12.21	12.72	12.93	11.70	1.01
Throughput	712.48	722.15	755.46	788.24	823.16	850.03	1052.06	791.01	67.70
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.33	11.03	11.49	11.92	12.35	12.83	13.58	11.89	0.86
Throughput	679.16	713.55	745.79	773.73	802.75	833.91	987.58	778.25	56.96
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.31	11.18	11.56	12.06	12.50	12.97	15.36	12.06	0.93
Throughput	599.64	710.33	735.04	764.06	792.00	823.16	989.73	767.74	56.96
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.89	11.02	11.87	12.16	12.48	12.63	13.06	12.04	0.60
Throughput	706.03	727.52	738.27	757.61	775.88	831.76	932.78	767.93	37.61
Simultaneous throughput	229.89	239.00	241.50	245.20	248.48	256.16	284.61	246.62	6.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Baseline TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7510.57	7801.79	7834.07	7853.77	7854.44	7854.45	7877.13	7833.24	20.38
Fairness of sim. thr. (F+S)	0.79	0.89	0.94	0.98	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.84	0.93	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	78.22	88.27	92.44	97.78	101.82	103.35	105.77	96.87	9.38
Throughput	3485.01	3561.31	3620.42	3769.79	3981.49	4152.36	4713.31	3819.99	361.07
Simultaneous throughput	1743.49	2244.84	2350.10	2677.09	3012.11	3199.84	3594.65	2689.06	662.02
Total drops	2.00	15.00	15.00	20.00	21.00	24.00	29.00	18.93	6.00
Congestion drops	2.00	15.00	15.00	20.00	21.00	24.00	29.00	18.93	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.57	104.86	104.86	104.88	105.12	105.48	109.66	105.15	0.26
Throughput	3361.43	3492.54	3506.51	3515.10	3515.10	3515.10	3525.85	3505.83	8.60
Simultaneous throughput	810.96	1535.52	1771.85	2153.34	2399.15	2684.01	3161.37	2115.31	627.30
Total drops	7.00	15.00	15.00	19.00	20.00	22.00	28.00	18.25	5.00
Congestion drops	7.00	15.00	15.00	19.00	20.00	22.00	28.00	18.25	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2286.29	2394.23	2447.36	2540.57	2661.94	2741.15	2896.29	2556.83	214.58
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Response time	29.83	31.46	32.38	34.00	35.19	36.07	37.79	33.88	2.81

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.29	11.74	12.92	13.75	14.04	14.31	14.51	13.36	1.12
Throughput	873.67	884.42	901.61	922.03	974.69	1072.48	1363.70	956.10	73.07
Simultaneous throughput	335.32	351.15	358.95	372.62	390.42	402.04	424.79	375.00	31.47
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.53	11.19	11.98	12.54	12.85	12.99	13.42	12.29	0.86
Throughput	686.69	709.25	717.85	735.04	769.43	818.87	967.16	753.30	51.58
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.10	11.76	12.55	13.03	13.27	13.39	14.06	12.78	0.72
Throughput	655.52	686.69	694.21	707.10	733.97	780.18	912.36	723.92	39.76
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.53	12.03	13.12	13.55	13.99	14.20	17.18	13.50	0.86
Throughput	536.24	645.85	658.75	680.24	702.81	761.91	875.82	687.32	44.06
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.54	9.98	10.67	11.42	12.04	12.33	13.29	11.29	1.37
Throughput	693.13	745.79	765.13	807.04	861.85	913.43	1080.00	821.93	96.72
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.32	9.80	10.34	11.21	11.85	12.62	13.50	11.16	1.51
Throughput	682.39	730.75	774.81	822.09	891.94	937.07	1107.94	833.95	117.13
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.15	9.59	10.41	11.37	12.11	12.71	13.58	11.25	1.70
Throughput	679.16	725.37	756.54	810.81	879.04	951.04	1130.51	828.70	122.51
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.07	9.66	10.38	11.34	12.18	12.76	13.79	11.23	1.80
Throughput	668.42	721.07	755.46	812.42	885.49	946.75	1141.25	830.98	130.03
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.36	7.15	8.01	9.36	10.47	11.83	12.75	9.35	2.45
Throughput	723.22	775.88	876.90	984.36	1140.18	1263.76	1448.60	1018.59	263.28
Simultaneous throughput	243.87	255.38	261.05	270.99	283.94	292.39	308.94	272.73	22.89
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7801.22	7844.60	7861.10	7872.43	7873.30	7878.70	7897.35	7866.18	12.20
Fairness of sim. thr. (F+S)	0.91	0.96	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (all)	0.88	0.91	0.93	0.96	0.98	0.98	1.00	0.95	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	87.65	90.45	92.30	102.63	103.75	104.27	104.70	98.88	11.45
Throughput	3520.48	3533.37	3552.72	3591.94	3993.31	4072.84	4206.09	3741.05	440.60
Simultaneous throughput	2643.74	2763.41	2795.71	2943.56	3302.62	3549.19	3761.76	3071.21	506.90
Total drops	0.00	0.00	0.00	1.00	1.00	13.00	23.00	2.71	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	13.00	23.00	2.71	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.03	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.30	104.54	104.57	104.63	104.77	104.99	105.58	104.70	0.19
Throughput	3491.46	3510.81	3518.33	3523.70	3523.70	3526.93	3534.45	3520.79	5.37
Simultaneous throughput	1946.99	2282.61	2446.08	2704.59	2811.46	2892.95	3155.49	2640.82	365.38
Total drops	1.00	1.00	1.00	1.00	2.00	14.00	22.00	3.04	1.00
Congestion drops	1.00	1.00	1.00	1.00	2.00	14.00	22.00	3.04	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1357.08	1644.08	1753.30	1872.32	1986.48	2100.93	2294.53	1866.03	233.18
Total drops	0.00	1.00	3.00	6.00	9.00	13.00	30.00	6.82	6.00
Congestion drops	0.00	1.00	3.00	6.00	9.00	13.00	30.00	6.82	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	2.00	3.00	3.00	4.00	7.00	2.57	1.00
Unnecessary rexmits	0.00	1.00	2.00	3.00	6.00	8.00	17.00	3.79	4.00
Response time	37.65	40.92	43.40	46.14	48.97	52.17	63.66	46.77	5.57

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.53	15.91	17.50	21.10	25.01	26.64	39.31	21.41	7.50
Throughput	322.39	472.84	505.07	600.72	715.70	787.70	1098.27	621.57	210.63
Simultaneous throughput	199.04	241.13	257.15	274.61	291.35	308.14	336.53	273.68	34.20
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.47	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.47	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.18	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.97	14.21	15.36	18.57	24.47	28.13	40.71	20.17	9.11
Throughput	226.75	317.01	366.45	495.94	599.64	629.73	840.36	496.40	233.19
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.61	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.61	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.39	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.69	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.11	14.51	15.07	16.00	18.98	27.13	37.53	18.13	3.91
Throughput	246.09	339.58	485.73	576.00	609.31	635.10	760.84	539.28	123.58
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.36	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.36	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.57	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	1.00	5.00	0.77	1.00

HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.47	14.77	15.35	16.21	16.79	19.55	27.31	16.57	1.44
Throughput	337.43	461.01	549.13	568.48	597.49	616.84	739.34	564.76	48.36
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.35	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.35	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.77	0.00
Unnecessary retransmissions	0.00	0.00	1.00	1.00	1.00	1.00	5.00	0.82	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.24	10.18	11.79	13.64	15.45	16.97	28.14	14.27	3.66
Throughput	327.76	488.96	588.90	675.94	778.03	904.84	1118.69	690.82	189.13
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.17	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.17	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.05	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.67	10.32	11.98	13.82	15.66	19.57	28.94	14.66	3.68
Throughput	318.09	425.55	587.82	666.81	768.36	893.01	1062.81	675.50	180.54
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.04	11.40	12.84	14.57	15.83	20.11	33.49	15.20	2.99
Throughput	275.10	435.22	580.30	632.96	716.78	797.37	918.81	639.13	136.48
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.61	12.14	13.14	14.55	15.75	16.46	22.28	14.53	2.61
Throughput	413.73	558.81	582.45	633.49	694.21	755.46	868.30	645.81	111.76
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.59	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.63	10.83	12.48	13.56	14.51	15.51	17.24	13.38	2.03
Throughput	534.09	591.04	632.96	679.16	738.27	846.81	1389.49	703.71	105.31
Simultaneous throughput	144.75	175.37	187.02	199.71	211.89	224.10	244.75	199.04	24.87
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.22	0.00

Error-Free Link - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7803.54	7862.84	7867.86	7873.09	7878.32	7878.72	7896.97	7872.28	10.46
Fairness of sim. thr. (F+S)	0.75	0.96	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.79	0.95	0.97	0.98	0.99	0.99	1.00	0.97	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	77.54	92.02	94.75	98.13	102.96	103.91	104.39	97.90	8.21
Throughput	3531.22	3543.04	3577.43	3756.90	3890.15	3990.09	4754.15	3777.62	312.72
Simultaneous throughput	2362.33	2639.38	2772.62	2954.84	3078.29	3285.42	4285.07	2963.13	305.67
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	23.00	2.03	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	23.00	2.03	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.29	104.49	104.54	104.61	104.68	104.71	105.54	104.62	0.14
Throughput	3492.54	3519.40	3521.55	3523.70	3525.85	3526.93	3534.45	3523.44	4.30
Simultaneous throughput	1161.11	2146.37	2284.67	2508.94	2678.28	2775.50	3108.33	2478.90	393.61
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	22.00	2.34	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	22.00	2.34	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.07	0.00

HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1769.74	1892.73	2009.71	2144.94	2231.41	2290.72	2515.64	2117.71	221.70
Total drops	0.00	0.00	1.00	6.00	8.00	10.00	24.00	5.14	7.00
Congestion drops	0.00	0.00	1.00	6.00	8.00	10.00	24.00	5.14	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.90	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	3.00	4.00	10.00	2.27	2.00
Response time	34.34	37.62	38.69	40.28	42.94	45.57	48.82	41.01	4.26

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.09	14.60	16.60	20.90	22.72	25.35	27.67	19.90	6.11
Throughput	457.79	496.48	557.73	606.63	762.99	848.96	1142.33	667.67	205.25
Simultaneous throughput	259.56	277.60	294.76	314.59	327.27	335.97	368.96	310.60	32.52
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.24	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.24	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.09	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.39	13.56	14.72	16.81	21.07	27.19	32.91	18.53	6.35
Throughput	280.48	337.43	436.30	548.60	623.28	675.94	886.57	534.39	186.99
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.43	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.43	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.43	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.82	13.99	14.85	15.61	16.79	23.08	30.25	16.73	1.94
Throughput	305.19	384.72	549.13	590.51	621.13	658.75	852.18	572.94	72.00
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.01	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.01	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	1.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	1.00	1.00	4.00	0.52	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.03	14.27	15.06	15.92	16.57	17.75	26.25	16.19	1.51
Throughput	351.40	504.00	556.66	579.22	611.46	645.85	836.06	579.96	54.81
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	7.00	1.13	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	2.00	7.00	1.13	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.70	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.70	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.57	8.15	9.82	11.52	14.15	15.81	23.62	12.14	4.33
Throughput	390.09	578.15	648.00	800.06	937.07	1128.36	1403.46	810.51	289.07
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.93	8.25	10.26	11.67	13.65	15.30	21.96	12.03	3.38
Throughput	420.18	591.04	671.64	789.85	893.01	1090.75	1330.39	806.04	221.37
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.52	9.46	10.90	11.92	14.01	15.18	20.59	12.32	3.11
Throughput	447.04	605.01	657.67	773.19	844.66	952.12	1226.15	775.93	186.99
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.09	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.09	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	9.60	10.90	12.34	14.36	15.45	21.39	12.62	3.46
Throughput	430.93	594.27	641.55	746.87	845.73	955.34	1314.27	758.28	204.18
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.39	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.78	7.94	8.96	10.43	12.12	12.98	14.21	10.50	3.16
Throughput	649.07	701.73	759.76	884.42	1020.90	1149.85	1594.75	909.21	261.13
Simultaneous throughput	188.77	201.89	214.37	228.79	238.02	244.34	268.34	225.89	23.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00

Error-Free Link - Enhanced TCP and DiffServ for HTTP

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7856.67	7872.92	7878.31	7878.34	7878.76	7883.78	7897.37	7879.10	0.45
Fairness of sim. thr. (F+S)	0.93	0.96	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (all)	0.94	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.01

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.42	91.00	92.01	101.27	103.54	104.11	104.47	98.51	11.53
Throughput	3529.07	3538.75	3560.24	3640.30	4006.21	4047.04	4169.55	3753.64	445.97
Simultaneous throughput	2229.53	2496.82	2611.26	2715.77	2922.32	3191.52	3394.66	2778.52	311.06
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	28.00	2.88	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	28.00	2.88	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.29	104.47	104.48	104.54	104.55	104.61	104.83	104.53	0.07
Throughput	3516.18	3523.70	3525.85	3525.85	3526.93	3529.07	3534.45	3526.48	1.07
Simultaneous throughput	1766.44	2071.42	2222.76	2439.69	2578.47	2665.49	2813.13	2393.53	355.71
Total drops	1.00	1.00	1.00	2.00	3.00	6.00	23.00	3.46	2.00
Congestion drops	1.00	1.00	1.00	2.00	3.00	6.00	23.00	3.46	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP transfer

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2090.02	2118.81	2205.27	2282.41	2458.72	2536.18	2802.11	2325.56	253.45
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.86	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.91	1.00
Response time	30.83	34.05	35.07	37.85	39.16	40.69	41.34	37.33	4.09

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.52	13.57	14.21	15.14	16.36	16.54	17.47	15.08	2.15
Throughput	725.37	766.21	774.81	837.67	891.94	929.55	1330.39	849.67	117.13
Simultaneous throughput	306.54	310.76	323.44	334.75	360.61	371.97	410.98	341.08	37.17
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.73	10.53	10.68	12.01	12.48	12.62	12.98	11.55	1.80
Throughput	710.33	729.67	738.27	767.28	862.93	874.75	1055.28	803.09	124.66
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.45	11.32	11.54	11.90	12.91	13.05	13.27	12.18	1.37
Throughput	695.28	706.03	714.63	774.81	798.45	809.19	975.76	759.87	83.82
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.45	12.04	13.12	13.84	14.16	14.52	15.24	13.59	1.04
Throughput	605.01	635.10	651.22	666.27	702.81	766.21	882.27	681.26	51.58
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.74	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.74	1.00

HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.04	10.12	10.98	11.70	12.50	12.71	13.22	11.61	1.51
Throughput	697.43	725.37	737.19	787.70	839.28	898.39	1019.82	799.29	102.09
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.47	10.34	10.98	11.63	12.42	12.78	13.36	11.65	1.44
Throughput	689.91	721.07	741.49	792.00	839.28	891.94	972.54	796.31	97.79
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.47	10.41	10.84	11.63	12.57	12.78	13.29	11.67	1.73
Throughput	693.13	721.07	732.90	792.00	850.03	885.49	972.54	795.32	117.13
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.62	11.27	11.78	12.28	12.93	13.35	13.92	12.30	1.15
Throughput	661.97	690.99	709.25	750.09	779.10	817.79	958.57	753.16	69.85
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.17	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.00	8.95	9.67	10.68	11.83	11.97	12.55	10.67	2.16
Throughput	733.97	769.43	774.81	862.93	953.19	1021.97	1315.34	875.44	178.39
Simultaneous throughput	222.94	226.01	235.23	243.46	262.26	270.53	298.89	248.06	27.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Enhanced TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7542.05	7856.30	7878.29	7878.32	7883.75	7884.12	7897.35	7867.58	5.46
Fairness of sim. thr. (F+S)	0.91	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.92	0.97	0.99	0.99	1.00	1.00	1.00	0.99	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	84.52	90.72	94.54	98.64	102.67	104.04	105.39	98.11	8.14
Throughput	3497.91	3543.04	3569.91	3737.55	3884.78	4059.94	4361.91	3767.33	314.87
Simultaneous throughput	1994.38	2444.81	2524.31	2666.71	2756.97	2966.22	3566.68	2675.19	232.66
Total drops	0.00	0.00	0.00	0.00	2.00	5.00	26.00	2.67	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	5.00	26.00	2.67	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.29	104.46	104.47	104.54	104.55	104.66	109.21	104.69	0.08
Throughput	3375.40	3516.18	3525.85	3525.85	3529.07	3529.07	3534.45	3521.30	3.22
Simultaneous throughput	1668.55	2030.95	2295.03	2490.02	2592.19	2729.87	2826.81	2427.51	297.16
Total drops	0.00	0.00	0.00	1.00	3.00	8.00	21.00	2.78	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	8.00	21.00	2.78	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2123.03	2189.73	2240.99	2415.57	2555.02	2665.41	3104.29	2429.10	314.03
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.63	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	1.00	5.00	0.68	1.00
Response time	27.83	32.21	33.79	35.76	38.52	39.39	40.69	35.81	4.72
Per Object Statistics									

HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.97	12.14	13.46	14.38	15.66	16.39	16.93	14.40	2.21
Throughput	747.94	770.51	808.12	881.19	939.22	1040.24	1413.13	892.63	131.10
Simultaneous throughput	311.38	321.16	328.68	354.28	374.74	390.93	455.30	356.27	46.06
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.01	10.10	10.61	10.75	12.26	12.55	12.98	11.23	1.66
Throughput	710.33	733.97	751.16	857.55	869.37	905.91	1149.85	827.61	118.21
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.66	11.03	11.39	11.65	12.76	13.05	13.27	11.94	1.37
Throughput	695.28	706.03	717.85	791.46	803.82	834.99	1064.96	776.58	85.97
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.44	11.82	12.11	13.33	14.01	14.30	15.02	13.15	1.91
Throughput	613.61	641.55	655.52	690.99	756.54	780.18	975.76	706.06	101.01
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.90	10.05	10.91	11.49	12.28	12.57	12.93	11.48	1.37
Throughput	712.48	729.67	750.09	802.75	844.66	891.94	1035.94	808.00	94.57
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.53	10.26	10.84	11.38	12.28	12.71	13.22	11.47	1.44
Throughput	697.43	721.07	750.09	809.73	850.03	898.39	1080.00	809.63	99.94
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.39	10.26	10.84	11.45	12.35	12.64	13.14	11.47	1.51
Throughput	701.73	725.37	741.49	804.90	850.03	898.39	1098.27	809.58	108.54
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.53	10.54	11.27	12.14	12.64	13.06	14.14	11.96	1.37
Throughput	652.30	704.96	728.60	759.76	817.79	873.67	1080.00	776.87	89.19
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.50	8.16	9.02	9.89	11.18	11.90	12.12	9.96	2.16
Throughput	760.84	774.81	824.24	932.78	1021.97	1119.76	1676.42	947.04	197.73
Simultaneous throughput	226.46	233.57	239.04	257.66	272.54	284.31	331.12	259.10	33.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Link with High ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4717.13	6185.36	6535.03	6699.82	6829.06	6918.33	7036.49	6629.74	294.02
Fairness of sim. thr. (F+S)	0.62	0.86	0.96	0.99	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.53	0.82	0.91	0.95	0.97	0.98	1.00	0.93	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	67.65	93.74	104.99	113.17	118.79	121.44	144.04	110.79	13.80
Throughput	2558.69	3033.67	3102.45	3257.73	3505.43	3875.10	5449.43	3370.38	402.99
Simultaneous throughput	1505.43	2195.19	2476.94	2716.08	2978.01	3448.89	5323.71	2777.91	501.07
Total drops	1.00	5.00	13.00	18.50	22.00	24.00	29.00	16.92	9.00
Congestion drops	0.00	5.00	13.00	17.50	21.00	23.00	29.00	16.35	8.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.57	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	9.00	0.27	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	7.00	70.00	2.40	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.05	119.05	120.60	122.94	125.97	131.65	174.61	124.57	5.37
Throughput	2111.64	2768.24	2925.13	2998.75	3056.24	3096.00	3149.73	2967.29	131.10
Simultaneous throughput	611.64	1389.50	1796.73	2183.33	2463.14	2564.20	2927.45	2073.09	666.41
Total drops	0.00	3.00	12.00	17.00	20.00	23.00	33.00	15.30	8.00
Congestion drops	0.00	2.00	10.00	16.00	19.00	21.00	31.00	14.28	9.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.02	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	14.00	0.72	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	5.00	25.00	90.00	6.12	5.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	884.98	1299.70	1457.32	1602.58	1814.51	1991.56	3383.18	1664.79	357.19
Total drops	0.00	3.00	7.00	10.00	13.00	17.00	27.00	10.41	6.00
Congestion drops	0.00	3.00	7.00	10.00	13.00	17.00	27.00	10.22	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.19	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	4.00	5.00	7.00	2.57	3.00
Unnecessary rexmits	0.00	0.00	2.00	4.00	7.00	10.00	26.00	4.82	5.00
Response time	26.70	43.01	47.88	53.77	59.03	63.75	84.84	53.63	11.15
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.36	15.01	21.67	26.03	31.31	35.23	54.18	26.16	9.64
Throughput	234.27	356.78	402.99	486.81	583.52	781.25	1992.36	549.44	180.54
Simultaneous throughput	149.36	192.09	214.40	235.51	266.37	294.51	496.20	245.80	51.97
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	6.00	2.46	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	5.00	6.00	2.40	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.56	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.19	13.20	16.00	20.15	25.56	30.34	41.64	21.16	9.56
Throughput	221.37	301.97	360.00	457.25	569.55	687.76	1282.03	483.14	209.55
Simultaneous throughput	108.63	139.70	155.93	171.28	193.72	214.19	360.87	178.76	37.80
Total drops	0.00	0.00	1.00	1.00	2.00	4.00	6.00	1.68	1.00
Congestion drops	0.00	0.00	1.00	1.00	2.00	4.00	6.00	1.65	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.48	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.54	14.01	17.46	22.13	25.45	28.43	39.76	21.81	7.98
Throughput	232.12	310.57	357.85	416.42	523.34	657.67	1221.85	459.08	165.49
Simultaneous throughput	108.63	139.70	155.93	171.28	193.72	214.19	360.87	178.76	37.80
Total drops	0.00	0.00	1.00	2.00	2.00	3.00	5.00	1.77	1.00
Congestion drops	0.00	0.00	1.00	2.00	2.00	3.00	5.00	1.77	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.40	14.40	17.69	22.09	26.17	31.25	62.44	22.91	8.47
Throughput	147.22	294.45	347.10	416.96	514.75	635.10	1245.49	445.83	167.64
Simultaneous throughput	108.63	138.63	155.45	170.94	193.55	212.43	360.87	177.84	38.10
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.28	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.27	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.41	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.41	10.29	11.97	13.75	18.78	26.13	36.09	16.31	6.81
Throughput	255.76	336.36	490.03	670.03	769.43	884.42	1436.78	646.81	279.40
Simultaneous throughput	27.66	138.63	155.45	170.94	193.55	212.43	360.87	177.15	38.10
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.48	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.43	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.72	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.50	10.63	12.61	14.91	19.45	25.29	44.00	16.87	6.84

Throughput	209.55	354.63	466.39	618.45	724.30	804.90	1228.30	612.02	257.91
Simultaneous throughput	108.63	139.70	155.93	170.95	193.72	214.19	360.87	178.41	37.80
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.46	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.46	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.57	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.95	11.39	13.29	15.36	19.82	25.65	32.90	16.98	6.53
Throughput	280.48	352.48	463.16	599.64	693.13	807.04	1158.45	596.69	229.97
Simultaneous throughput	108.63	139.70	155.93	170.95	193.72	214.19	360.87	178.41	37.80
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.56	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.53	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.48	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	11.78	13.75	16.35	19.90	24.20	30.36	17.24	6.15
Throughput	303.04	376.12	458.87	563.64	669.49	780.18	1201.43	577.97	210.63
Simultaneous throughput	108.63	139.70	155.93	170.95	193.72	214.19	360.87	178.41	37.80
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.54	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.54	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.26	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.43	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.96	9.52	11.66	14.28	16.89	19.78	29.37	14.66	5.23
Throughput	313.79	464.24	544.84	645.85	784.48	943.52	1856.96	680.96	239.64
Simultaneous throughput	74.15	138.63	155.37	170.94	193.55	214.19	360.87	177.19	38.18
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.19	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.17	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.41	0.00

Link with High ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5578.58	6226.46	6460.19	6623.86	6774.26	6906.15	7137.23	6596.27	314.06
Fairness of sim. thr. (F+S)	0.70	0.89	0.95	0.98	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.76	0.88	0.94	0.97	0.99	1.00	1.00	0.96	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	90.00	101.26	106.35	113.45	117.96	121.77	147.29	112.21	11.61
Throughput	2502.81	3026.15	3117.49	3249.67	3466.75	3629.01	4095.40	3305.46	349.25
Simultaneous throughput	1180.88	1764.69	2192.19	2555.41	2825.97	3038.42	3627.87	2488.04	633.78
Total drops	0.00	3.00	13.00	17.00	19.00	22.00	28.00	15.22	6.00
Congestion drops	0.00	3.00	13.00	16.00	18.00	21.00	28.00	14.63	5.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.58	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.27	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	11.00	42.00	2.47	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.40	119.19	121.51	124.35	127.19	130.36	147.64	125.10	5.68
Throughput	2496.36	2786.51	2891.82	2964.90	3032.60	3090.63	3194.87	2952.31	140.78
Simultaneous throughput	756.34	1352.00	1619.76	1951.88	2172.01	2365.78	2806.46	1903.96	552.25
Total drops	0.00	2.00	8.00	16.00	19.00	22.00	26.00	14.23	11.00
Congestion drops	0.00	1.00	6.00	15.00	17.00	21.00	25.00	13.09	11.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.14	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.65	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	12.00	19.00	44.00	6.16	12.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1326.42	1716.14	1829.66	1991.17	2178.43	2436.62	3218.37	2042.98	348.77
Total drops	0.00	0.00	2.00	5.00	9.00	12.00	18.00	5.67	7.00
Congestion drops	0.00	0.00	2.00	5.00	9.00	11.00	17.00	5.43	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.28	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	6.00	11.00	26.00	4.89	5.00
Response time	26.84	35.19	39.67	43.39	47.32	50.03	65.13	43.46	7.66
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.59	12.20	16.49	22.50	25.88	29.49	42.05	21.24	9.39
Throughput	300.90	426.63	484.66	563.10	762.99	1034.87	1922.51	673.02	278.33
Simultaneous throughput	194.54	251.70	268.35	292.04	319.50	357.37	472.03	299.64	51.15
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.54	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.51	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	8.00	0.58	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.14	11.75	14.15	16.34	19.39	24.13	32.63	17.24	5.24
Throughput	282.63	378.27	471.76	564.18	651.22	765.13	1290.63	582.43	179.46

Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	0.96	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	0.94	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.66	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.39	11.79	14.75	17.72	20.76	24.03	36.30	18.07	6.00
Throughput	253.61	377.19	440.60	520.12	609.31	756.54	1247.64	553.21	168.72
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.13	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.54	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	12.49	15.33	18.68	21.55	23.58	36.05	18.68	6.22
Throughput	255.76	389.01	426.63	493.25	600.72	737.19	1201.43	527.83	174.09
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.41	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.39	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.58	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.40	8.73	9.77	11.39	14.19	17.84	27.30	12.51	4.42
Throughput	337.43	507.22	634.03	808.66	942.45	1049.91	1440.00	801.79	308.42
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	7.00	0.69	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.23	9.31	10.23	11.91	14.07	19.67	33.00	13.10	3.84
Throughput	279.40	464.24	652.30	774.27	897.31	987.58	1275.58	762.61	245.01
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.14	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.62	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.63	9.47	10.87	12.46	14.58	18.92	27.78	13.28	3.71
Throughput	332.06	478.21	625.43	739.88	847.88	972.54	1206.81	739.85	222.45
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.61	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.31	9.82	11.35	12.92	14.46	17.25	27.96	13.51	3.11
Throughput	329.91	505.07	637.25	713.55	810.27	928.48	1109.01	718.38	173.01
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.37	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.14	8.99	10.67	12.13	13.72	15.38	25.29	12.28	3.05
Throughput	364.30	598.57	669.49	759.22	861.85	1023.04	1793.55	786.96	192.36
Simultaneous throughput	141.48	183.06	195.16	212.39	232.37	259.91	343.29	217.92	37.20
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00

Link with High ARQ Persistency - Baseline TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5130.04	6325.70	6556.03	6696.23	6848.39	6959.87	7098.68	6661.88	292.35
Fairness of sim. thr. (F+S)	0.64	0.84	0.95	0.99	1.00	1.00	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.72	0.87	0.96	0.98	1.00	1.00	1.00	0.96	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	81.25	98.40	107.55	112.28	117.88	121.76	127.38	111.27	10.32
Throughput	2893.97	3027.22	3126.09	3283.52	3418.39	3739.70	4537.07	3341.47	292.30
Simultaneous throughput	1342.46	1838.69	2150.91	2316.02	2594.08	3026.73	4008.98	2391.64	443.17

Total drops	0.00	8.00	16.00	19.00	23.00	25.00	35.00	18.16	7.00
Congestion drops	0.00	6.00	15.00	19.00	22.00	24.00	33.00	17.61	7.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.55	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	2.00	28.00	1.16	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	116.02	118.25	120.23	123.00	125.49	129.30	160.56	123.94	5.26
Throughput	2296.48	2831.64	2934.81	2997.13	3064.84	3115.34	3177.67	2981.75	130.03
Simultaneous throughput	477.10	1171.35	1612.84	1850.19	2046.44	2202.45	2888.41	1765.16	433.60
Total drops	0.00	4.00	15.00	18.00	20.00	23.00	26.00	16.42	5.00
Congestion drops	0.00	2.00	14.00	17.00	19.00	22.00	26.00	15.31	5.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.50	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	18.00	67.00	4.88	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1809.91	2028.07	2123.83	2243.09	2377.82	2500.11	3204.99	2265.99	253.99
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.60	3.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	5.00	6.00	14.00	2.82	5.00
Response time	26.95	34.54	36.52	38.53	40.89	42.60	47.73	38.66	4.37
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.57	11.23	12.47	13.50	17.43	20.06	22.63	14.66	4.96
Throughput	559.88	629.73	718.93	938.69	1015.52	1115.46	1928.96	908.87	296.60
Simultaneous throughput	265.45	297.45	311.50	328.99	348.75	366.68	470.07	332.35	37.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.43	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.11	10.91	12.27	13.06	14.23	17.11	23.49	13.50	1.97
Throughput	392.24	536.24	643.70	705.49	747.94	836.06	1296.00	704.65	104.24
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.22	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.36	11.38	12.94	13.62	15.27	17.66	28.26	14.19	2.33
Throughput	325.61	521.19	596.42	677.01	711.40	801.67	1250.87	672.57	114.99
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.65	11.84	13.43	14.23	15.89	17.84	19.68	14.54	2.46
Throughput	468.54	515.82	580.30	648.00	685.61	762.99	1205.73	649.75	105.31
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.38	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.99	10.47	11.41	12.56	14.55	17.06	21.13	13.17	3.14
Throughput	436.30	538.39	617.91	733.97	805.97	877.97	1025.19	723.76	188.06
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.28	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.53	10.54	11.39	12.52	13.37	15.32	20.82	12.73	1.98
Throughput	442.75	589.97	688.84	736.12	809.19	873.67	967.16	739.60	120.36
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.34	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.08	10.78	11.89	12.85	13.80	15.70	29.26	13.18	1.91
Throughput	314.87	578.15	666.27	716.78	772.66	839.28	1015.52	719.32	106.39
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09

Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.36	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.95	10.50	11.79	12.76	14.04	15.62	25.64	13.08	2.25
Throughput	358.93	571.70	655.52	722.15	775.88	864.00	1158.45	722.87	120.36
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.26	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.72	9.53	10.23	11.61	12.86	15.13	19.64	11.90	2.63
Throughput	469.61	601.79	714.63	794.15	895.16	967.16	1192.84	799.01	180.54
Simultaneous throughput	193.06	216.33	226.54	239.26	253.63	266.68	341.87	241.71	27.09
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00

Link with High ARQ Persistency - Baseline TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4816.34	5681.85	6162.11	6489.11	6623.31	6750.13	7018.09	6355.10	461.21
Fairness of sim. thr. (F+S)	0.61	0.81	0.94	0.98	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.74	0.87	0.94	0.97	0.99	0.99	1.00	0.95	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.35	97.74	106.64	114.23	119.65	126.18	153.97	113.72	13.01
Throughput	2394.27	2916.54	3078.81	3227.10	3447.40	3757.97	4172.78	3273.76	368.60
Simultaneous throughput	1045.12	1620.45	1939.68	2176.35	2487.76	2880.11	3252.00	2223.95	548.08
Total drops	0.00	10.00	13.00	17.00	20.00	23.00	28.00	15.79	7.00
Congestion drops	0.00	9.00	12.00	16.00	19.00	21.00	27.00	15.10	7.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.69	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	2.00	10.00	0.53	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	5.00	15.00	60.00	4.72	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.36	121.67	124.23	126.92	133.17	144.12	171.02	130.24	8.94
Throughput	2155.70	2542.57	2758.57	2904.18	2964.90	3020.78	3141.13	2844.34	206.33
Simultaneous throughput	349.41	1026.32	1453.50	1847.55	2030.59	2227.22	2829.89	1735.62	577.08
Total drops	0.00	3.00	11.00	15.00	18.00	21.00	28.00	14.18	7.00
Congestion drops	0.00	2.00	11.00	14.00	17.00	20.00	24.00	13.07	6.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.12	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	12.00	1.59	2.00
Unnecessary rexmits	0.00	0.00	0.00	10.50	21.00	32.00	74.00	12.54	21.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1676.54	2135.96	2273.16	2432.87	2565.79	2660.73	3218.25	2415.64	292.64
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.68	3.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	5.00	7.00	21.00	3.21	5.00
Response time	26.84	32.47	33.91	35.72	38.01	40.09	51.53	36.18	4.09
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.09	10.87	11.93	13.24	16.20	20.24	27.43	14.43	4.26
Throughput	462.09	616.84	747.94	956.96	1056.36	1164.90	1565.73	928.29	308.42
Simultaneous throughput	245.89	313.27	333.40	356.82	376.32	390.24	472.01	354.29	42.92
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.31	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.74	11.03	11.87	12.91	13.86	15.53	18.16	13.09	1.99
Throughput	507.22	579.22	664.12	714.09	775.88	831.76	1054.21	718.15	111.76
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.34	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.31	11.64	12.55	13.45	14.63	16.82	19.62	13.85	2.08
Throughput	469.61	545.91	628.66	685.61	730.75	786.63	989.73	678.09	102.09
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.40	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.73	12.10	13.16	14.07	15.56	17.09	23.26	14.42	2.40
Throughput	396.54	539.46	581.37	655.52	697.43	754.39	858.63	650.34	116.06
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.45	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	9.86	11.13	12.20	13.38	16.14	20.72	12.58	2.24
Throughput	444.90	568.48	675.94	755.46	824.24	933.85	1201.43	756.41	148.30
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.26	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.36	9.97	11.33	12.32	13.90	16.25	19.58	12.74	2.57
Throughput	470.69	555.58	660.90	747.40	813.49	924.18	1253.01	748.85	152.60
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.58	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.65	9.83	11.19	12.36	13.40	16.54	23.60	12.65	2.22
Throughput	390.09	548.06	683.46	745.79	823.16	933.85	1205.73	757.39	139.70
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.33	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.74	9.92	10.99	12.43	13.86	15.45	25.92	12.58	2.86
Throughput	355.70	596.42	664.12	741.49	838.21	929.55	1190.69	756.66	174.09
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.38	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.48	7.41	8.49	9.85	11.24	12.63	26.26	10.21	2.75
Throughput	351.40	729.67	813.49	935.46	1075.70	1243.34	1682.87	951.96	262.21
Simultaneous throughput	178.83	227.84	242.47	259.51	273.68	283.81	343.28	257.67	31.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.16	0.00

Link with High ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6186.53	6487.12	6575.45	6712.80	6864.31	6966.74	7159.65	6717.91	288.87
Fairness of sim. thr. (F+S)	0.78	0.89	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.83	0.90	0.95	0.98	0.99	1.00	1.00	0.96	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.40	100.31	106.30	114.29	118.08	120.82	126.27	112.09	11.78
Throughput	2919.76	3049.79	3120.72	3225.49	3462.45	3672.00	4033.07	3306.81	341.73
Simultaneous throughput	1621.60	2123.54	2260.03	2481.66	2802.48	3177.48	3556.49	2565.66	542.45
Total drops	0.00	0.00	1.00	2.00	3.00	10.00	26.00	3.28	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	10.00	24.00	2.71	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.57	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.32	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.03	118.16	119.81	122.70	125.19	126.74	133.13	122.70	5.39
Throughput	2769.31	2903.64	2942.33	3004.12	3072.36	3118.57	3204.54	3006.76	130.03
Simultaneous throughput	968.90	1474.21	1757.64	2089.36	2311.38	2440.95	2827.28	2036.26	553.74
Total drops	1.00	1.00	2.00	3.00	5.00	9.00	26.00	4.83	3.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	9.00	26.00	3.48	2.00

Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.35	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.49	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	22.00	1.28	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1168.57	1629.83	1780.19	1937.77	2113.11	2282.11	2828.38	1958.60	332.92
Total drops	0.00	0.00	1.00	5.00	13.00	18.00	29.00	7.47	12.00
Congestion drops	0.00	0.00	1.00	5.00	12.00	18.00	29.00	7.31	11.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.17	0.00
Spurious RTOs	0.00	0.00	1.00	3.00	4.00	6.00	8.00	2.93	3.00
Unnecessary rexmits	0.00	0.00	3.00	6.00	10.00	15.00	25.00	7.26	7.00
Response time	30.54	37.86	40.90	44.64	48.35	52.48	74.07	45.06	7.45
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.62	13.73	15.83	19.00	23.22	27.70	38.51	20.10	7.39
Throughput	328.84	449.19	539.46	667.34	799.52	914.51	1317.49	682.80	260.06
Simultaneous throughput	171.39	239.04	261.09	284.21	309.92	334.71	414.83	287.26	48.83
Total drops	0.00	0.00	0.00	1.00	2.00	5.00	9.00	1.53	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	5.00	9.00	1.52	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.36	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.91	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.95	11.78	13.11	14.68	16.99	21.58	51.69	15.92	3.88
Throughput	178.39	420.18	538.39	627.58	700.66	781.25	1029.49	620.13	162.27
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	8.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	8.00	0.96	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.65	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.30	12.13	13.44	15.07	17.68	22.04	39.28	16.25	4.25
Throughput	234.27	415.88	520.12	611.46	675.94	753.31	990.81	600.87	155.82
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.24	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.23	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.36	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.83	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.59	12.35	13.75	16.48	19.77	24.48	44.14	17.81	6.02
Throughput	208.48	376.12	465.31	558.81	660.90	728.60	961.79	561.32	195.58
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	7.00	1.94	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	5.00	7.00	1.93	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	6.00	0.93	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.03	11.14	12.17	14.09	16.30	24.93	30.13	15.61	4.13
Throughput	306.27	362.15	550.21	653.91	751.16	816.72	1147.70	643.84	200.96
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.38	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	7.00	0.76	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.10	11.31	12.24	13.73	15.53	17.93	28.19	14.54	3.29
Throughput	326.69	479.28	589.97	671.10	751.16	813.49	1136.96	666.92	161.19
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.42	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.39	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.82	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.68	11.74	12.59	14.17	15.65	18.91	27.22	14.78	3.06
Throughput	338.51	482.51	587.82	650.69	728.60	783.40	1061.73	652.78	140.78
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.53	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.48	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.69	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.03	11.68	12.60	13.91	15.23	16.76	28.29	14.28	2.63
Throughput	325.61	548.06	599.64	662.51	727.52	787.70	918.81	662.86	127.88
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.38	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.94	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.86	9.92	10.83	12.45	14.23	15.40	22.32	12.67	3.40
Throughput	412.66	592.12	648.00	739.88	840.36	906.99	1173.49	750.46	192.36
Simultaneous throughput	124.65	173.85	189.89	206.70	225.40	243.43	301.69	208.92	35.51
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.73	1.00

Link with High ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6251.93	6487.13	6555.96	6678.46	6797.01	6937.69	7196.49	6690.15	241.05
Fairness of sim. thr. (F+S)	0.79	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.85	0.94	0.96	0.98	0.99	1.00	1.00	0.98	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	95.43	102.29	109.53	114.34	117.64	120.60	125.04	113.21	8.12
Throughput	2948.78	3049.79	3129.31	3223.88	3365.73	3563.46	3863.28	3267.42	236.42
Simultaneous throughput	1552.66	1938.56	2159.97	2343.48	2624.59	2882.83	3199.88	2384.80	464.63
Total drops	0.00	0.00	1.00	1.00	3.00	7.00	27.00	3.04	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	7.00	27.00	2.49	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.55	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	1.00	14.00	0.51	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.46	118.68	121.11	123.33	125.46	126.87	131.75	123.20	4.35
Throughput	2798.33	2903.64	2934.81	2989.07	3042.27	3104.60	3220.66	2994.32	107.46
Simultaneous throughput	1038.18	1509.26	1715.41	1945.49	2161.67	2357.24	2741.79	1945.82	446.25
Total drops	0.00	1.00	1.00	2.00	4.00	6.00	25.00	3.62	3.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	22.00	2.40	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.23	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.60	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	2.00	24.00	1.28	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1500.64	1892.74	1992.99	2160.52	2367.80	2609.15	2949.14	2199.94	374.80
Total drops	0.00	0.00	1.00	4.00	9.00	12.00	18.00	5.11	8.00
Congestion drops	0.00	0.00	0.00	4.00	9.00	12.00	18.00	4.97	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.14	0.00
Spurious RTOs	0.00	0.00	0.00	2.00	3.00	4.00	7.00	2.14	3.00
Unnecessary rexmits	0.00	0.00	0.00	3.00	8.00	13.00	19.00	4.83	8.00
Response time	29.29	33.06	36.45	40.36	43.48	45.53	57.57	39.98	7.02
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.55	12.75	14.95	18.11	22.57	24.73	33.51	18.96	7.62
Throughput	378.27	509.37	560.96	699.58	841.43	988.66	1481.91	718.48	280.48
Simultaneous throughput	220.09	277.60	292.31	316.88	347.28	382.67	432.54	322.66	54.97
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.32	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.27	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.57	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.37	10.69	12.36	14.15	16.49	18.25	30.31	14.70	4.12
Throughput	304.12	501.85	557.73	651.22	744.72	858.63	1101.49	660.39	186.99
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.48	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.80	11.12	12.65	14.68	16.75	19.12	30.09	15.16	4.10
Throughput	306.27	463.16	548.06	628.12	728.60	815.64	1047.76	639.15	180.54
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.02	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	0.98	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.29	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.60	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.22	11.44	12.92	15.09	18.15	21.02	30.12	15.93	5.24
Throughput	306.27	436.30	504.00	610.93	712.48	798.45	999.40	611.33	208.48
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.59	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.58	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00

Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.78	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.66	8.94	10.61	12.96	14.30	15.65	22.81	12.76	3.69
Throughput	404.06	587.82	639.40	711.40	868.30	1016.60	1383.04	761.48	228.90
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.11	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.11	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.54	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.73	9.36	10.39	12.51	14.16	16.65	30.33	12.85	3.76
Throughput	304.12	546.99	651.22	736.66	877.97	980.06	1368.00	764.19	226.75
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.21	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	5.00	0.53	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.15	9.53	10.73	12.30	14.40	16.38	27.55	12.85	3.68
Throughput	334.21	560.96	632.96	749.01	851.10	961.79	1288.48	751.67	218.15
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.14	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.39	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.20	9.33	10.95	12.48	14.02	15.49	28.50	12.64	3.07
Throughput	323.46	577.07	656.60	738.81	832.84	976.84	1485.13	759.61	176.24
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.64	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.88	7.42	9.11	10.84	12.09	13.10	25.57	10.66	2.98
Throughput	360.00	700.66	760.84	850.03	1011.22	1230.45	1888.12	913.76	250.39
Simultaneous throughput	160.07	201.89	212.59	230.46	252.56	278.31	314.58	234.66	39.98
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.30	0.00

Link with High ARQ Persistency - Enhanced TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6218.32	6546.66	6606.40	6731.55	6861.71	6936.43	7100.42	6729.48	255.31
Fairness of sim. thr. (F+S)	0.65	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.75	0.96	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	89.54	100.83	107.62	113.12	117.88	121.43	125.05	112.13	10.27
Throughput	2947.70	3034.75	3121.79	3258.81	3419.46	3616.12	4116.90	3303.90	297.67
Simultaneous throughput	1386.20	1956.48	2070.68	2274.50	2483.17	2591.57	3484.61	2295.34	412.49
Total drops	0.00	0.00	1.00	1.00	3.00	13.00	27.00	3.43	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	13.00	26.00	2.94	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.49	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.99	118.72	120.03	122.36	124.66	125.80	132.45	122.46	4.64
Throughput	2783.28	2930.51	2956.30	3012.72	3071.28	3104.60	3177.67	3012.00	114.99
Simultaneous throughput	533.81	1578.59	1733.43	1941.94	2109.65	2197.75	2680.37	1905.82	376.22
Total drops	0.00	1.00	2.00	3.00	4.00	10.00	24.00	4.42	2.00
Congestion drops	0.00	0.00	1.00	1.00	3.00	8.00	23.00	3.17	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.26	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	1.00	16.00	0.61	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1933.99	2060.19	2166.64	2277.54	2365.91	2485.82	2830.52	2284.30	199.28
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.38	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.22	2.00
Unnecessary rexmits	0.00	0.00	1.00	4.50	9.00	14.00	20.00	5.63	8.00
Response time	31.28	35.12	36.43	38.00	39.71	41.75	44.67	38.18	3.28

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.97	12.21	13.69	14.97	16.74	18.77	31.82	15.54	3.06
Throughput	398.69	674.87	751.16	846.27	923.10	1017.67	1155.22	842.79	171.94
Simultaneous throughput	283.65	302.16	317.77	334.04	347.00	364.59	415.14	335.03	29.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.09	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.65	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.31	10.03	11.15	12.25	13.29	15.28	20.14	12.49	2.14
Throughput	457.79	598.57	689.91	752.24	825.31	915.58	989.73	755.70	135.40
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.21	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.51	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.04	10.95	12.08	12.86	13.84	15.12	25.77	13.08	1.76
Throughput	357.85	600.72	664.12	716.24	762.99	840.36	917.73	716.71	98.87
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.70	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.68	11.86	12.72	13.60	15.01	16.55	23.90	14.02	2.29
Throughput	385.79	556.66	610.39	678.09	715.70	774.81	952.12	669.59	105.31
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.09	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	1.01	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.61	10.91	11.58	12.52	13.69	14.74	17.15	12.70	2.11
Throughput	537.31	623.28	671.64	736.12	794.15	843.58	1070.33	737.69	122.51
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.63	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.51	10.62	11.47	12.50	13.52	14.75	29.73	12.67	2.05
Throughput	310.57	622.21	678.09	737.19	800.60	855.40	969.31	743.21	122.51
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.43	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.23	10.69	11.65	12.52	13.51	14.63	19.93	12.67	1.86
Throughput	462.09	625.43	681.31	736.12	785.55	858.63	1119.76	740.10	104.24
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.53	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.63	10.77	11.88	12.65	14.01	15.29	19.44	12.95	2.13
Throughput	473.91	598.57	657.67	728.60	775.88	850.03	1067.10	724.91	118.21
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.29	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.76	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.85	8.75	9.60	10.71	11.50	12.25	14.39	10.68	1.89
Throughput	640.48	747.94	800.60	860.78	946.75	1040.24	1173.49	877.51	146.15
Simultaneous throughput	206.29	219.75	231.11	242.94	252.36	265.15	301.92	243.66	21.26
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.19	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.42	0.00

Link with High ARQ Persistency - Enhanced TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6018.86	6380.04	6519.34	6659.28	6778.45	6910.60	7092.50	6649.81	259.12
Fairness of sim. thr. (F+S)	0.82	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.88	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.32	105.78	109.00	112.62	117.11	120.97	125.94	112.98	8.11
Throughput	2927.28	3045.49	3142.21	3273.31	3375.40	3481.79	3788.06	3272.09	233.19
Simultaneous throughput	1478.88	1914.34	2078.14	2235.84	2402.46	2562.12	3189.10	2244.98	324.33
Total drops	0.00	0.00	0.00	1.00	2.00	7.00	24.00	2.58	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	6.00	23.00	2.10	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.48	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	1.00	13.00	0.45	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	116.13	119.17	121.44	123.68	126.23	128.81	136.84	123.98	4.79
Throughput	2694.09	2855.28	2917.61	2980.48	3033.67	3092.78	3174.45	2976.25	116.06
Simultaneous throughput	1026.94	1500.89	1779.14	1960.06	2181.22	2351.89	2676.50	1951.22	402.08
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	18.00	2.91	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	17.00	1.88	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.03	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.70	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	2.00	15.00	1.22	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1906.55	2092.16	2213.79	2335.99	2436.89	2630.39	3059.42	2346.93	223.10
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.36	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.12	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.24	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	8.00	1.87	3.00
Unnecessary rexmits	0.00	0.00	0.00	3.50	7.00	13.00	29.00	4.75	7.00
Response time	28.20	32.83	35.44	37.34	39.02	41.23	46.04	37.16	3.58
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.69	11.85	13.05	14.99	16.07	17.92	32.65	15.25	3.02
Throughput	387.94	698.51	787.70	845.19	953.19	1067.10	1307.82	867.48	165.49
Simultaneous throughput	279.63	306.85	324.69	342.61	357.41	385.79	448.71	344.22	32.72
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.04	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	9.00	0.57	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.06	10.17	10.92	11.99	12.82	14.29	16.88	12.10	1.90
Throughput	545.91	638.33	712.48	768.90	837.13	905.91	1017.67	774.04	124.66
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.43	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.59	10.92	11.72	12.67	13.57	14.57	18.29	12.80	1.85
Throughput	504.00	622.21	677.01	726.99	781.25	842.51	960.72	730.99	104.24
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.50	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.15	11.86	12.88	13.65	14.38	16.01	19.50	13.71	1.50
Throughput	472.84	568.48	639.40	675.40	715.70	775.88	1008.00	681.30	76.30
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.80	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.23	10.02	11.11	12.59	14.04	15.21	23.69	12.74	2.93
Throughput	389.01	589.97	652.30	731.28	819.94	914.51	1119.76	744.09	167.64
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.40	0.00

HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.09	9.96	11.33	12.61	13.68	14.57	28.63	12.58	2.35
Throughput	321.31	630.81	670.57	730.75	811.34	908.06	1299.22	755.12	140.78
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.53	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.38	10.26	11.54	12.50	13.30	15.12	19.12	12.56	1.76
Throughput	481.43	605.01	692.06	737.19	797.37	895.16	1248.72	750.14	105.31
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.45	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	10.65	11.51	12.37	13.24	14.73	18.33	12.58	1.73
Throughput	502.93	623.28	689.91	744.72	799.52	862.93	1201.43	744.74	109.61
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.63	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.23	7.93	8.95	10.31	11.20	12.13	16.19	10.10	2.25
Throughput	569.55	755.46	823.16	894.63	1029.49	1149.85	2179.34	947.66	206.33
Simultaneous throughput	203.37	223.16	236.14	249.17	259.94	280.58	326.34	250.34	23.80
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.44	0.00

Link with Medium ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5119.31	5820.06	6119.97	6466.54	6753.28	6981.59	7203.78	6424.23	633.31
Fairness of sim. thr. (F+S)	0.63	0.87	0.93	0.97	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.69	0.88	0.93	0.97	0.99	0.99	1.00	0.95	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.48	98.56	106.45	111.93	118.11	122.22	136.13	111.88	11.67
Throughput	2708.06	3012.18	3118.57	3293.19	3462.45	3736.48	4029.85	3316.67	343.88
Simultaneous throughput	778.01	1837.90	2242.83	2552.52	2817.81	3122.10	4306.09	2533.92	574.98
Total drops	3.00	10.00	14.00	21.00	27.00	32.00	43.00	20.97	13.00
Congestion drops	0.00	0.00	2.00	11.50	17.00	19.00	25.00	10.12	15.00
Error drops	2.00	7.00	8.00	10.00	13.00	16.00	21.00	10.84	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	7.00	20.00	1.62	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.34	117.92	121.79	127.37	134.35	140.80	160.89	128.79	12.56
Throughput	2291.10	2604.90	2739.22	2893.97	3022.93	3125.01	3223.88	2875.33	283.70
Simultaneous throughput	573.90	1325.99	1656.21	1984.38	2197.67	2594.24	3256.57	1952.12	541.46
Total drops	7.00	11.00	14.00	20.00	28.00	32.00	35.00	21.32	14.00
Congestion drops	0.00	0.00	1.00	6.50	15.00	18.00	25.00	8.29	14.00
Error drops	4.00	9.00	11.00	13.00	15.00	18.00	25.00	13.02	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.03	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	7.00	14.00	40.00	4.72	7.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1487.61	1743.73	1958.22	2198.80	2471.36	2880.77	3429.29	2249.50	513.14
Total drops	0.00	1.00	3.00	6.00	10.00	13.00	18.00	6.68	7.00
Congestion drops	0.00	0.00	0.00	2.00	7.00	9.00	14.00	3.68	7.00
Error drops	0.00	0.00	1.00	3.00	5.00	6.00	14.00	3.00	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.42	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	13.00	2.32	4.00
Response time	25.50	30.39	34.64	39.46	44.29	48.89	58.08	39.85	9.65
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.19	10.07	11.80	17.77	22.62	27.04	41.73	18.35	10.82
Throughput	304.12	462.09	553.43	713.01	1068.18	1235.82	2047.16	805.41	514.75
Simultaneous throughput	218.18	255.75	287.21	322.49	362.47	422.51	502.96	329.93	75.26
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	7.00	1.57	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.17	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.38	0.00

HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.60	10.43	12.04	14.29	18.03	21.43	39.47	15.50	5.99
Throughput	233.19	415.88	507.22	644.78	761.91	879.04	1395.94	651.11	254.69
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.82	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.48	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.29	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.04	10.59	12.39	15.43	20.84	24.24	37.61	16.82	8.45
Throughput	245.01	375.04	439.52	596.96	738.27	870.45	1309.97	610.06	298.75
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.79	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.37	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.31	10.82	12.53	15.49	21.62	25.35	38.79	17.30	9.09
Throughput	237.49	356.78	420.18	594.81	728.60	837.13	1261.61	596.09	308.42
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.28	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.92	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.36	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.21	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.71	7.84	9.59	11.22	14.46	17.59	26.36	12.34	4.87
Throughput	349.25	523.34	637.25	821.01	957.49	1171.34	1614.09	822.55	320.24
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.34	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.31	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.56	8.69	9.88	11.09	12.92	16.77	29.96	12.17	3.04
Throughput	307.34	537.31	708.18	831.76	931.70	1058.51	1404.54	820.85	223.52
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.36	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.29	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.28	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.89	8.62	10.01	11.54	13.55	18.03	25.55	12.48	3.55
Throughput	361.07	501.85	678.09	798.99	918.81	1061.73	1336.84	796.42	240.72
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.16	8.91	10.25	12.02	14.50	17.46	28.29	12.78	4.25
Throughput	325.61	495.40	621.13	766.75	872.60	1027.34	1495.88	775.22	251.46
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.54	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.21	7.51	8.87	10.54	12.53	15.44	21.55	11.04	3.67
Throughput	427.70	570.63	735.04	874.21	1037.01	1185.31	1767.76	907.19	301.97
Simultaneous throughput	158.68	186.00	208.88	234.54	263.61	307.28	365.79	239.95	54.73
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00

Link with Medium ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5044.35	5763.11	6054.56	6424.54	6685.93	6895.31	7201.53	6371.94	631.37
Fairness of sim. thr. (F+S)	0.66	0.83	0.92	0.98	1.00	1.00	1.00	0.95	0.08
Fairness of sim. thr. (all)	0.70	0.87	0.92	0.96	0.99	1.00	1.00	0.95	0.06

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	81.38	97.41	105.68	113.09	120.28	124.65	139.27	112.46	14.61
Throughput	2646.81	2947.70	3059.46	3259.88	3487.16	3768.72	4530.63	3310.93	427.70
Simultaneous throughput	1346.46	1816.96	2112.48	2477.98	2813.70	3224.50	4311.85	2500.60	701.21
Total drops	5.00	10.00	14.00	21.00	28.00	32.00	36.00	21.13	14.00
Congestion drops	0.00	0.00	1.00	12.00	17.00	20.00	24.00	10.25	16.00
Error drops	2.00	5.00	8.00	10.00	14.00	17.00	21.00	10.88	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.46	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	7.00	22.00	2.02	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.37	119.27	122.90	128.20	135.62	141.98	163.29	129.84	12.73
Throughput	2257.79	2579.10	2710.21	2875.16	2992.84	3086.33	3222.81	2851.91	282.63
Simultaneous throughput	710.33	1148.49	1468.50	1885.02	2175.89	2420.00	2899.50	1838.34	707.39
Total drops	7.00	11.00	14.00	19.00	26.00	30.00	41.00	20.00	12.00
Congestion drops	0.00	0.00	0.00	7.50	14.00	17.00	23.00	7.79	14.00
Error drops	3.00	8.00	10.00	12.00	15.00	16.00	24.00	12.21	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	8.00	1.48	3.00
Unnecessary rexmits	0.00	0.00	0.00	5.00	13.00	19.00	34.00	7.23	13.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1462.38	1820.27	2060.35	2331.43	2540.59	2908.41	3482.23	2346.69	480.24
Total drops	0.00	1.00	3.00	5.00	9.00	13.00	20.00	6.14	6.00
Congestion drops	0.00	0.00	0.00	2.00	5.00	9.00	14.00	3.10	5.00
Error drops	0.00	1.00	1.00	3.00	4.00	6.00	13.00	3.04	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.58	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	7.00	13.00	2.73	3.00
Response time	24.81	29.91	34.00	37.31	42.02	46.22	59.05	37.98	8.02

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.15	9.78	11.84	17.34	22.47	26.99	44.73	17.85	10.64
Throughput	283.70	468.54	563.10	731.28	1067.10	1263.76	1772.06	835.67	504.00
Simultaneous throughput	214.48	266.97	302.19	341.94	372.62	426.57	510.73	344.18	70.43
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.44	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.04	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.22	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.69	10.27	11.68	14.39	18.64	22.31	35.07	15.51	6.96
Throughput	263.28	404.06	492.18	640.48	785.55	887.64	1376.60	653.67	293.37
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.80	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.47	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.12	10.42	12.29	14.41	18.58	24.44	30.30	15.90	6.29
Throughput	304.12	377.19	486.81	639.94	747.94	866.15	1293.85	638.47	261.13
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.94	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.61	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.33	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.38	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.40	10.29	12.43	15.36	19.55	22.29	34.33	16.23	7.12
Throughput	268.66	407.28	470.69	600.18	737.19	883.34	1245.49	623.19	266.51
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.80	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.19	7.64	9.98	11.82	14.00	15.96	26.37	12.17	4.02
Throughput	349.25	569.55	655.52	779.64	915.58	1198.21	1489.43	817.72	260.06
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.46	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.49	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.09	7.74	9.06	10.74	12.54	14.82	24.66	11.34	3.48
Throughput	373.97	620.06	733.97	857.55	1014.45	1163.82	1513.07	875.64	280.48
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.34	8.10	9.47	10.79	12.60	15.54	32.41	11.66	3.13
Throughput	284.78	568.48	726.45	854.33	966.09	1138.03	1452.90	851.72	239.64
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.29	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.29	8.15	9.52	10.76	12.15	14.59	22.63	11.28	2.64
Throughput	407.28	593.19	756.54	857.01	966.09	1129.43	1464.72	868.16	209.55
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.04	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.23	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.59	6.21	8.09	9.87	11.47	13.81	20.20	10.22	3.38
Throughput	456.72	651.22	799.52	933.85	1133.73	1464.72	2006.33	987.22	334.21
Simultaneous throughput	155.99	194.16	219.77	248.69	271.00	310.23	371.44	250.31	51.23
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.29	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00

Link with Medium ARQ Persistency - Baseline TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4871.52	5714.62	6053.50	6439.69	6675.04	6878.60	7215.46	6357.78	621.54
Fairness of sim. thr. (F+S)	0.63	0.80	0.93	0.97	0.99	1.00	1.00	0.94	0.07
Fairness of sim. thr. (all)	0.75	0.86	0.94	0.97	0.99	1.00	1.00	0.95	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	81.23	94.12	106.30	113.22	118.76	125.22	135.64	112.02	12.46
Throughput	2717.73	2941.25	3103.52	3256.12	3450.63	3833.19	4538.15	3324.60	347.10
Simultaneous throughput	1170.91	1813.93	2103.56	2399.91	2751.83	3267.88	3866.09	2479.62	648.27
Total drops	3.00	10.00	14.00	20.50	27.00	32.00	45.00	20.68	13.00
Congestion drops	0.00	0.00	0.00	10.00	16.00	21.00	31.00	9.63	16.00
Error drops	1.00	6.00	8.00	11.00	14.00	17.00	19.00	11.04	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	4.00	10.00	25.00	2.73	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.14	119.64	123.24	127.90	136.02	143.59	169.08	130.27	12.77
Throughput	2180.42	2557.61	2709.13	2882.15	2987.46	3078.81	3229.25	2845.59	278.33
Simultaneous throughput	485.32	1212.99	1502.59	1843.25	2220.21	2432.05	2994.19	1832.04	717.62
Total drops	6.00	11.00	14.00	19.00	26.00	32.00	41.00	20.35	12.00
Congestion drops	0.00	0.00	0.00	4.00	15.00	18.00	24.00	7.42	15.00
Error drops	5.00	7.00	10.00	13.00	15.00	19.00	26.00	12.93	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	10.00	1.19	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	10.00	18.00	38.00	6.03	10.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1774.43	2104.38	2242.87	2369.63	2535.40	2705.31	3152.71	2402.59	292.53
Total drops	0.00	1.00	2.00	3.00	5.00	6.00	10.00	3.42	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	1.00	2.00	3.00	5.00	6.00	10.00	3.42	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	6.00	11.00	2.22	4.00
Response time	27.73	31.46	34.07	36.59	38.62	40.43	48.69	36.50	4.55
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.48	10.26	11.40	12.89	17.14	19.66	71.47	14.75	5.74
Throughput	177.31	625.43	738.27	983.28	1111.16	1210.03	1493.73	946.49	372.90
Simultaneous throughput	260.25	308.64	328.95	347.55	371.86	396.78	462.40	352.38	42.90
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.52	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.52	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.37	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.32	9.93	11.03	11.97	14.23	16.35	26.72	12.87	3.20
Throughput	344.96	560.96	639.40	769.43	833.91	917.73	1457.19	751.29	194.51
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00

HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.95	10.47	11.89	12.56	14.02	15.76	26.49	13.16	2.13
Throughput	348.18	578.15	652.30	733.97	772.66	872.60	1158.45	723.24	120.36
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.21	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.21	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.16	11.11	12.10	13.16	14.47	16.31	26.42	13.62	2.37
Throughput	349.25	564.18	634.03	700.66	759.76	828.54	1128.36	695.72	125.73
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.35	9.47	10.45	11.84	14.95	18.29	32.04	13.20	4.50
Throughput	288.00	501.85	614.69	778.57	877.97	967.16	1254.09	752.61	263.28
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.21	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.34	9.51	10.78	11.89	14.32	16.91	28.72	12.95	3.54
Throughput	321.31	536.24	642.63	774.81	855.40	941.37	1256.24	756.39	212.78
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.39	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.39	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.33	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.58	9.58	10.69	12.20	14.10	16.57	25.44	12.98	3.41
Throughput	362.15	537.31	644.78	754.93	861.85	944.60	1215.40	752.04	217.07
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.41	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.41	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.48	9.56	10.49	11.73	13.57	16.93	23.30	12.56	3.07
Throughput	395.46	525.49	660.90	786.09	877.97	957.49	1421.73	776.18	217.07
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.20	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.52	7.64	8.94	10.39	11.71	13.26	23.73	10.50	2.77
Throughput	387.94	695.28	783.40	887.10	1029.49	1193.91	2039.64	924.81	246.09
Simultaneous throughput	189.27	224.47	239.24	252.76	270.44	288.57	336.29	256.28	31.20
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.43	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.43	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00

Link with Medium ARQ Persistency - Baseline TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4963.41	5818.78	5991.63	6370.72	6651.05	6883.99	7147.10	6328.51	659.42
Fairness of sim. thr. (F+S)	0.61	0.83	0.93	0.98	1.00	1.00	1.00	0.95	0.07
Fairness of sim. thr. (all)	0.72	0.88	0.92	0.96	0.98	0.99	1.00	0.94	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.08	99.83	109.53	114.83	121.18	126.77	139.84	114.63	11.65
Throughput	2636.06	2892.90	3033.67	3210.45	3360.36	3647.28	4185.67	3240.02	326.69
Simultaneous throughput	1118.20	1778.99	1932.50	2247.31	2592.18	2943.17	3977.72	2313.87	659.69
Total drops	4.00	10.00	13.00	21.50	28.00	32.00	43.00	21.18	15.00
Congestion drops	0.00	0.00	1.00	12.50	17.00	20.00	25.00	10.37	16.00
Error drops	3.00	6.00	8.00	10.00	13.00	16.00	23.00	10.82	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	5.00	11.00	24.00	3.15	5.00

Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.24	119.14	123.70	129.28	136.94	141.07	165.94	130.79	13.24
Throughput	2221.25	2604.90	2681.19	2851.52	2976.72	3080.96	3199.16	2832.47	295.52
Simultaneous throughput	422.75	1131.12	1425.30	1730.34	2050.88	2388.28	2847.08	1745.69	625.59
Total drops	4.00	10.00	14.00	18.50	25.00	28.00	37.00	19.31	11.00
Congestion drops	0.00	0.00	0.00	4.00	13.00	16.00	24.00	6.97	13.00
Error drops	3.00	8.00	10.00	12.00	15.00	17.00	24.00	12.34	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	9.00	1.37	2.00
Unnecessary rexmits	0.00	0.00	0.00	4.00	12.00	21.00	46.00	7.17	12.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1825.79	2254.30	2363.23	2550.89	2764.83	3010.09	3602.86	2585.45	401.60
Total drops	0.00	0.00	1.00	3.00	4.00	6.00	11.00	2.95	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	1.00	3.00	4.00	6.00	11.00	2.95	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	17.00	2.07	3.00
Response time	23.98	28.38	31.32	33.88	36.79	38.32	47.32	34.04	5.47

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.32	9.23	10.58	12.12	16.01	18.96	27.58	13.45	5.44
Throughput	459.94	665.19	743.64	1045.61	1197.13	1370.15	2005.25	1022.01	453.49
Simultaneous throughput	267.78	330.63	346.61	374.13	405.51	441.48	528.42	379.20	58.90
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.42	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.23	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.94	9.60	10.55	11.78	13.67	16.23	25.93	12.55	3.12
Throughput	355.70	560.96	666.27	781.79	866.15	949.97	1328.24	774.16	199.88
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.36	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.36	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.23	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.20	9.80	11.09	12.47	14.80	17.04	27.25	13.42	3.71
Throughput	338.51	467.46	620.06	739.34	830.69	929.55	1280.96	733.04	210.63
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.22	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.48	9.96	11.40	12.76	14.92	18.07	33.53	13.65	3.52
Throughput	275.10	487.88	615.76	722.69	808.12	912.36	1232.60	720.13	192.36
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.19	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.26	8.84	10.05	11.38	12.58	15.43	18.20	11.61	2.53
Throughput	506.15	596.42	722.15	810.27	913.43	1034.87	1751.64	834.41	191.28
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.23	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.63	8.31	9.59	10.85	12.19	15.15	23.15	11.31	2.60
Throughput	397.61	602.87	751.16	849.49	960.72	1107.94	1989.13	870.00	209.55
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.82	9.13	10.05	11.20	12.97	15.37	24.53	11.87	2.92
Throughput	376.12	599.64	708.18	822.63	913.43	1005.85	1584.00	820.77	205.25
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.26	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.87	8.33	9.75	11.39	12.79	14.58	19.74	11.48	3.04
Throughput	467.46	628.66	720.00	809.19	939.22	1085.37	1568.96	843.30	219.22
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.36	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.36	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.50	6.81	7.90	9.63	10.82	13.11	23.79	9.86	2.92
Throughput	386.87	688.84	842.51	956.96	1161.67	1316.42	2049.31	1009.55	319.16
Simultaneous throughput	194.75	240.46	252.08	272.10	294.91	321.08	384.31	275.78	42.84
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.19	0.00

Link with Medium ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5441.37	5912.43	6171.58	6467.87	6655.38	6827.29	7201.22	6419.27	483.80
Fairness of sim. thr. (F+S)	0.79	0.93	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.65	0.86	0.92	0.96	0.98	0.99	1.00	0.94	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.14	103.58	109.81	116.93	121.30	125.29	136.08	115.67	11.49
Throughput	2709.13	2938.03	3039.04	3152.42	3349.61	3529.07	3795.58	3203.90	310.57
Simultaneous throughput	842.80	1605.39	1851.43	2145.49	2427.11	2735.54	3766.83	2167.72	575.68
Total drops	3.00	6.00	7.00	10.00	14.00	17.00	30.00	11.23	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	21.00	1.13	0.00
Error drops	3.00	6.00	7.00	10.00	13.00	15.00	19.00	10.10	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.68	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	7.00	18.00	2.25	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.37	120.02	123.74	127.34	133.20	137.70	151.37	128.71	9.46
Throughput	2435.10	2645.73	2761.79	2895.04	2978.87	3055.16	3222.81	2873.05	217.07
Simultaneous throughput	919.44	1276.41	1487.67	1823.40	2082.56	2286.24	2794.89	1815.76	594.89
Total drops	5.00	9.00	11.00	13.00	16.00	19.00	28.00	13.62	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	17.00	0.85	0.00
Error drops	5.00	8.00	10.00	12.00	15.00	18.00	23.00	12.77	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.20	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	9.00	19.00	3.55	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1710.34	2241.41	2376.95	2732.11	3051.18	3187.85	4078.08	2722.38	674.22
Total drops	0.00	0.00	2.00	3.00	6.00	9.00	25.00	4.42	4.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	23.00	1.34	1.00
Error drops	0.00	0.00	1.00	3.00	4.00	6.00	12.00	3.08	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.30	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	5.00	8.00	18.00	3.19	5.00
Response time	21.18	26.98	28.36	31.62	35.77	38.54	50.51	32.59	7.41

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.79	9.18	10.48	12.42	15.94	20.73	31.83	13.78	5.46
Throughput	397.61	610.39	794.15	1020.36	1201.43	1373.37	1625.91	1011.40	407.28
Simultaneous throughput	250.85	328.74	348.62	400.71	447.51	467.55	598.12	399.28	98.89
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.47	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.53	8.02	9.16	10.54	12.89	18.01	28.15	11.96	3.73
Throughput	327.76	479.28	714.63	874.75	1005.85	1131.58	1410.99	850.87	291.22
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.59	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.24	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.35	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.24	8.15	9.45	11.22	12.75	15.95	43.67	12.10	3.30
Throughput	210.63	569.55	709.25	821.55	974.69	1125.13	1273.43	838.27	265.43
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.26	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.39	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00

HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	8.56	9.87	11.36	12.88	18.45	24.58	12.23	3.01
Throughput	375.04	495.40	714.63	810.81	932.78	1071.40	1315.34	809.32	218.15
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.61	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.26	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.49	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.86	7.96	9.61	11.21	13.12	15.12	25.65	11.86	3.52
Throughput	358.93	591.04	701.73	822.09	955.34	1114.39	1572.18	840.67	253.61
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.35	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.43	8.34	9.49	11.08	12.56	15.08	22.58	11.32	3.07
Throughput	408.36	609.31	723.22	832.30	970.39	1093.97	2079.40	869.51	247.16
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.33	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.16	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.38	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.36	7.77	9.42	11.11	12.71	15.38	25.26	11.62	3.29
Throughput	364.30	597.49	722.15	829.61	977.91	1174.57	1448.60	855.87	255.76
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.41	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.48	7.77	9.29	10.82	12.24	15.26	24.41	11.38	2.96
Throughput	377.19	598.57	749.01	851.64	987.58	1186.39	1680.72	869.51	238.57
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.42	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.38	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.61	6.00	7.35	8.88	10.13	11.71	19.19	8.94	2.78
Throughput	480.36	776.96	910.21	1037.01	1250.87	1518.45	2552.24	1105.51	340.66
Simultaneous throughput	182.44	239.08	253.54	291.43	325.46	340.04	434.99	290.39	71.92
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.19	0.00

Link with Medium ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5450.92	5951.22	6214.40	6445.60	6621.76	6851.44	7183.82	6424.25	407.37
Fairness of sim. thr. (F+S)	0.78	0.89	0.95	0.98	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.76	0.88	0.92	0.96	0.98	0.99	1.00	0.94	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.24	103.92	110.76	115.85	120.68	125.20	138.48	115.35	9.92
Throughput	2661.85	2942.33	3049.79	3181.97	3327.04	3538.75	3911.64	3212.69	277.25
Simultaneous throughput	1226.52	1554.91	1836.26	2213.71	2497.47	2755.58	3462.84	2185.23	661.22
Total drops	2.00	5.00	8.00	11.00	14.00	17.00	34.00	11.56	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	20.00	1.26	0.00
Error drops	2.00	5.00	8.00	10.00	13.00	15.00	19.00	10.30	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.59	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	6.00	15.00	2.01	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.65	119.55	124.35	127.79	132.34	137.98	151.11	128.58	8.00
Throughput	2439.40	2664.00	2781.13	2884.84	2963.82	3066.99	3215.28	2875.33	182.69
Simultaneous throughput	673.05	1254.56	1527.84	1758.04	2018.04	2357.78	2872.21	1793.05	490.20
Total drops	4.00	8.00	10.00	13.00	16.00	19.00	29.00	13.20	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	16.00	0.74	0.00
Error drops	3.00	8.00	10.00	12.00	15.00	18.00	21.00	12.46	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.10	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	5.00	9.00	22.00	3.63	5.00

HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1705.19	2213.10	2404.45	2693.00	2926.27	3261.95	4125.61	2704.31	521.82
Total drops	0.00	0.00	2.00	3.00	6.00	9.00	16.00	4.28	4.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	5.00	14.00	1.37	1.00
Error drops	0.00	0.00	1.00	3.00	4.00	6.00	11.00	2.91	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.18	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	5.00	9.00	16.00	3.10	5.00
Response time	20.94	26.48	29.57	32.08	35.62	38.74	50.67	32.69	6.05

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.41	9.35	10.91	13.02	15.84	19.61	33.18	14.11	4.93
Throughput	381.49	628.66	799.52	973.07	1149.85	1354.03	1975.16	986.36	350.33
Simultaneous throughput	250.10	324.59	352.65	394.97	429.19	478.42	605.09	396.63	76.53
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.36	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.94	8.23	9.45	10.80	12.34	14.77	29.39	11.53	2.89
Throughput	313.79	612.54	744.72	852.72	959.64	1092.90	1551.76	854.88	214.93
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.42	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.17	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	8.79	9.72	11.09	12.59	14.98	26.21	11.77	2.87
Throughput	351.40	612.54	717.85	830.69	942.45	1042.39	1431.40	831.20	224.60
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.36	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.86	9.18	10.15	11.93	13.20	16.15	25.76	12.30	3.05
Throughput	357.85	545.91	695.28	772.66	903.76	1001.55	1343.28	793.20	208.48
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.68	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.38	7.40	9.32	10.99	12.57	15.15	21.85	11.33	3.25
Throughput	422.33	599.64	731.82	838.21	977.91	1205.73	2103.04	875.38	246.09
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.39	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.53	7.64	8.71	10.96	12.34	14.99	38.59	11.47	3.62
Throughput	238.57	555.58	746.87	841.43	1042.39	1200.36	1666.75	885.16	295.52
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.18	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.67	8.06	9.38	10.70	12.76	15.65	29.49	11.49	3.37
Throughput	312.72	585.67	718.93	861.31	981.13	1127.28	1381.97	861.93	262.21
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.31	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.42	8.24	9.17	10.84	12.75	14.62	27.44	11.44	3.58
Throughput	336.36	625.43	716.78	850.03	995.10	1111.16	1701.13	862.52	278.33
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.44	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.14	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	5.00	0.62	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.54	6.57	8.09	9.19	10.33	11.37	21.40	9.21	2.24
Throughput	430.93	801.67	890.87	1003.16	1136.96	1359.40	2605.97	1059.45	246.09
Simultaneous throughput	181.89	236.06	256.47	287.25	312.14	347.94	440.06	288.46	55.66
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.31	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00

Link with Medium ARQ Persistency - Enhanced TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5646.99	5919.35	6182.30	6440.72	6652.26	6817.66	7125.44	6415.48	469.96
Fairness of sim. thr. (F+S)	0.68	0.88	0.96	0.98	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.75	0.88	0.92	0.96	0.98	0.99	1.00	0.94	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	93.79	100.82	107.92	114.41	120.46	124.47	136.29	113.98	12.53
Throughput	2704.84	2954.15	3050.87	3222.27	3411.94	3651.58	3930.99	3255.35	361.07
Simultaneous throughput	967.62	1564.31	1871.69	2249.56	2517.50	2811.54	3837.06	2231.49	645.81
Total drops	3.00	6.00	8.00	10.50	13.00	16.00	32.00	11.03	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.99	0.00
Error drops	3.00	6.00	8.00	10.00	12.00	14.00	19.00	10.03	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.66	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	7.00	17.00	2.32	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.60	120.70	123.61	127.88	132.98	138.95	145.85	128.74	9.36
Throughput	2527.52	2648.96	2767.16	2882.15	2977.79	3051.94	3189.49	2871.37	210.63
Simultaneous throughput	730.49	1253.13	1514.73	1782.94	1988.47	2179.73	3337.29	1767.13	473.74
Total drops	4.00	9.00	11.00	12.00	15.00	19.00	35.00	13.53	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	22.00	1.11	0.00
Error drops	4.00	8.00	10.00	12.00	14.00	17.00	35.00	12.43	4.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	3.00	5.00	1.27	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	9.00	17.00	3.30	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2015.93	2349.69	2483.57	2742.86	2941.16	3192.21	3867.82	2748.40	457.59
Total drops	0.00	0.00	1.00	3.00	4.00	6.00	12.00	3.01	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.03	0.00
Error drops	0.00	0.00	1.00	3.00	4.00	6.00	12.00	2.98	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	7.00	20.00	2.79	4.00
Response time	22.08	27.31	29.32	31.86	34.37	36.60	42.86	31.96	5.05
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.09	9.79	10.99	13.04	14.87	16.91	34.79	13.47	3.88
Throughput	364.30	735.04	846.81	972.00	1152.00	1277.73	1565.73	994.90	305.19
Simultaneous throughput	295.67	344.62	364.26	402.29	431.37	468.19	567.28	403.10	67.11
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.43	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.93	8.25	9.30	10.60	11.82	13.15	19.96	10.69	2.52
Throughput	462.09	698.51	779.10	869.91	989.73	1103.64	1554.99	896.76	210.63
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.19	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.50	8.75	9.87	10.91	11.88	13.21	30.30	11.29	2.02
Throughput	304.12	674.87	773.73	845.19	928.48	1053.13	1418.51	856.53	154.75
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.36	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.21	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.90	9.40	10.43	11.61	12.86	14.35	26.36	12.13	2.43
Throughput	349.25	641.55	716.78	793.61	883.34	970.39	1336.84	800.60	166.57
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.39	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.19	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.47	0.00

HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.91	7.94	9.41	10.83	12.30	13.56	21.30	11.03	2.89
Throughput	433.07	679.16	746.87	851.64	967.16	1156.30	1558.21	877.62	220.30
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.80	7.92	9.74	10.85	12.19	14.01	23.78	11.05	2.45
Throughput	387.94	657.67	755.46	849.49	945.67	1147.70	1589.37	874.35	190.21
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.69	8.53	9.69	10.48	11.83	13.19	20.86	10.91	2.14
Throughput	441.67	697.43	775.88	879.04	951.04	1072.48	1376.60	876.23	175.16
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.39	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.97	8.50	9.53	10.46	11.91	13.70	25.81	11.09	2.38
Throughput	356.78	668.42	765.13	881.19	962.87	1080.00	1544.24	870.06	197.73
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.34	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.34	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.38	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.67	6.14	7.64	8.64	10.16	11.43	20.14	9.08	2.52
Throughput	457.79	766.21	903.76	1066.57	1204.66	1501.25	1974.09	1090.83	300.90
Simultaneous throughput	215.03	250.63	264.91	292.57	313.72	340.50	412.57	293.16	48.81
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.26	0.00

Link with Medium ARQ Persistency - Enhanced TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5523.48	5991.29	6169.69	6451.92	6668.18	6898.23	7240.22	6436.50	498.49
Fairness of sim. thr. (F+S)	0.63	0.91	0.94	0.98	1.00	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.74	0.87	0.92	0.96	0.98	0.99	1.00	0.94	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.87	104.76	108.51	116.29	121.38	126.27	136.41	115.69	12.86
Throughput	2702.69	2909.01	3016.48	3170.15	3395.82	3497.91	3805.25	3203.18	379.34
Simultaneous throughput	1011.85	1576.58	1907.86	2212.87	2421.94	2643.56	3613.02	2171.80	514.08
Total drops	3.00	6.00	7.00	10.50	13.00	18.00	41.00	11.72	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	22.00	1.43	0.00
Error drops	3.00	6.00	7.00	10.00	12.00	15.00	21.00	10.29	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.63	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	8.00	19.00	2.59	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.76	119.30	123.16	127.66	133.36	137.20	149.11	128.33	10.20
Throughput	2472.72	2681.19	2761.79	2887.52	2984.24	3087.40	3240.00	2880.81	222.45
Simultaneous throughput	488.72	1178.73	1489.37	1781.60	2107.28	2257.26	2693.77	1770.46	617.90
Total drops	4.00	9.00	11.00	13.00	15.00	18.00	35.00	13.97	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	20.00	1.05	0.00
Error drops	4.00	9.00	11.00	13.00	15.00	17.00	24.00	12.92	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.96	1.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	6.00	8.00	20.00	3.43	6.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1567.44	2386.85	2540.77	2730.57	2955.59	3132.34	3632.91	2745.45	414.82
Total drops	0.00	1.00	1.00	3.00	4.00	6.00	10.00	2.97	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	1.00	1.00	3.00	4.00	6.00	10.00	2.97	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.22	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	18.00	2.69	4.00
Response time	23.78	27.59	29.62	31.82	34.00	35.98	56.41	32.06	4.38
Per Object Statistics									

HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.67	9.60	11.21	12.41	14.44	16.51	25.70	12.98	3.23
Throughput	493.25	759.76	874.75	1020.90	1114.39	1296.00	1651.70	1019.25	239.64
Simultaneous throughput	229.89	350.07	372.65	400.48	433.49	459.41	532.83	402.67	60.84
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.24	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.42	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.46	8.12	9.08	10.43	11.84	13.25	22.79	10.62	2.76
Throughput	404.06	690.99	773.73	883.34	1004.78	1124.06	1426.03	902.94	231.04
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.21	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.33	8.43	9.60	10.80	11.95	13.91	23.37	11.14	2.35
Throughput	394.39	660.90	770.51	853.25	942.45	1090.75	1257.31	861.18	171.94
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.21	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.21	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.09	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.24	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.47	8.78	10.38	11.55	13.04	15.63	24.83	12.15	2.66
Throughput	370.75	587.82	688.84	797.91	887.64	1047.76	1233.67	798.68	198.81
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.43	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.80	8.52	9.33	10.69	11.79	14.27	23.94	11.09	2.46
Throughput	384.72	644.78	779.10	861.85	982.21	1069.25	1590.45	876.15	203.10
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.43	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.43	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.94	8.61	9.55	10.69	12.03	14.17	25.31	11.28	2.48
Throughput	364.30	649.07	765.13	862.39	960.72	1064.96	1551.76	867.21	195.58
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.09	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.01	8.21	9.52	10.82	11.81	13.11	20.92	10.97	2.29
Throughput	440.60	695.28	778.03	852.18	958.57	1110.09	1533.49	881.36	180.54
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.03	8.87	9.82	10.76	11.69	13.46	21.15	11.10	1.87
Throughput	435.22	684.54	783.40	856.48	936.00	1033.79	1311.04	860.57	152.60
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.39	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.87	6.16	7.57	9.01	10.22	11.38	31.23	9.32	2.65
Throughput	295.52	809.19	898.39	1023.58	1194.99	1477.61	2380.30	1078.07	296.60
Simultaneous throughput	167.19	254.60	271.02	291.26	315.26	334.12	387.51	292.85	44.25
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.34	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.34	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.23	0.00

Link with Low ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4609.88	5279.40	5527.60	5917.08	6171.00	6409.29	6999.82	5875.75	643.39
Fairness of sim. thr. (F+S)	0.65	0.87	0.96	0.99	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.58	0.85	0.90	0.95	0.98	0.99	1.00	0.93	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.29	114.39	120.46	127.32	133.74	139.23	151.29	126.75	13.29
Throughput	2436.18	2637.13	2742.45	2895.58	3057.31	3217.43	4038.45	2929.58	314.87
Simultaneous throughput	806.49	1487.43	1783.26	2106.91	2476.58	2720.06	4084.42	2156.34	693.32
Total drops	17.00	24.00	29.00	33.00	40.00	46.00	62.00	34.80	11.00
Congestion drops	0.00	0.00	0.00	1.00	12.00	17.00	27.00	5.37	12.00
Error drops	15.00	23.00	26.00	29.00	33.00	36.00	42.00	29.43	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.85	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	13.00	1.98	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.66	128.04	133.36	139.20	148.38	155.89	178.68	141.06	15.03
Throughput	2063.28	2363.10	2473.79	2648.42	2761.79	2868.18	3132.54	2629.82	288.00
Simultaneous throughput	203.20	1239.73	1473.73	1813.51	2113.80	2261.32	2972.10	1786.04	640.07
Total drops	16.00	26.00	30.00	35.00	42.00	47.00	57.00	36.10	12.00
Congestion drops	0.00	0.00	0.00	0.00	6.00	14.00	19.00	3.97	6.00
Error drops	16.00	24.00	28.00	32.00	35.00	40.00	49.00	32.13	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.27	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	8.00	15.00	3.05	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1463.23	2044.72	2268.61	2657.91	3016.24	3240.78	4034.44	2675.94	747.62
Total drops	0.00	3.00	6.00	9.00	12.00	15.00	25.00	9.57	6.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	6.00	13.00	1.35	1.00
Error drops	0.00	3.00	5.00	8.00	11.00	13.00	22.00	8.22	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.41	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	9.00	0.95	1.00
Response time	21.41	26.26	28.96	32.68	38.08	41.22	59.74	33.59	9.12
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.03	8.27	9.51	12.55	17.54	23.04	44.94	14.61	8.03
Throughput	281.55	535.16	721.07	1009.61	1330.39	1530.27	2100.90	1028.33	609.31
Simultaneous throughput	214.61	299.89	332.73	389.83	442.38	475.31	591.72	392.47	109.65
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.39	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.44	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.95	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.12	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.94	8.13	9.61	11.40	14.65	22.30	36.99	13.26	5.04
Throughput	249.31	406.21	622.21	808.12	956.42	1132.66	1327.16	792.18	334.21
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
Error drops	0.00	0.00	0.00	0.50	2.00	3.00	4.00	0.93	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.11	8.31	9.68	11.87	16.06	21.33	36.83	13.57	6.38
Throughput	250.39	426.63	569.55	776.42	947.82	1080.00	1296.00	770.05	378.27
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.88	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.37	8.49	9.89	12.31	15.42	20.57	52.08	13.73	5.52
Throughput	177.31	430.93	582.45	748.48	929.55	1084.30	1446.45	766.68	347.10
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.15	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.36	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.79	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.45	7.08	8.20	10.40	14.23	18.67	32.44	11.81	6.02
Throughput	283.70	485.73	645.85	885.49	1120.84	1276.66	2071.88	916.14	474.99
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	0.97	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.03	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	0.94	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.36	6.79	8.24	10.03	12.26	14.72	24.79	10.63	4.02

Throughput	371.82	620.06	746.87	918.27	1102.57	1342.21	2112.72	953.35	355.70
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.73	7.33	8.36	10.77	13.26	16.31	28.36	11.43	4.90
Throughput	324.54	553.43	694.21	855.40	1101.49	1245.49	1608.72	890.24	407.28
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.10	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.59	7.12	8.71	10.24	12.19	15.97	28.94	11.12	3.48
Throughput	318.09	568.48	751.16	900.54	1056.36	1262.69	2006.33	921.97	305.19
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	0.95	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	0.95	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.52	5.93	7.19	8.98	10.71	13.66	30.82	9.54	3.52
Throughput	298.75	670.57	857.55	1026.81	1276.66	1544.24	2037.49	1076.69	419.10
Simultaneous throughput	156.08	218.10	241.99	283.51	321.73	345.68	430.34	285.43	79.75
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

Link with Low ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	3606.24	5152.44	5516.49	5909.97	6115.70	6424.17	6984.95	5828.82	599.21
Fairness of sim. thr. (F+S)	0.67	0.89	0.94	0.98	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.73	0.84	0.88	0.94	0.97	0.99	1.00	0.93	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.66	109.13	118.30	127.34	135.28	141.90	152.98	126.56	16.98
Throughput	2409.31	2581.25	2722.03	2895.04	3107.82	3332.42	3775.16	2938.87	385.79
Simultaneous throughput	1127.66	1447.87	1719.45	2250.90	2567.02	2947.62	4220.88	2211.42	847.58
Total drops	15.00	25.00	28.00	34.00	41.00	47.00	68.00	35.27	13.00
Congestion drops	0.00	0.00	0.00	0.00	10.00	17.00	29.00	5.25	10.00
Error drops	15.00	22.00	26.00	29.00	34.00	39.00	50.00	30.02	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.88	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	6.00	12.00	2.14	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.91	128.12	134.52	139.37	149.11	159.04	228.40	142.42	14.60
Throughput	1614.09	2306.15	2468.42	2645.19	2737.07	2875.70	3126.09	2608.84	268.66
Simultaneous throughput	459.52	1081.64	1409.24	1695.95	1926.80	2253.91	2773.63	1687.80	517.56
Total drops	18.00	28.00	31.00	36.00	40.00	47.00	61.00	36.81	9.00
Congestion drops	0.00	0.00	0.00	0.00	8.00	13.00	22.00	3.97	8.00
Error drops	17.00	25.00	29.00	33.00	37.00	40.00	52.00	32.84	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.03	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	11.00	2.49	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	793.98	2109.63	2282.47	2713.56	3048.64	3377.20	4102.69	2685.15	766.18
Total drops	0.00	3.00	6.00	8.00	12.00	15.00	21.00	8.79	6.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	5.00	10.00	1.01	1.00
Error drops	0.00	2.00	4.00	7.00	11.00	14.00	21.00	7.78	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.44	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	3.00	7.00	1.05	1.00
Response time	21.76	25.57	28.34	32.13	37.64	41.28	108.12	34.25	9.30
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.72	8.14	9.82	12.80	18.14	22.64	41.61	14.46	8.32
Throughput	304.12	556.66	672.72	990.27	1273.43	1539.94	2213.73	1027.73	600.72
Simultaneous throughput	116.45	309.41	334.76	397.99	447.13	495.32	601.73	393.82	112.37
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.36	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.08	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.65	8.09	9.88	12.27	15.75	20.18	105.86	13.97	5.87
Throughput	87.04	455.64	583.52	751.16	928.48	1127.28	1385.19	769.49	344.96

Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.94	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.71	8.31	10.18	12.62	16.26	19.82	26.59	13.54	6.08
Throughput	347.10	461.01	564.18	730.21	901.61	1095.04	1373.37	753.11	337.43
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.26	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.87	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.16	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.48	8.43	10.24	12.06	16.27	19.83	42.84	13.44	6.03
Throughput	214.93	462.09	565.25	764.60	895.16	1085.37	1422.81	762.69	329.91
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.15	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.29	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.86	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.53	6.44	7.98	9.65	12.51	17.27	76.36	11.58	4.53
Throughput	120.36	515.82	733.97	954.81	1147.70	1401.31	2034.27	957.47	413.73
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.74	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.10	6.29	7.51	9.53	12.43	16.19	33.62	10.54	4.92
Throughput	274.03	567.40	738.27	966.63	1212.18	1429.25	2250.27	997.78	473.91
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.06	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.09	6.65	7.89	9.74	11.63	15.84	31.34	10.74	3.74
Throughput	294.45	576.00	780.18	946.21	1162.75	1379.82	1811.82	963.81	382.57
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.05	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.88	6.29	8.02	9.99	11.96	15.17	22.90	10.43	3.94
Throughput	402.99	591.04	770.51	922.03	1142.33	1436.78	1888.12	980.28	371.82
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.11	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.31	5.51	6.94	8.55	10.47	12.85	52.73	9.32	3.53
Throughput	175.16	707.10	874.75	1077.85	1327.16	1658.15	2138.51	1123.72	452.42
Simultaneous throughput	84.69	225.03	243.46	289.45	325.19	360.23	437.62	286.42	81.73
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.73	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.73	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00

Link with Low ARQ Persistency - Baseline TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4641.60	5291.69	5524.07	5923.77	6144.16	6389.06	6786.69	5869.96	620.09
Fairness of sim. thr. (F+S)	0.63	0.86	0.95	0.99	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.72	0.85	0.90	0.94	0.98	0.99	1.00	0.93	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.53	111.74	119.27	127.17	135.20	140.03	152.28	126.61	15.93
Throughput	2421.13	2624.24	2711.28	2898.27	3088.48	3260.42	3983.64	2939.19	377.19
Simultaneous throughput	1235.45	1533.97	1835.65	2108.37	2457.14	2897.38	3966.68	2191.56	621.48

Total drops	16.00	25.00	29.00	33.00	40.00	47.00	61.00	34.95	11.00
Congestion drops	0.00	0.00	0.00	0.00	11.00	17.00	28.00	5.48	11.00
Error drops	16.00	23.00	25.00	29.00	33.00	37.00	44.00	29.47	8.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.74	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	5.00	10.00	1.64	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.36	128.07	133.90	139.04	148.13	154.52	177.46	141.14	14.23
Throughput	2077.25	2368.48	2472.72	2651.10	2749.97	2859.58	3037.97	2627.24	277.25
Simultaneous throughput	523.90	1127.65	1402.35	1764.97	1999.22	2237.91	2722.91	1714.05	596.87
Total drops	21.00	25.00	30.00	35.00	41.00	47.00	62.00	35.76	11.00
Congestion drops	0.00	0.00	0.00	0.00	7.00	13.00	23.00	3.80	7.00
Error drops	21.00	24.00	27.00	31.00	36.00	40.00	49.00	31.96	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.09	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	8.00	14.00	2.87	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1346.58	2236.23	2413.67	2709.74	3016.58	3303.69	4118.16	2718.98	602.91
Total drops	1.00	3.00	5.00	8.00	11.00	13.00	19.00	8.38	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	1.00	3.00	5.00	8.00	11.00	13.00	19.00	8.38	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.38	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.50	2.00	2.00	7.00	1.01	2.00
Response time	20.98	26.24	28.62	32.01	35.70	38.45	64.16	32.93	7.07
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.64	8.40	9.89	13.29	16.42	21.28	62.20	14.55	6.54
Throughput	204.18	593.19	758.69	953.73	1278.81	1476.54	1907.46	1010.58	520.12
Simultaneous throughput	197.50	327.98	354.01	397.43	442.43	484.54	604.00	398.78	88.43
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.28	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.28	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.38	8.20	9.59	11.36	13.23	17.11	21.72	11.92	3.64
Throughput	424.48	533.01	683.46	811.34	939.22	1124.06	1444.30	830.70	255.76
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	6.00	0.92	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	6.00	0.92	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.33	8.41	9.64	11.59	14.24	20.21	28.54	13.00	4.59
Throughput	322.39	455.64	643.70	795.22	948.90	1087.52	1456.12	787.07	305.19
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.93	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.93	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.89	8.62	9.94	11.70	15.25	19.72	59.87	13.44	5.31
Throughput	153.67	451.34	602.87	787.70	927.40	1060.66	1337.91	773.68	324.54
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.93	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.93	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.10	6.85	8.17	10.62	13.19	15.81	23.38	11.03	5.02
Throughput	394.39	580.30	696.36	868.30	1111.16	1316.42	1807.52	921.22	414.81
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.16	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.80	6.88	7.90	9.71	12.27	15.14	22.34	10.47	4.36
Throughput	412.66	600.72	745.79	949.43	1152.00	1317.49	1920.36	973.72	406.21
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.88	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.88	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.08	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.35	7.38	8.58	10.73	13.31	15.61	21.41	11.19	4.73
Throughput	429.85	588.90	690.99	858.63	1056.36	1225.07	1721.55	894.40	365.37
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31

Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.99	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.99	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.01	7.17	8.59	10.32	12.67	16.26	20.05	10.80	4.09
Throughput	459.94	563.10	722.15	893.01	1072.48	1280.96	2296.48	938.45	350.33
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.89	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.89	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.38	5.90	6.93	8.60	10.21	12.45	31.89	9.14	3.28
Throughput	289.07	739.34	901.61	1071.94	1321.79	1556.06	2104.12	1113.63	420.18
Simultaneous throughput	143.64	238.53	257.46	289.04	321.77	352.39	439.27	290.03	64.31
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

Link with Low ARQ Persistency - Baseline TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4618.73	5275.25	5517.50	5836.06	6111.48	6417.72	6811.75	5823.99	593.97
Fairness of sim. thr. (F+S)	0.58	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.71	0.86	0.90	0.94	0.96	0.99	1.00	0.93	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.12	113.05	118.94	126.68	133.83	139.85	149.98	126.27	14.89
Throughput	2457.67	2621.01	2754.27	2910.09	3096.00	3243.22	4045.97	2941.08	341.73
Simultaneous throughput	1080.53	1331.38	1724.39	2070.78	2432.91	2720.14	3707.46	2073.50	708.52
Total drops	17.00	24.00	28.00	33.00	41.00	46.00	57.00	34.35	13.00
Congestion drops	0.00	0.00	0.00	0.00	9.00	16.00	22.00	4.77	9.00
Error drops	15.00	22.00	25.00	29.00	33.00	38.00	50.00	29.58	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.95	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	6.00	15.00	2.22	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.92	127.55	134.72	141.13	149.00	156.06	178.32	142.21	14.28
Throughput	2067.58	2360.96	2469.49	2612.42	2734.93	2872.48	3048.72	2606.65	265.43
Simultaneous throughput	198.36	1225.66	1459.59	1729.47	1968.90	2131.95	2582.03	1703.66	509.31
Total drops	20.00	28.00	31.00	36.00	41.00	49.00	56.00	36.85	10.00
Congestion drops	0.00	0.00	0.00	0.00	8.00	16.00	24.00	4.47	8.00
Error drops	17.00	24.00	29.00	33.00	36.00	39.00	50.00	32.38	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.25	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	14.00	2.68	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	743.30	2282.59	2562.67	2786.97	3091.42	3328.19	3785.50	2806.01	528.75
Total drops	1.00	4.00	5.00	7.50	10.00	13.00	24.00	8.09	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	1.00	4.00	5.00	7.50	10.00	13.00	24.00	8.09	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.81	1.00
Response time	22.82	26.12	27.96	31.17	33.48	36.90	117.04	31.97	5.52
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	8.25	9.78	11.75	15.51	20.04	33.03	13.32	5.74
Throughput	383.64	629.73	804.90	1078.39	1280.96	1525.97	1966.57	1062.25	476.06
Simultaneous throughput	119.36	334.78	375.86	408.76	453.41	488.13	555.21	411.63	77.55
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.21	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.21	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.10	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.83	8.35	9.25	10.73	13.52	18.82	27.56	12.07	4.26
Throughput	334.21	487.88	675.94	859.16	990.81	1102.57	1579.70	836.71	314.87
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.90	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.90	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.12	8.33	9.66	11.13	13.63	17.12	28.99	12.23	3.97
Throughput	318.09	528.72	672.72	828.00	953.19	1101.49	1506.63	819.47	280.48
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	0.50	1.00	2.00	6.00	0.85	1.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	6.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.40	8.79	9.95	11.47	14.01	18.24	30.20	12.54	4.06
Throughput	305.19	488.96	649.07	803.28	914.51	1043.46	1440.00	795.96	265.43
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.79	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.79	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.47	7.33	8.70	9.78	12.72	16.06	30.05	11.27	4.02
Throughput	306.27	568.48	722.15	942.99	1058.51	1239.04	2061.13	910.67	336.36
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	6.00	0.91	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	6.00	0.91	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.45	6.88	8.15	10.03	12.29	15.75	100.81	11.42	4.14
Throughput	91.34	578.15	744.72	918.81	1114.39	1340.06	1691.46	938.59	369.67
Simultaneous throughput	16.28	243.48	273.35	297.28	329.75	355.01	403.79	298.78	56.40
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.11	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.93	7.89	8.52	10.00	12.29	14.75	19.70	10.78	3.77
Throughput	467.46	597.49	726.45	922.03	1081.07	1164.90	1868.78	919.06	354.63
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.00	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.25	7.34	8.42	9.95	11.56	15.23	30.78	10.82	3.14
Throughput	299.82	571.70	752.24	926.33	1082.15	1236.90	1754.87	941.85	329.91
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.93	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.93	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.11	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.46	5.79	6.82	8.57	10.25	12.31	20.88	8.94	3.43
Throughput	441.67	745.79	883.34	1075.16	1349.73	1560.36	2068.66	1124.47	466.39
Simultaneous throughput	86.81	243.48	273.35	297.28	329.75	355.01	403.79	299.37	56.40
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.67	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.67	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.09	0.00

Link with Low ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4807.41	5451.38	5648.72	5927.36	6137.76	6307.83	6611.62	5885.92	489.04
Fairness of sim. thr. (F+S)	0.50	0.92	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.48	0.80	0.84	0.90	0.94	0.97	1.00	0.89	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.31	116.68	123.96	128.65	134.81	140.15	150.40	128.81	10.86
Throughput	2451.22	2625.31	2732.78	2865.49	2967.04	3138.99	3788.06	2875.89	234.27
Simultaneous throughput	0.00	1274.00	1511.29	1754.30	2060.58	2352.80	3476.82	1783.23	549.29
Total drops	14.00	19.00	24.00	27.00	31.00	35.00	46.00	27.67	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	19.00	0.26	0.00
Error drops	14.00	19.00	24.00	27.00	31.00	34.00	40.00	27.41	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.29	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	8.00	16.00	3.28	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.57	130.48	133.95	138.95	145.62	150.61	171.34	140.42	11.68
Throughput	2151.40	2439.40	2528.60	2652.72	2746.75	2823.04	2959.52	2634.33	218.15
Simultaneous throughput	833.99	1218.71	1394.81	1591.64	1768.89	2140.51	2659.21	1618.89	374.08
Total drops	18.00	24.00	26.00	30.50	34.00	38.00	43.00	30.65	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.16	0.00

Error drops	18.00	24.00	26.00	30.00	34.00	38.00	43.00	30.49	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.23	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	7.00	12.00	3.42	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1546.56	2404.68	2830.03	3200.57	3531.14	3759.51	4154.69	3142.66	701.12
Total drops	1.00	3.00	5.00	8.00	11.00	14.00	17.00	8.31	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	1.00	3.00	5.00	8.00	11.00	14.00	17.00	8.30	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.26	0.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	4.00	9.00	1.24	2.00
Response time	20.51	22.89	24.76	27.22	30.47	34.00	56.54	28.19	5.71
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.69	8.14	9.03	10.80	13.78	17.40	34.00	12.09	4.75
Throughput	372.90	706.03	911.28	1172.96	1399.16	1531.34	2227.70	1167.61	487.88
Simultaneous throughput	226.83	352.69	415.07	469.42	517.90	551.39	609.35	460.92	102.83
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.16	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.24	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.72	6.96	8.01	9.88	11.79	17.49	54.45	11.42	3.78
Throughput	168.72	516.90	776.96	933.31	1147.70	1315.34	1953.67	942.33	370.75
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.16	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.16	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.13	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.59	7.34	8.30	9.60	11.46	15.18	30.29	10.72	3.17
Throughput	304.12	578.15	801.67	959.64	1111.16	1247.64	1398.09	940.84	309.49
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.02	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.02	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.11	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.68	7.71	8.29	9.50	11.57	14.23	34.19	10.52	3.27
Throughput	269.73	642.63	789.85	969.85	1102.57	1192.84	1622.69	944.11	312.72
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.89	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.89	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.32	5.53	6.83	8.86	10.76	12.36	26.42	9.30	3.93
Throughput	349.25	729.67	853.25	1040.78	1342.21	1649.55	2135.28	1111.35	488.96
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.77	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.77	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.17	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.01	5.95	7.27	9.18	10.98	13.47	28.05	9.70	3.70
Throughput	328.84	680.24	825.31	1004.24	1260.54	1514.15	2299.70	1063.07	435.22
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	5.00	0.87	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	2.00	5.00	0.87	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.11	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.20	6.45	7.96	9.64	11.54	13.70	22.73	10.06	3.57
Throughput	405.13	671.64	796.30	955.88	1150.93	1414.21	2192.24	996.93	354.63
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	0.91	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	0.91	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.13	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.01	6.43	7.69	8.97	10.62	13.10	36.37	9.84	2.93
Throughput	253.61	685.61	862.93	1027.88	1192.84	1429.25	1839.76	1031.85	329.91
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.93	5.09	5.98	7.86	9.48	12.38	15.05	8.11	3.50
Throughput	612.54	726.45	957.49	1172.96	1519.52	1775.28	2342.69	1255.64	562.03
Simultaneous throughput	164.97	256.50	301.87	341.39	376.66	401.01	443.17	335.22	74.79
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.69	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.69	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

Link with Low ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5216.93	5447.23	5659.41	5859.80	6123.99	6313.48	6661.45	5884.54	464.58
Fairness of sim. thr. (F+S)	0.58	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.59	0.80	0.85	0.91	0.94	0.97	1.00	0.89	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	103.76	119.33	122.76	128.89	135.39	141.42	148.91	129.52	12.63
Throughput	2475.94	2603.82	2722.03	2860.12	3002.51	3083.10	3552.72	2858.86	280.48
Simultaneous throughput	115.47	1336.04	1508.69	1764.84	2171.60	2472.56	3187.48	1830.63	662.91
Total drops	15.00	21.00	25.00	28.00	31.00	34.00	47.00	28.02	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.15	0.00
Error drops	15.00	21.00	25.00	28.00	31.00	34.00	40.00	27.87	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.37	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	8.00	13.00	3.47	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.65	130.38	134.43	140.56	145.19	150.37	157.89	140.38	10.77
Throughput	2335.16	2438.33	2532.90	2622.63	2741.37	2825.19	2981.01	2633.75	208.48
Simultaneous throughput	929.07	1183.35	1321.33	1579.36	1859.45	2057.80	2591.67	1612.90	538.12
Total drops	20.00	24.00	27.00	30.00	34.00	39.00	44.00	30.84	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.10	0.00
Error drops	20.00	24.00	27.00	30.00	33.00	37.00	44.00	30.74	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.28	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	9.00	14.00	3.68	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1263.34	2525.85	2800.42	3126.42	3429.33	3610.96	3986.44	3073.71	628.90
Total drops	1.00	3.00	5.00	8.00	10.00	13.00	19.00	7.91	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	1.00	3.00	5.00	8.00	10.00	13.00	19.00	7.91	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.24	0.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.18	2.00
Response time	21.67	23.90	25.18	27.63	30.67	34.84	67.69	29.15	5.49
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.51	7.74	9.03	10.89	14.09	17.39	28.16	12.13	5.06
Throughput	450.27	723.22	860.78	1163.82	1399.16	1582.93	1947.22	1154.23	538.39
Simultaneous throughput	185.29	370.46	410.73	458.54	502.97	529.61	584.68	450.81	92.24
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.21	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.79	7.02	8.37	9.66	10.91	14.10	66.74	10.67	2.54
Throughput	138.63	624.36	831.76	954.81	1101.49	1288.48	1923.58	965.96	269.73
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.98	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	0.98	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.09	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.75	7.26	8.07	9.63	11.19	13.19	22.61	10.16	3.12
Throughput	407.28	687.76	817.79	956.42	1136.96	1264.84	1602.27	972.57	319.16
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.11	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.87	7.49	8.47	9.63	10.83	16.09	46.03	10.68	2.36
Throughput	199.88	571.70	846.81	956.96	1087.52	1230.45	1568.96	944.30	240.72
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.81	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.81	1.00

Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.18	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.44	5.63	6.92	8.74	10.77	13.96	22.06	9.38	3.84
Throughput	418.03	653.37	840.36	1054.21	1326.09	1567.88	2076.18	1098.85	485.73
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.73	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.40	6.02	7.28	8.83	10.54	12.66	20.11	9.40	3.26
Throughput	458.87	726.45	869.37	1043.46	1258.39	1500.18	2092.30	1073.36	389.01
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.81	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.81	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.14	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.92	6.31	7.88	9.41	11.00	13.93	41.21	10.11	3.11
Throughput	223.52	660.90	827.46	979.52	1168.12	1416.36	1872.00	1020.81	340.66
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.09	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.50	6.85	8.11	9.32	10.75	13.01	35.59	10.11	2.64
Throughput	258.99	674.87	854.33	989.19	1127.28	1314.27	1675.34	996.84	272.96
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.86	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.86	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.98	5.04	6.28	8.38	9.88	12.83	16.48	8.58	3.59
Throughput	558.81	710.33	900.54	1098.81	1451.82	1822.57	2314.75	1202.90	551.28
Simultaneous throughput	134.76	269.42	298.71	333.49	365.80	385.17	425.22	327.86	67.08
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.81	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.81	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00

Link with Low ARQ Persistency - Enhanced TCP and DiffServ for HTTP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5024.86	5456.39	5606.81	5863.67	6126.39	6414.84	6642.65	5893.38	519.58
Fairness of sim. thr. (F+S)	0.73	0.93	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.74	0.81	0.86	0.90	0.94	0.96	0.99	0.89	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.24	117.84	124.03	128.81	135.79	140.07	154.16	129.61	11.76
Throughput	2391.04	2627.46	2702.69	2861.73	2963.82	3127.16	3996.54	2859.07	261.13
Simultaneous throughput	775.69	1339.05	1539.80	1793.05	2093.45	2351.02	3348.95	1846.97	553.65
Total drops	13.00	20.00	24.00	28.00	32.00	37.00	58.00	28.36	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	26.00	0.47	0.00
Error drops	13.00	20.00	24.00	28.00	32.00	36.00	45.00	27.89	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.27	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	4.00	8.00	16.00	3.31	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.00	128.29	134.30	140.47	146.45	150.74	163.92	140.27	12.14
Throughput	2249.19	2441.55	2509.25	2624.24	2741.37	2871.40	2972.42	2637.64	232.12
Simultaneous throughput	833.23	1161.77	1382.71	1552.68	1852.34	2039.48	2694.36	1624.27	469.63
Total drops	21.00	25.00	27.00	31.00	35.00	37.00	48.00	31.28	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.20	0.00
Error drops	21.00	25.00	27.00	31.00	35.00	37.00	44.00	31.08	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.22	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	7.00	16.00	3.54	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1602.51	2564.98	2851.70	3232.34	3451.90	3605.45	4168.03	3160.77	600.21
Total drops	0.00	2.00	5.00	7.50	10.00	12.00	21.00	7.50	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	2.00	5.00	7.50	10.00	12.00	21.00	7.50	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	3.00	8.00	1.30	2.00
Response time	20.73	23.96	25.31	27.26	30.17	33.68	53.91	28.09	4.86

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.73	8.33	9.44	11.40	13.65	17.11	53.92	12.45	4.21
Throughput	235.34	722.15	919.88	1111.16	1315.34	1509.85	1881.67	1123.32	395.46
Simultaneous throughput	235.03	376.20	418.25	474.08	506.28	528.80	611.31	463.58	88.03
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.23	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.27	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	7.01	7.88	9.16	10.53	13.68	32.56	9.98	2.65
Throughput	282.63	653.37	869.37	1006.39	1163.82	1302.45	1606.57	1004.90	294.45
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.07	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.25	7.52	8.14	9.47	10.74	13.34	27.64	10.18	2.60
Throughput	333.13	686.69	832.84	973.61	1128.36	1226.15	1475.46	967.32	295.52
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.53	8.00	8.59	9.92	11.65	15.89	30.66	11.04	3.06
Throughput	300.90	566.33	784.48	929.01	1069.25	1150.93	1412.06	905.66	284.78
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.04	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.25	5.97	7.17	9.34	11.49	14.17	27.91	9.89	4.32
Throughput	329.91	634.03	801.67	987.04	1262.69	1538.87	2170.75	1039.84	461.01
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.86	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.86	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.67	6.09	7.86	9.20	10.73	13.50	21.62	9.63	2.87
Throughput	426.63	675.94	855.40	1001.55	1168.12	1496.96	1974.09	1040.80	312.72
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.81	7.08	7.96	9.44	11.41	13.69	20.05	9.96	3.46
Throughput	459.94	671.64	807.04	976.30	1158.45	1301.37	1585.07	993.21	351.40
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.71	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.71	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.14	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.15	7.23	8.14	9.21	11.03	13.77	18.70	9.88	2.89
Throughput	493.25	656.60	824.24	1001.01	1128.36	1263.76	2220.18	1002.64	304.12
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.93	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.93	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.86	5.03	5.85	7.31	9.03	11.75	17.51	7.93	3.17
Throughput	526.57	762.99	1018.75	1261.07	1574.33	1818.27	2387.82	1285.18	555.58
Simultaneous throughput	170.93	273.60	304.18	344.78	368.20	384.58	444.59	337.15	64.02
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.68	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

Link with Low ARQ Persistency - Enhanced TCP, DiffServ for HTTP, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5058.36	5478.58	5664.76	5914.55	6158.73	6325.88	6837.59	5921.44	493.97
Fairness of sim. thr. (F+S)	0.67	0.88	0.93	0.98	0.99	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.70	0.81	0.86	0.90	0.94	0.97	0.99	0.89	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.46	112.74	119.44	128.42	134.05	139.16	148.80	127.13	14.61
Throughput	2477.01	2631.76	2739.22	2870.87	3085.25	3256.12	3782.69	2919.20	346.03
Simultaneous throughput	706.66	1416.64	1630.94	1913.49	2270.99	2562.40	3380.64	1967.24	640.05
Total drops	12.00	21.00	24.00	29.00	34.00	40.00	56.00	30.10	10.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	10.00	26.00	1.87	0.00
Error drops	12.00	21.00	23.00	28.00	33.00	36.00	47.00	28.23	10.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.16	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.50	5.00	7.00	12.00	3.21	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.45	129.63	133.65	139.26	145.26	150.31	162.83	139.56	11.61
Throughput	2264.24	2452.30	2535.04	2647.34	2756.42	2831.64	3060.54	2650.25	221.37
Simultaneous throughput	457.57	1059.28	1254.57	1600.41	1834.39	2062.79	2588.61	1563.14	579.82
Total drops	18.00	25.00	27.00	32.00	36.00	39.00	53.00	32.18	9.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	17.00	1.09	0.00
Error drops	18.00	24.00	27.00	31.00	35.00	38.00	46.00	31.09	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.06	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	9.00	12.00	3.83	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1216.88	2560.98	2793.46	3117.74	3444.39	3623.93	4294.56	3091.36	650.93
Total drops	0.00	3.00	5.00	7.00	10.00	13.00	20.00	7.65	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	3.00	5.00	7.00	10.00	13.00	20.00	7.65	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.33	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.10	2.00
Response time	20.11	23.65	25.17	27.74	30.72	33.31	71.00	28.91	5.55
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.27	8.48	9.58	11.17	13.46	16.57	71.00	12.61	3.89
Throughput	178.39	755.46	934.93	1134.81	1314.27	1455.04	1743.04	1116.84	379.34
Simultaneous throughput	178.48	375.61	409.71	457.27	505.18	531.51	629.87	453.40	95.47
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.11	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.11	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.11	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.24	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.14	7.18	8.09	9.24	10.54	12.59	68.26	10.21	2.45
Throughput	135.40	731.82	864.00	997.25	1135.88	1278.81	2227.70	998.65	271.88
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.82	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.82	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.41	7.36	8.42	10.05	12.35	14.74	20.78	10.65	3.93
Throughput	443.82	622.21	742.57	917.19	1092.90	1249.79	1704.36	930.67	350.33
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	7.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	7.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.36	7.85	8.61	9.98	12.18	16.75	36.51	11.32	3.57
Throughput	252.54	543.76	754.39	923.64	1055.28	1171.34	1718.33	900.57	300.90
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.06	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.16	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.46	6.18	7.58	9.46	11.12	13.35	18.87	9.69	3.54
Throughput	488.96	689.91	825.31	974.15	1204.66	1484.06	2066.51	1036.50	379.34
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.81	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.81	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.15	0.00

HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.57	6.78	7.71	9.03	10.76	13.11	18.64	9.61	3.05
Throughput	494.33	701.73	855.40	1020.90	1182.09	1338.99	1656.00	1024.31	326.69
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.66	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.66	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.13	7.31	8.27	9.60	10.91	12.55	22.25	9.95	2.64
Throughput	413.73	712.48	840.36	960.18	1113.31	1259.46	1796.78	982.03	272.96
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.93	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.93	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.60	6.85	8.04	9.25	10.75	13.68	22.28	9.91	2.71
Throughput	413.73	627.58	853.25	996.18	1136.96	1330.39	2003.10	1004.37	283.70
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.94	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.94	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.01	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.18	5.11	6.07	7.42	9.09	11.07	15.33	7.92	3.02
Throughput	601.79	809.19	986.51	1241.19	1518.45	1795.70	2204.06	1269.15	531.94
Simultaneous throughput	129.80	273.17	297.97	332.56	367.40	386.55	458.09	329.75	69.43
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.64	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.64	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00

5 Bulk TCPs and Streaming

Error-Free Link - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7894.44	7900.13	7901.61	7902.57	7903.48	7904.32	7957.74	7904.19	1.86
Fairness of sim. thr. (F+S)	0.70	0.84	0.94	0.98	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.75	0.84	0.89	0.92	0.93	0.95	0.97	0.91	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	71.46	87.77	94.46	98.99	100.88	101.86	103.53	96.71	6.43
Throughput	3560.24	3615.04	3652.66	3724.12	3888.00	4180.30	5158.21	3828.48	235.34
Simultaneous throughput	903.84	2001.88	2130.40	2286.75	2482.18	2789.97	3224.95	2335.64	351.78
Total drops	9.00	15.00	19.00	24.00	27.00	29.00	33.00	23.27	8.00
Congestion drops	9.00	15.00	19.00	24.00	27.00	29.00	33.00	23.27	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.17	102.99	103.26	103.53	103.67	103.80	104.03	103.45	0.41
Throughput	3544.12	3550.57	3554.87	3560.78	3569.91	3578.51	3608.60	3563.57	15.04
Simultaneous throughput	548.66	1103.01	1493.37	1805.80	2020.15	2185.83	3113.23	1745.40	526.77
Total drops	9.00	17.00	19.00	21.00	24.00	29.00	33.00	21.52	5.00
Congestion drops	9.00	17.00	19.00	21.00	24.00	29.00	33.00	21.52	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3239.61	3378.88	3475.04	3534.73	3587.78	3637.52	3710.47	3522.84	112.74
Total drops	28.00	47.00	62.00	81.00	97.00	126.00	170.00	84.58	35.00
Congestion drops	28.00	47.00	62.00	81.00	97.00	126.00	170.00	84.58	35.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1977.55	2286.93	2598.91	3006.74	3152.24	3404.82	2575.46	719.82
IP packet delay variation	-11.20	-11.01	-11.01	-11.00	-10.99	60.98	349.01	0.06	0.02
Consecutive packets dropped	1.00	1.00	2.00	2.00	4.00	6.00	18.00	3.16	2.00

Error-Free Link - Baseline TCP and RED+ECN
Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7641.70	7892.07	7896.10	7897.28	7898.53	7902.04	7953.99	7893.21	2.43
Fairness of sim. thr. (F+S)	0.50	0.85	0.91	0.97	1.00	1.00	1.00	0.95	0.09
Fairness of sim. thr. (all)	0.64	0.86	0.91	0.94	0.97	0.98	0.99	0.93	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	75.83	82.53	89.65	94.10	97.70	99.90	102.12	92.75	8.05
Throughput	3609.67	3688.12	3771.94	3918.09	4094.33	4465.07	4861.61	3994.92	322.39
Simultaneous throughput	1356.23	1820.89	2206.56	2516.33	2784.08	3068.58	3538.04	2478.70	577.51
Total drops	9.00	15.00	18.00	22.00	25.00	28.00	35.00	21.70	7.00
Congestion drops	9.00	15.00	18.00	22.00	25.00	28.00	35.00	21.70	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.43	102.14	102.41	102.60	102.80	103.25	105.88	102.66	0.39
Throughput	3481.79	3567.76	3586.03	3593.01	3600.00	3607.52	3634.39	3590.91	13.97
Simultaneous throughput	0.00	1253.51	1451.24	1865.58	2166.13	2446.46	2868.97	1834.35	714.88
Total drops	10.00	15.00	17.00	21.00	25.00	27.00	39.00	21.02	8.00
Congestion drops	10.00	15.00	17.00	21.00	25.00	27.00	39.00	21.02	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2924.60	3060.56	3133.50	3183.24	3246.25	3398.77	3703.84	3201.45	112.74
Total drops	30.00	120.00	168.00	187.00	201.00	222.00	265.00	181.51	33.00
Congestion drops	30.00	120.00	168.00	187.00	201.00	222.00	265.00	181.51	33.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1197.18	1520.99	1834.19	2492.20	3105.09	3404.05	1978.15	971.21
IP packet delay variation	-11.23	-11.01	-11.01	-11.00	-10.99	60.99	349.03	1.12	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	3.00	6.00	228.00	4.96	2.00

Error-Free Link - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7906.08	7906.09	7906.11	7906.11	7906.14	7906.49	7962.15	7908.18	0.03
Fairness of sim. thr. (F+S)	0.69	0.94	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.70	0.79	0.86	0.87	0.90	0.91	0.93	0.87	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	80.16	91.53	99.13	100.53	101.54	102.98	103.99	99.23	2.41
Throughput	3545.19	3577.43	3623.64	3666.63	3711.76	4009.43	4599.40	3722.78	88.12
Simultaneous throughput	572.98	1418.21	1777.94	1959.92	2074.54	2268.68	2813.02	1930.21	296.59
Total drops	9.00	15.00	21.00	24.50	27.00	28.00	37.00	23.44	6.00
Congestion drops	9.00	15.00	21.00	24.50	27.00	28.00	37.00	23.44	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	103.08	104.25	104.25	104.25	104.25	104.28	104.28	104.21	0.00
Throughput	3535.52	3535.52	3536.60	3536.60	3536.60	3536.60	3576.36	3538.07	0.00
Simultaneous throughput	426.63	1323.11	1584.29	1732.04	1903.84	2076.71	2501.67	1717.84	319.54
Total drops	9.00	17.00	18.00	20.00	23.00	26.00	33.00	20.77	5.00
Congestion drops	9.00	17.00	18.00	20.00	23.00	26.00	33.00	20.77	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1767.84	1792.68	1831.75	1870.63	1897.98	2008.61	1812.45	77.96
IP packet delay variation	-11.31	-11.01	-11.01	-11.00	-10.99	60.99	349.02	0.13	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7445.47	7739.85	7843.43	7901.61	7906.11	7906.49	7962.57	7860.67	62.68
Fairness of sim. thr. (F+S)	0.50	0.83	0.92	0.98	1.00	1.00	1.00	0.94	0.07
Fairness of sim. thr. (all)	0.60	0.81	0.85	0.87	0.90	0.91	0.94	0.86	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.15	91.17	94.25	98.76	101.37	103.31	107.76	97.62	7.12
Throughput	3420.54	3562.39	3626.87	3732.18	3889.07	4041.67	4657.43	3789.60	262.21
Simultaneous throughput	299.52	1479.60	1782.92	2066.43	2311.73	2632.10	3113.61	2049.78	528.82
Total drops	8.00	15.00	15.00	20.00	22.00	26.00	33.00	19.47	7.00
Congestion drops	8.00	15.00	15.00	20.00	22.00	26.00	33.00	19.47	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	103.07	104.25	104.25	104.32	105.09	106.39	110.70	104.86	0.84
Throughput	3330.27	3461.37	3507.58	3533.91	3536.60	3536.60	3576.36	3516.22	29.01
Simultaneous throughput	0.00	1103.43	1357.07	1745.17	2058.32	2330.25	2881.65	1721.77	701.25
Total drops	8.00	13.00	15.00	20.00	21.00	25.00	33.00	18.71	6.00
Congestion drops	8.00	13.00	15.00	20.00	21.00	25.00	33.00	18.71	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1546.93	1771.08	1818.06	1862.02	1892.95	2008.70	1758.68	90.94
IP packet delay variation	-11.21	-11.01	-11.01	-11.00	-10.99	60.98	277.02	0.00	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7838.80	7911.40	7938.86	7939.57	7940.12	7940.57	7967.40	7933.46	1.26
Fairness of sim. thr. (F+S)	0.68	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.75	0.91	0.92	0.92	0.93	0.93	0.95	0.92	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	82.07	87.91	95.11	101.47	102.57	102.96	103.35	98.43	7.46
Throughput	3566.69	3579.58	3593.55	3633.31	3860.06	4192.12	4491.94	3760.37	266.51
Simultaneous throughput	1476.73	2013.15	2109.50	2186.42	2310.34	2531.63	2748.45	2218.25	200.84
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	25.00	3.53	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	5.00	25.00	3.53	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	13.00	0.35	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.85	103.20	103.33	103.44	103.52	103.67	104.32	103.45	0.19
Throughput	3533.37	3555.94	3561.31	3563.46	3567.76	3572.06	3583.88	3563.57	6.45
Simultaneous throughput	477.48	1732.31	1860.42	1979.77	2066.12	2140.99	2418.07	1947.10	205.70
Total drops	1.00	1.00	2.00	3.00	4.00	6.00	36.00	4.88	2.00
Congestion drops	1.00	1.00	2.00	3.00	4.00	6.00	36.00	4.88	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.81	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3232.98	3574.52	3627.57	3664.05	3697.20	3740.31	3773.47	3652.69	69.63
Total drops	9.00	16.00	32.00	42.00	53.00	68.00	172.00	45.43	21.00
Congestion drops	9.00	16.00	32.00	42.00	53.00	68.00	172.00	45.43	21.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1941.90	2148.31	2607.24	3033.88	3130.95	3402.53	2551.25	885.56
IP packet delay variation	-11.44	-11.01	-11.01	-11.00	-10.99	0.00	349.00	0.18	0.02
Consecutive packets dropped	1.00	1.00	1.00	2.00	3.00	5.00	13.00	2.39	2.00

Error-Free Link - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7722.98	7873.80	7931.81	7934.27	7935.41	7937.02	7965.42	7920.50	3.60
Fairness of sim. thr. (F+S)	0.89	0.96	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.77	0.93	0.94	0.96	0.96	0.97	0.98	0.95	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	86.78	91.50	94.16	96.39	99.65	101.34	102.85	96.57	5.48
Throughput	3583.88	3626.87	3693.49	3824.60	3901.97	4004.06	4248.00	3823.23	208.48
Simultaneous throughput	1599.17	2141.31	2217.69	2337.74	2452.93	2580.47	2833.53	2350.00	235.24
Total drops	0.00	0.00	0.00	2.00	3.00	13.00	28.00	3.59	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	13.00	28.00	3.59	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.51	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.85	102.24	102.37	102.57	102.85	103.49	106.69	102.75	0.48
Throughput	3454.93	3561.31	3582.81	3594.09	3601.07	3605.37	3619.34	3588.03	18.27
Simultaneous throughput	853.28	1732.13	1932.06	2060.98	2173.08	2259.07	2594.76	2034.76	241.02
Total drops	0.00	0.00	0.00	1.00	3.00	14.00	27.00	3.60	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	14.00	27.00	3.60	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.72	0.00
Streaming flow									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3010.82	3169.98	3259.51	3319.19	3388.83	3664.05	3793.36	3350.78	129.32
Total drops	3.00	41.00	123.00	146.00	163.00	191.00	239.00	136.47	40.00
Congestion drops	3.00	41.00	123.00	146.00	163.00	191.00	239.00	136.47	40.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1016.35	1336.88	1743.59	2550.24	3063.92	3390.25	1907.91	1213.36
IP packet delay variation	-11.21	-11.01	-11.01	-11.00	-10.99	60.83	349.01	0.97	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	4.00	182.00	4.82	1.00

Error-Free Link - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7881.13	7934.51	7941.27	7941.28	7941.66	7941.66	7968.24	7936.87	0.39
Fairness of sim. thr. (F+S)	0.88	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.74	0.86	0.89	0.90	0.91	0.91	0.94	0.89	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.41	90.61	91.40	100.76	102.81	103.35	103.67	98.62	11.41
Throughput	3555.94	3565.61	3582.81	3659.10	4033.07	4064.24	4169.55	3748.39	450.27
Simultaneous throughput	1373.10	1891.98	1958.77	2023.08	2135.10	2294.81	2469.13	2045.15	176.33
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	27.00	2.48	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	2.00	27.00	2.48	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.98	103.78	103.78	103.79	103.82	103.82	104.61	103.84	0.03
Throughput	3523.70	3550.57	3550.57	3551.64	3551.64	3551.64	3579.58	3549.92	1.07
Simultaneous throughput	979.92	1527.99	1784.69	1964.79	2029.72	2093.91	2261.64	1877.69	245.02
Total drops	1.00	1.00	1.00	1.00	2.00	4.00	29.00	3.75	1.00
Congestion drops	1.00	1.00	1.00	1.00	2.00	4.00	29.00	3.75	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.90	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1771.58	1796.16	1833.16	1871.78	1898.25	2007.96	1826.13	75.61
IP packet delay variation	-11.33	-11.01	-11.01	-11.00	-10.99	60.99	285.50	0.13	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error-Free Link - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7341.35	7846.89	7932.21	7941.25	7941.28	7941.66	7968.24	7910.56	9.07
Fairness of sim. thr. (F+S)	0.77	0.97	1.00	1.00	1.00	1.00	1.00	0.99	0.00
Fairness of sim. thr. (all)	0.75	0.86	0.89	0.91	0.92	0.92	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	76.24	90.54	94.02	97.40	101.19	103.21	103.96	96.98	7.16
Throughput	3546.27	3572.06	3640.84	3784.84	3908.42	4070.69	4835.82	3811.65	267.58
Simultaneous throughput	1052.64	1697.42	1988.56	2044.65	2112.05	2222.20	3080.46	2034.57	123.49
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	26.00	2.22	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	26.00	2.22	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.34	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.98	103.78	103.79	103.82	103.87	105.04	112.27	104.20	0.08
Throughput	3282.99	3509.73	3548.42	3550.57	3551.64	3551.64	3579.58	3538.15	3.22
Simultaneous throughput	919.17	1531.28	1949.36	2032.90	2114.77	2170.13	2678.89	1971.15	165.41
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	25.00	2.22	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	25.00	2.22	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.38	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1764.34	1790.63	1830.73	1870.11	1897.77	2006.06	1814.21	79.48
IP packet delay variation	-11.50	-11.01	-11.01	-11.00	-10.99	60.98	349.02	0.28	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Link with High ARQ Persistency - Baseline TCP

Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5275.74	6147.25	6479.66	6691.20	6834.27	6945.14	7108.88	6615.87	354.61
Fairness of sim. thr. (F+S)	0.52	0.74	0.93	0.97	0.99	1.00	1.00	0.93	0.07
Fairness of sim. thr. (all)	0.68	0.75	0.82	0.88	0.91	0.93	0.96	0.86	0.09
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	79.37	91.68	103.27	109.11	114.00	119.28	145.92	108.17	10.74
Throughput	2526.45	3085.25	3231.40	3378.63	3562.39	3990.09	4644.54	3442.13	330.99
Simultaneous throughput	401.45	1289.85	1563.66	1828.50	2109.75	2481.16	3276.97	1886.53	546.08
Total drops	0.00	6.00	14.00	19.00	24.00	27.00	40.00	18.58	10.00
Congestion drops	0.00	5.00	14.00	18.00	23.00	27.00	40.00	17.97	9.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.61	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.26	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	7.00	57.00	2.37	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.12	116.63	118.35	121.01	125.77	132.76	154.84	122.97	7.42
Throughput	2381.37	2762.87	2926.21	3046.57	3113.19	3159.40	3258.27	3007.42	186.99
Simultaneous throughput	50.03	704.14	1088.30	1451.55	1678.80	2002.46	2760.25	1392.09	590.50
Total drops	0.00	4.00	11.00	19.00	23.00	26.00	32.00	17.08	12.00
Congestion drops	0.00	2.00	10.00	18.00	22.00	24.00	30.00	15.74	12.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.33	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.75	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	9.00	24.00	58.00	6.70	9.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2728.97	2908.03	3020.76	3224.69	3372.25	3597.73	3803.31	3229.78	351.48
Total drops	0.00	61.00	127.00	174.50	233.00	266.00	324.00	172.97	106.00
Congestion drops	0.00	61.00	126.00	173.50	232.00	265.00	321.00	171.83	106.00
Error drops	0.00	0.00	0.00	0.00	1.00	4.00	9.00	1.14	1.00
End-to-end delay	309.21	1329.15	1730.17	2197.20	3043.57	4108.73	5545.98	2440.62	1313.41
IP packet delay variation	-20.04	-19.94	-11.01	-11.00	-10.99	0.00	3004.98	1.75	0.02
Consecutive packets dropped	1.00	1.00	2.00	3.00	7.00	22.00	143.00	9.23	5.00

Link with High ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4982.14	5681.07	6299.95	6544.48	6750.67	6895.39	7199.31	6432.66	450.71
Fairness of sim. thr. (F+S)	0.50	0.81	0.93	0.97	0.99	1.00	1.00	0.94	0.06
Fairness of sim. thr. (all)	0.62	0.79	0.85	0.90	0.93	0.95	0.98	0.88	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	81.75	98.41	105.20	110.64	116.75	121.43	142.91	110.42	11.55
Throughput	2579.10	3027.22	3157.25	3331.88	3495.76	3741.85	4509.13	3367.00	338.51
Simultaneous throughput	0.00	1321.40	1576.49	1847.46	2193.45	2607.86	3083.46	1902.34	616.96
Total drops	0.00	6.00	13.00	18.00	23.00	27.00	46.00	17.80	10.00
Congestion drops	0.00	5.00	12.00	18.00	22.00	27.00	45.00	16.92	10.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.88	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.51	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	17.00	63.00	4.48	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.70	117.02	119.39	123.16	129.04	141.81	163.25	126.28	9.65
Throughput	2257.79	2585.55	2854.21	2992.84	3079.88	3149.73	3271.16	2936.06	225.67
Simultaneous throughput	0.00	823.19	1164.63	1498.23	1777.84	2035.63	2954.57	1478.33	613.21
Total drops	0.00	3.00	10.00	17.50	21.00	25.00	46.00	15.93	11.00
Congestion drops	0.00	1.00	9.00	16.00	21.00	24.00	45.00	14.87	12.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.06	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	5.00	9.00	1.49	2.00
Unnecessary retransmissions	0.00	0.00	0.00	4.00	18.00	41.00	67.00	12.48	18.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2433.85	2758.81	2871.55	3070.50	3276.09	3475.04	3763.52	3085.67	404.54
Total drops	12.00	99.00	157.00	221.00	279.00	311.00	413.00	216.43	122.00
Congestion drops	12.00	97.00	157.00	220.00	279.00	309.00	413.00	215.47	122.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	9.00	0.96	1.00
End-to-end delay	309.21	756.90	1071.90	1560.42	2506.61	3554.71	5563.04	1871.67	1434.70
IP packet delay variation	-20.05	-19.95	-11.01	-11.00	-10.99	0.00	2997.02	1.45	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	6.00	280.00	5.81	1.00

Link with High ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5104.98	6337.76	6554.73	6747.43	6881.65	7008.21	7133.01	6675.83	326.92
Fairness of sim. thr. (F+S)	0.51	0.74	0.86	0.97	0.99	1.00	1.00	0.92	0.13
Fairness of sim. thr. (all)	0.45	0.65	0.70	0.75	0.80	0.83	0.91	0.75	0.10
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	76.22	94.86	106.15	111.70	116.58	119.69	155.92	110.27	10.43
Throughput	2364.18	3069.13	3161.55	3300.18	3465.67	3823.52	4835.82	3379.58	304.12
Simultaneous throughput	150.45	929.92	1155.55	1520.29	1729.55	2046.19	3013.03	1479.77	574.01
Total drops	0.00	10.00	15.00	21.00	24.00	28.00	39.00	19.41	9.00
Congestion drops	0.00	9.00	14.00	20.50	23.00	27.00	39.00	18.74	9.00

Error drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.67	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	9.00	0.21	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	6.00	59.00	2.08	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.55	117.57	119.72	122.19	125.67	129.67	161.47	123.79	5.95
Throughput	2282.51	2833.79	2932.66	3017.01	3077.73	3135.76	3190.57	2986.33	145.07
Simultaneous throughput	24.10	545.88	804.37	1124.38	1407.43	1605.49	2714.89	1116.84	603.06
Total drops	0.00	3.00	13.00	19.00	23.00	26.00	32.00	17.29	10.00
Congestion drops	0.00	2.00	11.00	18.00	22.00	25.00	32.00	16.25	11.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.04	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	11.00	0.59	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	6.00	19.00	69.00	5.53	6.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3766.84	3790.05	3796.68	3803.31	3803.31	3803.31	3803.31	3799.08	6.63
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	11.00	1.27	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	11.00	1.27	2.00
End-to-end delay	309.22	1156.54	1204.14	1272.15	2043.15	3084.70	4183.84	1682.10	839.01
IP packet delay variation	-20.06	-19.94	-11.01	-11.00	-10.99	-10.97	3005.07	-0.09	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	3.00	1.13	0.00

Link with High ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5082.68	5854.28	6156.62	6451.10	6660.70	6811.81	6996.30	6374.74	504.07
Fairness of sim. thr. (F+S)	0.50	0.78	0.89	0.97	0.99	1.00	1.00	0.92	0.10
Fairness of sim. thr. (all)	0.47	0.65	0.73	0.77	0.80	0.83	0.90	0.76	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	85.55	98.59	108.55	115.60	120.87	125.22	142.07	114.27	12.32
Throughput	2595.22	2933.73	3042.27	3188.96	3387.22	3668.78	4309.25	3255.44	344.96
Simultaneous throughput	375.26	824.49	1081.24	1472.29	1826.72	2120.25	2761.65	1468.16	745.48
Total drops	0.00	6.00	13.00	16.00	19.00	23.00	32.00	15.50	6.00
Congestion drops	0.00	4.00	12.00	15.00	19.00	22.00	30.00	14.75	7.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.77	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	12.00	22.00	50.00	6.67	12.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.84	120.74	123.54	127.74	133.65	139.54	162.18	129.81	10.11
Throughput	2272.84	2617.79	2753.19	2885.91	2982.09	3047.64	3128.24	2851.45	228.90
Simultaneous throughput	0.00	578.20	978.51	1301.65	1529.90	1723.94	2102.51	1226.70	551.39
Total drops	0.00	4.00	12.00	17.00	19.00	23.00	33.00	15.17	7.00
Congestion drops	0.00	2.00	11.00	15.50	18.00	22.00	30.00	14.03	7.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.13	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.78	3.00
Unnecessary retransmissions	0.00	0.00	0.00	12.00	23.00	36.00	60.00	14.18	23.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3780.10	3790.05	3796.68	3803.31	3803.31	3803.31	3803.31	3799.64	6.63
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.11	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.11	2.00
End-to-end delay	309.22	1137.05	1198.97	1269.57	2015.54	3059.17	4196.64	1669.48	816.57
IP packet delay variation	-20.07	-19.94	-11.01	-11.00	-10.99	-10.97	3005.68	-0.13	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.04	0.00

Link with High ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6081.02	6509.26	6626.91	6762.04	6912.61	7003.65	7098.25	6757.99	285.70
Fairness of sim. thr. (F+S)	0.50	0.93	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.62	0.83	0.86	0.89	0.91	0.93	0.96	0.88	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.36	99.99	105.76	111.89	116.57	118.25	126.09	110.76	10.81
Throughput	2924.06	3112.12	3162.63	3294.81	3458.15	3684.90	4035.22	3342.21	295.52
Simultaneous throughput	1028.26	1431.76	1588.88	1840.51	2025.57	2228.07	2739.59	1835.86	436.69
Total drops	0.00	1.00	2.00	3.00	5.00	9.00	28.00	4.87	3.00
Congestion drops	0.00	0.00	1.00	3.00	5.00	9.00	28.00	4.32	4.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.54	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	16.00	0.74	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.30	116.46	117.93	120.21	122.31	124.65	134.40	120.49	4.38
Throughput	2742.45	2948.78	3011.10	3066.99	3123.94	3163.70	3224.96	3061.89	112.84
Simultaneous throughput	0.00	1155.88	1382.68	1596.20	1778.18	2036.87	2654.56	1587.14	395.51
Total drops	0.00	2.00	3.00	5.00	6.00	11.00	27.00	6.06	3.00
Congestion drops	0.00	1.00	2.00	3.00	5.00	9.00	26.00	4.78	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.27	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	11.00	0.96	1.00

Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2924.60	3060.56	3213.09	3354.01	3471.72	3554.62	3803.31	3342.46	258.64
Total drops	0.00	75.00	99.00	135.50	178.00	214.00	265.00	138.98	79.00
Congestion drops	0.00	71.00	99.00	135.50	175.00	211.00	264.00	137.88	76.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	8.00	1.10	2.00
End-to-end delay	309.22	1412.15	1754.22	2198.81	3074.63	4090.32	5480.11	2460.22	1320.41
IP packet delay variation	-20.06	-19.94	-11.01	-11.00	-10.99	-10.95	2996.22	2.07	0.02
Consecutive packets dropped	1.00	1.00	1.00	3.00	7.00	33.00	140.00	10.74	6.00

Link with High ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6137.97	6443.99	6576.95	6725.22	6835.34	6984.95	7180.21	6718.07	258.39
Fairness of sim. thr. (F+S)	0.82	0.91	0.95	0.99	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.74	0.82	0.86	0.90	0.93	0.95	0.98	0.89	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	83.87	101.47	107.07	111.28	116.28	120.35	123.82	111.05	9.22
Throughput	2976.72	3059.46	3169.07	3313.07	3439.88	3631.16	4395.22	3336.02	270.81
Simultaneous throughput	983.83	1431.87	1599.26	1868.67	2131.16	2357.79	3091.69	1885.33	531.89
Total drops	0.00	0.00	1.00	3.00	5.00	8.00	24.00	4.37	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	7.00	24.00	3.75	4.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	11.00	0.65	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.89	115.87	118.67	120.84	123.47	125.69	134.17	120.96	4.79
Throughput	2747.82	2928.36	2979.94	3050.87	3104.60	3178.75	3236.78	3050.41	124.66
Simultaneous throughput	772.92	1131.82	1327.63	1570.05	1810.40	2071.52	2653.21	1592.86	482.77
Total drops	0.00	0.00	2.00	3.00	5.00	9.00	30.00	4.62	3.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	8.00	28.00	3.46	4.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.16	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.67	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	2.00	13.00	1.08	1.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2626.18	2898.08	3020.76	3259.51	3508.20	3687.26	3776.79	3267.71	487.43
Total drops	8.00	33.00	89.00	164.00	231.00	270.00	355.00	161.52	142.00
Congestion drops	5.00	31.00	87.00	163.00	231.00	270.00	354.00	160.39	144.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	9.00	1.13	2.00
End-to-end delay	309.21	811.40	1099.81	1627.51	2436.12	3453.38	5518.13	1874.20	1336.31
IP packet delay variation	-20.06	-19.95	-11.01	-11.00	-10.99	0.00	3005.02	1.76	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	4.00	235.00	5.60	0.00

Link with High ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6420.54	6585.91	6687.57	6804.86	6907.11	7010.99	7204.95	6798.24	219.54
Fairness of sim. thr. (F+S)	0.66	0.91	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.51	0.72	0.76	0.80	0.83	0.84	0.90	0.79	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	82.52	101.15	108.25	113.94	117.51	119.89	122.56	112.08	9.26
Throughput	3007.88	3071.28	3126.09	3235.70	3399.04	3634.39	4467.22	3307.49	272.96
Simultaneous throughput	552.31	1135.00	1299.69	1537.64	1706.16	1902.48	2414.09	1534.77	406.46
Total drops	0.00	1.00	1.00	3.00	6.00	15.00	34.00	5.33	5.00
Congestion drops	0.00	0.00	1.00	2.00	5.00	15.00	34.00	4.68	4.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.14	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	15.00	0.34	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.43	117.37	119.17	121.14	123.21	125.10	128.36	121.30	4.04
Throughput	2871.40	2945.55	2990.69	3042.81	3091.70	3134.69	3221.73	3040.95	101.01
Simultaneous throughput	225.11	893.89	1142.24	1372.57	1603.69	1725.81	2047.20	1338.59	461.46
Total drops	0.00	2.00	3.00	4.00	6.00	9.00	24.00	5.44	3.00
Congestion drops	0.00	0.00	2.00	3.00	5.00	8.00	22.00	4.22	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.23	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.26	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	21.00	0.80	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3780.10	3790.05	3796.68	3803.31	3803.31	3803.31	3803.31	3799.61	6.63
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.12	2.00
End-to-end delay	309.22	1171.33	1210.76	1274.71	2071.15	3103.49	4162.46	1707.84	860.39
IP packet delay variation	-20.08	-19.94	-11.01	-11.00	-10.99	-10.97	3005.08	-0.13	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.08	0.00

Link with High ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6084.35	6429.82	6557.09	6660.44	6792.38	6923.39	7108.10	6667.62	235.29
Fairness of sim. thr. (F+S)	0.76	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.65	0.74	0.78	0.81	0.83	0.86	0.91	0.80	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	93.60	101.15	107.99	114.66	118.81	122.14	125.50	113.22	10.83
Throughput	2936.96	3017.55	3102.45	3214.75	3414.09	3620.42	3938.51	3271.00	311.64
Simultaneous throughput	858.12	1277.64	1408.33	1607.85	1787.24	2028.42	2675.02	1621.83	378.91
Total drops	0.00	0.00	1.00	2.00	3.00	7.00	38.00	3.33	2.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	6.00	37.00	2.68	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.64	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	10.00	0.64	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.99	118.82	121.35	123.75	125.69	128.02	135.47	123.70	4.34
Throughput	2720.96	2875.70	2931.58	2978.87	3036.90	3101.37	3178.75	2982.48	105.31
Simultaneous throughput	499.33	955.65	1183.76	1365.21	1557.33	1730.30	2072.84	1361.97	373.57
Total drops	0.00	0.00	1.00	2.00	4.00	8.00	33.00	3.73	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	7.00	29.00	2.60	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.13	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.75	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	16.00	1.50	1.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3776.79	3790.05	3796.68	3803.31	3803.31	3803.31	3803.31	3799.22	6.63
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	8.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	4.00	8.00	1.23	2.00
End-to-end delay	309.22	1167.20	1207.49	1272.24	2056.66	3111.59	4154.51	1701.07	849.17
IP packet delay variation	-20.05	-19.94	-11.01	-11.00	-10.99	-10.97	3005.11	-0.14	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.06	0.00

Link with Medium ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5377.11	5827.32	6126.06	6408.70	6723.74	6915.30	7280.35	6389.64	597.68
Fairness of sim. thr. (F+S)	0.64	0.77	0.90	0.97	0.99	1.00	1.00	0.93	0.09
Fairness of sim. thr. (all)	0.70	0.77	0.85	0.87	0.90	0.92	0.95	0.86	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	80.09	96.95	104.34	112.23	117.47	125.19	133.64	111.30	13.13
Throughput	2758.57	2936.96	3119.64	3284.60	3524.78	3794.51	4602.63	3343.59	405.13
Simultaneous throughput	550.24	1373.63	1706.14	2057.71	2268.72	2554.26	3551.77	2013.62	562.57
Total drops	6.00	11.00	13.00	23.50	29.00	34.00	43.00	22.37	16.00
Congestion drops	0.00	0.00	2.00	12.00	19.00	23.00	34.00	11.66	17.00
Error drops	3.00	6.00	8.00	11.00	12.00	15.00	22.00	10.72	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.69	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	5.00	12.00	26.00	3.42	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	111.42	117.66	121.42	127.62	133.71	140.50	152.04	128.40	12.29
Throughput	2424.36	2621.01	2747.82	2888.60	3035.82	3105.67	3308.78	2883.87	288.00
Simultaneous throughput	324.10	795.59	1175.13	1529.58	1785.00	2047.00	2867.28	1494.25	609.87
Total drops	7.00	12.00	14.00	22.00	28.00	33.00	42.00	21.92	14.00
Congestion drops	0.00	0.00	2.00	9.50	17.00	19.00	31.00	9.61	15.00
Error drops	4.00	7.00	10.00	12.00	15.00	17.00	22.00	12.31	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	9.00	1.44	2.00
Unnecessary retransmissions	0.00	0.00	0.00	5.00	12.00	20.00	44.00	7.73	12.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2891.45	3236.30	3352.35	3498.25	3614.31	3720.42	3786.73	3480.73	261.95
Total drops	5.00	24.00	57.00	92.00	133.00	171.00	275.00	97.28	76.00
Congestion drops	0.00	5.00	33.00	70.50	116.00	156.00	261.00	79.93	83.00
Error drops	0.00	4.00	11.00	17.00	22.00	29.00	46.00	17.35	11.00
End-to-end delay	309.21	1047.33	1395.41	1815.98	2452.35	3241.53	4762.05	1980.55	1056.94
IP packet delay variation	-20.84	-19.95	-11.01	-11.00	-10.99	0.00	1605.04	-0.57	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	3.00	7.00	72.00	3.82	2.00

Link with Medium ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5260.22	5597.51	5940.37	6306.35	6656.90	6885.32	7188.42	6290.54	716.53
Fairness of sim. thr. (F+S)	0.51	0.85	0.93	0.97	0.99	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.66	0.79	0.85	0.90	0.92	0.94	0.98	0.88	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.27	99.35	107.36	113.64	119.51	125.45	134.29	113.36	12.15
Throughput	2744.60	2920.84	3083.10	3243.76	3419.46	3692.42	4038.45	3275.29	336.36
Simultaneous throughput	553.36	1249.49	1595.32	1865.76	2198.95	2526.92	3520.95	1889.51	603.64
Total drops	4.00	9.00	13.00	22.00	28.00	33.00	48.00	21.83	15.00

Congestion drops	0.00	0.00	2.00	12.00	18.00	22.00	38.00	11.39	16.00
Error drops	2.00	6.00	8.00	10.00	13.00	16.00	20.00	10.44	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	6.00	11.00	26.00	3.28	6.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.27	118.13	122.16	128.88	136.38	144.94	154.10	130.11	14.22
Throughput	2392.12	2542.57	2686.57	2860.12	3013.25	3108.90	3282.99	2848.71	326.69
Simultaneous throughput	24.69	1045.08	1442.30	1652.01	1948.55	2343.76	2842.27	1693.22	506.25
Total drops	9.00	11.00	15.00	21.50	28.00	33.00	41.00	21.91	13.00
Congestion drops	0.00	0.00	1.00	8.50	16.00	20.00	31.00	9.33	15.00
Error drops	4.00	9.00	10.00	13.00	15.00	16.00	25.00	12.58	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.83	3.00
Unnecessary retransmissions	0.00	0.00	0.00	6.00	15.00	23.00	50.00	9.42	15.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2762.13	3007.50	3166.66	3360.64	3607.68	3687.26	3750.26	3360.75	441.01
Total drops	16.00	34.00	58.00	133.50	192.00	238.00	314.00	133.47	134.00
Congestion drops	0.00	12.00	39.00	120.00	173.00	223.00	309.00	116.39	134.00
Error drops	0.00	6.00	10.00	17.00	22.00	30.00	45.00	17.07	12.00
End-to-end delay	309.21	625.48	940.12	1417.58	2057.20	2788.19	4814.71	1583.73	1117.08
IP packet delay variation	-20.09	-19.95	-11.01	-11.00	-10.99	0.00	1605.07	-0.17	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	3.00	174.00	3.07	0.00

Link with Medium ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5359.56	5778.50	6195.03	6464.52	6715.48	6953.51	7334.29	6418.17	520.45
Fairness of sim. thr. (F+S)	0.50	0.76	0.87	0.96	0.99	1.00	1.00	0.91	0.12
Fairness of sim. thr. (all)	0.47	0.75	0.78	0.83	0.86	0.88	0.91	0.82	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	82.77	95.22	103.39	112.04	118.32	122.25	142.21	110.71	14.92
Throughput	2592.00	3014.33	3113.19	3289.97	3564.54	3867.58	4453.25	3362.45	451.34
Simultaneous throughput	175.52	1223.05	1532.43	1918.83	2215.26	2500.25	3466.48	1874.44	682.83
Total drops	5.00	10.00	14.00	24.00	30.00	35.00	43.00	22.71	16.00
Congestion drops	0.00	0.00	1.00	13.00	18.00	23.00	32.00	11.74	17.00
Error drops	2.00	7.00	8.00	11.00	13.00	15.00	22.00	10.97	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.45	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	9.00	20.00	2.08	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	111.92	118.23	122.47	127.29	132.81	141.39	153.71	128.77	10.34
Throughput	2398.57	2593.07	2775.76	2895.58	3003.58	3116.42	3293.73	2875.99	227.82
Simultaneous throughput	0.00	650.95	1001.34	1363.40	1674.32	2063.99	2631.56	1352.30	672.98
Total drops	8.00	10.00	13.00	21.00	26.00	31.00	44.00	20.77	13.00
Congestion drops	0.00	0.00	0.00	6.00	15.00	20.00	26.00	8.38	15.00
Error drops	4.00	8.00	10.00	12.00	14.00	18.00	21.00	12.39	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.39	2.00
Unnecessary retransmissions	0.00	0.00	0.00	5.00	13.00	21.00	36.00	7.97	13.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3630.89	3687.26	3713.78	3740.31	3763.52	3783.42	3803.31	3736.08	49.74
Total drops	0.00	6.00	12.00	19.00	27.00	35.00	52.00	20.27	15.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	6.00	12.00	19.00	27.00	35.00	52.00	20.27	15.00
End-to-end delay	309.21	775.73	1143.39	1232.28	1361.06	2550.66	3438.39	1391.96	217.67
IP packet delay variation	-20.04	-19.96	-11.02	-11.00	-10.99	0.00	1605.05	-1.11	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	7.00	1.28	0.00

Link with Medium ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5166.98	5829.01	6082.81	6379.55	6627.08	6879.58	7257.10	6356.38	544.27
Fairness of sim. thr. (F+S)	0.50	0.79	0.88	0.96	0.99	1.00	1.00	0.92	0.11
Fairness of sim. thr. (all)	0.56	0.73	0.78	0.83	0.86	0.88	0.91	0.82	0.08
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	82.51	96.19	106.86	113.38	118.98	124.85	138.11	112.08	12.12
Throughput	2669.37	2940.18	3096.00	3251.82	3442.03	3712.84	4467.22	3323.00	346.03
Simultaneous throughput	538.78	1176.79	1575.77	1867.00	2160.58	2425.26	3239.11	1866.90	584.80
Total drops	4.00	10.00	15.00	22.00	28.00	32.00	48.00	21.71	13.00
Congestion drops	0.00	0.00	2.00	11.00	17.00	21.00	30.00	10.98	15.00
Error drops	3.00	6.00	8.00	10.00	13.00	16.00	22.00	10.72	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	5.00	10.00	24.00	2.84	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.42	119.57	123.94	129.00	135.00	140.59	159.30	130.00	11.07
Throughput	2313.67	2611.34	2728.48	2857.97	2965.97	3077.73	3250.75	2848.32	237.49
Simultaneous throughput	0.00	676.26	1002.00	1349.06	1633.32	1908.49	2593.68	1332.98	631.32
Total drops	6.00	11.00	13.00	20.00	26.00	30.00	45.00	20.47	13.00
Congestion drops	0.00	0.00	1.00	7.50	14.00	17.00	30.00	8.05	13.00
Error drops	5.00	8.00	10.00	12.00	15.00	17.00	28.00	12.42	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.46	2.00

Unnecessary retransmissions	0.00	0.00	0.00	5.00	10.00	20.00	31.00	7.35	10.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3614.31	3680.62	3713.78	3743.63	3760.21	3776.78	3800.00	3735.64	46.42
Total drops	1.00	8.00	13.00	18.00	27.00	37.00	57.00	20.41	14.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	1.00	8.00	13.00	18.00	27.00	37.00	57.00	20.41	14.00
End-to-end delay	309.21	789.88	1151.31	1233.20	1363.42	2546.62	3432.08	1393.55	212.12
IP packet delay variation	-20.06	-19.96	-11.02	-11.00	-10.99	0.00	1614.75	-1.13	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	5.00	1.26	0.00

Link with Medium ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5611.51	5977.68	6166.40	6426.74	6749.95	6961.60	7325.64	6458.71	583.55
Fairness of sim. thr. (F+S)	0.76	0.90	0.94	0.98	1.00	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.79	0.83	0.85	0.87	0.89	0.91	0.94	0.87	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.14	100.66	107.31	113.34	119.09	124.79	132.26	113.14	11.79
Throughput	2787.58	2944.48	3093.85	3252.90	3434.51	3659.10	4044.90	3278.74	340.66
Simultaneous throughput	804.01	1399.00	1696.69	1919.47	2187.51	2395.19	3115.50	1936.25	490.82
Total drops	2.00	6.00	8.00	11.00	13.00	15.00	31.00	11.12	5.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	21.00	1.21	1.00
Error drops	1.00	5.00	8.00	10.00	12.00	14.00	20.00	9.91	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.54	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	3.00	7.00	14.00	2.03	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.27	117.35	121.71	127.99	132.48	137.20	146.80	127.56	10.78
Throughput	2511.40	2686.57	2774.69	2880.54	3022.93	3136.84	3282.99	2899.33	248.24
Simultaneous throughput	878.52	1124.64	1385.34	1676.50	1883.38	2160.89	2814.02	1669.21	498.04
Total drops	6.00	8.00	10.00	13.00	15.00	19.00	29.00	13.53	5.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	20.00	1.28	1.00
Error drops	4.00	8.00	9.00	12.00	15.00	17.00	22.00	12.25	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.24	2.00
Unnecessary retransmissions	0.00	0.00	0.00	2.00	5.00	8.00	21.00	3.33	5.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3103.66	3554.62	3630.89	3698.86	3740.31	3756.89	3800.00	3671.06	109.42
Total drops	1.00	13.00	19.00	31.50	52.00	73.00	211.00	39.88	33.00
Congestion drops	0.00	0.00	0.00	9.00	26.00	58.00	198.00	20.79	26.00
Error drops	0.00	5.00	13.00	18.00	24.00	32.00	49.00	19.09	11.00
End-to-end delay	309.21	876.85	1166.77	1559.21	2142.62	2896.68	4650.69	1721.99	975.85
IP packet delay variation	-20.09	-19.96	-11.02	-11.00	-10.99	0.00	1674.04	-0.60	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	65.00	2.26	1.00

Link with Medium ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5678.86	5969.24	6179.98	6448.42	6704.37	6865.67	7172.05	6429.97	524.39
Fairness of sim. thr. (F+S)	0.65	0.91	0.95	0.98	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.75	0.83	0.86	0.88	0.90	0.92	0.97	0.88	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.82	100.91	108.47	115.02	121.49	125.90	139.73	114.42	13.02
Throughput	2638.21	2921.91	3031.52	3205.07	3397.97	3646.21	4014.81	3243.00	366.45
Simultaneous throughput	977.61	1441.21	1732.48	1958.31	2184.69	2405.15	3120.99	1960.83	452.21
Total drops	2.00	6.00	8.00	11.00	14.00	19.00	36.00	12.33	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	5.00	27.00	2.22	0.00
Error drops	2.00	6.00	8.00	10.00	12.00	14.00	19.00	10.11	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.79	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	6.00	10.00	14.00	3.27	6.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.53	119.15	122.34	127.08	132.87	137.20	143.69	127.87	10.52
Throughput	2565.13	2684.42	2768.24	2900.96	3012.18	3087.40	3276.54	2891.61	243.94
Simultaneous throughput	465.82	1231.44	1397.45	1627.48	1877.95	2160.15	2732.30	1654.37	480.50
Total drops	4.00	8.00	11.00	13.00	15.00	21.00	35.00	14.17	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	5.00	27.00	1.92	0.00
Error drops	4.00	8.00	10.00	12.00	15.00	16.00	21.00	12.25	5.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	3.00	5.00	1.36	1.00
Unnecessary retransmissions	0.00	0.00	1.00	3.00	6.00	9.00	13.00	3.95	5.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3024.08	3299.30	3591.10	3657.41	3720.42	3743.63	3803.31	3610.30	129.32
Total drops	0.00	17.00	25.00	44.00	62.00	137.00	235.00	58.21	37.00
Congestion drops	0.00	0.00	3.00	23.00	44.00	129.00	228.00	39.71	41.00
Error drops	0.00	4.00	12.00	17.50	24.00	32.00	57.00	18.50	12.00
End-to-end delay	309.21	754.59	1014.75	1400.94	1902.66	2667.74	4629.73	1549.74	887.91
IP packet delay variation	-137.56	-19.96	-11.02	-11.00	-10.99	0.00	1605.05	-0.38	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	150.00	1.86	0.00

Link with Medium ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5213.74	6050.55	6327.09	6509.02	6740.74	6923.02	7236.98	6502.29	413.65
Fairness of sim. thr. (F+S)	0.75	0.91	0.95	0.98	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.70	0.80	0.84	0.86	0.88	0.89	0.91	0.85	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	81.80	98.86	107.46	113.75	119.11	124.79	139.58	112.93	11.64
Throughput	2641.43	2939.10	3089.55	3241.07	3405.49	3718.21	4506.99	3290.18	315.94
Simultaneous throughput	1127.83	1417.16	1673.06	1826.22	2086.70	2281.85	3134.30	1866.05	413.64
Total drops	2.00	5.00	8.00	10.00	13.00	16.00	42.00	11.41	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	30.00	1.43	0.00
Error drops	2.00	5.00	7.00	10.00	12.00	15.00	19.00	9.98	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	8.00	13.00	2.42	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.80	117.97	121.97	126.36	129.96	135.91	157.71	126.93	7.99
Throughput	2337.31	2711.28	2834.87	2917.61	3020.78	3105.67	3238.93	2913.50	185.91
Simultaneous throughput	514.43	1150.55	1354.48	1663.23	1834.90	2017.32	2535.21	1607.89	480.43
Total drops	5.00	8.00	10.00	12.00	15.00	18.00	37.00	13.19	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	25.00	0.86	0.00
Error drops	5.00	8.00	10.00	12.00	15.00	17.00	25.00	12.33	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.00	2.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	5.00	9.00	19.00	3.19	5.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3591.10	3683.94	3713.78	3740.31	3763.52	3780.10	3803.31	3736.58	49.74
Total drops	0.00	6.00	12.00	19.00	27.00	35.00	64.00	20.12	15.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	6.00	12.00	19.00	27.00	35.00	64.00	20.12	15.00
End-to-end delay	309.21	751.53	1058.08	1222.13	1348.37	2541.77	3448.83	1369.63	290.29
IP packet delay variation	-56.77	-19.96	-11.02	-11.00	-10.99	0.00	1605.05	-0.85	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.26	0.00

Link with Medium ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5513.66	6057.94	6255.79	6477.34	6712.40	6952.53	7317.87	6481.29	456.61
Fairness of sim. thr. (F+S)	0.65	0.89	0.94	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.67	0.81	0.84	0.86	0.88	0.89	0.91	0.85	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.43	103.93	108.56	113.55	117.84	121.94	131.08	113.07	9.28
Throughput	2812.30	2994.99	3127.16	3246.45	3390.45	3546.27	4032.00	3276.56	263.28
Simultaneous throughput	300.91	1396.94	1588.45	1851.42	2097.51	2372.11	2813.54	1875.17	509.06
Total drops	1.00	6.00	8.00	11.00	13.00	17.00	35.00	11.41	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	20.00	1.16	0.00
Error drops	1.00	6.00	8.00	10.00	13.00	15.00	21.00	10.25	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	3.00	8.00	16.00	2.24	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.24	118.22	122.32	126.76	131.29	135.63	149.50	127.29	8.97
Throughput	2466.27	2712.36	2805.85	2908.48	3010.03	3109.97	3284.06	2904.23	204.18
Simultaneous throughput	570.55	1154.59	1403.51	1614.02	1832.42	2031.55	2583.29	1604.99	428.90
Total drops	5.00	8.00	10.00	13.00	16.00	19.00	36.00	13.53	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	19.00	0.95	0.00
Error drops	5.00	8.00	10.00	12.00	15.00	17.00	24.00	12.58	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Unnecessary retransmissions	0.00	0.00	0.00	2.50	6.00	9.00	14.00	3.62	6.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3571.20	3680.62	3717.10	3741.97	3763.52	3780.10	3803.31	3736.03	46.42
Total drops	0.00	6.00	12.00	18.50	26.00	36.00	70.00	20.29	14.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	6.00	12.00	18.50	26.00	36.00	70.00	20.29	14.00
End-to-end delay	309.21	762.13	1056.92	1221.31	1349.99	2543.00	3444.93	1370.70	293.07
IP packet delay variation	-68.05	-19.96	-11.02	-11.00	-10.99	0.00	1673.98	-0.85	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.26	0.00

Link with Low ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5000.17	5433.70	5620.83	5920.75	6251.16	6468.95	6926.89	5954.17	630.33
Fairness of sim. thr. (F+S)	0.50	0.85	0.96	0.99	1.00	1.00	1.00	0.95	0.04
Fairness of sim. thr. (all)	0.66	0.83	0.87	0.90	0.91	0.93	0.96	0.88	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	88.30	110.83	116.42	124.01	128.44	137.80	149.29	123.03	12.02
Throughput	2469.49	2674.75	2866.03	2972.42	3130.39	3323.82	4174.93	3020.11	264.36
Simultaneous throughput	1052.23	1584.25	1778.28	2008.15	2324.52	2723.94	3688.18	2075.82	546.24
Total drops	16.00	24.00	29.00	34.50	40.00	47.00	58.00	35.03	11.00

Congestion drops	0.00	0.00	0.00	1.00	10.00	17.00	29.00	5.64	10.00
Error drops	16.00	21.00	26.00	30.00	33.00	37.00	47.00	29.39	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.06	2.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	7.00	16.00	2.49	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.58	125.40	130.32	138.02	145.72	148.71	164.00	138.00	15.40
Throughput	2248.12	2455.52	2528.60	2670.99	2826.27	2920.84	3134.69	2684.10	297.67
Simultaneous throughput	0.00	1130.33	1426.47	1693.48	1932.01	2146.65	2833.30	1640.79	505.54
Total drops	21.00	25.00	31.00	35.00	42.00	49.00	72.00	36.84	11.00
Congestion drops	0.00	0.00	0.00	1.00	9.00	15.00	29.00	5.08	9.00
Error drops	20.00	23.00	27.00	31.00	37.00	41.00	51.00	31.77	10.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	8.00	1.32	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.00	5.00	8.00	15.00	3.16	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3050.61	3345.72	3438.57	3538.04	3614.31	3677.31	3756.89	3522.32	175.74
Total drops	14.00	37.00	56.00	80.00	109.00	137.00	227.00	84.74	53.00
Congestion drops	0.00	0.00	0.00	0.00	42.00	78.00	187.00	24.07	42.00
Error drops	14.00	28.00	40.00	59.00	78.00	101.00	138.00	60.68	38.00
End-to-end delay	309.21	550.43	867.50	1284.47	1770.60	2352.10	3486.32	1375.48	903.10
IP packet delay variation	-20.05	-19.94	-11.01	-11.00	-10.99	0.00	977.04	-0.73	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	45.00	1.95	1.00

Link with Low ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4712.68	5370.67	5636.84	5911.86	6280.74	6522.83	6929.25	5930.14	643.90
Fairness of sim. thr. (F+S)	0.66	0.87	0.93	0.98	0.99	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.74	0.84	0.87	0.89	0.91	0.93	0.98	0.89	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	95.14	110.48	116.68	123.69	132.69	139.66	150.50	124.27	16.01
Throughput	2449.07	2629.61	2777.91	2980.48	3148.66	3323.82	3875.10	2992.07	370.75
Simultaneous throughput	948.43	1457.29	1732.79	2078.12	2370.83	2653.85	3742.28	2069.94	638.05
Total drops	18.00	25.00	29.00	35.00	41.00	47.00	73.00	35.74	12.00
Congestion drops	0.00	0.00	0.00	2.00	11.00	19.00	35.00	6.56	11.00
Error drops	14.00	22.00	25.00	28.00	34.00	37.00	46.00	29.18	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	6.00	0.96	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	6.00	14.00	2.25	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.66	125.03	129.85	137.57	144.35	151.17	173.93	138.34	14.50
Throughput	2119.16	2418.99	2543.64	2680.12	2819.82	2947.70	3133.61	2679.60	276.18
Simultaneous throughput	615.51	1098.13	1378.38	1614.31	1993.68	2214.83	2874.24	1673.30	615.30
Total drops	19.00	27.00	30.00	36.00	41.00	46.00	65.00	36.38	11.00
Congestion drops	0.00	0.00	0.00	1.00	9.00	17.00	26.00	5.05	9.00
Error drops	17.00	23.00	27.00	30.50	36.00	39.00	50.00	31.32	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.17	2.00
Unnecessary retransmissions	0.00	0.00	0.00	2.00	4.00	7.00	13.00	2.82	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2387.43	3073.82	3375.56	3513.17	3591.10	3654.10	3733.68	3436.24	215.53
Total drops	21.00	44.00	64.00	87.50	127.00	214.00	427.00	110.70	63.00
Congestion drops	0.00	0.00	0.00	15.00	65.00	169.00	398.00	50.47	65.00
Error drops	9.00	28.00	40.00	59.50	76.00	92.00	127.00	60.23	36.00
End-to-end delay	309.21	469.95	710.60	1092.16	1597.09	2142.75	3499.29	1218.06	886.49
IP packet delay variation	-123.27	-19.94	-11.01	-11.00	-10.98	0.01	1049.03	-0.29	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	183.00	2.07	1.00

Link with Low ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4863.18	5395.48	5655.47	5945.06	6187.90	6514.45	6941.75	5941.83	532.43
Fairness of sim. thr. (F+S)	0.65	0.88	0.94	0.98	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.72	0.82	0.86	0.89	0.91	0.92	0.93	0.88	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	95.93	107.37	115.66	120.86	129.59	138.09	149.78	122.54	13.93
Throughput	2460.90	2657.55	2837.01	3050.33	3181.97	3429.13	3842.87	3035.49	344.96
Simultaneous throughput	922.89	1432.62	1784.01	2030.25	2260.69	2610.67	3213.00	2042.56	476.68
Total drops	16.00	22.00	25.00	31.50	40.00	47.00	66.00	33.46	15.00
Congestion drops	0.00	0.00	0.00	0.00	11.00	17.00	33.00	5.66	11.00
Error drops	16.00	21.00	23.00	27.00	32.00	36.00	42.00	27.80	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.84	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	11.00	1.87	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.29	125.49	132.29	137.67	144.20	151.42	168.33	138.52	11.91
Throughput	2190.09	2426.51	2550.09	2677.97	2781.13	2924.06	3143.28	2674.70	231.04
Simultaneous throughput	376.01	1049.31	1382.94	1657.71	1907.87	2058.49	2499.96	1618.44	524.93
Total drops	17.00	26.00	31.00	35.50	40.00	45.00	61.00	35.62	9.00
Congestion drops	0.00	0.00	0.00	0.00	7.00	14.00	27.00	4.24	7.00
Error drops	16.00	24.00	27.00	32.00	35.00	38.00	45.00	31.38	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.15	2.00

Unnecessary retransmissions	0.00	0.00	1.00	2.00	4.00	6.00	15.00	2.84	3.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3349.04	3435.25	3504.88	3574.52	3637.52	3697.20	3746.94	3571.97	132.63
Total drops	17.00	30.00	50.00	69.00	89.00	110.00	137.00	69.77	39.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	17.00	30.00	50.00	69.00	89.00	110.00	137.00	69.77	39.00
End-to-end delay	309.21	519.59	788.35	1179.46	1274.35	1733.69	2100.87	1099.33	486.00
IP packet delay variation	-118.99	-19.94	-11.01	-11.00	-10.99	0.01	924.99	-0.44	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	10.00	1.54	1.00

Link with Low ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4860.39	5277.24	5684.51	5954.97	6243.32	6428.05	7002.17	5943.12	558.81
Fairness of sim. thr. (F+S)	0.50	0.82	0.94	0.99	1.00	1.00	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.65	0.81	0.86	0.89	0.91	0.92	0.93	0.88	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	93.80	110.37	118.03	125.68	131.88	137.97	148.71	124.67	13.85
Throughput	2479.16	2669.37	2791.88	2933.19	3117.49	3328.12	3929.91	2979.81	325.61
Simultaneous throughput	851.95	1552.31	1735.26	1990.13	2333.84	2541.73	3476.09	2049.06	598.58
Total drops	20.00	23.00	28.00	33.00	39.00	46.00	63.00	34.18	11.00
Congestion drops	0.00	0.00	0.00	0.00	9.00	18.00	23.00	5.46	9.00
Error drops	13.00	22.00	25.00	28.00	32.00	36.00	44.00	28.72	7.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.85	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	3.00	5.00	15.00	1.83	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	116.71	126.90	130.96	137.39	143.93	153.41	168.94	138.53	12.96
Throughput	2182.57	2374.93	2558.69	2682.81	2805.85	2895.04	3158.33	2675.59	247.16
Simultaneous throughput	0.00	898.74	1419.56	1692.74	1904.40	2131.89	2731.24	1624.07	484.84
Total drops	20.00	27.00	31.00	35.00	40.00	45.00	53.00	35.70	9.00
Congestion drops	0.00	0.00	0.00	0.00	9.00	16.00	21.00	4.50	9.00
Error drops	18.00	24.00	27.00	31.00	35.00	38.00	42.00	31.20	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.31	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.00	5.00	8.00	14.00	3.42	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3286.04	3431.93	3508.20	3571.20	3634.20	3690.57	3760.21	3567.22	126.00
Total drops	13.00	33.00	49.00	70.00	88.00	110.00	156.00	71.20	39.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	13.00	33.00	49.00	70.00	88.00	110.00	156.00	71.20	39.00
End-to-end delay	309.21	513.72	773.25	1168.17	1269.21	1708.66	2091.94	1085.77	495.97
IP packet delay variation	-137.13	-19.94	-11.01	-11.00	-10.98	0.02	925.01	-0.35	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	10.00	1.58	1.00

Link with Low ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4761.15	5492.60	5759.59	6012.81	6281.01	6463.77	6970.74	5996.46	521.43
Fairness of sim. thr. (F+S)	0.70	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.78	0.85	0.88	0.90	0.91	0.92	0.93	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	107.30	113.19	119.43	124.37	129.20	135.33	144.60	124.40	9.77
Throughput	2549.01	2719.88	2848.84	2963.82	3085.25	3228.18	3435.58	2976.10	236.42
Simultaneous throughput	1163.50	1582.76	1835.63	2041.54	2320.40	2595.49	3032.36	2070.96	484.77
Total drops	15.00	20.00	23.00	29.00	32.00	36.00	59.00	28.71	9.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	17.00	1.03	0.00
Error drops	15.00	20.00	23.00	28.00	32.00	35.00	46.00	27.68	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.06	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.50	4.00	6.00	18.00	3.13	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.00	126.51	129.59	136.38	142.00	148.36	172.45	137.21	12.40
Throughput	2137.43	2479.16	2590.93	2702.69	2828.42	2906.87	3150.81	2699.28	237.49
Simultaneous throughput	634.68	1301.18	1517.54	1691.95	1910.04	2133.30	2562.56	1716.67	392.50
Total drops	18.00	24.00	27.00	30.00	35.00	40.00	48.00	31.34	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.67	0.00
Error drops	18.00	24.00	27.00	30.00	35.00	37.00	45.00	30.67	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.16	2.00
Unnecessary retransmissions	0.00	0.00	1.00	3.00	5.00	8.00	16.00	3.53	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3339.09	3418.67	3501.57	3579.49	3640.83	3697.20	3763.52	3572.36	139.27
Total drops	12.00	30.00	48.00	67.50	89.00	114.00	140.00	69.65	41.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	88.00	3.47	0.00
Error drops	12.00	27.00	44.00	64.00	83.00	106.00	140.00	66.18	39.00
End-to-end delay	309.21	494.22	703.52	1009.45	1399.65	1917.91	3449.54	1112.10	696.14
IP packet delay variation	-68.13	-19.94	-11.01	-11.00	-10.98	0.00	982.00	-0.33	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	23.00	1.61	1.00

Link with Low ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4973.03	5555.54	5784.40	5972.73	6289.62	6428.68	6864.82	6006.56	505.22
Fairness of sim. thr. (F+S)	0.71	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.80	0.86	0.89	0.90	0.91	0.92	0.95	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.84	114.10	120.37	125.27	132.35	137.26	146.92	125.73	11.98
Throughput	2509.25	2683.34	2780.06	2942.87	3061.61	3230.33	3767.64	2948.12	281.55
Simultaneous throughput	1310.11	1565.33	1826.77	2040.72	2233.20	2558.97	3446.18	2063.41	406.43
Total drops	16.00	20.00	24.00	28.00	34.00	38.00	56.00	29.13	10.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	23.00	0.95	0.00
Error drops	16.00	20.00	24.00	28.00	32.00	36.00	47.00	28.18	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.00	4.00	8.00	15.00	3.15	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.37	126.08	129.99	136.90	140.98	146.54	164.84	136.72	10.99
Throughput	2236.30	2500.66	2612.42	2692.48	2833.79	2916.54	3088.48	2706.11	221.37
Simultaneous throughput	749.17	1354.55	1522.73	1771.23	1910.75	2212.85	2519.19	1753.55	388.02
Total drops	19.00	24.00	26.00	31.00	34.00	38.00	60.00	30.99	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	29.00	0.78	0.00
Error drops	19.00	24.00	26.00	30.00	33.00	37.00	48.00	30.21	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.07	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.00	4.00	7.00	16.00	3.13	3.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	2619.54	3402.09	3484.99	3562.91	3634.20	3700.52	3746.94	3543.26	149.21
Total drops	17.00	30.00	50.00	72.50	95.00	121.00	357.00	78.42	45.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	29.00	290.00	12.47	2.00
Error drops	13.00	28.00	47.00	65.50	83.00	110.00	134.00	65.95	36.00
End-to-end delay	309.21	495.22	705.24	1020.68	1410.05	1882.60	3466.14	1111.75	704.81
IP packet delay variation	-111.06	-19.94	-11.01	-11.00	-10.98	0.00	905.01	-0.20	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	115.00	1.66	1.00

Link with Low ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5232.19	5534.06	5821.59	6014.65	6302.66	6486.11	6845.07	6034.39	481.08
Fairness of sim. thr. (F+S)	0.63	0.93	0.96	0.98	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.73	0.85	0.88	0.90	0.91	0.92	0.94	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	89.08	112.86	119.42	126.27	131.61	137.03	149.90	125.64	12.19
Throughput	2458.75	2682.27	2800.48	2919.22	3076.66	3219.58	4138.39	2952.02	276.18
Simultaneous throughput	649.77	1584.28	1729.17	1990.89	2244.33	2463.40	3264.71	2003.03	515.17
Total drops	15.00	21.00	25.00	28.00	31.00	35.00	53.00	28.29	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.58	0.00
Error drops	15.00	21.00	25.00	28.00	31.00	34.00	41.00	27.72	6.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	3.00	5.00	1.28	1.00
Unnecessary retransmissions	0.00	1.00	1.00	3.00	6.00	9.00	16.00	4.07	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.32	126.32	129.62	136.06	140.55	147.88	156.73	136.15	10.93
Throughput	2352.36	2488.84	2622.09	2709.67	2835.94	2915.46	3089.55	2716.54	213.85
Simultaneous throughput	373.76	1357.62	1515.56	1741.36	2002.56	2199.21	2561.59	1746.02	487.00
Total drops	19.00	23.00	27.00	30.00	34.00	38.00	49.00	30.72	7.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	19.00	0.46	0.00
Error drops	19.00	23.00	27.00	30.00	34.00	38.00	47.00	30.26	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.04	2.00
Unnecessary retransmissions	0.00	0.00	1.00	3.00	5.00	7.00	16.00	3.47	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3282.72	3435.25	3511.51	3572.86	3637.52	3677.31	3760.21	3569.13	126.00
Total drops	13.00	32.00	49.00	69.50	86.00	111.00	157.00	70.62	37.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	13.00	32.00	49.00	69.50	86.00	111.00	157.00	70.62	37.00
End-to-end delay	309.21	475.24	662.38	1008.24	1235.54	1630.23	2106.95	1005.34	573.16
IP packet delay variation	-127.70	-19.94	-11.01	-11.00	-10.98	0.02	905.03	-0.27	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	8.00	1.56	1.00

Link with Low ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5062.35	5556.79	5746.86	6028.57	6303.88	6512.50	7184.45	6025.27	557.02
Fairness of sim. thr. (F+S)	0.85	0.92	0.95	0.98	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.75	0.85	0.88	0.90	0.91	0.92	0.94	0.89	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.41	115.42	120.40	125.87	131.44	136.92	144.73	125.95	11.04
Throughput	2546.87	2686.57	2798.33	2928.36	3059.46	3190.57	3464.60	2938.76	261.13
Simultaneous throughput	896.65	1542.77	1762.57	2011.82	2225.90	2537.67	2992.66	2020.07	463.33
Total drops	15.00	22.00	25.00	29.00	32.00	35.00	53.00	28.87	7.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.56	0.00
Error drops	15.00	22.00	25.00	28.00	32.00	34.00	42.00	28.32	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.18	2.00
Unnecessary retransmissions	0.00	0.00	1.00	2.00	5.00	7.00	18.00	3.25	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.48	125.22	130.05	135.70	141.75	146.87	162.39	136.43	11.70
Throughput	2269.61	2498.51	2585.55	2716.66	2834.87	2943.40	3248.60	2712.31	249.31
Simultaneous throughput	972.54	1323.96	1481.72	1794.70	1959.00	2110.11	2588.52	1752.43	477.28
Total drops	19.00	23.00	27.00	31.00	35.00	38.00	47.00	30.98	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.43	0.00
Error drops	18.00	23.00	27.00	31.00	34.00	37.00	47.00	30.56	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	7.00	1.11	2.00
Unnecessary retransmissions	0.00	0.00	1.00	3.00	5.00	7.00	16.00	3.35	4.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3342.41	3431.93	3508.20	3579.49	3634.20	3690.57	3766.84	3570.48	126.00
Total drops	11.00	34.00	50.00	67.50	88.00	110.00	139.00	70.22	38.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	11.00	34.00	50.00	67.50	88.00	110.00	139.00	70.22	38.00
End-to-end delay	309.21	481.24	663.22	999.77	1234.22	1642.73	2107.30	1005.24	571.00
IP packet delay variation	-128.75	-19.94	-11.01	-11.00	-10.98	0.01	974.01	-0.22	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	10.00	1.57	1.00

High-Speed Error-Free Link - Baseline TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	44575.32	46511.51	46522.46	46534.63	46539.81	46587.32	46643.26	46500.72	17.36
Fairness of sim. thr. (F+S)	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.74	0.77	0.77	0.78	0.78	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	44.19	47.56	47.99	48.62	49.04	49.09	49.35	48.39	1.05
Throughput	22410.27	22528.48	22542.45	22748.24	23042.15	23240.96	25025.91	22860.30	499.70
Simultaneous throughput	20305.74	21035.16	21567.50	22014.64	22492.12	23095.26	25985.32	22071.48	924.63
Total drops	2.00	32.00	33.00	34.00	34.00	36.00	39.00	33.58	1.00
Congestion drops	2.00	32.00	33.00	34.00	34.00	36.00	39.00	33.58	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.15	49.21	49.31	49.38	49.40	49.40	51.55	49.36	0.09
Throughput	21454.93	22384.48	22386.63	22394.69	22429.61	22471.52	22500.54	22404.35	42.99
Simultaneous throughput	15983.23	19928.78	20557.05	21185.32	21461.76	21838.72	22341.34	20954.82	904.71
Total drops	3.00	27.00	29.00	33.00	33.00	34.00	39.00	31.29	4.00
Congestion drops	3.00	27.00	29.00	33.00	33.00	34.00	39.00	31.29	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3673.99	3687.25	3703.84	3748.60	3803.31	3803.31	3803.31	3750.53	99.48
Total drops	0.00	0.00	0.00	16.50	30.00	35.00	39.00	15.92	30.00
Congestion drops	0.00	0.00	0.00	16.50	30.00	35.00	39.00	15.92	30.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.05	618.17	992.71	1074.44	1149.62	1204.19	1340.46	1015.47	156.91
IP packet delay variation	-19.97	-19.00	-6.99	5.00	5.01	5.04	101.00	0.45	12.00
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	6.00	1.75	1.00

High-Speed Error-Free Link - Baseline TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45035.45	45731.49	46068.01	46205.31	46344.85	46514.84	46608.57	46159.67	276.84
Fairness of sim. thr. (F+S)	0.84	0.85	0.85	0.91	0.98	1.00	1.00	0.92	0.13
Fairness of sim. thr. (all)	0.65	0.66	0.66	0.71	0.76	0.77	0.78	0.71	0.10
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	36.95	37.99	38.22	38.47	45.25	48.32	50.39	41.31	7.04
Throughput	21946.03	22860.54	24275.82	28747.34	28938.63	29099.82	29927.28	27026.03	4662.81
Simultaneous throughput	17390.56	21888.99	23623.01	28636.62	30910.97	31262.80	31891.07	27296.34	7287.95
Total drops	24.00	29.00	32.00	33.00	34.00	35.00	40.00	32.64	2.00
Congestion drops	24.00	29.00	32.00	33.00	34.00	35.00	40.00	32.64	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.16	49.37	49.50	49.73	49.77	50.14	51.05	49.72	0.27
Throughput	21665.55	22039.52	22215.76	22240.48	22337.19	22399.52	22497.31	22243.51	121.43
Simultaneous throughput	11736.10	12640.83	12867.00	14751.82	17842.91	21135.06	25306.78	15716.20	4975.91
Total drops	25.00	28.00	31.00	34.00	34.00	35.00	39.00	32.68	3.00
Congestion drops	25.00	28.00	31.00	34.00	34.00	35.00	39.00	32.68	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3640.83	3667.36	3687.26	3746.94	3803.31	3803.31	3803.31	3741.31	116.06
Total drops	0.00	0.00	0.00	17.00	34.00	39.00	49.00	18.70	34.00
Congestion drops	0.00	0.00	0.00	17.00	34.00	39.00	49.00	18.70	34.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.04	490.13	623.03	738.50	866.14	1058.85	1340.32	748.78	243.11
IP packet delay variation	-19.23	-19.00	-7.00	5.00	5.01	5.05	53.20	0.27	12.01
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	11.00	1.74	1.00

High-Speed Error-Free Link - Baseline TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45799.93	46501.99	46507.01	46529.00	46538.97	46571.30	46630.68	46505.75	31.96
Fairness of sim. thr. (F+S)	0.88	0.99	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.68	0.76	0.77	0.77	0.78	0.78	0.79	0.77	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	40.30	45.84	46.20	47.97	48.90	49.31	49.32	47.24	2.71
Throughput	22423.16	22429.61	22614.45	23052.90	23901.85	24120.00	27441.67	23462.67	1287.40
Simultaneous throughput	19501.55	20657.57	21336.10	22148.07	23170.66	24376.94	29327.68	22639.46	1834.55
Total drops	44.00	45.00	47.00	49.00	50.00	53.00	57.00	48.99	3.00
Congestion drops	44.00	45.00	47.00	49.00	50.00	53.00	57.00	48.99	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.14	49.19	49.28	49.33	49.37	49.37	49.40	49.31	0.09
Throughput	22388.78	22399.52	22400.60	22419.94	22436.06	22480.12	22506.99	22426.84	35.46
Simultaneous throughput	12490.04	18761.69	19476.42	20268.04	20908.88	21386.36	21838.72	19812.78	1432.46
Total drops	40.00	42.00	44.00	47.00	48.00	51.00	54.00	46.37	4.00
Congestion drops	40.00	42.00	44.00	47.00	48.00	51.00	54.00	46.37	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3610.99	3617.62	3630.89	3657.41	3803.31	3803.31	3803.31	3694.19	172.43
Total drops	0.00	0.00	0.00	44.00	52.00	56.00	58.00	32.91	52.00
Congestion drops	0.00	0.00	0.00	44.00	52.00	56.00	58.00	32.91	52.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.08	940.57	1268.45	1580.73	1665.78	1715.19	2060.34	1444.43	397.33
IP packet delay variation	-19.28	-19.00	-7.00	5.00	5.01	16.99	53.12	0.63	12.01
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	6.00	1.86	1.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45836.69	46500.96	46533.41	46537.33	46540.74	46607.46	46657.25	46524.45	7.33
Fairness of sim. thr. (F+S)	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.78	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	45.61	47.50	48.25	48.63	48.77	49.09	49.35	48.45	0.52
Throughput	22411.34	22529.55	22614.45	22743.40	22919.64	23275.34	24246.81	22830.22	305.19
Simultaneous throughput	20205.22	21009.40	21612.54	22064.90	22642.91	22969.61	24226.15	22068.33	1030.37
Total drops	30.00	33.00	33.00	34.00	36.00	37.00	40.00	34.43	3.00
Congestion drops	30.00	33.00	33.00	34.00	36.00	37.00	40.00	34.43	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.19	49.24	49.34	49.40	49.40	49.41	49.44	49.36	0.06
Throughput	22367.28	22384.48	22385.55	22387.70	22412.42	22455.40	22484.42	22404.28	26.87
Simultaneous throughput	17114.10	20085.92	20682.70	21034.53	21411.50	21713.07	22240.82	20961.61	728.79
Total drops	27.00	29.00	31.00	33.00	33.00	36.00	40.00	32.61	2.00
Congestion drops	27.00	29.00	31.00	33.00	33.00	36.00	40.00	32.61	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.09	624.46	1002.70	1052.62	1062.38	1068.31	1125.03	971.16	59.68
IP packet delay variation	-19.96	-18.99	-7.01	4.98	5.02	17.00	71.68	0.35	12.03
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	38499.35	40885.99	43186.18	44398.03	45653.53	46326.70	46658.15	44057.31	2467.35
Fairness of sim. thr. (F+S)	0.83	0.93	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.64	0.74	0.76	0.78	0.79	0.81	0.88	0.78	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	35.13	42.75	44.65	48.48	51.16	53.97	59.60	48.11	6.52
Throughput	18555.58	20450.15	21607.52	22812.18	24715.34	25755.58	31484.42	23219.32	3107.82
Simultaneous throughput	9876.43	16309.93	18873.28	21398.93	23648.14	25608.35	31966.46	21200.20	4774.87
Total drops	29.00	31.00	34.00	36.00	37.00	39.00	45.00	35.59	3.00
Congestion drops	29.00	31.00	34.00	36.00	37.00	39.00	45.00	35.59	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.26	49.49	50.26	51.75	53.20	56.15	59.72	52.25	2.94
Throughput	18520.12	19678.57	20774.69	21368.96	22001.91	22293.13	22448.96	21216.70	1227.22
Simultaneous throughput	7514.13	12590.56	14334.97	16686.89	18873.28	19551.81	21989.51	16376.75	4538.31
Total drops	29.00	32.00	34.00	36.00	37.00	40.00	44.00	35.86	3.00
Congestion drops	29.00	32.00	34.00	36.00	37.00	40.00	44.00	35.86	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	200.94	201.06	213.68	276.43	434.98	602.63	1104.56	366.41	221.31
IP packet delay variation	-30.34	-19.00	-7.01	4.99	5.01	16.92	57.16	-0.10	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45834.29	46509.88	46533.83	46537.43	46540.57	46605.22	46662.95	46525.00	6.74
Fairness of sim. thr. (F+S)	0.89	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.71	0.77	0.77	0.78	0.78	0.78	0.79	0.78	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	41.81	46.46	47.06	48.03	48.90	49.31	49.31	47.86	1.83
Throughput	22426.39	22429.61	22617.67	23024.96	23493.49	23767.52	26454.09	23119.98	875.82
Simultaneous throughput	19451.29	20657.57	21210.45	22039.77	22944.48	23396.84	26211.50	22040.97	1734.03
Total drops	43.00	47.00	49.00	49.00	51.00	53.00	55.00	49.62	2.00
Congestion drops	43.00	47.00	49.00	49.00	51.00	53.00	55.00	49.62	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.19	49.24	49.35	49.37	49.37	49.38	49.41	49.35	0.03
Throughput	22382.33	22397.37	22398.45	22400.60	22410.27	22456.48	22483.34	22411.67	11.82
Simultaneous throughput	12766.48	19275.38	19727.73	20255.48	20959.14	21486.89	21863.86	20270.41	1231.41
Total drops	39.00	42.00	43.00	47.00	49.00	51.00	55.00	46.72	6.00
Congestion drops	39.00	42.00	43.00	47.00	49.00	51.00	55.00	46.72	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.09	965.33	1050.54	1058.51	1065.57	1069.74	1102.49	1018.00	15.03
IP packet delay variation	-19.23	-18.98	-7.01	-6.99	16.98	17.01	53.05	0.27	23.98
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46215.38	46969.63	46977.49	46977.82	46977.89	47019.96	47076.13	46958.51	0.40
Fairness of sim. thr. (F+S)	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.76	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	43.72	46.51	48.43	48.58	48.70	48.75	48.88	48.25	0.26
Throughput	22626.27	22682.15	22710.09	22765.97	22833.67	23776.12	25295.64	22931.04	123.58
Simultaneous throughput	21047.24	21512.02	21662.81	21876.42	22165.42	22668.04	24477.46	22031.70	502.62
Total drops	0.00	0.00	0.00	0.00	0.00	32.00	37.00	4.07	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	32.00	37.00	4.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.72	48.81	48.88	48.91	48.91	48.91	48.91	48.89	0.03
Throughput	22611.22	22612.30	22612.30	22612.30	22620.90	22654.21	22698.27	22622.38	8.60
Simultaneous throughput	17904.82	20431.40	21235.58	21512.02	21713.07	21964.38	22190.55	21340.06	477.49
Total drops	0.00	0.00	0.00	0.00	0.00	30.00	35.00	3.76	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	30.00	35.00	3.76	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3693.89	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3797.29	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	33.00	1.82	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	33.00	1.82	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.08	889.40	977.04	1057.59	1133.27	1188.46	1334.72	1030.51	156.23
IP packet delay variation	-19.96	-19.00	4.95	5.00	5.01	5.02	88.17	0.39	0.05
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	4.00	1.86	1.00

High-Speed Error-Free Link - Enhanced TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46234.64	46889.60	46977.48	46977.84	46977.89	47023.78	47076.07	46944.36	0.41
Fairness of sim. thr. (F+S)	0.93	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.72	0.77	0.77	0.77	0.77	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	39.58	48.37	48.50	48.59	48.63	48.76	48.84	48.19	0.13
Throughput	22642.39	22682.15	22743.40	22760.60	22801.43	22847.64	27943.52	22972.86	58.03
Simultaneous throughput	21294.89	21537.15	22165.39	22291.08	22466.99	22617.78	27392.64	22393.91	301.60
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	38.00	2.85	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	38.00	2.85	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	22.00	0.18	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.75	48.81	48.90	48.91	48.91	48.91	49.61	48.90	0.01
Throughput	22293.13	22611.22	22612.30	22612.30	22613.37	22654.21	22683.22	22614.87	1.07
Simultaneous throughput	15882.71	20754.46	21612.55	21914.11	22039.77	22090.03	22240.82	21605.43	427.22
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	35.00	2.62	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	35.00	2.62	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3654.10	3803.31	3803.31	3803.31	3803.31	3803.31	3803.32	3797.23	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	45.00	1.83	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	45.00	1.83	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.05	471.53	554.57	644.04	730.29	790.95	1325.73	638.61	175.72
IP packet delay variation	-19.32	-19.00	4.95	5.00	5.01	5.02	53.10	0.34	0.06
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	8.00	1.83	1.00

High-Speed Error-Free Link - Enhanced TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46234.59	46947.95	46977.53	46977.80	46977.87	47018.91	47075.90	46954.47	0.34
Fairness of sim. thr. (F+S)	0.92	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.71	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	40.31	45.21	48.28	48.53	48.76	48.77	48.82	48.05	0.48
Throughput	22654.21	22675.70	22681.07	22788.54	22906.75	24450.99	27437.37	23040.63	225.67
Simultaneous throughput	20858.62	21084.80	21285.84	21537.15	22140.29	22793.70	28121.44	21937.90	854.45
Total drops	0.00	0.00	0.00	0.00	0.00	49.00	60.00	5.80	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	49.00	60.00	5.80	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.74	48.80	48.87	48.91	48.91	48.91	49.24	48.89	0.04
Throughput	22459.70	22612.30	22612.30	22612.30	22627.34	22659.58	22690.75	22621.69	15.04
Simultaneous throughput	15279.57	19602.08	20957.29	21185.32	21512.02	21738.20	22366.47	21000.88	554.73
Total drops	0.00	0.00	0.00	0.00	0.00	36.00	46.00	4.34	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	36.00	46.00	4.34	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	36.00	0.30	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3630.89	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3791.35	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	52.00	3.61	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	52.00	3.61	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.09	1289.31	1360.16	1444.77	1563.40	1627.59	2051.55	1420.48	203.25
IP packet delay variation	-19.20	-19.00	4.96	5.00	5.00	5.02	53.04	0.53	0.05
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	4.00	1.80	1.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46234.50	46976.79	46977.52	46977.80	46977.86	47024.02	47076.16	46960.00	0.33
Fairness of sim. thr. (F+S)	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.76	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	43.96	46.51	48.51	48.58	48.67	48.71	48.81	48.24	0.17
Throughput	22656.36	22698.27	22720.84	22765.97	22793.91	23776.12	25155.94	22937.00	73.07
Simultaneous throughput	21210.45	21512.02	21662.81	21826.14	22165.42	22642.91	25256.52	22051.94	502.62
Total drops	0.00	0.00	0.00	0.00	0.00	33.00	40.00	4.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	33.00	40.00	4.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.76	48.81	48.90	48.91	48.91	48.91	48.91	48.89	0.01
Throughput	22611.22	22612.30	22612.30	22612.30	22612.30	22654.21	22683.22	22621.62	0.00
Simultaneous throughput	17944.84	20406.26	21160.19	21549.70	21713.07	21914.12	22240.82	21317.53	552.88
Total drops	0.00	0.00	0.00	0.00	0.00	31.00	34.00	3.69	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	31.00	34.00	3.69	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.09	886.15	969.40	1048.51	1060.10	1067.18	1099.60	985.93	90.70
IP packet delay variation	-19.23	-19.00	-7.01	4.99	5.01	17.00	53.03	0.30	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	40551.13	46412.30	46977.45	46977.78	46977.84	47019.24	47075.74	46706.84	0.39
Fairness of sim. thr. (F+S)	0.82	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.67	0.77	0.77	0.77	0.77	0.78	0.83	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	40.55	48.35	48.51	48.58	48.64	48.84	53.44	48.43	0.13
Throughput	20694.09	22642.39	22736.96	22765.97	22796.06	22872.36	27269.73	22858.00	59.10
Simultaneous throughput	14751.82	21386.81	22064.90	22291.08	22441.86	22592.65	29227.20	22175.25	376.96
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.61	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.61	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	28.00	0.23	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.76	48.81	48.91	48.91	48.91	48.91	56.69	49.18	0.00
Throughput	19506.63	22462.93	22612.30	22612.30	22612.30	22654.21	22683.22	22499.19	0.00
Simultaneous throughput	9072.24	20330.87	21612.54	21939.24	22039.77	22140.29	22567.52	21284.82	427.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.43	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.43	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.32	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	200.96	375.66	512.98	615.27	710.73	777.31	1100.60	597.68	197.75
IP packet delay variation	-20.00	-19.00	0.00	5.00	5.01	5.03	125.01	0.31	5.00
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46234.49	46976.56	46977.42	46977.75	46977.79	47023.96	47076.06	46956.23	0.37
Fairness of sim. thr. (F+S)	0.91	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.72	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	42.04	45.23	48.18	48.28	48.28	48.30	48.33	47.84	0.10
Throughput	22884.18	22896.00	22906.75	22906.75	22952.96	23005.61	26306.87	23132.03	46.21
Simultaneous throughput	20758.09	21084.80	21210.45	21443.40	22190.55	22818.83	25859.66	21812.56	980.10
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	60.00	5.47	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	60.00	5.47	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.76	48.81	48.90	48.91	48.91	48.91	49.38	48.89	0.01
Throughput	22397.37	22612.30	22612.30	22612.30	22612.30	22654.21	22683.22	22619.84	0.00
Simultaneous throughput	12816.74	19652.34	20959.14	21122.49	21461.76	21863.85	22366.47	20979.13	502.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	49.00	4.17	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	49.00	4.17	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	39.00	0.33	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.09	1049.15	1053.01	1059.64	1066.14	1069.81	1102.60	1033.77	13.14
IP packet delay variation	-19.93	-18.98	-7.01	-6.99	16.98	17.01	53.04	0.22	23.99
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	40091.29	41735.06	42338.88	45066.57	45541.80	45756.57	46340.70	44009.73	3202.93
Fairness of sim. thr. (F+S)	0.89	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.69	0.73	0.75	0.76	0.77	0.78	0.78	0.76	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	37.21	41.26	43.16	44.81	47.33	48.40	50.32	44.93	4.17
Throughput	21976.12	22829.37	23354.87	24678.27	25609.43	26624.96	29722.03	24709.22	2254.57
Simultaneous throughput	18591.83	20552.39	22976.15	24093.91	25005.27	27238.00	29762.62	24130.07	2029.11
Total drops	10.00	15.00	16.00	17.00	18.00	19.00	21.00	16.99	2.00
Congestion drops	10.00	15.00	16.00	17.00	18.00	19.00	21.00	16.99	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.58	50.17	50.46	51.00	54.19	54.98	57.29	52.25	3.73
Throughput	19304.60	20096.60	20407.16	21682.75	21913.79	22034.15	22306.03	21197.22	1506.63
Simultaneous throughput	14492.01	16322.53	17358.04	19277.55	20490.32	22487.03	24859.05	19228.12	3132.28
Total drops	15.00	16.00	17.00	17.50	19.00	21.00	24.00	17.86	2.00
Congestion drops	15.00	16.00	17.00	17.50	19.00	21.00	24.00	17.86	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3723.73	3733.68	3746.94	3780.10	3790.05	3793.36	3800.00	3769.74	43.11
Total drops	1.00	3.00	4.00	7.00	17.00	20.00	24.00	10.13	13.00
Congestion drops	1.00	3.00	4.00	7.00	17.00	20.00	24.00	10.13	13.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	223.80	294.06	362.25	413.92	438.38	488.00	348.10	119.86
IP packet delay variation	-19.20	-19.00	-6.99	5.00	5.01	5.03	53.03	0.05	12.00
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	4.00	1.28	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	38060.94	39248.20	40345.07	41431.90	42287.36	43325.54	44579.10	41327.27	1942.29
Fairness of sim. thr. (F+S)	0.85	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.67	0.72	0.75	0.77	0.78	0.79	0.80	0.76	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	40.46	43.65	46.72	49.70	51.65	53.08	56.17	49.06	4.93
Throughput	19689.31	20737.07	21384.00	22251.76	23580.54	25164.54	27334.21	22669.42	2196.54
Simultaneous throughput	14296.96	17209.29	19436.68	21730.39	23997.76	26583.21	28798.63	21891.79	4561.08
Total drops	11.00	13.00	14.00	15.00	16.00	17.00	20.00	14.93	2.00

Congestion drops	11.00	13.00	14.00	15.00	16.00	17.00	20.00	14.93	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	51.54	52.83	54.09	55.44	56.78	58.50	60.37	55.63	2.69
Throughput	18320.24	18904.84	19467.94	19947.76	20365.25	20906.87	21458.15	19906.82	897.31
Simultaneous throughput	11180.13	14268.87	15856.11	17547.69	19860.41	21358.61	25466.12	17820.97	4004.30
Total drops	11.00	13.00	14.00	15.50	16.00	17.00	19.00	15.09	2.00
Congestion drops	11.00	13.00	14.00	15.50	16.00	17.00	19.00	15.09	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3707.15	3733.68	3746.94	3776.79	3790.05	3793.36	3803.31	3768.91	43.11
Total drops	0.00	3.00	4.00	8.00	17.00	21.00	29.00	10.37	13.00
Congestion drops	0.00	3.00	4.00	8.00	17.00	21.00	29.00	10.37	13.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	201.25	211.83	231.60	290.38	334.77	488.23	254.23	78.55
IP packet delay variation	-19.20	-19.00	-7.09	4.99	5.01	12.00	53.05	0.02	12.10
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	5.00	1.27	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45168.70	46099.80	46513.90	46532.61	46538.53	46594.32	46639.35	46477.91	24.63
Fairness of sim. thr. (F+S)	0.93	0.99	0.99	1.00	1.00	1.00	1.00	0.99	0.00
Fairness of sim. thr. (all)	0.73	0.77	0.77	0.77	0.78	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	42.54	45.89	46.51	46.78	47.25	47.88	49.34	46.72	0.74
Throughput	22415.64	23093.73	23398.93	23641.25	23773.97	24005.01	25994.15	23684.08	375.04
Simultaneous throughput	19841.29	20357.81	21825.79	22673.09	23455.14	23787.31	26548.64	22540.08	1629.35
Total drops	25.00	28.00	30.00	31.00	32.00	34.00	36.00	30.97	2.00
Congestion drops	25.00	28.00	30.00	31.00	32.00	34.00	36.00	30.97	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.16	49.22	49.33	49.37	49.40	49.42	49.89	49.38	0.07
Throughput	22169.55	22367.28	22387.70	22400.60	22417.79	22465.07	22495.16	22397.31	30.09
Simultaneous throughput	15235.47	19237.09	19816.51	20367.94	21023.22	22855.16	23623.05	20608.65	1206.70
Total drops	23.00	25.00	26.00	28.00	29.00	32.00	38.00	28.10	3.00
Congestion drops	23.00	25.00	26.00	28.00	29.00	32.00	38.00	28.10	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3683.94	3693.89	3707.15	3785.08	3800.00	3803.31	3803.31	3755.31	92.84
Total drops	0.00	0.00	1.00	5.50	29.00	33.00	36.00	14.47	28.00
Congestion drops	0.00	0.00	1.00	5.50	29.00	33.00	36.00	14.47	28.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	622.28	916.02	988.88	1060.09	1117.37	1208.88	941.14	144.07
IP packet delay variation	-19.21	-19.00	-6.96	5.00	5.00	5.03	53.05	0.40	11.97
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	2.00	5.00	1.72	1.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	40516.29	41472.06	43306.45	44902.97	45437.74	45770.40	46463.63	44292.51	2131.28
Fairness of sim. thr. (F+S)	0.89	0.94	0.95	0.96	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.69	0.73	0.73	0.75	0.77	0.78	0.79	0.75	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	39.50	41.87	42.90	43.61	46.29	48.71	49.47	44.56	3.38
Throughput	22353.31	22682.15	23795.46	25356.90	25778.15	26177.91	27999.40	24893.80	1982.69
Simultaneous throughput	16983.41	20493.37	22374.38	25599.83	27070.29	27432.16	30008.22	24829.76	4695.91
Total drops	14.00	16.00	17.00	18.00	19.00	20.00	22.00	17.88	2.00
Congestion drops	14.00	16.00	17.00	18.00	19.00	20.00	22.00	17.88	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.38	50.19	50.60	51.08	52.91	55.43	56.71	51.92	2.31
Throughput	19500.18	19949.37	20843.46	21652.66	21857.91	22030.93	22396.30	21326.20	1014.45
Simultaneous throughput	14375.80	15896.44	16488.87	17129.11	20297.60	22330.91	25655.83	18343.95	3808.73
Total drops	16.00	17.00	17.00	18.00	19.00	20.00	22.00	18.24	2.00
Congestion drops	16.00	17.00	17.00	18.00	19.00	20.00	22.00	18.24	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	221.33	227.83	231.20	234.64	236.68	249.01	229.55	6.81
IP packet delay variation	-19.21	-7.02	-7.00	4.99	5.01	5.02	45.76	0.01	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	34622.71	36827.74	37648.26	39400.95	40975.66	42204.06	43326.89	39420.86	3327.40
Fairness of sim. thr. (F+S)	0.81	0.90	0.95	0.98	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.63	0.71	0.75	0.78	0.79	0.80	0.81	0.76	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	39.56	44.37	48.35	50.77	53.14	55.27	61.88	50.53	4.80
Throughput	17872.12	20003.10	20790.81	21784.30	22863.76	24395.10	27957.49	22039.67	2072.96
Simultaneous throughput	14131.53	17478.32	19188.21	21603.84	24062.15	26913.70	31422.33	21820.15	4873.94
Total drops	13.00	14.00	14.00	16.00	17.00	18.00	21.00	16.00	3.00
Congestion drops	13.00	14.00	14.00	16.00	17.00	18.00	21.00	16.00	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	53.06	54.17	56.07	58.26	61.01	62.24	66.40	58.44	4.94
Throughput	16654.57	17723.82	18110.69	18981.67	19721.55	20335.16	20842.39	18979.66	1610.87
Simultaneous throughput	9430.98	12617.43	14610.85	16611.60	18776.74	20711.05	24942.50	16711.19	4165.89
Total drops	12.00	14.00	14.00	15.00	16.00	18.00	20.00	15.38	2.00
Congestion drops	12.00	14.00	14.00	15.00	16.00	18.00	20.00	15.38	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	201.24	209.93	226.29	232.02	235.61	298.58	221.50	22.09
IP packet delay variation	-25.33	-16.28	-7.01	4.99	5.01	6.02	68.29	0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45019.67	46458.87	46533.62	46537.06	46540.50	46608.86	46657.89	46491.97	6.88
Fairness of sim. thr. (F+S)	0.94	0.99	0.99	0.99	1.00	1.00	1.00	0.99	0.00
Fairness of sim. thr. (all)	0.73	0.77	0.77	0.77	0.77	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	42.70	45.14	46.17	46.51	46.53	47.00	49.71	46.38	0.36
Throughput	22246.93	23528.96	23769.67	23777.19	23951.28	24476.78	25898.51	23857.41	181.61
Simultaneous throughput	20749.94	22496.06	22943.18	23217.39	23488.17	23890.62	27371.12	23278.63	544.98
Total drops	28.00	31.00	31.00	32.00	32.00	34.00	36.00	31.88	1.00
Congestion drops	28.00	31.00	31.00	32.00	32.00	34.00	36.00	31.88	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.18	49.24	49.34	49.37	49.37	49.38	51.04	49.38	0.04
Throughput	21668.78	22397.37	22398.45	22400.60	22413.49	22453.25	22487.64	22395.77	15.04
Simultaneous throughput	15382.10	18739.45	19317.02	20174.31	20334.46	20463.49	22759.62	19785.04	1017.44
Total drops	23.00	26.00	28.00	28.00	29.00	30.00	36.00	27.99	1.00
Congestion drops	23.00	26.00	28.00	28.00	29.00	30.00	36.00	27.99	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3797.08	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.26	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	226.97	228.83	231.92	234.97	236.81	311.87	231.44	6.15
IP packet delay variation	-19.96	-7.02	-7.00	4.99	5.01	5.02	84.38	0.01	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	39857.36	41889.04	42640.63	44967.18	45895.90	46099.58	46594.81	44354.09	3255.27
Fairness of sim. thr. (F+S)	0.90	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (all)	0.70	0.75	0.76	0.77	0.78	0.78	0.79	0.77	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	38.08	43.13	44.20	45.78	47.88	49.48	50.96	45.88	3.68
Throughput	21699.94	22347.94	23074.39	24156.00	25009.79	25618.03	29043.94	24185.58	1935.40
Simultaneous throughput	17731.53	19889.77	21469.59	23016.49	25062.09	26313.58	29429.45	23197.62	3592.50
Total drops	0.00	1.00	1.00	2.00	2.00	15.00	20.00	3.59	1.00
Congestion drops	0.00	1.00	1.00	2.00	2.00	15.00	20.00	3.59	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.08	49.76	50.04	51.06	53.82	54.77	57.59	51.85	3.77
Throughput	19204.66	20180.42	20545.79	21658.03	22093.25	22192.12	22533.85	21362.79	1547.46
Simultaneous throughput	14651.90	17466.99	18738.20	20139.33	21497.59	24658.31	26094.99	20385.01	2759.39
Total drops	2.00	2.00	3.00	3.00	4.00	15.00	21.00	4.87	1.00
Congestion drops	2.00	2.00	3.00	3.00	4.00	15.00	21.00	4.87	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3736.99	3776.79	3780.10	3786.73	3793.36	3793.37	3800.00	3785.93	13.26
Total drops	1.00	2.00	3.00	5.00	7.00	8.00	20.00	5.24	4.00
Congestion drops	1.00	2.00	3.00	5.00	7.00	8.00	20.00	5.24	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	220.73	268.91	341.10	402.61	435.15	477.06	334.69	133.70
IP packet delay variation	-19.36	-19.00	-6.97	5.00	5.01	5.03	53.00	0.10	11.98
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	4.00	1.05	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	36827.39	38552.99	40319.70	41596.21	42570.12	43872.31	45122.77	41415.69	2250.42
Fairness of sim. thr. (F+S)	0.81	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (all)	0.64	0.75	0.77	0.78	0.78	0.79	0.80	0.77	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	40.38	45.01	47.85	49.53	51.23	52.33	55.42	49.19	3.38
Throughput	19956.90	21099.22	21576.36	22329.67	23105.55	24506.87	27385.79	22564.84	1529.19
Simultaneous throughput	15836.85	19415.74	20411.52	21084.36	22805.60	24452.70	29972.08	21755.02	2394.08
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	1.41	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	1.41	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.10	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	50.91	52.29	53.96	55.22	56.81	59.53	62.40	55.56	2.85
Throughput	17722.75	18549.13	19424.96	20028.90	20481.31	21120.72	21721.43	19946.43	1056.36
Simultaneous throughput	10317.02	15292.48	16743.67	18910.06	20325.88	20826.65	23327.93	18513.22	3582.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	17.00	1.38	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	17.00	1.38	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3740.31	3773.47	3783.42	3790.05	3793.37	3800.00	3803.31	3787.62	9.95
Total drops	0.00	1.00	3.00	4.00	6.00	9.00	19.00	4.73	3.00
Congestion drops	0.00	1.00	3.00	4.00	6.00	9.00	19.00	4.73	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	201.29	213.37	233.70	292.49	331.05	478.88	253.67	79.13
IP packet delay variation	-19.82	-19.00	-7.04	5.00	5.01	10.57	135.60	0.02	12.05
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	4.00	1.03	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46233.87	46919.62	46977.35	46977.69	46977.76	47020.61	47075.61	46954.20	0.42
Fairness of sim. thr. (F+S)	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.76	0.77	0.77	0.78	0.78	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	43.71	48.52	48.62	48.67	48.70	48.75	48.85	48.35	0.08
Throughput	22640.24	22687.52	22709.01	22724.60	22744.48	22782.09	25299.94	22886.45	35.46
Simultaneous throughput	19492.23	21493.20	21832.07	21989.06	22263.02	22525.57	24925.65	22084.26	430.95
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	40.00	3.24	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	40.00	3.24	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.73	48.81	48.89	48.91	48.91	48.91	49.13	48.89	0.01
Throughput	22510.21	22611.22	22612.30	22612.30	22618.75	22658.51	22692.90	22619.58	6.45
Simultaneous throughput	18493.22	20859.30	21667.58	21865.45	22016.60	22244.75	24114.10	21683.71	349.02
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	39.00	2.97	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	39.00	2.97	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3690.57	3803.31	3803.31	3803.31	3803.31	3803.31	3803.33	3798.03	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	34.00	1.59	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	34.00	1.59	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	678.47	778.70	866.97	946.79	1009.15	1204.58	848.00	168.09
IP packet delay variation	-19.42	-19.00	4.96	5.00	5.00	5.02	53.02	0.39	0.05
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	3.00	1.77	1.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	39536.18	40915.76	42431.20	45071.49	45350.99	45765.44	46469.64	44112.54	2919.79
Fairness of sim. thr. (F+S)	0.89	0.92	0.94	0.98	0.99	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.69	0.71	0.73	0.76	0.77	0.78	0.78	0.75	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	38.22	39.72	40.61	41.41	44.44	47.47	50.31	42.66	3.83
Throughput	21982.57	23262.45	24856.12	26709.31	27208.48	27822.09	28934.33	26042.75	2352.36
Simultaneous throughput	18907.69	21728.04	23379.01	25471.83	27682.13	28636.73	29434.95	25375.64	4303.12
Total drops	0.00	1.00	1.00	1.00	2.00	4.00	21.00	2.79	1.00
Congestion drops	0.00	1.00	1.00	1.00	2.00	4.00	21.00	2.79	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	49.47	50.19	50.66	50.95	54.12	56.03	58.12	52.16	3.46
Throughput	19028.42	19731.22	20423.28	21704.78	21828.90	22027.70	22353.31	21243.84	1405.61
Simultaneous throughput	14365.86	15591.35	16613.70	18636.44	19859.88	21561.32	25340.47	18611.34	3246.18
Total drops	2.00	3.00	3.00	3.00	4.00	5.00	21.00	4.62	1.00
Congestion drops	2.00	3.00	3.00	3.00	4.00	5.00	21.00	4.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.10	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	226.53	228.44	231.62	234.86	236.79	248.99	230.79	6.42
IP packet delay variation	-19.14	-7.02	-7.00	4.99	5.01	5.02	45.32	0.01	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	31886.74	36548.44	38181.15	39614.92	41414.49	42255.50	44522.42	39644.53	3233.34
Fairness of sim. thr. (F+S)	0.87	0.96	0.99	0.99	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (all)	0.68	0.76	0.77	0.79	0.79	0.80	0.84	0.78	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	41.74	46.99	48.96	51.60	54.01	56.08	64.90	51.69	5.06
Throughput	17041.43	19687.16	20427.58	21431.82	22588.66	23353.79	26494.93	21511.83	2161.07
Simultaneous throughput	13577.41	16881.94	18472.12	19734.04	22458.48	23892.88	28447.61	20320.83	3986.36
Total drops	0.00	0.00	0.00	0.00	0.00	13.00	18.00	2.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	13.00	18.00	2.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.09	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	51.61	54.34	55.49	58.00	60.02	62.52	72.10	58.13	4.53
Throughput	15339.22	17583.04	18366.45	19066.03	19926.81	20338.39	21429.13	19087.97	1560.36
Simultaneous throughput	11710.23	14152.17	15833.09	17811.76	19339.47	20713.61	23422.12	17657.05	3506.37
Total drops	0.00	0.00	0.00	0.00	0.00	14.00	21.00	2.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	14.00	21.00	2.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	13.00	0.11	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	201.24	209.38	226.38	232.10	235.57	350.58	221.40	22.72
IP packet delay variation	-19.93	-15.67	-7.01	4.99	5.01	6.00	123.12	0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46189.67	46976.70	46977.31	46977.66	46977.74	47023.55	47076.28	46954.83	0.43
Fairness of sim. thr. (F+S)	0.94	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (all)	0.73	0.77	0.78	0.78	0.78	0.78	0.78	0.77	0.00
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	41.81	44.61	48.49	48.60	48.69	48.70	48.76	47.98	0.20
Throughput	22681.07	22706.87	22715.46	22754.15	22805.73	24792.72	26450.87	23079.45	90.27
Simultaneous throughput	21025.58	21499.65	21692.26	21875.49	22131.64	23774.33	27421.41	22201.81	439.39
Total drops	0.00	0.00	0.00	0.00	0.00	34.00	41.00	4.76	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	34.00	41.00	4.76	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	48.77	48.81	48.90	48.91	48.91	48.91	49.20	48.89	0.01
Throughput	22479.04	22611.22	22612.30	22612.30	22612.30	22654.21	22678.93	22619.23	0.00
Simultaneous throughput	16085.89	19745.99	21464.24	21678.24	21816.62	21989.48	22426.46	21286.24	352.37
Total drops	0.00	0.00	0.00	0.00	0.00	27.00	29.00	3.65	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	27.00	29.00	3.65	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.40	0.00
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	3803.30	3803.31	3803.31	3803.31	3803.31	3803.31	3803.33	3803.31	0.00
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	227.17	228.83	231.90	234.97	236.80	248.99	231.73	6.14
IP packet delay variation	-19.07	-7.02	-7.00	4.99	5.01	5.02	40.62	0.01	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

6 Bulk TCPs, Streaming, and HTTP

Error-Free Link - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7879.80	7892.24	7906.69	7924.55	7934.43	7947.06	7965.97	7922.55	27.75
Fairness of sim. thr. (F+S)	0.82	0.94	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.84	0.87	0.94	0.96	0.98	0.99	1.00	0.95	0.04
Fairness of sim. thr. (all)	0.84	0.88	0.89	0.92	0.93	0.93	0.94	0.91	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	99.57	110.59	112.54	117.80	120.31	122.98	124.14	116.83	7.77
Throughput	2969.19	2994.99	3053.01	3129.31	3218.51	3328.12	3702.09	3162.76	165.49
Simultaneous throughput	1516.06	1742.23	1903.69	2152.17	2368.10	2787.16	3167.29	2196.47	464.41
Total drops	12.00	17.00	22.00	26.00	30.00	33.00	39.00	25.83	8.00
Congestion drops	12.00	17.00	22.00	26.00	30.00	33.00	39.00	25.83	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.56	123.91	124.22	124.64	124.96	125.21	125.64	124.57	0.75
Throughput	2933.73	2942.33	2949.85	2957.91	2968.12	2971.34	3007.88	2959.47	18.27
Simultaneous throughput	874.37	1411.47	1602.46	1816.04	1914.56	2089.42	2336.08	1775.52	312.11
Total drops	12.00	15.00	22.00	26.00	29.00	31.00	36.00	24.77	7.00
Congestion drops	12.00	15.00	22.00	26.00	29.00	31.00	36.00	24.77	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.05	1071.44	1245.17	1330.40	1416.37	1475.75	1556.45	1316.75	171.20
Total drops	1.00	5.00	8.00	12.50	16.00	18.00	22.00	12.65	8.00
Congestion drops	1.00	5.00	8.00	12.50	16.00	18.00	22.00	12.65	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Spurious RTOs	0.00	0.00	2.00	3.50	5.00	6.00	8.00	3.48	3.00
Unnecessary rexmits	0.00	0.00	4.00	6.00	8.00	11.00	14.00	6.35	4.00
Response time	39.24	48.73	51.25	55.43	61.38	65.13	73.88	56.31	10.13
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3342.41	3440.23	3516.49	3557.11	3640.84	3665.71	3703.84	3565.90	124.35
Throughput (1st burst)	3203.14	3305.93	3358.99	3441.88	3521.47	3624.26	3697.21	3452.91	162.48
Throughput (2nd burst)	3335.78	3528.10	3644.15	3698.86	3756.89	3803.32	3803.32	3678.89	112.74
Simultaneous throughput	2676.69	2722.59	2824.67	2980.53	3089.94	3159.58	3243.32	2958.14	265.27
Total drops	60.00	73.00	92.00	148.50	171.00	211.00	278.00	143.20	79.00
Congestion drops	60.00	73.00	92.00	148.50	171.00	211.00	278.00	143.20	79.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1973.97	2380.70	2724.45	3037.32	3139.92	3407.64	2640.35	656.61
IP packet delay variation	-91.14	-11.01	-11.01	-11.00	-10.99	0.00	349.02	-0.02	0.02
Consecutive packets dropped	1.00	1.00	2.00	2.00	4.00	6.00	16.00	2.94	2.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	13.54	15.40	18.48	23.10	30.34	32.65	42.08	24.47	11.86
Throughput	300.90	386.87	413.73	549.13	659.82	790.93	936.00	562.06	246.09
Simultaneous throughput	145.65	157.14	182.63	195.13	207.73	216.44	228.28	193.12	25.11
Total drops	0.00	0.00	1.00	2.50	4.00	5.00	7.00	2.67	3.00
Congestion drops	0.00	0.00	1.00	2.50	4.00	5.00	7.00	2.67	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.32	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.32	13.82	17.62	20.99	28.49	34.67	35.96	22.99	10.87
Throughput	255.76	262.21	318.09	438.99	522.27	625.43	814.57	443.96	204.18
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.78	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.78	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.85	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.85	14.40	19.75	23.84	29.27	30.40	40.96	24.12	9.51
Throughput	224.60	293.37	313.79	386.87	457.79	600.72	778.03	412.47	144.00
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.05	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.05	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.58	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	2.00	0.90	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.30	16.44	20.90	25.99	29.60	36.43	44.71	26.21	8.71
Throughput	206.33	248.24	298.75	354.63	440.60	550.21	749.01	384.31	141.85
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	1.00	2.00	3.00	3.00	4.00	8.00	2.77	1.00
Congestion drops	0.00	1.00	2.00	3.00	3.00	4.00	8.00	2.77	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	2.00	0.82	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.06	8.74	11.33	15.23	19.88	27.12	28.71	16.55	8.55
Throughput	321.31	335.28	459.94	605.01	807.04	1040.24	1304.60	647.11	347.10
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.63	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.63	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.50	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.92	9.26	11.12	16.18	19.60	27.32	35.33	16.62	8.48
Throughput	261.13	328.84	462.09	570.63	800.60	930.63	1163.82	640.32	338.51
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.60	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.60	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.62	2.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.25	9.47	12.22	18.17	23.99	26.33	37.19	18.52	11.77
Throughput	248.24	349.25	368.60	507.76	751.16	966.09	1271.28	584.57	382.57
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.00	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.00	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.65	2.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	8.15	10.51	13.19	17.95	22.07	26.87	32.94	18.36	8.89
Throughput	279.40	342.81	376.12	513.13	697.43	869.37	1130.51	568.42	321.31
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.75	2.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.85	10.11	11.51	14.92	18.29	19.35	25.43	15.26	6.78
Throughput	362.15	474.99	497.55	617.37	788.78	865.07	1041.31	646.63	291.22
Simultaneous throughput	105.93	114.29	132.82	141.91	151.08	157.41	166.02	140.45	18.26
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.47	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.93	2.00

Error-Free Link - Baseline TCP and RED+ECN

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7853.64	7912.05	7922.24	7932.32	7939.66	7942.88	7984.88	7929.66	17.42
Fairness of sim. thr. (F+S)	0.82	0.89	0.94	0.97	0.99	1.00	1.00	0.96	0.06
Fairness of sim. thr. (F+S+H)	0.80	0.86	0.92	0.95	0.97	0.98	0.99	0.94	0.05
Fairness of sim. thr. (all)	0.85	0.88	0.91	0.92	0.94	0.96	0.96	0.92	0.03

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.82	109.08	113.05	116.35	119.58	121.60	124.11	115.63	6.53
Throughput	2970.27	3028.30	3077.73	3168.54	3255.04	3378.63	3730.03	3195.13	177.31
Simultaneous throughput	1542.56	1876.56	1990.54	2167.16	2476.12	2803.06	3258.42	2284.15	485.58
Total drops	9.00	14.00	17.00	23.50	27.00	33.00	39.00	23.27	10.00
Congestion drops	9.00	14.00	17.00	23.50	27.00	33.00	39.00	23.27	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.71	121.61	122.14	123.05	123.59	124.37	124.91	122.97	1.46
Throughput	2950.93	2958.45	2982.09	2995.52	3016.48	3029.37	3054.09	2998.10	34.39
Simultaneous throughput	985.33	1161.25	1376.19	1654.07	2007.27	2222.14	2647.07	1688.63	631.07
Total drops	12.00	15.00	19.00	23.00	27.00	29.00	33.00	22.90	8.00
Congestion drops	12.00	15.00	19.00	23.00	27.00	29.00	33.00	22.90	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP transfer

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	991.36	1129.31	1267.09	1433.37	1533.49	1598.63	1650.65	1396.85	266.40
Total drops	2.00	4.00	7.00	12.00	15.00	16.00	20.00	11.22	8.00
Congestion drops	2.00	4.00	7.00	12.00	15.00	16.00	20.00	11.22	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	3.00	4.00	1.52	3.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	8.00	2.68	4.00
Response time	33.76	36.45	40.89	46.47	50.14	55.82	59.84	45.79	9.26

Streaming flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2926.27	3090.40	3198.17	3317.54	3407.07	3534.73	3629.23	3307.84	208.90
Throughput (1st burst)	2503.49	2652.71	2957.77	3098.69	3206.46	3421.99	3574.52	3078.63	248.69
Throughput (2nd burst)	3103.66	3209.77	3305.93	3652.44	3740.31	3803.32	3803.32	3537.05	434.38
Simultaneous throughput	2367.86	2541.77	2618.53	2765.55	2854.93	2960.87	3046.14	2742.58	236.40
Total drops	105.00	156.00	231.00	293.00	362.00	425.00	529.00	298.85	131.00
Congestion drops	105.00	156.00	231.00	293.00	362.00	425.00	529.00	298.85	131.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1193.94	1589.71	1994.32	2506.62	2996.95	3407.81	2035.51	916.90
IP packet delay variation	-11.22	-11.01	-11.01	-11.00	-10.99	0.00	421.02	1.11	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	4.00	202.00	4.12	1.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.70	13.80	18.01	23.46	27.11	30.93	39.30	22.92	9.09
Throughput	322.39	398.69	458.87	540.54	697.43	901.61	1184.24	610.09	238.57
Simultaneous throughput	145.40	165.63	185.84	210.23	224.91	234.47	242.09	204.87	39.07
Total drops	0.00	0.00	1.00	2.50	4.00	5.00	8.00	2.85	3.00
Congestion drops	0.00	0.00	1.00	2.50	4.00	5.00	8.00	2.85	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.54	12.27	14.07	18.44	23.67	25.81	36.84	19.55	9.60
Throughput	250.39	334.21	389.01	499.70	644.78	718.93	798.45	514.88	255.76
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	1.50	2.00	3.00	4.00	1.47	2.00
Congestion drops	0.00	0.00	0.00	1.50	2.00	3.00	4.00	1.47	2.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.55	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.80	13.15	14.25	19.20	23.76	26.87	37.74	20.09	9.51
Throughput	243.94	334.21	385.79	479.82	635.10	680.24	781.25	499.65	249.31
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.77	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.77	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.62	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.22	13.43	14.47	20.39	27.08	29.94	35.05	21.40	12.62
Throughput	263.28	304.12	339.58	452.42	625.43	685.61	754.39	473.16	285.85
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	4.00	2.00	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	4.00	2.00	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.65	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.11	6.71	9.71	12.56	19.28	24.24	42.61	15.00	9.57
Throughput	216.00	377.19	463.16	734.51	947.82	1239.04	1803.22	770.91	484.66
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.87	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.87	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.25	6.96	9.68	12.37	17.89	21.25	41.10	14.44	8.21
Throughput	224.60	396.54	508.30	745.79	944.60	1312.12	1753.79	782.41	436.30
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.72	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.31	7.62	9.16	13.42	17.87	19.33	27.60	13.86	8.71
Throughput	334.21	449.19	501.85	687.22	982.21	1097.19	1460.42	762.77	480.36
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.60	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.45	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.37	8.21	9.25	12.90	14.41	20.53	23.77	13.21	5.16
Throughput	387.94	405.13	621.13	715.16	962.87	1073.55	1445.37	784.91	341.73
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.71	6.35	7.95	10.30	13.76	16.47	21.26	11.36	5.81
Throughput	433.07	548.06	656.60	894.63	1001.55	1374.45	1613.01	907.15	344.96
Simultaneous throughput	105.75	120.46	135.16	152.89	163.57	170.52	176.07	149.00	28.42
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00

Error-Free Link - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7883.63	7904.98	7913.24	7931.96	7940.84	7951.52	7970.72	7928.70	27.60
Fairness of sim. thr. (F+S)	0.82	0.87	0.95	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (F+S+H)	0.79	0.87	0.91	0.94	0.97	0.98	1.00	0.93	0.06
Fairness of sim. thr. (all)	0.82	0.84	0.87	0.89	0.91	0.92	0.92	0.89	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.44	105.86	113.19	117.35	121.33	123.91	125.28	116.63	8.14
Throughput	2942.33	2968.12	3019.70	3141.13	3255.04	3382.93	3598.93	3170.07	235.34
Simultaneous throughput	1700.57	1839.49	1943.32	2202.27	2432.01	2803.41	3341.31	2268.97	488.68
Total drops	8.00	14.00	19.00	24.00	28.00	33.00	40.00	24.22	9.00
Congestion drops	8.00	14.00	19.00	24.00	28.00	33.00	40.00	24.22	9.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.53	125.49	125.65	125.81	126.05	126.18	126.59	125.85	0.40
Throughput	2912.24	2919.76	2922.99	2930.51	2932.66	2936.96	2960.60	2929.30	9.67
Simultaneous throughput	788.36	1127.83	1462.58	1711.58	1839.49	1999.31	2431.96	1656.97	376.92
Total drops	13.00	16.00	23.00	26.00	30.00	34.00	40.00	26.37	7.00
Congestion drops	13.00	16.00	23.00	26.00	30.00	34.00	40.00	26.37	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.47	1086.59	1149.64	1278.96	1358.70	1433.06	1496.88	1272.34	209.06
Total drops	0.00	2.00	5.00	13.00	16.00	20.00	26.00	11.88	11.00
Congestion drops	0.00	2.00	5.00	13.00	16.00	20.00	26.00	11.88	11.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	2.00	3.00	5.00	6.00	8.00	3.38	3.00
Unnecessary rexmits	0.00	2.00	3.00	6.00	8.00	12.00	15.00	6.30	5.00
Response time	40.89	50.94	54.12	60.08	64.21	69.82	75.37	60.13	10.10
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1765.92	1790.95	1830.15	1869.67	1897.89	2006.97	1817.22	78.72
IP packet delay variation	-68.54	-11.01	-11.01	-11.00	-10.99	60.98	287.02	0.07	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	13.87	15.83	19.27	25.40	33.01	39.75	57.53	27.92	13.74
Throughput	220.30	283.70	381.49	499.16	613.61	753.31	913.43	514.16	232.12
Simultaneous throughput	145.56	159.37	168.61	187.58	199.28	210.18	219.54	186.61	30.66
Total drops	0.00	0.00	1.00	2.00	5.00	6.00	8.00	2.78	4.00
Congestion drops	0.00	0.00	1.00	2.00	5.00	6.00	8.00	2.78	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.29	14.74	18.21	23.39	27.77	29.43	40.24	23.31	9.56
Throughput	228.90	304.12	327.76	393.85	501.85	611.46	750.09	427.06	174.09
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	2.00	3.00	3.00	5.00	1.80	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	3.00	5.00	1.80	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.58	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	13.67	16.62	19.87	25.35	29.80	31.52	46.65	25.30	9.94
Throughput	197.73	267.58	306.27	363.76	462.09	533.01	674.87	392.32	155.82
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	5.00	1.90	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	4.00	5.00	1.90	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	2.00	0.93	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.86	17.01	20.24	25.74	30.28	31.74	41.11	24.92	10.04
Throughput	224.60	289.07	301.97	358.39	452.42	539.46	716.78	395.81	150.45
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	5.00	1.95	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	4.00	5.00	1.95	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	2.00	0.95	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.74	10.93	15.16	19.41	23.59	27.84	30.76	19.80	8.43
Throughput	299.82	315.94	376.12	474.99	595.34	805.97	1190.69	520.84	219.22
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.78	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.78	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.65	2.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.03	12.08	13.63	19.60	25.98	30.05	36.90	20.38	12.35

Throughput	249.31	305.19	327.76	470.69	672.72	761.91	1020.90	518.24	344.96
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	6.00	1.00	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	6.00	1.00	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.48	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.25	12.22	14.52	20.49	23.58	26.59	35.01	20.03	9.06
Throughput	263.28	327.76	384.72	450.27	608.24	729.67	996.18	509.51	223.52
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.90	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.70	2.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.37	12.51	14.06	19.55	23.84	25.95	35.27	19.73	9.78
Throughput	261.13	336.36	376.12	471.76	654.45	732.90	888.72	512.89	278.33
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.73	2.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.87	9.49	13.06	15.28	19.98	22.21	25.83	16.21	6.92
Throughput	356.78	413.73	457.79	603.40	687.76	816.72	1171.34	615.79	229.97
Simultaneous throughput	105.86	115.90	122.63	136.42	144.93	152.86	159.67	135.72	22.30
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.95	2.00

Error-Free Link - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7659.72	7707.57	7908.65	7931.17	7947.27	7952.54	7969.64	7900.93	38.62
Fairness of sim. thr. (F+S)	0.89	0.92	0.96	0.99	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (F+S+H)	0.88	0.88	0.94	0.96	0.99	0.99	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.81	0.85	0.87	0.89	0.90	0.92	0.92	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.42	110.67	116.04	119.09	121.71	124.00	128.86	118.60	5.67
Throughput	2860.66	2963.82	3008.96	3095.46	3144.36	3308.78	3463.52	3114.24	135.40
Simultaneous throughput	1176.56	1364.43	1623.77	1857.46	2245.81	2737.31	2835.71	1951.37	622.04
Total drops	7.00	15.00	17.00	21.50	26.00	31.00	40.00	22.13	9.00
Congestion drops	7.00	15.00	17.00	21.50	26.00	31.00	40.00	22.13	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.49	125.36	125.56	125.84	126.19	128.69	130.29	126.30	0.63
Throughput	2829.49	2846.69	2920.84	2929.43	2935.88	2938.03	2961.67	2918.98	15.04
Simultaneous throughput	869.17	1263.67	1432.49	1710.57	1854.60	2145.46	2264.19	1677.88	422.11
Total drops	9.00	14.00	17.00	21.00	24.00	27.00	29.00	20.72	7.00
Congestion drops	9.00	14.00	17.00	21.00	24.00	27.00	29.00	20.72	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	994.05	1126.66	1264.25	1411.53	1492.18	1571.69	1649.89	1382.96	227.93
Total drops	0.00	1.00	2.00	8.00	10.00	12.00	21.00	7.05	8.00
Congestion drops	0.00	1.00	2.00	8.00	10.00	12.00	21.00	7.05	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	4.00	4.00	6.00	2.12	3.00
Unnecessary rexmits	0.00	0.00	2.00	4.00	6.00	8.00	10.00	3.95	4.00
Response time	33.42	40.25	42.34	46.85	49.40	54.96	59.92	46.94	7.06
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1147.48	1687.26	1803.67	1853.95	1889.99	2004.25	1679.53	166.69
IP packet delay variation	-68.21	-11.01	-11.01	-11.00	-10.99	0.02	349.04	0.19	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.21	15.40	21.45	25.47	29.52	39.07	52.69	26.94	8.07
Throughput	240.72	307.34	408.36	497.55	580.30	798.45	1038.09	525.95	171.94
Simultaneous throughput	145.79	165.24	185.42	207.02	218.85	230.52	241.98	202.83	33.43
Total drops	0.00	0.00	0.00	2.00	4.00	5.00	9.00	2.35	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	5.00	9.00	2.35	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.45	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.32	12.29	15.42	19.58	24.40	27.22	36.56	20.36	8.98
Throughput	252.54	333.13	373.97	471.22	585.67	729.67	814.57	494.79	211.70
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	3.00	0.80	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	3.00	0.80	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.78	13.15	16.12	20.93	25.33	28.63	36.29	21.33	9.21
Throughput	253.61	314.87	356.78	440.06	560.96	639.40	782.33	471.39	204.18
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.23	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.55	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.58	13.97	17.08	23.56	26.85	29.65	38.71	22.84	9.77
Throughput	238.57	298.75	342.81	391.70	517.97	656.60	732.90	436.19	175.16
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.75	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	3.00	5.00	1.75	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	1.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	2.00	2.00	2.00	0.88	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	7.42	9.60	13.74	17.71	21.08	32.41	14.32	8.12
Throughput	284.78	385.79	510.45	670.57	956.42	1216.48	1314.27	747.91	445.97
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.20	6.97	10.23	12.64	15.40	20.04	24.95	13.18	5.17
Throughput	369.67	454.57	586.75	729.13	881.19	1213.25	1487.28	788.51	294.45
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.30	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	7.66	8.93	12.35	16.03	21.31	32.45	13.52	7.10
Throughput	283.70	416.96	572.78	746.33	959.64	1200.36	1432.48	793.45	386.87
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.40	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	7.87	8.76	11.55	15.98	18.74	21.94	12.89	7.22
Throughput	420.18	482.51	534.09	797.91	969.31	1142.33	1430.33	798.34	435.22
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.40	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.00	5.71	7.77	10.05	13.35	16.64	21.98	10.90	5.58
Throughput	419.10	536.24	686.69	918.27	1148.78	1542.09	1844.06	969.88	462.09
Simultaneous throughput	106.03	120.18	134.85	150.56	159.17	167.65	175.99	147.52	24.31
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00

Error-Free Link - Baseline TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7883.63	7914.32	7924.12	7942.35	7951.44	7952.12	7988.54	7939.18	27.31
Fairness of sim. thr. (F+S)	0.89	0.94	0.98	0.99	1.00	1.00	1.00	0.98	0.01
Fairness of sim. thr. (F+S+H)	0.85	0.89	0.95	0.98	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.83	0.85	0.87	0.89	0.91	0.92	0.93	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.76	113.62	117.94	120.36	122.55	124.36	125.87	119.95	4.61
Throughput	2928.36	2961.67	3002.51	3062.69	3122.87	3185.19	3486.09	3077.25	120.36
Simultaneous throughput	1372.51	1489.57	1669.50	1908.28	2145.85	2665.49	3024.71	1976.30	476.36
Total drops	12.00	16.00	20.00	26.50	28.00	30.00	37.00	24.93	8.00
Congestion drops	12.00	16.00	20.00	26.50	28.00	30.00	37.00	24.93	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.40	125.38	125.51	125.65	125.94	126.08	126.59	125.68	0.43
Throughput	2912.24	2922.99	2927.28	2933.73	2936.96	2938.03	2962.75	2933.14	9.67
Simultaneous throughput	960.53	1235.71	1444.17	1622.32	1781.51	2038.53	2362.60	1646.63	337.35
Total drops	14.00	19.00	22.00	24.50	29.00	33.00	40.00	25.72	7.00
Congestion drops	14.00	19.00	22.00	24.50	29.00	33.00	40.00	25.72	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.13	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.79	1125.05	1264.88	1417.30	1513.30	1595.87	1654.97	1389.04	248.41
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.62	3.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	6.00	8.00	12.00	3.25	6.00
Response time	33.44	39.82	43.41	46.03	48.30	49.41	54.14	45.36	4.89
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.24
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1767.90	1792.51	1831.10	1871.91	1900.87	2006.09	1821.75	79.40
IP packet delay variation	-66.45	-11.01	-11.01	-11.00	-10.99	0.01	287.01	0.05	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.29	12.99	14.07	16.83	17.73	18.35	21.28	16.03	3.66
Throughput	595.34	686.69	713.55	753.31	895.16	970.39	1121.91	807.64	181.61
Simultaneous throughput	145.61	165.01	185.52	207.87	221.95	234.06	242.73	203.73	36.43
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.56	12.70	13.43	15.89	17.69	18.25	20.58	15.63	4.27
Throughput	448.12	493.25	519.04	579.76	686.69	717.85	872.60	604.53	167.64
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.92	12.96	14.20	17.79	19.34	20.87	22.06	17.07	5.15
Throughput	418.03	434.15	474.99	517.97	648.00	706.03	843.58	558.27	173.01
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.60	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.78	13.75	14.97	18.26	20.63	22.68	23.28	18.24	5.66
Throughput	395.46	405.13	428.78	504.54	567.40	669.49	782.33	523.24	138.63
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50

Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.90	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.92	11.93	13.37	14.70	17.50	19.96	24.08	15.50	4.13
Throughput	382.57	450.27	525.49	627.04	678.09	758.69	843.58	615.01	152.60
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.45	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.27	11.68	13.26	15.44	17.60	18.59	23.02	15.46	4.33
Throughput	400.84	487.88	521.19	597.49	693.13	787.70	897.31	616.41	171.94
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.48	11.72	13.66	15.91	17.61	18.45	19.16	15.58	3.96
Throughput	481.43	492.18	523.34	579.76	663.04	770.51	879.04	608.24	139.70
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.48	11.64	13.57	16.20	17.71	18.43	19.99	15.73	4.13
Throughput	461.01	477.13	517.97	568.48	673.79	778.03	879.04	603.59	155.82
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.95	11.71	12.17	13.82	15.65	18.38	19.72	14.50	3.48
Throughput	467.46	500.78	527.64	666.81	746.87	779.10	841.43	654.18	219.22
Simultaneous throughput	105.90	120.00	134.92	151.18	161.42	170.23	176.53	148.16	26.50
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.50	0.00

Error-Free Link - Baseline TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7579.97	7790.67	7853.28	7924.92	7950.70	7951.81	7997.74	7894.43	97.43
Fairness of sim. thr. (F+S)	0.82	0.91	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.87	0.89	0.93	0.96	0.98	0.99	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.82	0.83	0.85	0.89	0.91	0.92	0.93	0.88	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	107.15	110.74	114.21	118.08	121.56	123.92	126.52	118.09	7.35
Throughput	2913.31	2967.04	3022.93	3122.33	3197.01	3310.93	3440.96	3127.19	174.09
Simultaneous throughput	1071.11	1352.63	1693.78	1957.46	2202.26	2455.39	2706.31	1962.31	508.48
Total drops	8.00	15.00	19.00	21.00	24.00	27.00	43.00	21.55	5.00
Congestion drops	8.00	15.00	19.00	21.00	24.00	27.00	43.00	21.55	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	13.00	0.45	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.57	125.47	125.52	125.92	126.44	127.97	131.67	126.41	0.92
Throughput	2799.40	2877.85	2901.49	2927.28	2936.96	2936.96	2959.52	2916.64	35.46
Simultaneous throughput	801.26	1063.31	1266.01	1573.34	1814.27	2333.44	2447.87	1609.85	548.26
Total drops	8.00	15.00	17.00	21.50	25.00	27.00	40.00	21.40	8.00
Congestion drops	8.00	15.00	17.00	21.50	25.00	27.00	40.00	21.40	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.48	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.53	1127.25	1265.99	1431.67	1542.81	1602.43	1674.71	1400.48	276.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.65	3.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	6.00	8.00	10.00	3.30	6.00
Response time	33.85	35.23	40.32	42.98	45.11	47.37	49.95	42.62	4.79
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1220.03	1748.23	1808.03	1856.93	1892.18	2005.66	1697.08	108.70
IP packet delay variation	-58.28	-11.01	-11.01	-11.00	-10.99	-0.01	287.02	0.16	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.70	12.20	13.20	16.48	17.49	17.80	18.91	15.53	4.29
Throughput	669.49	703.88	722.15	769.43	951.04	1026.27	1305.67	838.37	228.90
Simultaneous throughput	145.57	165.33	185.68	209.98	226.28	235.02	245.62	205.40	40.60
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.92	10.78	12.99	15.53	17.33	18.42	21.62	15.31	4.34
Throughput	426.63	491.10	527.64	593.73	702.81	801.67	929.55	624.84	175.16
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.83	11.21	13.41	17.59	19.42	21.38	22.23	16.87	6.00
Throughput	414.81	427.70	472.84	523.88	648.00	770.51	851.10	572.51	175.16
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.75	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.39	11.81	14.06	18.67	20.28	22.81	23.48	17.79	6.23
Throughput	392.24	397.61	449.19	493.25	636.18	743.64	809.19	543.52	186.99
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.90	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.25	10.11	12.00	14.64	17.87	19.24	22.27	14.84	5.88
Throughput	413.73	462.09	515.82	629.19	765.13	894.09	1117.61	659.79	249.31
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.55	2.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.58	10.44	11.58	14.00	17.19	17.85	19.30	14.15	5.62
Throughput	477.13	515.82	534.09	658.21	792.00	866.15	1074.63	681.82	257.91
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.47	10.77	11.93	14.28	17.32	18.62	20.60	14.40	5.39
Throughput	447.04	492.18	530.87	644.78	771.58	854.33	973.61	669.04	240.72
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 7									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.49	10.86	11.96	14.75	17.54	18.62	21.06	14.75	5.58
Throughput	437.37	492.18	524.42	625.43	762.99	830.69	970.39	652.14	238.57
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.65	7.87	10.03	12.84	15.79	17.41	19.48	12.74	5.76
Throughput	472.84	528.72	574.93	717.85	873.67	1100.42	1981.61	808.87	298.75
Simultaneous throughput	105.87	120.24	135.04	152.71	164.57	170.93	178.64	149.38	29.53
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.55	2.00

Error-Free Link - Enhanced TCP

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7892.86	7927.38	7942.27	7952.78	7961.49	7968.42	7974.68	7949.79	19.22
Fairness of sim. thr. (F+S)	0.95	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.88	0.90	0.94	0.97	0.98	0.99	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.87	0.89	0.90	0.91	0.92	0.93	0.95	0.91	0.02

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	109.27	112.52	113.95	118.07	122.83	123.66	124.15	117.93	8.87
Throughput	2969.19	2981.01	3000.36	3122.33	3231.40	3269.01	3373.25	3130.25	231.04
Simultaneous throughput	1379.52	1789.08	1935.76	2106.14	2373.72	2550.81	2632.54	2140.72	437.96
Total drops	1.00	2.00	2.00	4.50	5.00	8.00	30.00	5.43	3.00
Congestion drops	1.00	2.00	2.00	4.50	5.00	8.00	30.00	5.43	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.07	0.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.34	124.13	124.36	124.57	124.78	124.90	125.30	124.55	0.41
Throughput	2942.33	2949.85	2954.15	2959.52	2963.82	2970.27	2988.54	2959.87	9.67
Simultaneous throughput	1275.77	1446.87	1604.09	1811.89	1939.45	2202.08	2523.40	1827.29	335.36
Total drops	3.00	3.00	4.00	5.00	7.00	8.00	36.00	7.00	3.00
Congestion drops	3.00	3.00	4.00	5.00	7.00	8.00	36.00	7.00	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.95	0.00

HTTP transfer

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.47	1072.80	1265.56	1388.01	1490.90	1520.77	1608.95	1359.88	225.34
Total drops	0.00	5.00	8.00	13.50	17.00	22.00	30.00	13.32	9.00
Congestion drops	0.00	5.00	8.00	13.50	17.00	22.00	30.00	13.32	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	2.00	3.00	4.00	5.00	7.00	3.25	2.00
Unnecessary rexmits	0.00	1.00	3.00	4.00	7.00	9.00	13.00	4.90	4.00
Response time	42.13	44.43	47.52	50.63	52.38	55.04	62.48	50.51	4.86

Streaming flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3516.49	3569.55	3604.36	3639.18	3667.36	3692.23	3737.00	3636.03	63.00
Throughput (1st burst)	3382.20	3402.09	3491.62	3551.31	3654.10	3703.84	3766.84	3569.38	162.48
Throughput (2nd burst)	3461.78	3554.62	3647.47	3725.39	3766.84	3803.32	3803.32	3702.68	119.37
Simultaneous throughput	2745.74	2773.06	2830.32	3026.98	3162.48	3250.33	3317.74	3017.39	332.16
Total drops	40.00	65.00	81.00	99.00	119.00	141.00	173.00	100.90	38.00
Congestion drops	40.00	65.00	81.00	99.00	119.00	141.00	173.00	100.90	38.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.23	1913.62	2315.85	2689.12	3023.89	3127.17	3393.12	2602.33	708.04
IP packet delay variation	-69.43	-11.01	-11.01	-11.00	-10.99	0.00	577.41	0.17	0.02
Consecutive packets dropped	1.00	1.00	1.00	2.00	3.00	6.00	16.00	2.69	2.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.34	13.50	16.28	22.23	28.00	33.51	42.20	23.49	11.73
Throughput	299.82	370.75	423.40	570.09	775.88	899.46	1026.27	604.45	352.48
Simultaneous throughput	145.71	157.34	185.62	203.57	218.67	223.05	235.98	199.45	33.05
Total drops	0.00	0.00	0.00	3.00	4.00	5.00	7.00	2.45	4.00
Congestion drops	0.00	0.00	0.00	3.00	4.00	5.00	7.00	2.45	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.55	1.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.97	12.56	14.04	18.64	24.04	28.98	47.87	20.49	10.00
Throughput	192.36	288.00	377.19	495.40	641.55	726.45	840.36	508.51	264.36
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	11.00	2.10	3.00

Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	11.00	2.10	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.50	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.39	12.98	14.72	19.13	24.96	26.71	31.99	19.95	10.23
Throughput	288.00	342.81	367.52	483.58	622.21	706.03	809.19	502.87	254.69
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	2.00	4.00	5.00	6.00	2.15	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	5.00	6.00	2.15	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.80	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.84	13.12	15.44	20.28	24.89	29.00	38.90	21.18	9.46
Throughput	236.42	308.42	365.37	454.57	578.15	693.13	779.10	478.24	212.78
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	2.50	5.00	5.00	6.00	2.62	5.00
Congestion drops	0.00	0.00	0.00	2.50	5.00	5.00	6.00	2.62	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.65	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.44	10.29	11.97	14.80	22.52	25.62	30.15	16.67	10.56
Throughput	305.19	352.48	408.36	623.28	768.36	881.19	1237.97	622.72	360.00
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.80	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.80	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.35	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.55	10.23	13.34	15.29	22.32	25.97	28.40	17.08	8.98
Throughput	324.54	350.33	405.13	602.87	688.84	867.22	1077.85	598.16	283.70
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	0.97	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	0.97	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.27	11.79	12.80	15.48	19.64	23.64	32.32	16.72	6.84
Throughput	284.78	377.19	454.57	595.34	712.48	761.91	994.03	593.62	257.91
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	9.00	1.13	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	9.00	1.13	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.50	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.46	12.06	12.79	14.59	18.06	23.07	30.40	16.44	5.27
Throughput	303.04	354.63	499.70	631.88	701.73	751.16	881.19	599.86	202.03
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.77	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.77	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.57	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.50	10.37	11.87	13.50	15.28	16.87	26.51	14.05	3.40
Throughput	348.18	539.46	599.64	682.39	760.84	879.04	970.39	687.01	161.19
Simultaneous throughput	105.97	114.43	134.99	148.05	159.03	162.22	171.62	145.05	24.04
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.67	1.00

Error-Free Link - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7895.95	7912.87	7944.60	7956.26	7964.13	7970.42	7983.25	7952.11	19.54
Fairness of sim. thr. (F+S)	0.93	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.87	0.90	0.94	0.97	0.99	0.99	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.89	0.90	0.91	0.93	0.94	0.95	0.97	0.93	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.24	109.40	113.18	118.16	121.08	121.92	123.27	117.42	7.90
Throughput	2990.69	3020.78	3043.34	3119.64	3232.48	3301.25	3405.49	3143.82	189.13
Simultaneous throughput	1628.77	1709.25	1892.56	2042.85	2282.94	2493.11	2865.66	2107.32	390.37
Total drops	0.00	0.00	0.00	2.00	5.00	7.00	32.00	3.97	5.00

Congestion drops	0.00	0.00	0.00	2.00	5.00	7.00	32.00	3.97	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	3.00	9.00	0.75	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.54	122.34	122.99	123.34	123.74	123.94	124.81	123.29	0.75
Throughput	2954.15	2972.42	2977.79	2989.07	2997.13	3008.96	3033.67	2990.28	19.34
Simultaneous throughput	1275.44	1449.88	1642.59	1859.61	2144.38	2386.03	2553.26	1888.82	501.79
Total drops	0.00	0.00	0.00	3.00	5.00	8.00	18.00	3.70	5.00
Congestion drops	0.00	0.00	0.00	3.00	5.00	8.00	18.00	3.70	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.72	1125.48	1296.39	1433.79	1547.81	1645.21	1682.69	1416.33	251.42
Total drops	0.00	1.00	3.00	6.50	12.00	18.00	24.00	8.15	9.00
Congestion drops	0.00	1.00	3.00	6.50	12.00	18.00	24.00	8.15	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.28	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	7.00	9.00	2.18	3.00
Response time	31.36	35.91	37.55	41.09	42.83	44.96	51.82	40.96	5.28
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3012.48	3267.80	3355.67	3431.11	3488.31	3552.97	3722.08	3423.56	132.64
Throughput (1st burst)	2513.44	2874.87	3034.03	3186.56	3266.14	3352.36	3737.00	3176.37	232.11
Throughput (2nd burst)	3229.67	3368.94	3647.47	3743.63	3780.10	3793.37	3803.32	3670.76	132.63
Simultaneous throughput	2433.09	2575.17	2691.82	2818.43	3002.70	3113.48	3252.20	2842.13	310.89
Total drops	49.00	147.00	180.00	224.50	264.00	322.00	477.00	229.05	84.00
Congestion drops	49.00	147.00	180.00	224.50	264.00	322.00	477.00	229.05	84.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1336.64	1713.38	2089.40	2479.03	2876.59	3392.22	2091.42	765.65
IP packet delay variation	-12.70	-11.01	-11.01	-11.00	-10.99	0.00	421.01	1.20	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	3.00	176.00	3.60	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.55	11.09	14.47	19.82	22.36	26.52	42.61	19.70	7.89
Throughput	297.67	450.27	554.51	639.40	826.39	1041.31	1201.43	710.01	271.88
Simultaneous throughput	145.60	165.07	190.14	210.29	227.01	241.30	246.79	207.73	36.88
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.73	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.73	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.10	9.87	11.97	15.27	20.99	25.11	37.29	17.11	9.02
Throughput	247.16	341.73	405.13	603.40	761.91	869.37	1012.30	611.49	356.78
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	1.00	2.00	5.00	5.00	1.43	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	5.00	5.00	1.43	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.48	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.01	11.10	12.94	14.64	18.88	24.30	28.43	16.38	5.94
Throughput	324.54	364.30	481.43	629.19	709.25	818.87	919.88	610.90	227.82
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.37	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.37	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.74	11.53	13.17	16.44	21.82	24.82	33.89	17.79	8.65
Throughput	271.88	351.40	402.99	560.96	679.16	789.85	946.75	569.85	276.18
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.75	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.75	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.37	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.95	8.03	8.89	12.20	14.96	19.48	37.21	13.47	6.07
Throughput	247.16	468.54	564.18	755.46	1014.45	1134.81	1326.09	788.72	450.27
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.55	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.55	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	7.04	7.89	9.47	11.87	14.29	16.41	36.57	12.86	4.82
Throughput	252.54	483.58	625.43	776.42	970.39	1075.70	1309.97	794.87	344.96
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.33	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.25	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.23	8.05	9.19	12.04	14.02	18.47	38.53	13.12	4.84
Throughput	239.64	427.70	648.00	765.67	951.04	1111.16	1479.76	798.04	303.04
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.55	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.55	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.80	8.41	9.50	11.47	13.05	16.72	22.57	11.93	3.55
Throughput	408.36	549.13	687.76	803.28	955.34	1064.96	1588.30	834.18	267.58
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.79	7.27	8.91	10.55	13.33	14.19	18.56	11.15	4.42
Throughput	496.48	628.66	682.39	873.13	1032.72	1263.76	1357.25	885.68	350.33
Simultaneous throughput	105.89	120.05	138.28	152.94	165.10	175.49	179.49	151.08	26.82
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00

Error-Free Link - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7893.82	7921.08	7933.57	7948.59	7962.11	7971.97	7977.32	7947.95	28.55
Fairness of sim. thr. (F+S)	0.95	0.97	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.89	0.92	0.94	0.97	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.87	0.87	0.88	0.90	0.91	0.92	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.97	111.97	115.42	122.88	124.80	125.20	125.83	120.31	9.38
Throughput	2929.43	2944.48	2952.00	2999.82	3188.42	3274.39	3382.93	3069.94	236.42
Simultaneous throughput	1605.28	1680.05	1849.21	2058.74	2272.71	2419.06	2544.18	2055.23	423.50
Total drops	1.00	2.00	2.00	4.00	5.00	8.00	31.00	5.83	3.00
Congestion drops	1.00	2.00	2.00	4.00	5.00	8.00	31.00	5.83	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.13	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.59	125.11	125.26	125.55	125.79	125.86	126.37	125.54	0.52
Throughput	2917.61	2926.21	2930.51	2935.88	2942.33	2946.63	2958.45	2936.44	11.82
Simultaneous throughput	1261.54	1519.80	1655.96	1759.70	1925.21	2228.93	2546.09	1824.35	269.26
Total drops	1.00	2.00	3.00	5.00	7.00	9.00	26.00	6.60	4.00
Congestion drops	1.00	2.00	3.00	5.00	7.00	9.00	26.00	6.60	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.18	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.79	1113.05	1265.54	1349.06	1415.96	1482.40	1602.78	1330.33	150.42
Total drops	0.00	1.00	5.00	10.00	15.00	19.00	31.00	10.68	10.00
Congestion drops	0.00	1.00	5.00	10.00	15.00	19.00	31.00	10.68	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	2.00	3.00	4.00	5.00	7.00	3.18	2.00
Unnecessary rexmits	0.00	0.00	3.00	6.50	10.00	12.00	18.00	6.90	7.00
Response time	44.07	46.83	50.28	53.78	57.72	61.52	67.62	54.35	7.44
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.23	1767.63	1792.12	1830.72	1870.62	1899.05	2007.58	1822.85	78.49
IP packet delay variation	-58.38	-11.01	-11.01	-11.00	-10.99	60.97	574.99	0.09	0.02

Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.27	14.11	19.60	24.56	27.43	29.01	55.19	23.99	7.83
Throughput	229.97	429.85	453.49	516.36	638.33	825.31	1234.75	581.45	184.84
Simultaneous throughput	145.61	163.25	185.61	197.86	207.67	217.42	235.07	195.11	22.06
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	1.87	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	1.87	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	2.00	4.00	5.00	1.25	2.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.25	13.13	15.18	17.95	22.14	31.98	43.16	19.91	6.95
Throughput	213.85	282.63	395.46	513.67	602.87	692.06	899.46	514.18	207.40
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.50	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	4.00	4.00	1.10	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.67	13.55	16.14	19.41	26.56	29.49	38.51	21.47	10.42
Throughput	239.64	311.64	344.96	474.99	546.99	672.72	864.00	470.82	202.03
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	9.00	1.93	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	9.00	1.93	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.78	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.10	13.91	17.19	20.96	27.07	29.07	33.86	22.01	9.88
Throughput	271.88	311.64	338.51	440.60	524.42	655.52	830.69	453.79	185.91
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	1.50	4.00	7.00	9.00	2.60	4.00
Congestion drops	0.00	0.00	0.00	1.50	4.00	7.00	9.00	2.60	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.42	13.37	14.57	16.55	21.23	28.78	33.55	18.79	6.66
Throughput	275.10	312.72	410.51	556.66	623.28	674.87	807.04	531.30	212.78
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.55	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.55	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.50	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.12	13.24	15.09	17.35	22.33	25.05	32.59	19.02	7.24
Throughput	282.63	338.51	412.66	531.40	603.94	663.04	828.54	519.47	191.28
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.68	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.68	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.42	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.28	13.08	14.86	17.15	19.57	23.38	31.70	17.91	4.72
Throughput	291.22	379.34	456.72	537.85	608.24	671.64	750.09	539.97	151.52
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.67	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.67	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.72	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.34	11.54	14.36	17.02	19.93	26.03	31.48	18.02	5.57
Throughput	292.30	346.03	434.15	541.61	626.51	788.78	890.87	555.26	192.36
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	3.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	3.00	0.75	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.42	9.88	11.45	13.77	17.75	20.73	25.93	14.93	6.29
Throughput	355.70	434.15	516.90	669.49	783.40	902.69	1434.63	679.38	266.51
Simultaneous throughput	105.90	118.73	134.99	143.90	151.04	158.12	170.96	141.90	16.04
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.97	1.00

Error-Free Link - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7579.40	7873.76	7909.27	7950.30	7957.16	7976.62	7977.32	7926.64	47.89
Fairness of sim. thr. (F+S)	0.93	0.96	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.83	0.91	0.95	0.98	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.85	0.87	0.88	0.90	0.91	0.92	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	107.61	114.15	117.86	120.65	123.43	125.12	129.50	120.32	5.57
Throughput	2846.69	2935.88	2985.31	3055.16	3127.16	3222.81	3425.91	3067.98	141.85
Simultaneous throughput	1462.86	1590.27	1676.84	1894.47	2148.01	2486.33	3207.05	1993.27	471.17
Total drops	0.00	0.00	1.00	2.00	4.00	7.00	29.00	4.45	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	7.00	29.00	4.45	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.15	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.52	125.10	125.40	125.53	126.12	126.73	131.68	125.89	0.72
Throughput	2799.40	2909.01	2921.91	2936.96	2939.10	2946.63	2960.60	2928.55	17.19
Simultaneous throughput	1271.12	1424.57	1582.34	1757.45	1878.75	2059.70	2372.77	1762.94	296.40
Total drops	0.00	0.00	1.00	3.00	4.00	11.00	19.00	4.25	3.00
Congestion drops	0.00	0.00	1.00	3.00	4.00	11.00	19.00	4.25	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.42	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.94	1127.58	1266.14	1397.02	1513.24	1569.10	1649.85	1377.71	247.10
Total drops	0.00	0.00	4.00	9.00	11.00	18.00	21.00	8.88	7.00
Congestion drops	0.00	0.00	4.00	9.00	11.00	18.00	21.00	8.88	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	3.00	3.00	5.00	7.00	2.62	2.00
Unnecessary rexmits	0.00	0.00	3.00	5.00	8.00	15.00	17.00	5.97	5.00
Response time	39.31	42.62	43.57	48.49	50.82	52.66	62.07	47.86	7.25
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1441.33	1768.23	1815.54	1860.63	1892.82	2007.69	1733.95	92.40
IP packet delay variation	-66.02	-11.01	-11.01	-11.00	-10.99	60.95	574.99	0.20	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.52	14.03	18.08	24.82	27.64	30.77	44.00	23.61	9.56
Throughput	288.00	396.54	456.72	510.99	649.07	898.39	1099.34	594.51	192.36
Simultaneous throughput	145.78	165.38	185.70	204.90	221.94	230.14	241.98	202.06	36.24
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	9.00	2.10	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	9.00	2.10	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	3.00	4.00	5.00	1.27	3.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.53	12.09	14.07	18.20	23.97	27.57	32.45	19.55	9.90
Throughput	283.70	307.34	367.52	506.69	603.94	756.54	966.09	520.41	236.42
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	1.00	3.00	3.00	5.00	1.40	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	3.00	5.00	1.40	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	1.05	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.28	12.54	16.03	18.58	25.80	28.00	37.59	20.12	9.77
Throughput	245.01	321.31	356.78	495.94	569.55	714.63	896.24	502.23	212.78
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.80	3.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.80	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.17	12.94	14.63	22.35	26.25	29.28	43.99	21.73	11.61
Throughput	209.55	306.27	343.88	412.66	602.87	698.51	825.31	471.71	258.99

Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	1.50	4.00	8.00	9.00	2.42	4.00
Congestion drops	0.00	0.00	0.00	1.50	4.00	8.00	9.00	2.42	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.58	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.60	10.08	12.63	14.76	17.66	21.01	32.13	15.92	5.03
Throughput	286.93	376.12	508.30	625.43	725.37	898.39	1072.48	631.13	217.07
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.22	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.22	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.65	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.49	11.18	12.06	14.29	16.09	18.85	30.05	14.89	4.03
Throughput	306.27	412.66	566.33	644.78	757.61	804.90	970.39	656.44	191.28
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.81	8.98	11.02	14.54	16.63	20.22	28.44	14.64	5.62
Throughput	324.54	442.75	537.31	634.03	821.01	891.94	1179.94	682.09	283.70
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.42	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.95	8.37	11.04	13.58	17.51	21.82	27.51	14.60	6.47
Throughput	335.28	410.51	524.42	678.63	831.76	1024.12	1326.09	706.00	307.34
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.37	6.94	8.45	11.60	13.39	16.61	26.45	11.92	4.94
Throughput	348.18	529.79	673.79	794.15	1086.45	1298.15	1717.25	874.40	412.66
Simultaneous throughput	106.02	120.27	135.05	149.02	161.41	167.37	175.98	146.96	26.36
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.27	0.00

Error-Free Link - Enhanced TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7934.70	7944.24	7957.54	7967.79	7972.36	7973.10	7983.89	7964.07	14.82
Fairness of sim. thr. (F+S)	0.93	0.95	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.89	0.91	0.94	0.98	0.99	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.85	0.87	0.88	0.90	0.92	0.93	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.74	109.64	120.94	123.49	124.23	124.53	125.03	121.24	3.30
Throughput	2948.78	2956.30	2967.04	2985.31	3036.90	3157.25	3588.18	3046.30	69.85
Simultaneous throughput	1475.24	1621.26	1804.65	1955.35	2223.25	2402.47	2658.81	2008.95	418.60
Total drops	0.00	0.00	1.00	2.00	3.00	6.00	29.00	4.25	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	6.00	29.00	4.25	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.13	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.40	125.09	125.18	125.25	125.40	125.62	125.77	125.29	0.22
Throughput	2931.58	2934.81	2939.10	2943.40	2944.48	2946.63	2963.82	2942.38	5.37
Simultaneous throughput	1255.24	1410.31	1489.21	1741.37	1895.44	2222.14	2503.25	1767.26	406.23
Total drops	1.00	2.00	3.00	4.00	7.00	9.00	23.00	6.15	4.00
Congestion drops	1.00	2.00	3.00	4.00	7.00	9.00	23.00	6.15	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.35	1129.90	1268.01	1397.74	1513.96	1607.06	1651.39	1385.01	245.95
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	1.00	2.00	4.00	5.00	6.00	2.48	3.00
Unnecessary rexmits	0.00	1.00	1.00	2.00	4.00	6.00	9.00	2.85	3.00
Response time	37.38	40.90	43.65	45.71	47.22	48.00	50.00	45.29	3.57
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.23	1768.45	1793.12	1831.48	1871.55	1899.78	2007.78	1825.21	78.43
IP packet delay variation	-20.00	-11.01	-11.01	-11.00	-10.99	60.97	575.00	0.12	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.67	13.57	15.92	18.75	20.62	21.46	22.91	18.27	4.70
Throughput	553.43	579.22	613.61	675.40	789.85	875.82	1000.48	712.34	176.24
Simultaneous throughput	145.69	165.72	185.98	205.00	222.05	235.70	242.20	203.14	36.07
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.53	11.18	12.26	15.22	17.00	17.87	19.06	14.78	4.73
Throughput	483.58	513.67	538.39	606.09	751.16	783.40	874.75	642.90	212.78
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.46	11.97	13.63	16.80	18.02	18.99	19.91	15.91	4.39
Throughput	463.16	484.66	505.07	548.60	670.57	739.34	803.82	594.86	165.49
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.96	13.41	14.73	17.66	19.69	20.28	21.35	17.18	4.96
Throughput	432.00	449.19	466.39	522.27	623.28	672.72	770.51	549.54	156.90
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	0.00
Unnecessary retransmissions	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.92	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.26	11.60	13.06	14.78	16.97	18.20	19.71	14.97	3.91
Throughput	467.46	495.40	535.16	623.82	681.31	773.73	898.39	634.19	146.15
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.21	12.16	13.40	15.48	17.93	18.90	20.18	15.54	4.53
Throughput	456.72	483.58	513.67	595.88	680.24	750.09	822.09	609.72	166.57
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.14	12.64	13.67	15.31	17.85	18.97	19.77	15.66	4.18
Throughput	466.39	484.66	514.75	601.79	670.57	714.63	827.46	601.58	155.82
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00

HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.49	12.63	13.68	14.98	17.77	18.54	19.94	15.48	4.09
Throughput	462.09	495.40	514.75	615.76	671.64	729.67	802.75	609.07	156.90
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.55	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.60	10.17	11.62	12.46	13.03	14.51	17.49	12.48	1.41
Throughput	526.57	626.51	689.91	739.88	778.03	868.30	1072.48	751.78	88.12
Simultaneous throughput	105.96	120.52	135.25	149.09	161.49	171.42	176.15	147.73	26.23
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.18	0.00

Error-Free Link - Enhanced TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	7694.44	7889.99	7943.16	7962.28	7967.83	7977.00	7989.74	7942.14	24.67
Fairness of sim. thr. (F+S)	0.94	0.96	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.85	0.92	0.95	0.98	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.85	0.87	0.88	0.90	0.91	0.93	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	110.13	112.02	114.82	120.94	123.67	124.48	125.41	119.44	8.86
Throughput	2939.10	2957.37	2978.87	3048.18	3174.45	3282.99	3347.46	3091.54	195.58
Simultaneous throughput	1278.97	1479.01	1733.61	1853.70	2113.40	2286.41	3057.45	1930.80	379.80
Total drops	0.00	0.00	1.00	2.00	3.00	18.00	29.00	4.65	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	18.00	29.00	4.65	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.54	125.10	125.25	125.34	125.62	126.45	129.70	125.64	0.38
Throughput	2842.39	2914.39	2933.73	2941.25	2943.40	2946.63	2959.52	2934.24	9.67
Simultaneous throughput	1119.96	1437.96	1579.23	1757.86	2005.21	2184.68	2588.37	1806.55	425.99
Total drops	0.00	0.00	1.00	2.00	5.00	10.00	27.00	4.32	4.00
Congestion drops	0.00	0.00	1.00	2.00	5.00	10.00	27.00	4.32	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.10	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	992.68	1127.98	1293.77	1428.30	1540.68	1585.50	1655.61	1398.44	246.91
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	1.00	2.00	2.00	3.00	4.00	5.00	2.37	1.00
Unnecessary rexmits	0.00	1.00	2.00	2.00	4.00	6.00	9.00	2.93	2.00
Response time	35.25	38.88	40.20	43.26	45.96	47.86	48.72	43.33	5.77
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1753.57	1785.47	1826.61	1867.85	1897.44	2008.57	1792.89	82.38
IP packet delay variation	-31.88	-11.01	-11.01	-11.00	-10.99	60.97	575.00	0.15	0.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.56	12.53	14.83	17.59	19.19	21.53	35.84	17.68	4.35
Throughput	353.55	586.75	650.15	720.00	833.91	1000.48	1096.12	751.41	183.76
Simultaneous throughput	145.59	165.44	189.75	209.48	225.97	232.54	242.82	205.10	36.21
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.25	10.53	11.83	14.51	15.65	17.93	18.75	14.22	3.82
Throughput	491.10	513.67	587.82	635.10	776.96	869.37	899.46	669.14	189.13
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34

Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.03	11.50	12.62	16.17	17.83	18.84	19.63	15.55	5.21
Throughput	469.61	486.81	511.52	570.09	730.75	784.48	834.99	613.83	219.22
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.45	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.75	12.91	14.23	17.28	19.81	21.09	22.40	17.21	5.58
Throughput	411.58	427.70	463.16	533.55	639.40	711.40	784.48	554.43	176.24
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.80	0.00
Unnecessary retransmissions	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.80	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.12	11.39	12.35	14.46	16.03	17.68	20.88	14.40	3.68
Throughput	441.67	517.97	574.93	637.79	741.49	804.90	1010.15	660.28	166.57
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.06	10.91	13.05	15.09	17.58	18.83	21.23	15.08	4.53
Throughput	434.15	483.58	517.97	610.93	678.09	831.76	1016.60	636.66	160.12
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.36	12.42	12.94	15.26	18.23	19.43	21.70	15.77	5.29
Throughput	424.48	471.76	504.00	604.48	697.43	729.67	811.34	602.09	193.43
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.48	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.29	11.96	13.38	15.07	17.94	18.58	20.58	15.43	4.56
Throughput	448.12	486.81	510.45	612.00	685.61	768.36	895.16	615.95	175.16
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.80	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.43	8.39	10.92	12.10	12.90	13.57	15.98	11.75	1.98
Throughput	577.07	671.64	708.18	761.91	837.13	967.16	1433.55	811.24	128.96
Simultaneous throughput	105.89	120.32	138.00	152.35	164.34	169.12	176.60	149.17	26.34
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00

Link with High ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5810.17	6204.73	6503.57	6639.90	6760.85	6847.11	6907.72	6590.72	257.27
Fairness of sim. thr. (F+S)	0.76	0.85	0.93	0.98	1.00	1.00	1.00	0.96	0.07
Fairness of sim. thr. (F+S+H)	0.82	0.89	0.91	0.97	0.99	1.00	1.00	0.95	0.07
Fairness of sim. thr. (all)	0.83	0.86	0.89	0.90	0.91	0.94	0.95	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	118.69	121.12	127.16	133.68	138.78	141.81	145.08	132.83	11.62
Throughput	2541.49	2594.15	2644.66	2757.49	2888.60	3026.15	3105.67	2784.68	243.94
Simultaneous throughput	1201.45	1293.16	1489.71	1747.97	1958.13	2230.41	2558.69	1776.06	468.43

Total drops	3.00	4.00	16.00	23.00	27.00	28.00	32.00	20.82	11.00
Congestion drops	3.00	3.00	15.00	22.50	25.00	28.00	31.00	20.15	10.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.67	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	13.00	26.00	3.35	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.60	140.84	143.96	146.05	149.17	155.22	166.67	147.56	5.21
Throughput	2211.58	2344.84	2457.67	2523.76	2558.69	2611.34	2640.36	2502.43	101.01
Simultaneous throughput	656.88	860.97	1080.40	1372.55	1638.26	1808.23	2522.57	1384.06	557.86
Total drops	4.00	7.00	15.00	23.00	27.00	28.00	34.00	20.38	12.00
Congestion drops	3.00	6.00	14.00	22.00	26.00	27.00	33.00	19.38	12.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	1.00	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.20	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.50	18.00	25.00	43.00	9.42	18.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.14	1128.48	1187.15	1339.41	1409.22	1454.74	1480.22	1303.75	222.08
Total drops	0.00	5.00	12.00	17.50	22.00	26.00	27.00	16.95	10.00
Congestion drops	0.00	5.00	12.00	17.50	22.00	26.00	27.00	16.85	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.33	2.00
Unnecessary rexmits	0.00	1.00	2.00	4.00	6.00	9.00	19.00	4.60	4.00
Response time	34.48	45.22	50.40	55.62	60.59	68.89	74.61	56.07	10.19
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2901.40	2959.42	3110.30	3237.13	3317.54	3377.23	3577.84	3217.07	207.24
Throughput (1st burst)	2556.54	2772.08	2901.40	3106.98	3189.88	3408.73	3574.52	3084.43	288.48
Throughput (2nd burst)	2964.40	3047.29	3226.35	3339.09	3451.83	3597.73	3776.79	3349.70	225.48
Simultaneous throughput	2252.63	2368.44	2551.67	2665.80	2800.89	2907.64	2997.72	2668.81	249.22
Total drops	136.00	243.00	286.00	341.50	413.00	463.00	544.00	353.60	127.00
Congestion drops	131.00	236.00	286.00	338.50	410.00	456.00	537.00	351.17	124.00
Error drops	0.00	0.00	0.00	1.00	4.00	7.00	8.00	2.43	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1489.92	1842.61	2338.30	3263.08	4213.67	5562.05	2583.50	1420.47
IP packet delay variation	-120.36	-19.94	-11.01	-11.00	-10.99	-0.00	3068.56	1.85	0.02
Consecutive packets dropped	1.00	1.00	2.00	3.00	6.00	18.00	141.00	8.96	4.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.57	10.53	17.89	25.54	31.14	35.05	42.01	25.06	13.25
Throughput	301.97	358.93	373.97	496.48	620.06	1090.75	1928.96	612.32	246.09
Simultaneous throughput	145.66	165.51	174.11	196.45	206.69	213.36	217.10	191.22	32.57
Total drops	0.00	0.00	1.00	3.00	4.00	6.00	9.00	3.05	3.00
Congestion drops	0.00	0.00	1.00	3.00	4.00	6.00	9.00	3.05	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.72	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.09	13.52	15.82	20.94	28.06	33.62	49.42	22.86	12.24
Throughput	186.99	257.91	324.54	440.06	572.78	661.97	1300.30	465.37	248.24
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	6.00	2.30	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	5.00	6.00	2.30	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.53	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.41	16.38	19.78	25.57	30.75	37.57	52.04	26.06	10.97
Throughput	177.31	240.72	298.75	360.54	445.97	524.42	1244.42	399.17	147.22
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	1.00	2.00	3.00	4.00	5.00	6.00	3.05	2.00
Congestion drops	0.00	1.00	2.00	3.00	4.00	5.00	6.00	3.05	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.69	13.88	18.48	22.84	29.32	34.94	69.60	25.14	10.84
Throughput	132.18	258.99	311.64	403.52	474.99	643.70	1198.21	427.73	163.34
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	2.00	3.00	4.00	5.00	7.00	2.73	2.00
Congestion drops	0.00	0.00	2.00	3.00	4.00	5.00	7.00	2.73	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.37	8.97	11.52	15.08	22.73	27.68	31.10	17.29	11.22
Throughput	296.60	327.76	398.69	610.93	799.52	895.16	1447.52	626.99	400.84
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.08	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.50	0.00
HTTP inline 5									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.96	9.13	11.80	16.00	20.42	26.27	38.24	17.32	8.62
Throughput	240.72	320.24	436.30	576.00	762.99	1000.48	1325.01	627.58	326.69
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.15	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.15	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.53	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.99	9.49	12.34	17.95	23.35	26.26	32.61	18.18	11.01
Throughput	282.63	349.25	387.94	514.75	722.15	885.49	1319.64	590.29	334.21
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.50	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.48	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.55	8.52	11.81	15.48	21.27	23.59	32.04	16.59	9.46
Throughput	288.00	378.27	421.25	595.88	745.79	910.21	1406.69	638.81	324.54
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.05	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.30	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.23	8.41	11.20	13.92	15.70	26.29	28.89	15.00	4.50
Throughput	319.16	349.25	566.33	662.51	775.88	932.78	1762.39	706.62	209.55
Simultaneous throughput	105.93	120.37	126.63	142.87	150.32	155.17	157.89	139.07	23.69
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	7.00	1.00	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	7.00	0.95	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.43	0.00

Link with High ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5327.53	5739.40	6021.03	6537.72	6718.25	6830.56	6907.03	6413.87	697.22
Fairness of sim. thr. (F+S)	0.67	0.84	0.94	0.99	1.00	1.00	1.00	0.95	0.06
Fairness of sim. thr. (F+S+H)	0.71	0.79	0.94	0.98	0.99	1.00	1.00	0.95	0.06
Fairness of sim. thr. (all)	0.78	0.83	0.89	0.92	0.94	0.95	0.96	0.91	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	109.62	122.24	127.15	138.67	142.64	146.41	161.36	136.55	15.50
Throughput	2284.66	2517.85	2581.25	2658.09	2835.94	3004.66	3362.51	2714.72	254.69
Simultaneous throughput	1173.75	1264.93	1392.74	1584.53	1813.78	2030.63	3084.36	1687.29	421.04
Total drops	2.00	10.00	15.00	20.00	24.00	29.00	38.00	19.95	9.00
Congestion drops	2.00	10.00	15.00	19.50	24.00	27.00	38.00	19.02	9.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.92	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.70	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	12.00	25.00	45.00	6.53	12.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.18	141.87	143.56	147.59	157.64	164.92	180.69	151.08	14.08
Throughput	2040.72	2230.93	2313.67	2497.43	2567.28	2596.30	2668.30	2449.42	253.61
Simultaneous throughput	329.67	845.62	1121.67	1352.18	1568.37	1773.09	2073.53	1336.92	446.70
Total drops	1.00	5.00	8.00	18.50	25.00	32.00	38.00	18.45	17.00
Congestion drops	0.00	3.00	7.00	17.50	24.00	31.00	38.00	17.48	17.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	0.97	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	4.00	5.00	7.00	2.05	4.00
Unnecessary rexmits	0.00	0.00	0.00	12.50	28.00	37.00	54.00	15.42	28.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	989.95	1082.98	1266.00	1418.78	1517.78	1606.57	1654.91	1392.63	251.78
Total drops	0.00	2.00	6.00	11.00	16.00	19.00	30.00	11.47	10.00
Congestion drops	0.00	2.00	6.00	11.00	15.00	19.00	30.00	11.20	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	1.00	1.50	2.00	4.00	6.00	1.77	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.50	5.00	9.00	15.00	3.73	4.00
Response time	32.02	34.98	39.35	47.72	49.93	53.74	58.69	45.77	10.58
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2553.23	2850.00	2937.87	3063.87	3262.83	3360.65	3552.97	3092.18	324.96
Throughput (1st burst)	2079.06	2281.33	2500.17	2785.34	2954.45	3153.40	3392.15	2750.11	454.28
Throughput (2nd burst)	2755.50	3027.40	3259.51	3524.78	3670.68	3730.37	3803.32	3434.26	411.17
Simultaneous throughput	2287.28	2320.36	2416.81	2534.79	2649.45	2814.63	3028.98	2562.70	232.65
Total drops	151.00	259.00	307.00	446.00	521.00	573.00	754.00	428.93	214.00
Congestion drops	151.00	259.00	301.00	445.50	515.00	573.00	754.00	426.40	214.00
Error drops	0.00	0.00	0.00	1.00	5.00	7.00	13.00	2.52	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	816.67	1184.21	1741.45	2571.03	3576.44	5582.53	1977.58	1386.82

IP packet delay variation	-21.18	-19.95	-11.01	-11.00	-10.99	0.00	3077.15	1.97	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	5.00	309.00	5.64	0.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.31	14.63	19.15	22.55	29.22	33.66	47.91	24.18	10.07
Throughput	264.36	338.51	430.93	562.03	660.90	847.88	1360.48	598.62	229.97
Simultaneous throughput	145.19	158.84	185.68	208.09	222.61	235.63	242.72	204.25	36.93
Total drops	0.00	0.00	1.00	2.00	4.00	4.00	7.00	2.22	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	4.00	7.00	2.17	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.93	12.48	13.55	18.22	25.93	30.52	34.90	20.14	12.38
Throughput	264.36	301.97	354.63	511.52	673.79	714.63	842.51	518.24	319.16
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.97	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.93	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.10	11.30	13.93	19.71	26.37	32.05	50.70	21.76	12.43
Throughput	181.61	257.91	332.06	468.00	655.52	814.57	912.36	500.37	323.46
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	8.00	2.43	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	5.00	8.00	2.35	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.75	11.67	13.67	18.86	24.33	27.20	42.57	19.80	10.66
Throughput	216.00	332.06	365.37	490.03	666.27	785.55	857.55	522.91	300.90
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.97	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.95	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.27	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.01	6.16	8.54	11.85	14.90	18.41	30.04	12.54	6.36
Throughput	306.27	496.48	616.84	778.03	1017.67	1285.25	1838.69	860.75	400.84
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.42	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.40	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.50	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.58	6.21	7.97	12.49	17.55	21.57	33.18	13.74	9.58
Throughput	277.25	392.24	504.00	738.27	1129.43	1467.94	1651.70	835.23	625.43
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.42	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.78	7.00	8.94	11.23	16.52	19.92	27.80	13.07	7.58
Throughput	330.99	455.64	529.79	821.01	1025.19	1290.63	1594.75	818.09	495.40
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.50	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.12	7.37	9.57	12.05	15.48	19.91	25.87	13.26	5.92
Throughput	355.70	451.34	534.09	764.60	958.57	1193.91	1505.55	794.18	424.48
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.63	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.38	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.87	8.53	10.16	12.06	14.87	17.73	23.07	12.88	4.70
Throughput	399.76	459.94	596.42	764.60	886.57	1057.43	1570.03	778.41	290.15
Simultaneous throughput	105.59	115.52	135.04	151.34	161.90	171.37	176.52	148.55	26.86
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.35	0.00

Link with High ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5173.51	5937.13	6496.53	6667.35	6780.54	6930.04	7005.40	6566.21	284.02
Fairness of sim. thr. (F+S)	0.67	0.81	0.94	0.98	0.99	1.00	1.00	0.95	0.06
Fairness of sim. thr. (F+S+H)	0.68	0.87	0.93	0.97	0.98	0.99	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.74	0.76	0.81	0.84	0.86	0.87	0.89	0.83	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	112.67	123.58	127.58	136.32	141.73	145.13	149.40	134.96	14.15
Throughput	2467.34	2528.60	2592.00	2704.30	2881.07	2978.87	3272.24	2744.52	289.07
Simultaneous throughput	901.47	1196.52	1447.67	1621.00	1802.79	2111.93	2917.72	1670.84	355.13
Total drops	3.00	5.00	19.00	23.00	27.00	30.00	37.00	22.05	8.00
Congestion drops	2.00	5.00	18.00	23.00	27.00	29.00	35.00	21.55	9.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.50	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.23	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	12.00	30.00	3.07	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.42	143.25	145.45	149.64	153.15	163.82	192.84	152.51	7.70
Throughput	1911.76	2193.31	2400.72	2463.04	2504.96	2559.76	2588.78	2426.24	104.24
Simultaneous throughput	512.38	638.97	974.97	1254.15	1545.03	1669.12	2028.18	1249.65	570.06
Total drops	3.00	6.00	18.00	25.00	27.00	29.00	32.00	21.57	9.00
Congestion drops	1.00	4.00	18.00	22.50	25.00	27.00	31.00	20.07	7.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.50	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	2.00	4.00	8.00	1.25	2.00
Unnecessary rexmits	0.00	0.00	0.00	3.00	17.00	29.00	55.00	10.35	17.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	980.98	1067.46	1140.01	1244.33	1340.91	1434.35	1497.59	1242.42	200.90
Total drops	1.00	3.00	6.00	16.00	19.00	23.00	28.00	14.23	13.00
Congestion drops	1.00	3.00	6.00	16.00	19.00	23.00	28.00	14.03	13.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Spurious RTOs	0.00	1.00	2.00	4.00	5.00	7.00	8.00	3.72	3.00
Unnecessary rexmits	0.00	1.00	4.00	7.00	10.00	12.00	26.00	7.45	6.00
Response time	40.22	47.25	56.79	62.74	68.09	73.51	83.29	62.70	11.30
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3785.08	3790.05	3796.68	3800.00	3803.32	3803.32	3803.32	3798.84	6.64
Throughput (1st burst)	3770.16	3783.42	3793.37	3803.32	3803.32	3803.32	3803.32	3797.52	9.95
Throughput (2nd burst)	3786.74	3793.37	3796.68	3803.32	3803.32	3803.32	3803.32	3800.17	6.64
Simultaneous throughput	2872.59	2897.30	2954.78	3157.19	3317.41	3407.89	3418.83	3152.66	362.63
Total drops	0.00	0.00	0.00	2.00	4.00	7.00	11.00	2.70	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	2.00	4.00	7.00	11.00	2.70	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1167.82	1208.58	1277.08	2107.90	3124.59	4154.02	1717.43	899.32
IP packet delay variation	-20.28	-19.94	-11.01	-11.00	-10.99	-10.97	3005.07	-0.23	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.03	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.08	19.41	24.82	29.61	36.95	42.59	49.44	30.57	12.13
Throughput	255.76	285.85	338.51	428.24	508.30	652.30	1256.24	463.19	169.79
Simultaneous throughput	143.88	156.56	167.20	182.50	196.67	210.37	219.65	182.22	29.47
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	8.00	2.75	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	5.00	8.00	2.75	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.18	2.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.77	16.18	22.35	26.94	32.52	42.30	59.93	28.04	10.17
Throughput	153.67	214.93	279.40	341.73	398.69	565.25	783.40	370.10	119.28
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	8.00	2.17	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	8.00	2.17	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	2.00	2.00	3.00	0.98	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	12.93	16.58	23.92	29.25	34.77	45.49	59.31	30.72	10.85
Throughput	155.82	195.58	253.61	315.40	367.52	549.13	712.48	339.80	113.91
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	1.00	2.00	4.00	6.00	7.00	2.78	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	6.00	7.00	2.75	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	1.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	3.00	0.92	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	12.55	14.68	17.80	27.22	34.46	38.98	44.88	27.22	16.66
Throughput	205.25	234.27	267.58	338.51	447.04	622.21	733.97	382.16	179.46
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	8.00	2.32	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.27	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	6.00	0.95	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.83	10.79	14.97	19.08	24.22	32.10	34.60	20.68	9.26
Throughput	266.51	286.93	346.03	483.04	611.46	713.55	1177.79	515.82	265.43
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.92	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.92	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.90	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.25	12.65	15.42	19.73	26.38	27.63	42.46	20.93	10.96
Throughput	217.07	299.82	342.81	467.46	594.27	715.70	1117.61	494.03	251.46
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	7.00	1.07	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	7.00	1.07	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.70	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.20	12.73	13.64	19.01	22.99	29.41	34.79	19.84	9.34
Throughput	265.43	303.04	391.16	485.19	630.81	717.85	1124.06	521.97	239.64
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	7.00	1.00	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	7.00	0.97	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.47	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.36	10.73	12.74	18.97	23.48	27.87	36.38	19.40	10.74
Throughput	253.61	324.54	387.94	486.27	711.40	854.33	1102.57	543.84	323.46
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.92	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.88	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	7.00	0.92	2.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.61	8.83	11.06	13.37	17.84	25.42	37.10	15.62	6.77
Throughput	248.24	356.78	469.61	689.37	825.31	1006.93	1210.03	684.21	355.70
Simultaneous throughput	104.64	113.86	121.60	132.73	143.03	153.00	159.74	132.52	21.43
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.22	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.42	1.00

Link with High ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5100.24	5629.11	5828.77	6252.37	6543.63	6687.93	6823.51	6198.93	714.86
Fairness of sim. thr. (F+S)	0.54	0.88	0.96	0.99	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (F+S+H)	0.70	0.89	0.96	0.98	0.99	1.00	1.00	0.96	0.03
Fairness of sim. thr. (all)	0.68	0.77	0.79	0.83	0.86	0.88	0.89	0.82	0.07
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.80	126.68	134.79	143.38	150.97	163.04	168.77	144.16	16.18
Throughput	2184.72	2242.75	2427.58	2571.04	2653.25	2868.18	3183.04	2576.47	225.67
Simultaneous throughput	998.75	1088.21	1276.93	1469.14	1667.72	1872.32	2379.30	1494.69	390.79
Total drops	0.00	3.00	14.00	18.00	21.00	25.00	39.00	17.47	7.00
Congestion drops	0.00	3.00	13.00	17.00	20.00	24.00	37.00	16.82	7.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.27	2.00
Unnecessary rexmits	0.00	0.00	0.00	3.50	16.00	33.00	42.00	9.65	16.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	146.26	148.95	151.85	159.45	170.56	176.14	195.58	161.70	18.71
Throughput	1884.90	2080.48	2154.63	2311.52	2417.91	2470.57	2520.00	2290.51	263.28
Simultaneous throughput	69.29	811.44	975.15	1196.26	1429.60	1534.15	2039.57	1192.15	454.45
Total drops	0.00	2.00	11.00	18.50	21.00	26.00	34.00	16.65	10.00
Congestion drops	0.00	2.00	11.00	16.00	20.00	25.00	34.00	15.55	9.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.10	2.00
Spurious RTOs	0.00	0.00	1.00	2.00	4.00	6.00	9.00	2.68	3.00
Unnecessary rexmits	0.00	0.00	4.00	15.00	33.00	42.00	56.00	19.55	29.00
HTTP transfer									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	980.48	1127.18	1231.88	1334.89	1412.13	1479.82	1542.54	1312.92	180.25
Total drops	0.00	2.00	7.00	10.00	14.00	18.00	20.00	10.32	7.00
Congestion drops	0.00	2.00	7.00	10.00	14.00	18.00	19.00	10.15	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Spurious RTOs	0.00	1.00	2.00	3.00	5.00	6.00	8.00	3.38	3.00
Unnecessary rexmits	0.00	2.00	4.00	6.50	9.00	13.00	34.00	7.67	5.00
Response time	29.15	45.36	50.20	54.78	60.53	63.19	73.58	55.01	10.33
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3788.39	3790.05	3795.03	3801.66	3803.32	3803.32	3803.32	3799.01	8.29
Throughput (1st burst)	3773.47	3783.42	3793.37	3803.32	3803.32	3803.32	3803.32	3797.76	9.95
Throughput (2nd burst)	3783.42	3793.37	3800.00	3803.32	3803.32	3803.32	3803.32	3800.25	3.32
Simultaneous throughput	2871.34	2897.30	2954.67	3157.26	3318.86	3401.83	3421.82	3152.80	364.19
Total drops	0.00	0.00	0.00	1.00	5.00	8.00	9.00	2.60	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	5.00	8.00	9.00	2.60	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1121.14	1196.66	1269.82	2050.49	3088.03	4149.74	1675.95	853.83
IP packet delay variation	-114.05	-19.95	-11.01	-11.00	-10.99	-10.97	2997.13	-0.16	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.09	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.40	19.44	23.93	30.86	37.86	49.76	60.33	32.13	13.93
Throughput	209.55	250.39	325.61	411.04	527.64	651.22	1979.46	478.53	202.03
Simultaneous throughput	143.80	165.32	180.68	195.78	207.11	217.04	226.24	192.56	26.44
Total drops	0.00	0.00	1.00	3.00	4.00	5.00	7.00	2.65	3.00
Congestion drops	0.00	0.00	1.00	3.00	4.00	5.00	7.00	2.62	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	3.00	7.00	1.00	2.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.26	12.56	17.22	24.24	28.46	30.80	38.88	23.35	11.23
Throughput	237.49	272.96	322.39	379.88	515.82	722.15	1270.21	453.95	193.43
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.38	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	6.00	0.90	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.54	12.82	16.97	24.64	31.76	33.32	41.69	24.44	14.79
Throughput	221.37	270.81	289.07	373.97	541.61	708.18	1221.85	440.44	252.54
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.95	3.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.90	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	2.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.00	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.82	13.10	18.62	25.71	31.20	33.98	52.45	25.54	12.58
Throughput	176.24	268.66	295.52	358.39	450.27	685.61	1177.79	421.01	154.75
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	1.83	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	1.80	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.10	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	8.67	10.49	15.56	21.91	27.26	38.28	17.32	11.42
Throughput	240.72	320.24	414.81	592.12	821.01	1052.06	1430.33	640.24	406.21
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	11.00	0.75	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	11.00	0.75	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	3.00	7.00	1.03	2.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.62	7.48	10.89	15.01	20.44	23.32	27.66	15.48	9.55
Throughput	333.13	391.16	445.97	614.15	834.99	1111.16	1639.88	698.08	389.01
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.45	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.42	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.75	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.38	8.29	10.35	15.30	19.86	22.43	29.33	15.65	9.52
Throughput	313.79	391.16	447.04	602.33	876.90	1096.12	1249.79	678.57	429.85
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.62	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.30	7.73	11.14	16.90	21.11	27.48	36.75	16.99	9.96
Throughput	250.39	328.84	432.00	545.37	811.34	1142.33	1462.57	659.66	379.34
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.78	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.78	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.58	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.50	6.58	8.82	14.10	16.45	18.67	27.61	13.51	7.62
Throughput	334.21	424.48	557.73	653.37	1043.46	1332.54	2049.31	808.41	485.73
Simultaneous throughput	104.58	120.23	131.40	142.39	150.63	157.85	164.54	140.04	19.23
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.70	1.00

Link with High ARQ Persistency - Baseline TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5920.34	6532.43	6640.58	6726.49	6827.53	6922.15	6969.77	6713.82	186.96
Fairness of sim. thr. (F+S)	0.80	0.84	0.93	0.98	0.99	1.00	1.00	0.95	0.06
Fairness of sim. thr. (F+S+H)	0.76	0.88	0.94	0.97	0.98	0.99	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.72	0.77	0.79	0.82	0.85	0.87	0.88	0.82	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.86	121.75	128.91	139.88	143.67	145.72	148.77	136.80	14.76
Throughput	2478.09	2523.22	2560.84	2635.52	2857.43	2997.13	3209.91	2706.82	296.60
Simultaneous throughput	841.03	969.98	1212.35	1428.06	1717.59	1890.55	2815.50	1491.17	505.24
Total drops	0.00	5.00	14.00	22.50	25.00	29.00	35.00	20.03	11.00
Congestion drops	0.00	5.00	14.00	22.00	25.00	28.00	33.00	19.50	11.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	8.00	22.00	2.50	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	143.13	144.07	145.86	148.36	150.01	150.90	168.55	148.72	4.15
Throughput	2186.87	2412.54	2454.45	2484.54	2523.22	2558.69	2575.88	2480.83	68.78
Simultaneous throughput	650.93	705.72	972.17	1152.66	1389.71	1648.15	2503.16	1216.00	417.55
Total drops	1.00	3.00	17.00	22.50	27.00	32.00	36.00	21.05	10.00
Congestion drops	0.00	2.00	16.00	21.00	26.00	29.00	34.00	19.88	10.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.45	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	4.00	17.00	46.00	4.85	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.71	1078.20	1195.89	1323.76	1420.84	1472.98	1526.27	1309.15	224.95
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.33	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	7.00	1.03	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	1.00	2.00	3.00	5.00	7.00	10.00	3.77	3.00
Unnecessary rexmits	0.00	1.00	4.00	8.50	14.00	17.00	26.00	9.22	10.00
Response time	33.25	44.96	49.10	53.08	58.31	62.44	67.64	53.30	9.21
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3780.10	3791.71	3795.03	3801.66	3803.32	3803.32	3803.32	3798.84	8.29
Throughput (1st burst)	3776.79	3786.74	3796.68	3803.32	3803.32	3803.32	3803.32	3798.51	6.64
Throughput (2nd burst)	3773.47	3786.74	3796.68	3803.32	3803.32	3803.32	3803.32	3799.17	6.64
Simultaneous throughput	2872.59	2897.30	2954.78	3157.04	3320.31	3401.83	3423.31	3152.63	365.53
Total drops	0.00	0.00	0.00	1.00	5.00	7.00	14.00	2.70	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	5.00	7.00	14.00	2.70	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1174.22	1213.23	1278.94	2111.08	3122.41	4155.69	1727.14	897.85
IP packet delay variation	-20.77	-19.94	-11.01	-11.00	-10.99	-10.97	2933.09	-0.13	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.05	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.92	12.36	13.30	18.76	24.06	27.58	48.45	20.06	10.76
Throughput	261.13	414.81	501.85	675.94	884.42	998.33	1276.66	714.60	382.57
Simultaneous throughput	145.74	158.14	175.40	194.15	208.39	216.04	223.85	192.01	32.99
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.26	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	9.00	0.92	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	10.60	11.40	15.43	18.43	22.44	27.29	44.45	20.14	7.02
Throughput	207.40	313.79	398.69	500.24	565.25	624.36	869.37	503.54	166.57
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.44	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	5.00	6.00	1.05	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.02	11.74	16.05	19.99	23.94	26.62	31.58	20.09	7.89
Throughput	292.30	338.51	379.34	461.01	570.63	727.52	919.88	495.97	191.28
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.46	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	6.00	1.00	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.88	14.11	16.87	21.49	26.09	28.62	36.93	22.07	9.22
Throughput	249.31	296.60	348.18	428.78	516.90	629.73	846.81	453.01	168.72
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.59	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.13	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.67	11.49	13.53	21.93	25.88	28.57	39.66	20.82	12.35
Throughput	232.12	315.94	347.10	420.18	672.72	762.99	953.19	504.51	325.61
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.49	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.05	2.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.49	11.39	14.59	20.48	23.49	26.50	47.93	20.49	8.89
Throughput	192.36	342.81	392.24	449.73	560.96	756.54	971.46	501.18	168.72
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.31	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	7.00	0.87	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.73	12.16	14.70	19.29	22.27	24.17	40.03	19.72	7.57
Throughput	229.97	361.07	413.73	477.67	606.09	738.27	858.63	508.84	192.36
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.36	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	5.00	6.00	1.13	2.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.38	12.50	15.91	19.79	23.18	25.21	32.48	19.64	7.26
Throughput	283.70	362.15	391.16	465.31	571.70	688.84	810.27	498.68	180.54
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.54	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.46	2.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.85	10.55	11.76	15.47	19.45	23.29	26.13	16.18	7.69
Throughput	352.48	389.01	471.76	595.88	778.03	868.30	1041.31	625.16	306.27
Simultaneous throughput	106.00	115.01	127.56	141.20	151.56	157.12	162.80	139.64	23.99
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.44	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	3.00	0.85	2.00

Link with High ARQ Persistency - Baseline TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5467.37	5926.55	6244.41	6540.89	6691.37	6816.34	6990.07	6455.36	446.96
Fairness of sim. thr. (F+S)	0.69	0.83	0.94	0.97	0.99	1.00	1.00	0.95	0.05
Fairness of sim. thr. (F+S+H)	0.77	0.88	0.93	0.97	0.98	0.99	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.74	0.75	0.79	0.81	0.84	0.87	0.88	0.82	0.05
Faster flow									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.66	119.99	130.99	140.20	147.17	153.00	162.30	139.47	16.18
Throughput	2271.76	2345.91	2498.51	2629.61	2784.36	3071.28	3215.28	2664.03	285.85
Simultaneous throughput	781.92	869.48	1189.98	1451.95	1711.71	1925.74	2773.50	1499.05	521.73
Total drops	3.00	9.00	15.00	18.00	21.00	23.00	30.00	17.67	6.00
Congestion drops	3.00	9.00	14.00	17.00	20.00	22.00	30.00	17.10	6.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.72	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	11.00	19.00	38.00	6.40	11.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.70	146.36	147.94	152.22	158.83	164.63	182.43	155.04	10.89
Throughput	2020.30	2191.16	2306.15	2421.67	2472.72	2517.85	2583.40	2385.27	166.57
Simultaneous throughput	366.29	734.22	956.44	1123.76	1332.71	1531.52	1813.32	1147.76	376.27
Total drops	1.00	6.00	15.00	18.00	20.00	26.00	31.00	17.05	5.00
Congestion drops	1.00	4.00	14.00	16.50	20.00	22.00	28.00	15.98	6.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.07	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.70	3.00
Unnecessary rexmits	0.00	0.00	0.00	11.50	18.00	31.00	52.00	12.28	18.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	981.19	1111.07	1254.96	1359.64	1420.41	1475.19	1546.44	1330.82	165.44
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	6.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.98	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	1.00	2.00	3.50	5.00	6.00	9.00	3.67	3.00
Unnecessary rexmits	0.00	1.00	3.00	9.00	13.00	20.00	24.00	9.20	10.00
Response time	34.07	38.16	45.76	50.42	54.80	58.55	77.76	50.66	9.04
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3783.42	3790.05	3793.37	3801.66	3803.32	3803.32	3803.32	3798.76	9.95
Throughput (1st burst)	3776.79	3786.74	3793.37	3803.32	3803.32	3803.32	3803.32	3798.43	9.95
Throughput (2nd burst)	3773.47	3786.74	3796.68	3803.32	3803.32	3803.32	3803.32	3799.09	6.64
Simultaneous throughput	2871.34	2897.30	2954.78	3158.42	3318.86	3400.34	3424.81	3152.58	364.08
Total drops	0.00	0.00	0.00	1.00	5.00	7.00	12.00	2.75	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	5.00	7.00	12.00	2.75	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1154.51	1202.24	1272.38	2062.80	3084.20	4153.95	1690.39	860.55
IP packet delay variation	-20.04	-19.95	-11.01	-11.00	-10.99	-10.97	3005.03	-0.19	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.05	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.79	12.62	14.32	19.88	24.96	28.01	41.72	20.26	10.64
Throughput	304.12	452.42	490.03	637.79	796.30	996.18	1866.63	713.71	306.27
Simultaneous throughput	143.91	162.96	184.06	199.41	208.33	216.36	226.81	195.19	24.27
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.22	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	9.00	0.72	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.21	11.40	14.95	20.01	24.26	27.40	39.84	20.05	9.31
Throughput	231.04	328.84	361.07	461.01	600.72	800.60	1277.73	521.19	239.64
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.70	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.64	12.44	15.77	21.16	25.13	29.74	36.11	21.08	9.36
Throughput	254.69	306.27	353.55	435.22	573.85	687.76	1206.81	484.98	220.30
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	6.00	1.07	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.85	13.33	16.88	22.96	26.74	28.73	33.53	22.29	9.86
Throughput	275.10	314.87	329.91	401.37	542.69	667.34	1174.57	456.29	212.78
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	2.00	0.60	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	2.00	2.00	6.00	1.20	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.64	9.96	12.64	21.78	24.00	30.12	48.79	20.33	11.36
Throughput	189.13	305.19	376.12	422.87	632.96	891.94	1067.10	537.96	256.84
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.52	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.25	2.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.57	10.29	13.68	18.34	21.78	25.03	49.66	18.60	8.10
Throughput	185.91	357.85	420.18	502.39	661.97	862.93	1217.55	565.84	241.79
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	3.00	6.00	0.97	2.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.98	11.66	13.95	16.90	20.64	24.38	26.45	17.50	6.69
Throughput	348.18	376.12	436.30	545.37	609.31	769.43	1154.15	575.06	173.01
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	5.00	8.00	1.03	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.51	10.66	13.47	17.88	22.48	24.75	28.21	17.89	9.01
Throughput	326.69	370.75	405.13	515.82	659.82	824.24	1226.15	578.47	254.69
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	4.00	8.00	1.22	2.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.78	8.77	10.74	13.00	17.33	23.48	28.13	14.68	6.59
Throughput	327.76	391.16	525.49	708.72	836.06	1045.61	1360.48	717.82	310.57
Simultaneous throughput	104.66	118.51	133.86	145.03	151.51	157.35	164.95	141.95	17.65
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	6.00	1.03	2.00

Link with High ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6398.82	6573.25	6639.01	6771.77	6857.57	6934.54	6982.67	6759.24	218.56
Fairness of sim. thr. (F+S)	0.83	0.88	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.83	0.89	0.94	0.98	0.99	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.82	0.86	0.88	0.91	0.93	0.94	0.95	0.90	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.04	121.42	129.59	134.79	139.94	142.49	144.70	134.31	10.36
Throughput	2547.94	2578.03	2633.91	2735.46	2831.64	2950.93	3204.54	2753.41	197.73
Simultaneous throughput	1229.67	1399.33	1508.74	1793.16	1893.99	2245.17	2817.59	1793.57	385.26
Total drops	2.00	4.00	5.00	6.00	9.00	11.00	24.00	7.22	4.00
Congestion drops	2.00	3.00	4.00	6.00	8.00	10.00	24.00	6.58	4.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.48	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.63	140.53	142.28	143.63	146.48	147.03	152.33	144.04	4.20
Throughput	2420.06	2507.10	2516.78	2566.75	2584.48	2622.09	2658.63	2560.16	67.70
Simultaneous throughput	712.02	891.23	1250.18	1465.05	1649.98	1786.88	2052.36	1437.71	399.80
Total drops	2.00	3.00	5.00	7.00	9.00	11.00	19.00	7.30	4.00
Congestion drops	2.00	3.00	4.00	6.00	8.00	10.00	19.00	6.35	4.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	3.00	0.95	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	16.00	2.05	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	982.83	1072.66	1195.64	1342.45	1419.50	1478.05	1610.65	1313.97	223.86
Total drops	0.00	4.00	10.00	20.50	26.00	31.00	47.00	18.95	16.00
Congestion drops	0.00	4.00	10.00	20.50	25.00	31.00	46.00	18.83	15.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.12	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.08	2.00
Unnecessary rexmits	0.00	0.00	1.00	4.00	7.00	12.00	20.00	5.20	6.00
Response time	31.74	37.34	44.00	49.97	59.24	61.80	81.79	51.81	15.24
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2881.50	3015.79	3116.93	3298.47	3363.96	3456.81	3624.26	3267.35	247.03
Throughput (1st burst)	2530.02	2825.13	2967.71	3198.16	3349.04	3521.47	3766.84	3182.17	381.33
Throughput (2nd burst)	2858.29	3043.98	3146.77	3373.91	3478.36	3674.00	3803.32	3352.52	331.59
Simultaneous throughput	2233.36	2419.05	2562.19	2675.01	2847.02	3006.16	3103.40	2711.52	284.83
Total drops	108.00	207.00	250.00	304.50	396.00	455.00	556.00	323.27	146.00
Congestion drops	100.00	206.00	243.00	304.50	392.00	450.00	551.00	320.77	149.00

Error drops	0.00	0.00	0.00	1.00	5.00	7.00	10.00	2.50	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1455.94	1783.98	2303.27	3121.49	4174.16	5526.41	2530.40	1337.51
IP packet delay variation	-20.06	-19.94	-11.01	-11.00	-10.99	-10.93	3068.18	1.96	0.02
Consecutive packets dropped	1.00	1.00	2.00	3.00	7.00	27.00	137.00	9.42	5.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.94	14.57	19.97	24.54	29.35	38.66	52.87	25.88	9.38
Throughput	239.64	327.76	418.03	516.90	616.84	860.78	1416.36	560.34	198.81
Simultaneous throughput	144.15	157.32	175.36	196.89	208.19	216.78	236.23	192.72	32.83
Total drops	0.00	0.00	1.00	3.00	5.00	6.00	10.00	3.15	4.00
Congestion drops	0.00	0.00	1.00	3.00	5.00	6.00	10.00	3.12	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.60	1.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.65	10.28	13.90	17.01	22.62	29.06	40.30	18.72	8.71
Throughput	228.90	306.27	393.31	541.61	627.58	865.07	1203.58	567.51	234.27
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	1.00	4.00	5.00	8.00	2.12	4.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	5.00	8.00	2.12	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.57	1.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.08	10.19	14.88	17.38	24.06	31.95	39.51	19.90	9.18
Throughput	233.19	286.93	360.00	530.33	594.27	854.33	1140.18	545.51	234.27
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	3.00	5.00	6.00	10.00	3.02	5.00
Congestion drops	0.00	0.00	0.00	3.00	4.00	6.00	10.00	2.95	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.47	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.51	11.31	15.17	20.55	24.28	30.81	34.59	20.49	9.11
Throughput	266.51	295.52	375.04	448.66	570.63	776.96	1083.22	513.83	195.58
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	1.00	3.00	5.00	6.00	9.00	3.25	4.00
Congestion drops	0.00	0.00	1.00	3.00	5.00	6.00	9.00	3.25	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	4.00	0.70	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.87	11.21	12.73	16.22	22.36	27.18	41.05	18.27	9.63
Throughput	224.60	318.09	400.84	568.48	713.55	811.34	1340.06	574.07	312.72
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.57	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.57	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.66	10.51	12.83	15.06	17.67	26.23	53.02	17.19	4.84
Throughput	174.09	335.28	504.00	612.00	696.36	838.21	1203.58	617.48	192.36
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	0.00	3.00	5.00	6.00	1.38	3.00
Congestion drops	0.00	0.00	0.00	0.00	3.00	5.00	6.00	1.38	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.85	1.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.93	11.13	12.95	16.90	24.52	27.63	31.60	18.57	11.57
Throughput	291.22	330.99	367.52	545.91	706.03	823.16	1032.72	560.85	338.51
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	8.00	1.98	3.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	4.00	8.00	1.95	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.62	1.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.96	8.87	10.78	13.79	21.77	25.95	36.80	16.22	10.99
Throughput	250.39	337.43	421.25	668.42	814.57	1015.52	1545.31	676.29	393.31
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.48	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.48	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.53	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.01	7.20	8.71	11.79	14.31	18.79	33.52	12.90	5.60

Throughput	275.10	486.81	631.88	782.33	1043.46	1182.09	1534.57	828.35	411.58
Simultaneous throughput	104.84	114.42	127.53	143.19	151.41	157.66	171.80	140.16	23.88
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	6.00	1.00	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	6.00	1.00	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.52	0.00

Link with High ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6290.69	6469.67	6620.02	6710.04	6774.93	6846.67	7069.34	6694.08	154.92
Fairness of sim. thr. (F+S)	0.88	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.91	0.93	0.96	0.98	0.99	1.00	1.00	0.98	0.04
Fairness of sim. thr. (all)	0.83	0.86	0.89	0.92	0.93	0.95	0.98	0.91	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.30	128.85	134.12	138.58	141.73	146.18	149.50	137.90	7.61
Throughput	2466.27	2508.18	2599.52	2660.24	2726.33	2853.13	2989.61	2679.04	126.81
Simultaneous throughput	922.37	1275.33	1410.80	1578.44	1779.38	1949.00	2134.86	1603.22	368.59
Total drops	0.00	0.00	2.00	5.00	6.00	8.00	20.00	4.60	4.00
Congestion drops	0.00	0.00	2.00	4.00	5.00	7.00	20.00	3.97	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.60	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.82	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	137.89	140.16	142.46	144.52	147.17	149.53	154.76	144.89	4.71
Throughput	2382.45	2461.97	2501.73	2550.63	2583.40	2627.46	2673.67	2545.90	81.67
Simultaneous throughput	721.70	996.60	1205.92	1467.30	1600.31	1724.79	2191.69	1436.33	394.39
Total drops	0.00	2.00	2.00	4.00	6.00	7.00	31.00	5.15	4.00
Congestion drops	0.00	0.00	2.00	3.50	4.00	6.00	31.00	4.15	2.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	1.00	1.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.90	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.53	2.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	987.01	1128.76	1267.85	1426.54	1510.00	1606.95	1650.03	1395.21	242.15
Total drops	0.00	2.00	5.00	11.00	20.00	27.00	39.00	13.35	15.00
Congestion drops	0.00	2.00	5.00	11.00	19.00	26.00	39.00	13.22	14.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.43	2.00
Unnecessary rexmits	0.00	0.00	1.00	4.00	8.00	10.00	14.00	4.83	7.00
Response time	30.54	34.82	38.74	41.89	45.12	48.24	55.23	41.88	6.39
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2694.15	2845.03	3077.14	3192.36	3302.62	3395.46	3528.10	3181.22	225.48
Throughput (1st burst)	2334.38	2476.96	2735.60	2977.66	3093.72	3325.83	3780.10	2962.49	358.12
Throughput (2nd burst)	2636.13	3010.82	3110.30	3514.83	3640.84	3717.10	3756.89	3399.94	530.54
Simultaneous throughput	2044.83	2391.16	2467.80	2646.18	2803.21	2916.38	3017.07	2639.79	335.41
Total drops	166.00	241.00	291.00	368.50	423.00	572.00	669.00	375.22	132.00
Congestion drops	166.00	241.00	291.00	366.50	417.00	572.00	666.00	372.73	126.00
Error drops	0.00	0.00	0.00	1.50	4.00	7.00	11.00	2.50	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	939.20	1302.74	1817.33	2581.70	3589.77	5398.14	2044.77	1278.95
IP packet delay variation	-20.05	-19.95	-11.01	-11.00	-10.99	0.00	3068.45	2.14	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	4.00	301.00	4.85	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.16	14.00	15.17	19.41	24.33	28.08	32.17	20.05	9.15
Throughput	394.39	447.04	520.12	652.84	809.19	899.46	1552.84	687.60	289.07
Simultaneous throughput	144.76	165.55	185.95	209.23	221.47	235.69	242.00	204.63	35.51
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.50	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.52	10.30	13.07	15.19	23.49	28.79	39.59	18.29	10.41
Throughput	233.19	320.24	369.67	606.63	697.43	883.34	1225.07	586.32	327.76
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	9.00	1.45	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.58	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.95	10.60	12.94	16.23	22.73	28.49	57.66	18.92	9.79
Throughput	160.12	319.16	402.99	567.40	709.25	859.70	1159.52	572.48	306.27
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	1.00	4.00	6.00	9.00	2.35	4.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	6.00	9.00	2.35	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.42	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.11	10.77	13.27	16.23	21.76	29.30	57.68	20.08	8.48
Throughput	160.12	278.33	401.91	567.94	679.16	810.27	1136.96	562.89	277.25
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	1.50	5.00	8.00	10.00	2.80	5.00
Congestion drops	0.00	0.00	0.00	1.50	5.00	8.00	10.00	2.78	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.75	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.92	7.61	10.51	14.49	19.31	29.17	33.96	16.18	8.80
Throughput	271.88	296.60	465.31	636.18	810.27	1185.31	1557.13	694.40	344.96
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.05	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.50	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.21	8.74	10.25	13.10	16.97	21.66	29.36	14.44	6.73
Throughput	313.79	378.27	528.72	703.88	860.78	1043.46	1278.81	719.70	332.06
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.27	2.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.25	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.85	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.66	7.39	9.93	13.16	15.44	21.01	28.41	14.06	5.51
Throughput	324.54	365.37	535.16	700.12	861.85	1174.57	1628.06	765.00	326.69
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	1.05	1.00
Congestion drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	1.02	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.50	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.09	7.52	9.71	13.62	17.09	21.85	39.24	14.80	7.38
Throughput	235.34	395.46	525.49	677.01	853.25	1158.45	1513.07	736.15	327.76
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	9.00	1.27	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	9.00	1.27	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.13	6.64	8.04	10.19	11.59	15.14	21.81	10.67	3.55
Throughput	422.33	578.15	759.76	904.84	1096.12	1317.49	1503.40	945.73	336.36
Simultaneous throughput	105.28	120.40	135.24	152.16	161.07	171.41	176.00	148.82	25.83
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.55	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.55	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.48	0.00

Link with High ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6362.26	6598.50	6672.83	6768.95	6853.25	6920.42	7103.71	6766.61	180.42
Fairness of sim. thr. (F+S)	0.88	0.93	0.96	0.99	1.00	1.00	1.00	0.98	0.04
Fairness of sim. thr. (F+S+H)	0.92	0.93	0.96	0.98	0.99	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.78	0.80	0.82	0.85	0.86	0.88	0.89	0.84	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.32	128.68	130.69	138.94	143.46	144.99	151.21	138.12	12.77
Throughput	2438.33	2522.15	2559.76	2653.25	2818.75	2862.81	2989.61	2675.96	258.99
Simultaneous throughput	957.95	1138.70	1399.73	1574.03	1713.96	1898.77	2262.39	1575.80	314.22
Total drops	1.00	3.00	4.00	7.00	9.00	18.00	25.00	8.37	5.00
Congestion drops	0.00	2.00	4.00	6.00	9.00	18.00	25.00	7.93	5.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	11.00	0.45	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	140.49	143.43	145.41	147.43	149.41	150.64	156.87	147.50	4.00
Throughput	2350.21	2439.40	2465.19	2500.12	2532.90	2556.54	2624.24	2500.39	67.70
Simultaneous throughput	738.38	959.34	1185.70	1327.02	1549.62	1656.88	1897.83	1343.90	363.91
Total drops	2.00	4.00	6.00	8.00	9.00	20.00	31.00	9.30	3.00
Congestion drops	2.00	3.00	4.00	6.50	9.00	19.00	29.00	8.17	5.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	1.12	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00

Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	18.00	1.27	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	982.57	1073.92	1188.59	1281.45	1380.39	1456.66	1490.32	1279.97	191.80
Total drops	1.00	6.00	11.00	17.00	22.00	27.00	44.00	17.67	11.00
Congestion drops	1.00	6.00	11.00	17.00	22.00	27.00	44.00	17.38	11.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	1.00	2.00	3.00	4.00	5.00	6.00	8.00	4.15	2.00
Unnecessary rexmits	2.00	4.00	6.00	9.50	12.00	15.00	19.00	9.57	6.00
Response time	41.53	47.58	50.45	56.64	63.84	68.28	78.62	57.79	13.39
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3776.79	3791.71	3795.03	3801.66	3803.32	3803.32	3803.32	3798.59	8.29
Throughput (1st burst)	3773.47	3786.74	3793.37	3803.32	3803.32	3803.32	3803.32	3797.43	9.95
Throughput (2nd burst)	3776.79	3786.74	3800.00	3803.32	3803.32	3803.32	3803.32	3799.75	3.32
Simultaneous throughput	2871.34	2897.30	2954.67	3157.73	3310.16	3404.80	3421.82	3152.44	355.50
Total drops	0.00	0.00	0.00	1.00	5.00	7.00	16.00	2.85	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	5.00	7.00	16.00	2.85	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1172.62	1212.15	1278.52	2112.97	3121.63	4155.69	1727.05	900.82
IP packet delay variation	-67.00	-19.94	-11.01	-11.00	-10.99	-10.97	3069.01	-0.14	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.05	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.40	14.16	21.09	27.12	34.09	54.39	78.63	30.22	13.00
Throughput	161.19	232.12	369.67	467.46	591.04	868.30	1218.63	514.48	221.37
Simultaneous throughput	144.11	157.51	174.33	187.95	202.46	213.64	218.58	187.73	28.13
Total drops	0.00	0.00	0.00	2.00	5.00	6.00	14.00	2.95	5.00
Congestion drops	0.00	0.00	0.00	2.00	5.00	6.00	14.00	2.95	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.60	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.89	11.13	15.92	23.18	31.07	37.91	67.84	24.78	15.15
Throughput	135.40	237.49	293.37	397.61	553.43	709.25	932.78	452.07	260.06
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	2.00	5.00	6.00	8.00	2.45	5.00
Congestion drops	0.00	0.00	0.00	1.50	5.00	6.00	8.00	2.42	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	4.00	1.33	2.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.31	11.55	16.99	22.86	28.74	33.64	59.41	23.78	11.75
Throughput	154.75	249.31	309.49	403.52	536.24	694.21	894.09	453.95	226.75
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	2.00	4.00	6.00	12.00	2.77	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	6.00	12.00	2.68	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.47	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.45	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.59	13.57	14.79	22.11	29.29	34.54	42.52	22.75	14.50
Throughput	217.07	263.28	313.79	416.96	584.60	667.34	870.45	459.62	270.81
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	3.00	5.00	6.00	11.00	3.10	5.00
Congestion drops	0.00	0.00	0.00	3.00	5.00	6.00	11.00	3.02	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.35	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.79	11.32	14.75	19.11	24.57	30.67	41.47	20.55	9.81
Throughput	222.45	297.67	353.55	481.97	617.91	811.34	1183.16	511.79	264.36
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.22	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.18	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.15	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.93	10.58	15.45	19.81	24.45	29.94	36.19	20.32	9.00
Throughput	254.69	307.34	364.30	465.31	582.45	775.88	1161.67	514.96	218.15
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.75	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.72	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.57	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	4.00	1.17	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.75	10.83	14.73	18.62	25.89	29.04	43.33	19.98	11.16
Throughput	212.78	314.87	343.88	495.40	611.46	692.06	1364.78	535.49	267.58
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46

Total drops	0.00	0.00	0.00	0.50	2.00	4.00	8.00	1.45	2.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	4.00	8.00	1.42	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.95	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.12	8.75	13.74	18.07	20.93	23.73	39.28	17.68	7.19
Throughput	234.27	358.93	440.60	509.91	616.84	988.66	1505.55	603.99	176.24
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	9.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	9.00	1.30	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	1.03	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.49	6.92	8.42	13.70	17.40	21.81	33.14	14.03	8.98
Throughput	278.33	411.58	519.04	672.72	1089.67	1227.22	1679.64	789.99	570.63
Simultaneous throughput	104.81	114.55	126.78	136.69	147.24	155.38	158.97	136.53	20.46
Total drops	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.67	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.67	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.55	0.00

Link with High ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6151.25	6428.81	6557.25	6666.10	6787.38	6821.17	6859.91	6647.04	230.14
Fairness of sim. thr. (F+S)	0.91	0.93	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.84	0.93	0.94	0.97	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.70	0.78	0.82	0.84	0.86	0.88	0.89	0.84	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.66	131.55	137.92	141.85	146.85	149.52	153.76	141.90	8.92
Throughput	2397.49	2458.75	2506.03	2598.99	2667.22	2731.70	2957.37	2603.87	161.19
Simultaneous throughput	796.28	979.10	1213.95	1449.10	1732.72	1922.69	2486.82	1489.22	518.77
Total drops	0.00	1.00	4.00	6.00	7.00	11.00	25.00	7.00	3.00
Congestion drops	0.00	1.00	2.00	5.00	6.00	11.00	25.00	6.30	4.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.70	1.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.70	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	1.00	4.00	10.00	1.53	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	145.48	146.26	146.89	149.68	151.58	154.82	162.09	150.17	4.69
Throughput	2273.91	2374.93	2426.51	2462.51	2508.18	2520.00	2533.97	2456.14	81.67
Simultaneous throughput	589.62	977.32	1161.73	1415.37	1550.75	1761.29	2150.01	1394.42	389.03
Total drops	0.00	2.00	4.00	6.00	8.00	13.00	25.00	7.22	4.00
Congestion drops	0.00	0.00	2.00	5.00	7.00	12.00	25.00	6.20	5.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.03	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	3.00	0.95	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	5.00	14.00	1.83	2.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	678.22	985.74	1128.87	1311.28	1420.52	1498.62	1608.04	1278.16	291.66
Total drops	1.00	3.00	7.00	13.00	20.00	27.00	42.00	14.73	13.00
Congestion drops	1.00	3.00	6.00	13.00	19.00	26.00	40.00	14.37	13.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.35	0.00
Spurious RTOs	0.00	1.00	3.00	4.00	5.00	6.00	8.00	3.90	2.00
Unnecessary rexmits	0.00	2.00	4.00	7.00	11.00	15.00	22.00	8.05	7.00
Response time	37.64	40.54	46.76	54.65	59.42	72.60	124.98	56.76	12.66
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3780.10	3791.71	3795.03	3800.00	3803.32	3803.32	3803.32	3798.43	8.29
Throughput (1st burst)	3776.79	3783.42	3790.05	3803.32	3803.32	3803.32	3803.32	3797.35	13.27
Throughput (2nd burst)	3776.79	3786.74	3796.68	3803.32	3803.32	3803.32	3803.32	3799.51	6.64
Simultaneous throughput	2870.08	2897.30	2954.67	3157.73	3317.41	3407.78	3420.33	3152.32	362.74
Total drops	0.00	0.00	0.00	2.00	5.00	7.00	14.00	2.95	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	2.00	5.00	7.00	14.00	2.95	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1149.18	1200.52	1271.96	2056.82	3100.19	4153.07	1694.06	856.30
IP packet delay variation	-20.05	-19.95	-11.01	-11.00	-10.99	-10.97	3005.04	-0.11	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.05	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.14	11.21	19.68	25.58	31.43	40.47	124.99	29.92	11.75
Throughput	101.01	307.34	387.94	494.87	624.36	926.33	1387.34	565.12	236.42
Simultaneous throughput	87.66	144.58	165.57	192.32	208.34	219.80	235.85	187.17	42.78
Total drops	0.00	0.00	0.00	1.50	5.00	8.00	14.00	2.85	5.00
Congestion drops	0.00	0.00	0.00	1.50	5.00	8.00	14.00	2.77	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.48	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.95	1.00
HTTP inline 1									

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.37	11.58	14.60	18.61	30.26	38.57	78.78	24.43	15.66
Throughput	117.13	206.33	278.33	495.40	589.97	773.73	1100.42	490.41	311.64
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	1.00	4.00	4.00	11.00	2.02	4.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	4.00	11.00	1.97	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.18	1.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.66	12.19	14.48	21.71	30.76	35.72	54.34	23.40	16.28
Throughput	169.79	255.76	293.37	424.48	625.43	749.01	1064.96	474.29	332.06
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	2.00	5.00	6.00	9.00	2.77	5.00
Congestion drops	0.00	0.00	0.00	2.00	5.00	6.00	9.00	2.72	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.07	1.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.94	12.19	14.90	19.78	27.29	41.00	67.95	23.43	12.39
Throughput	135.40	220.30	329.91	465.85	577.07	724.30	1031.64	480.12	247.16
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	1.00	4.00	9.00	11.00	2.72	4.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	9.00	11.00	2.72	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.95	1.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.46	9.41	12.12	14.10	19.98	25.09	35.13	16.60	7.86
Throughput	262.21	348.18	452.42	653.91	751.16	956.42	1426.03	645.64	298.75
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.48	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.45	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.92	7.61	11.34	15.06	20.26	24.99	34.74	16.45	8.92
Throughput	265.43	360.00	433.07	612.00	756.54	1018.75	1872.00	674.76	323.46
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.82	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.83	1.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.26	9.90	12.64	16.53	21.78	27.32	53.03	18.48	9.14
Throughput	174.09	328.84	389.01	557.73	717.85	813.49	1750.57	596.39	328.84
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.23	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	1.00	1.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.37	7.12	9.71	15.52	18.26	23.92	51.65	15.81	8.55
Throughput	178.39	376.12	481.43	593.73	852.18	1293.85	2109.49	737.09	370.75
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	6.00	1.08	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	6.00	1.05	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	1.10	1.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.56	6.96	8.33	12.45	15.75	20.88	31.73	13.37	7.43
Throughput	290.15	412.66	579.22	740.42	1100.42	1268.06	1656.00	833.32	521.19
Simultaneous throughput	73.82	105.15	120.41	139.87	151.52	159.85	171.52	136.37	31.11
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.70	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.62	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.45	1.00

Link with High ARQ Persistency - Enhanced TCP and DiffServ for HTTP and Streaming

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6504.10	6576.72	6631.73	6729.17	6866.53	6978.28	7143.42	6770.65	234.80
Fairness of sim. thr. (F+S)	0.83	0.94	0.96	0.98	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.80	0.94	0.96	0.97	0.99	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.74	0.77	0.81	0.84	0.86	0.87	0.89	0.83	0.05

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.96	124.78	129.34	137.30	141.37	143.85	149.35	135.67	12.03
Throughput	2468.42	2559.76	2604.90	2684.42	2845.61	2934.81	3206.69	2727.16	240.72
Simultaneous throughput	827.13	943.89	1154.53	1500.70	1680.90	1936.64	2672.64	1494.90	526.37
Total drops	0.00	1.00	2.00	4.00	6.00	16.00	22.00	5.45	4.00
Congestion drops	0.00	0.00	1.00	3.00	5.00	15.00	21.00	4.78	4.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	2.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.55	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.68	142.78	144.58	148.28	149.91	151.12	153.45	147.43	5.33
Throughput	2402.87	2430.81	2451.22	2486.15	2537.19	2578.03	2639.28	2501.79	85.97
Simultaneous throughput	896.34	976.79	1031.85	1201.99	1415.24	1528.64	2016.11	1251.82	383.39
Total drops	1.00	2.00	4.00	5.00	7.00	14.00	34.00	6.67	3.00
Congestion drops	1.00	1.00	2.00	4.00	5.00	12.00	34.00	5.45	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.23	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	10.00	0.85	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	982.59	1096.16	1241.44	1355.61	1433.10	1493.08	1540.74	1329.27	191.66
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	11.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	11.00	1.12	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Spurious RTOs	1.00	1.00	3.00	5.00	6.00	6.00	7.00	4.52	3.00
Unnecessary rexmits	1.00	2.00	4.00	10.00	12.00	15.00	19.00	9.10	8.00
Response time	38.43	41.95	48.34	51.27	54.26	56.73	65.08	51.14	5.92
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3788.39	3791.71	3796.68	3800.00	3803.32	3803.32	3803.32	3799.34	6.64
Throughput (1st burst)	3780.10	3790.05	3793.37	3800.00	3803.32	3803.32	3803.32	3798.26	9.95
Throughput (2nd burst)	3780.10	3793.37	3796.68	3803.32	3803.32	3803.32	3803.32	3800.42	6.64
Simultaneous throughput	2870.08	2897.30	2956.07	3159.80	3317.41	3406.29	3421.82	3153.05	361.34
Total drops	0.00	0.00	0.00	2.00	4.00	4.00	9.00	2.40	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	2.00	4.00	4.00	9.00	2.40	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.23	1174.39	1213.45	1279.06	2104.42	3131.54	4160.17	1727.51	890.97
IP packet delay variation	-127.59	-19.94	-11.01	-11.00	-10.99	-10.97	3005.05	-0.25	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.10	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.57	13.94	15.61	21.27	24.94	31.51	44.45	22.35	9.33
Throughput	284.78	401.91	459.94	595.88	794.15	904.84	1095.04	632.10	334.21
Simultaneous throughput	144.11	160.77	182.08	198.82	210.19	218.99	225.98	194.96	28.11
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.22	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.43	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.23	12.30	14.10	18.02	21.85	26.27	27.86	18.39	7.75
Throughput	330.99	338.51	421.25	511.52	640.48	731.82	1119.76	542.12	219.22
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	6.00	0.88	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.87	13.14	14.92	18.75	22.90	26.62	27.85	19.69	7.98
Throughput	330.99	342.81	373.97	491.64	569.55	673.79	1039.16	503.68	195.58
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.55	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.03	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.30	13.71	16.31	20.95	24.57	27.60	28.52	20.73	8.26
Throughput	323.46	332.06	371.82	440.06	562.03	646.93	990.81	477.59	190.21
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.72	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	4.00	4.00	8.00	1.98	4.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.83	12.46	15.22	20.99	22.81	24.97	25.80	19.45	7.59
Throughput	356.78	368.60	400.84	438.99	605.01	713.55	937.07	508.16	204.18
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	4.00	1.00	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.16	12.35	15.28	19.26	21.52	22.92	28.26	18.77	6.24
Throughput	325.61	389.01	424.48	478.75	574.93	723.22	826.39	516.14	150.45
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.45	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.97	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.69	13.21	15.41	18.83	21.52	23.17	28.62	18.77	6.11
Throughput	322.39	397.61	424.48	488.96	592.12	643.70	788.78	512.60	167.64
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	1.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.50	1.00	1.00	4.00	0.72	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	11.27	12.41	16.25	18.88	21.01	22.01	23.77	18.41	4.76
Throughput	387.94	415.88	438.45	488.42	557.73	697.43	817.79	520.28	119.28
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.62	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	4.00	1.37	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.58	9.63	10.26	12.62	15.20	16.56	21.96	13.12	4.93
Throughput	420.18	549.13	596.42	730.21	831.76	947.82	1215.40	739.75	235.34
Simultaneous throughput	104.81	116.92	132.42	144.60	152.86	159.26	164.35	141.79	20.44
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.72	1.00

Link with High ARQ Persistency - Enhanced TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6451.16	6491.92	6589.95	6700.14	6785.69	6862.60	7032.88	6693.21	195.74
Fairness of sim. thr. (F+S)	0.90	0.96	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.89	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.75	0.79	0.81	0.84	0.86	0.88	0.88	0.84	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.58	128.61	134.10	138.52	145.90	148.62	149.45	139.20	11.80
Throughput	2466.27	2478.09	2517.85	2661.31	2738.15	2827.34	3006.81	2656.24	220.30
Simultaneous throughput	882.21	1162.95	1278.44	1453.48	1572.52	1788.48	2200.18	1479.32	294.08
Total drops	0.00	0.00	1.00	3.00	4.00	6.00	22.00	3.75	3.00
Congestion drops	0.00	0.00	1.00	2.50	3.00	5.00	22.00	3.00	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	141.87	145.38	146.79	148.91	151.18	153.58	154.69	149.12	4.40
Throughput	2383.52	2399.64	2437.25	2475.40	2507.10	2535.04	2598.45	2473.17	69.85
Simultaneous throughput	928.97	1002.37	1039.38	1243.59	1406.49	1589.02	2222.25	1281.94	367.11
Total drops	1.00	2.00	2.00	4.00	5.00	7.00	22.00	5.15	3.00
Congestion drops	0.00	1.00	1.00	2.00	4.00	6.00	22.00	4.00	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.15	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.60	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.80	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	980.40	1086.57	1236.82	1363.71	1429.85	1488.67	1528.50	1324.85	193.03
Total drops	0.00	0.00	0.00	0.50	1.00	6.00	18.00	1.82	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	5.00	18.00	1.55	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Spurious RTOs	0.00	1.00	3.00	4.50	6.00	7.00	8.00	4.20	3.00
Unnecessary rexmits	0.00	1.00	3.00	9.00	13.00	17.00	29.00	9.08	10.00
Response time	35.57	45.13	47.77	52.36	54.99	58.03	60.42	51.62	7.23
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3788.39	3790.05	3796.68	3800.83	3803.32	3803.32	3803.32	3799.17	6.64
Throughput (1st burst)	3776.79	3786.74	3793.37	3803.32	3803.32	3803.32	3803.32	3798.18	9.95
Throughput (2nd burst)	3783.42	3790.05	3796.68	3803.32	3803.32	3803.32	3803.32	3800.17	6.64
Simultaneous throughput	2872.59	2897.30	2957.36	3157.04	3317.41	3406.41	3420.33	3152.97	360.05
Total drops	0.00	0.00	0.00	1.50	4.00	8.00	9.00	2.50	4.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.50	4.00	8.00	9.00	2.50	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	1168.56	1209.56	1277.70	2097.42	3108.35	4175.58	1719.02	887.86
IP packet delay variation	-58.06	-19.94	-11.01	-11.00	-10.99	-10.97	3005.01	-0.24	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.10	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.58	14.98	18.86	23.51	26.63	37.71	51.03	24.34	7.78
Throughput	248.24	329.91	467.46	538.93	645.85	837.13	1198.21	580.54	178.39
Simultaneous throughput	143.79	159.36	181.40	200.01	209.71	218.34	224.18	194.31	28.31
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.50	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.23	11.15	13.42	17.68	21.87	26.85	40.33	18.75	8.45
Throughput	228.90	339.58	409.43	521.19	684.54	825.31	1119.76	548.79	275.10
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.72	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.16	12.33	14.26	18.90	23.07	26.12	37.83	19.42	8.81
Throughput	243.94	349.25	395.46	487.34	643.70	677.01	1005.85	515.55	248.24
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	1.25	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.02	12.87	16.63	19.94	24.38	26.00	29.90	20.10	7.75
Throughput	308.42	344.96	376.12	462.63	537.31	688.84	919.88	491.21	161.19
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.75	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	4.00	4.00	5.00	2.00	4.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	12.09	15.93	20.62	23.19	24.87	45.10	20.15	7.27
Throughput	204.18	355.70	389.01	447.04	556.66	756.54	1314.27	510.80	167.64
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.75	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.87	11.81	15.25	18.42	21.34	26.33	42.08	19.32	6.10
Throughput	219.22	348.18	421.25	500.24	573.85	775.88	1171.34	528.74	152.60
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.70	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.79	12.37	15.34	19.31	21.76	23.63	25.88	18.72	6.42
Throughput	355.70	389.01	422.33	477.13	599.64	738.27	941.37	520.55	177.31
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	2.00	0.60	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	8.00	1.22	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.57	12.13	15.14	18.75	21.44	23.22	29.20	18.38	6.30
Throughput	315.94	390.09	415.88	491.10	608.24	733.97	963.94	532.91	192.36
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.60	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.23	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	7.14	8.64	10.33	12.19	14.47	18.64	25.51	13.16	4.14
Throughput	361.07	476.06	615.76	756.00	864.00	997.25	1290.63	758.15	248.24
Simultaneous throughput	104.58	115.90	131.93	145.46	152.52	158.79	163.04	141.32	20.59
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	8.00	0.70	0.00

Link with Medium ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5944.43	5982.48	6252.89	6547.05	6847.78	6972.66	7060.54	6543.49	594.89
Fairness of sim. thr. (F+S)	0.68	0.84	0.95	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (F+S+H)	0.73	0.86	0.92	0.96	0.99	1.00	1.00	0.94	0.07
Fairness of sim. thr. (all)	0.79	0.84	0.87	0.89	0.91	0.92	0.94	0.89	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	100.14	123.20	129.74	135.35	141.35	143.29	158.19	134.60	11.61
Throughput	2330.87	2554.39	2605.97	2723.64	2839.16	2986.39	3681.67	2755.37	233.19
Simultaneous throughput	1063.33	1338.08	1511.90	1920.19	2151.65	2433.45	2895.00	1903.58	639.75
Total drops	6.00	13.00	17.00	24.00	31.00	37.00	45.00	25.12	14.00
Congestion drops	0.00	1.00	7.00	16.50	19.00	27.00	36.00	14.85	12.00
Error drops	4.00	5.00	7.00	11.00	13.00	14.00	19.00	10.28	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	1.00	9.00	17.00	2.40	1.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.51	140.13	143.55	149.77	155.02	162.84	166.58	150.43	11.47
Throughput	2212.66	2259.94	2369.55	2461.43	2565.13	2627.46	2661.85	2457.75	195.58
Simultaneous throughput	543.96	866.88	1207.49	1459.82	1614.63	1815.74	2236.00	1439.17	407.13
Total drops	10.00	14.00	20.00	24.00	33.00	36.00	44.00	25.82	13.00
Congestion drops	1.00	2.00	4.00	13.00	20.00	24.00	28.00	13.03	16.00
Error drops	6.00	8.00	10.00	12.50	15.00	18.00	22.00	12.80	5.00
Spurious RTOs	0.00	0.00	0.00	2.00	2.00	3.00	5.00	1.47	2.00
Unnecessary rexmits	0.00	0.00	0.00	6.50	13.00	16.00	21.00	7.12	13.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	883.82	1029.53	1168.83	1354.02	1428.92	1507.68	1657.67	1316.13	260.09
Total drops	5.00	8.00	11.00	15.00	20.00	24.00	33.00	15.58	9.00
Congestion drops	0.00	3.00	6.00	11.00	17.00	20.00	29.00	12.07	11.00
Error drops	0.00	1.00	2.00	3.00	5.00	7.00	10.00	3.50	3.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.42	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	3.00	5.00	7.00	2.02	3.00
Response time	34.54	38.07	42.60	48.49	54.51	63.50	91.84	50.72	11.90
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3135.17	3232.98	3378.88	3437.74	3519.81	3624.26	3715.45	3446.98	140.93
Throughput (1st burst)	2994.24	3116.93	3209.77	3358.99	3438.57	3601.05	3770.16	3354.35	228.80
Throughput (2nd burst)	3150.09	3276.09	3438.57	3574.52	3687.26	3727.05	3753.58	3539.62	248.69
Simultaneous throughput	2462.83	2619.32	2704.55	2845.13	3011.02	3101.56	3202.79	2859.28	306.46
Total drops	53.00	102.00	147.00	220.50	254.00	342.00	403.00	214.93	107.00
Congestion drops	15.00	73.00	115.00	178.50	213.00	322.00	365.00	177.35	98.00
Error drops	12.00	19.00	23.00	36.00	52.00	56.00	68.00	37.58	29.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	1120.30	1495.69	1926.41	2528.65	3259.27	4689.19	2066.79	1032.96
IP packet delay variation	-68.31	-19.95	-11.01	-11.00	-10.99	0.00	1605.04	-0.44	0.02
Consecutive packets dropped	1.00	1.00	1.00	2.00	3.00	7.00	73.00	3.93	2.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.93	9.55	15.59	22.40	26.26	32.03	49.03	22.16	10.67
Throughput	258.99	365.37	470.69	565.79	812.42	1217.55	1596.90	684.64	341.73
Simultaneous throughput	129.63	151.00	171.43	198.59	209.58	221.13	243.13	193.03	38.15
Total drops	0.00	0.00	1.00	2.00	3.00	7.00	9.00	2.70	2.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	5.00	9.00	2.17	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.42	11.18	14.78	20.15	28.88	31.08	40.93	21.82	14.10
Throughput	225.67	292.30	319.16	457.25	613.61	760.84	884.42	485.60	294.45
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.20	2.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	5.00	1.88	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.41	10.99	17.69	20.76	23.90	26.47	37.04	20.69	6.21
Throughput	249.31	347.10	382.57	444.36	510.45	744.72	1244.42	494.14	127.88
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.15	2.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	3.00	6.00	1.93	3.00

Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.35	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.70	11.46	15.14	19.63	24.20	26.97	46.09	20.57	9.06
Throughput	199.88	328.84	362.15	469.07	598.57	759.76	1197.13	508.27	236.42
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	8.00	2.40	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	2.00	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.82	8.99	11.00	13.95	20.69	24.58	33.32	16.30	9.69
Throughput	276.18	372.90	411.58	660.36	816.72	942.45	1350.81	657.24	405.13
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	5.00	1.27	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	0.95	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.78	8.82	12.24	15.53	20.17	23.42	39.43	16.69	7.93
Throughput	233.19	376.12	452.42	593.19	743.64	1020.90	1185.31	625.70	291.22
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.03	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.29	9.10	12.76	16.44	21.15	24.66	44.01	17.26	8.38
Throughput	209.55	370.75	425.55	560.96	720.00	966.09	1740.90	624.52	294.45
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.40	2.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	3.00	5.00	0.97	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.72	8.79	12.05	14.33	18.88	24.40	39.51	16.44	6.83
Throughput	233.19	327.76	478.21	643.16	753.31	899.46	1610.87	661.43	275.10
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.40	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.87	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.11	7.53	8.81	11.44	14.70	20.10	50.66	13.71	5.90
Throughput	181.61	442.75	577.07	805.97	1031.64	1221.85	1803.22	837.70	454.57
Simultaneous throughput	94.27	109.82	124.68	144.43	152.42	160.82	176.82	140.39	27.74
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00

Link with Medium ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5780.91	6048.61	6402.17	6537.92	6680.11	6893.44	7120.81	6545.52	277.94
Fairness of sim. thr. (F+S)	0.73	0.90	0.94	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (F+S+H)	0.81	0.91	0.94	0.97	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.82	0.87	0.89	0.90	0.92	0.92	0.94	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.28	124.93	131.70	137.28	140.30	148.10	151.35	136.71	8.60
Throughput	2435.10	2483.46	2581.25	2684.96	2786.51	2921.91	3090.63	2705.91	205.25
Simultaneous throughput	897.45	1191.81	1483.35	1703.35	1956.49	2255.27	2516.11	1724.54	473.14
Total drops	8.00	11.00	14.00	21.00	28.00	34.00	46.00	22.28	14.00
Congestion drops	0.00	1.00	5.00	8.00	17.00	24.00	35.00	11.43	12.00
Error drops	4.00	6.00	8.00	10.50	12.00	16.00	21.00	10.85	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.63	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	3.00	10.00	16.00	2.62	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	137.64	140.93	143.99	148.62	152.54	156.74	167.95	149.32	8.55
Throughput	2195.46	2314.75	2410.39	2480.78	2556.54	2604.90	2677.97	2473.90	146.15
Simultaneous throughput	514.94	968.81	1185.90	1453.13	1717.84	1870.41	2085.75	1438.65	531.94
Total drops	11.00	13.00	16.00	22.00	29.00	31.00	51.00	23.35	13.00
Congestion drops	0.00	1.00	3.00	7.50	16.00	21.00	40.00	10.70	13.00

Error drops	6.00	9.00	11.00	12.00	14.00	16.00	21.00	12.65	3.00
Spurious RTOs	0.00	0.00	0.00	0.50	2.00	4.00	6.00	1.35	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	14.00	20.00	23.00	6.17	14.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.51	1130.26	1298.05	1418.51	1546.82	1604.97	1690.16	1408.38	248.77
Total drops	1.00	3.00	5.00	10.50	16.00	20.00	24.00	11.12	11.00
Congestion drops	0.00	1.00	4.00	7.00	13.00	16.00	23.00	8.50	9.00
Error drops	0.00	1.00	1.00	2.00	3.00	6.00	8.00	2.62	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.45	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	3.00	5.00	12.00	2.48	3.00
Response time	31.59	34.70	37.07	41.80	47.32	50.75	56.87	42.45	10.25
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2971.03	3045.64	3214.75	3334.11	3410.38	3496.60	3649.13	3313.56	195.63
Throughput (1st burst)	2430.54	2728.97	2854.97	3050.61	3246.25	3358.99	3680.63	3054.76	391.28
Throughput (2nd burst)	2937.87	3223.04	3448.52	3680.62	3710.47	3740.31	3763.53	3572.37	261.95
Simultaneous throughput	2477.38	2576.40	2609.34	2744.25	2881.43	2939.82	3155.50	2746.58	272.10
Total drops	93.00	181.00	235.00	283.00	348.00	430.00	502.00	295.40	113.00
Congestion drops	63.00	145.00	172.00	247.00	310.00	395.00	482.00	258.20	138.00
Error drops	10.00	18.00	27.00	35.00	42.00	59.00	79.00	37.20	15.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	748.87	1036.69	1506.45	2155.03	2848.20	4735.24	1663.44	1118.33
IP packet delay variation	-20.04	-19.96	-11.02	-11.00	-10.99	0.00	1605.09	0.02	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	3.00	241.00	3.38	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.52	11.19	17.16	21.28	26.77	30.32	41.06	22.04	9.61
Throughput	308.42	397.61	471.76	595.88	680.24	949.97	1488.36	650.10	208.48
Simultaneous throughput	145.72	165.77	190.38	208.05	226.87	235.40	247.89	206.56	36.49
Total drops	0.00	0.00	0.00	2.00	4.00	5.00	8.00	2.47	4.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	5.00	8.00	2.18	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.48	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.34	10.26	12.02	15.10	21.72	35.13	43.40	18.42	9.71
Throughput	212.78	252.54	423.40	610.93	758.69	854.33	1256.24	597.68	335.28
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.60	3.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.33	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.50	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.69	10.26	12.93	18.21	22.68	25.47	44.47	19.19	9.75
Throughput	207.40	289.07	398.69	506.69	697.43	886.57	1198.21	564.99	298.75
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	5.00	1.85	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.63	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.42	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.04	9.80	12.32	17.44	20.29	27.40	43.35	18.60	7.98
Throughput	212.78	303.04	450.27	528.18	741.49	897.31	1145.55	580.30	291.22
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	8.00	1.80	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.50	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.70	6.01	9.10	12.74	15.20	20.69	32.01	13.29	6.09
Throughput	288.00	442.75	580.30	723.76	971.46	1432.48	1959.04	853.33	391.16
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.34	6.09	7.93	10.93	14.03	20.38	25.73	12.00	6.11
Throughput	357.85	451.34	640.48	843.58	1011.22	1472.24	1724.78	909.11	370.75
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.52	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.68	6.98	9.57	13.03	15.85	19.37	23.60	13.23	6.28

Throughput	390.09	471.76	581.37	708.18	904.84	1206.81	1970.87	792.48	323.46
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.32	6.71	9.19	11.54	14.49	17.29	21.96	12.20	5.30
Throughput	420.18	515.82	634.03	798.45	998.33	1194.99	1732.30	845.84	364.30
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.53	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	7.07	9.08	11.21	14.20	17.44	22.77	12.16	5.12
Throughput	405.13	513.67	635.10	822.09	994.03	1262.69	1605.49	852.61	358.93
Simultaneous throughput	105.97	120.56	138.46	151.31	164.99	171.20	180.28	150.23	26.54
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.55	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.23	0.00

Link with Medium ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5578.44	6079.64	6250.82	6539.41	6807.05	6896.65	7232.20	6540.65	556.23
Fairness of sim. thr. (F+S)	0.73	0.82	0.92	0.97	1.00	1.00	1.00	0.94	0.07
Fairness of sim. thr. (F+S+H)	0.78	0.84	0.92	0.96	0.98	0.99	1.00	0.94	0.06
Fairness of sim. thr. (all)	0.74	0.79	0.83	0.85	0.88	0.90	0.91	0.85	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	111.15	124.06	128.57	136.51	143.22	148.97	161.44	136.35	14.65
Throughput	2283.58	2473.79	2561.91	2700.54	2859.58	2910.09	3316.30	2719.69	297.67
Simultaneous throughput	879.44	1227.83	1506.79	1726.69	1985.48	2396.44	2732.89	1770.71	478.69
Total drops	7.00	11.00	19.00	23.50	29.00	40.00	49.00	25.00	10.00
Congestion drops	0.00	2.00	3.00	16.00	19.00	24.00	38.00	14.40	16.00
Error drops	5.00	5.00	7.00	11.00	13.00	14.00	20.00	10.60	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.37	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	6.00	19.00	2.10	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	137.46	142.63	146.19	152.17	156.71	162.50	178.30	152.49	10.53
Throughput	2067.58	2265.31	2317.97	2422.75	2518.93	2550.09	2682.27	2424.14	200.96
Simultaneous throughput	512.48	674.11	966.65	1329.63	1589.61	1810.62	2074.27	1301.75	622.96
Total drops	8.00	12.00	16.00	23.50	30.00	36.00	49.00	24.15	14.00
Congestion drops	0.00	0.00	4.00	10.00	18.00	27.00	31.00	11.92	14.00
Error drops	6.00	8.00	9.00	11.50	15.00	17.00	20.00	12.23	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.32	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.50	11.00	21.00	29.00	7.00	11.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	989.32	1126.57	1240.83	1361.77	1447.91	1570.42	1640.56	1346.94	207.09
Total drops	3.00	4.00	6.00	11.00	14.00	18.00	21.00	10.88	8.00
Congestion drops	0.00	2.00	4.00	8.50	11.00	15.00	20.00	8.15	7.00
Error drops	0.00	0.00	1.00	2.00	4.00	6.00	8.00	2.72	3.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	5.00	1.88	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	6.00	7.00	9.00	3.45	5.00
Response time	31.05	38.33	43.47	51.55	56.48	61.93	68.52	50.66	13.01
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3688.92	3695.55	3710.47	3733.68	3751.92	3761.87	3780.10	3732.85	41.45
Throughput (1st burst)	3657.42	3674.00	3703.84	3727.05	3760.21	3770.16	3803.32	3729.54	56.37
Throughput (2nd burst)	3644.15	3680.63	3707.16	3733.68	3770.16	3780.10	3800.00	3736.17	63.00
Simultaneous throughput	2798.71	2860.57	2912.16	3107.63	3255.37	3353.14	3385.69	3098.06	343.20
Total drops	14.00	18.00	28.00	42.00	54.00	64.00	69.00	42.50	26.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	14.00	18.00	28.00	42.00	54.00	64.00	69.00	42.50	26.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	822.78	1169.58	1238.80	1393.87	2556.40	3425.27	1414.28	224.29
IP packet delay variation	-21.24	-19.96	-11.02	-11.00	-10.99	0.00	1605.03	-1.05	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.26	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.38	11.35	16.73	23.25	30.68	41.13	61.93	25.07	13.94
Throughput	204.18	291.22	404.06	544.84	718.93	1068.18	1985.91	635.86	314.87
Simultaneous throughput	145.10	165.23	181.99	199.73	212.36	230.33	240.62	197.55	30.37
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	7.00	2.20	3.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	5.00	5.00	1.80	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.40	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.53	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.40	11.33	14.60	18.44	25.75	31.30	34.54	19.95	11.15
Throughput	266.51	275.10	356.78	500.24	628.66	761.91	1245.49	530.17	271.88
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.22	2.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	2.00	5.00	1.00	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.65	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.68	12.46	13.96	19.65	25.67	28.96	32.47	20.44	11.71
Throughput	283.70	314.87	355.70	469.07	564.18	731.82	1199.28	502.76	208.48
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	2.00	2.00	4.00	5.00	1.80	2.00
Congestion drops	0.00	0.00	0.00	2.00	2.00	3.00	5.00	1.50	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.97	12.01	15.62	20.24	25.32	34.20	46.85	22.12	9.70
Throughput	196.66	242.87	337.43	455.64	582.45	711.40	1157.37	487.85	245.01
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	8.00	2.35	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	5.00	7.00	2.02	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.37	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.11	8.13	10.94	14.00	20.50	27.17	31.73	16.26	9.56
Throughput	290.15	337.43	436.30	658.21	834.99	1063.88	1297.07	675.00	398.69
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.42	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.60	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.21	7.38	9.80	13.45	18.88	22.93	38.94	15.39	9.08
Throughput	236.42	313.79	473.91	685.07	906.99	1153.07	1485.13	731.10	433.07
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.77	7.20	9.57	14.39	20.99	26.71	38.05	16.04	11.41
Throughput	241.79	338.51	422.33	640.48	945.67	1202.51	1595.82	715.84	523.34
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.50	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.40	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.14	7.82	11.42	15.76	21.44	26.17	32.46	16.81	10.02
Throughput	283.70	338.51	424.48	585.13	792.00	1046.69	1500.18	655.25	367.52
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.80	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.55	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.99	8.63	9.54	11.91	15.39	17.83	23.07	12.87	5.85
Throughput	399.76	496.48	595.34	773.73	903.76	1067.10	1538.87	788.83	308.42
Simultaneous throughput	105.53	120.17	132.35	145.26	154.44	167.51	174.99	143.67	22.09
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00

Link with Medium ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5304.58	5792.38	6184.47	6474.56	6644.28	6762.60	7116.38	6410.44	459.81
Fairness of sim. thr. (F+S)	0.70	0.88	0.96	0.98	1.00	1.00	1.00	0.96	0.04
Fairness of sim. thr. (F+S+H)	0.80	0.90	0.93	0.97	0.99	1.00	1.00	0.96	0.06
Fairness of sim. thr. (all)	0.74	0.79	0.83	0.86	0.88	0.89	0.91	0.85	0.05

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	124.18	127.67	135.60	139.75	143.62	149.24	159.52	139.78	8.03
Throughput	2311.52	2457.67	2529.67	2637.67	2718.81	2847.76	2968.12	2644.82	189.13
Simultaneous throughput	951.32	1161.62	1357.04	1591.30	1886.53	2074.65	2419.54	1627.65	529.49
Total drops	9.00	11.00	15.00	20.50	26.00	32.00	36.00	21.03	11.00
Congestion drops	0.00	0.00	2.00	10.00	16.00	20.00	28.00	10.28	14.00
Error drops	5.00	6.00	9.00	10.50	12.00	15.00	18.00	10.75	3.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.55	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	2.00	8.00	14.00	2.20	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.83	146.43	148.24	153.68	160.30	166.75	187.35	155.75	12.05
Throughput	1967.64	2152.48	2295.40	2398.57	2464.12	2507.10	2636.06	2376.11	168.72
Simultaneous throughput	432.90	752.13	1081.38	1395.87	1671.98	1765.83	2277.52	1366.68	590.60
Total drops	10.00	12.00	15.00	18.50	27.00	34.00	43.00	21.80	12.00
Congestion drops	0.00	0.00	3.00	6.00	16.00	22.00	31.00	10.07	13.00
Error drops	6.00	7.00	9.00	11.00	13.00	17.00	24.00	11.73	4.00
Spurious RTOs	0.00	0.00	0.00	2.00	2.00	4.00	5.00	1.75	2.00
Unnecessary rexmits	0.00	0.00	0.00	7.00	10.00	23.00	29.00	8.40	10.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	991.52	1091.67	1265.89	1365.46	1448.82	1545.46	1644.04	1353.51	182.94
Total drops	0.00	2.00	6.00	10.00	12.00	15.00	22.00	9.50	6.00
Congestion drops	0.00	0.00	2.00	6.00	10.00	13.00	17.00	6.43	8.00
Error drops	0.00	0.00	1.00	3.00	5.00	6.00	8.00	3.08	4.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	5.00	2.00	2.00
Unnecessary rexmits	0.00	0.00	2.00	4.00	6.00	7.00	11.00	4.17	4.00
Response time	23.57	39.56	43.02	49.95	51.36	56.87	66.37	48.46	8.34
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3672.34	3692.23	3712.13	3732.02	3751.92	3758.55	3786.74	3730.90	39.79
Throughput (1st burst)	3647.47	3670.68	3707.16	3737.00	3760.21	3773.47	3803.32	3731.94	53.05
Throughput (2nd burst)	3627.57	3680.63	3697.21	3738.65	3756.89	3773.47	3800.00	3729.87	59.68
Simultaneous throughput	2801.21	2860.58	2912.16	3098.42	3255.10	3340.99	3369.33	3096.27	342.93
Total drops	10.00	25.00	31.00	43.00	53.00	66.00	79.00	43.67	22.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	10.00	25.00	31.00	43.00	53.00	66.00	79.00	43.67	22.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	774.66	1151.41	1233.01	1368.33	2542.69	3443.03	1391.03	216.92
IP packet delay variation	-20.10	-19.96	-11.02	-11.00	-10.99	0.00	1605.09	-1.08	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.28	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.28	14.95	19.45	25.57	28.81	35.97	64.06	26.09	9.36
Throughput	197.73	327.76	425.55	495.40	634.03	789.85	2018.15	588.14	208.48
Simultaneous throughput	145.42	160.11	185.66	200.27	212.49	226.67	241.13	198.51	26.83
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.05	2.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	3.00	6.00	1.53	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	3.00	4.00	0.82	2.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.39	10.92	14.91	21.28	28.84	32.24	41.84	22.73	13.93
Throughput	220.30	281.55	318.09	433.07	581.37	843.58	1246.57	481.35	263.28
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.60	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.13	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.60	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.98	11.05	15.67	21.67	26.10	27.53	38.81	20.91	10.43
Throughput	237.49	310.57	352.48	425.55	581.37	811.34	1319.64	512.36	228.90
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.60	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.32	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.03	11.35	14.39	20.85	25.38	28.87	36.14	20.58	10.99
Throughput	254.69	307.34	351.40	441.67	634.03	770.51	1147.70	514.88	282.63
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.70	3.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.43	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	8.37	11.22	16.71	20.51	25.10	28.73	16.69	9.29
Throughput	320.24	338.51	447.04	551.82	766.21	1028.42	1606.57	652.94	319.16
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.70	1.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.40	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.53	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.38	8.77	10.45	13.33	15.99	22.57	31.02	14.46	5.55
Throughput	296.60	338.51	555.58	691.52	864.00	1041.31	1445.37	731.44	308.42
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.48	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.25	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.51	7.77	10.59	13.62	17.37	20.77	26.78	14.44	6.78
Throughput	343.88	412.66	504.00	676.48	869.37	1042.39	1414.21	721.32	365.37
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.55	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.38	7.93	8.78	11.63	15.80	16.65	23.46	12.41	7.02
Throughput	393.31	517.97	577.07	792.54	1002.63	1152.00	1712.96	839.61	425.55
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.25	6.39	8.17	12.14	14.89	18.18	25.28	12.35	6.73
Throughput	364.30	461.01	611.46	759.22	989.73	1407.76	1754.87	870.21	378.27
Simultaneous throughput	105.76	116.44	135.03	145.65	154.54	164.85	175.36	144.37	19.51
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.32	0.00

Link with Medium ARQ Persistency - Baseline TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5319.53	5795.44	6055.78	6467.95	6785.93	6996.33	7235.07	6418.28	730.15
Fairness of sim. thr. (F+S)	0.73	0.86	0.91	0.97	0.99	1.00	1.00	0.94	0.08
Fairness of sim. thr. (F+S+H)	0.81	0.88	0.92	0.96	0.98	0.99	1.00	0.94	0.06
Fairness of sim. thr. (all)	0.74	0.77	0.83	0.86	0.88	0.90	0.91	0.85	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	109.12	121.06	126.95	135.14	139.92	147.50	157.17	134.33	12.97
Throughput	2345.91	2431.88	2633.91	2727.40	2890.75	3042.27	3378.63	2762.54	256.84
Simultaneous throughput	1036.03	1146.27	1449.34	1750.03	1950.76	2217.70	2504.84	1732.45	501.42
Total drops	6.00	9.00	14.00	23.00	31.00	35.00	43.00	22.78	17.00
Congestion drops	0.00	0.00	1.00	12.00	20.00	25.00	28.00	11.75	19.00
Error drops	5.00	6.00	9.00	11.00	14.00	16.00	18.00	11.03	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.47	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	12.00	28.00	3.05	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	137.58	141.19	146.21	153.78	163.35	171.02	187.13	155.87	17.14
Throughput	1969.79	2151.40	2245.97	2397.49	2513.55	2594.15	2679.04	2378.61	267.58
Simultaneous throughput	407.28	666.42	886.57	1283.50	1554.23	1782.56	2201.95	1260.91	667.66
Total drops	6.00	9.00	14.00	22.00	27.00	35.00	44.00	22.00	13.00
Congestion drops	0.00	0.00	0.00	6.00	16.00	18.00	32.00	9.35	16.00
Error drops	6.00	7.00	10.00	12.50	14.00	18.00	22.00	12.65	4.00
Spurious RTOs	0.00	0.00	0.00	1.50	3.00	5.00	6.00	1.97	3.00
Unnecessary rexmits	0.00	0.00	0.00	5.50	18.00	25.00	41.00	10.07	18.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	990.31	1101.51	1266.08	1405.98	1496.79	1563.75	1621.58	1378.46	230.71
Total drops	1.00	1.00	2.00	3.00	5.00	6.00	7.00	3.57	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Error drops	0.00	1.00	2.00	3.00	5.00	6.00	7.00	3.28	3.00
Spurious RTOs	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.33	2.00
Unnecessary rexmits	0.00	0.00	2.00	4.00	6.00	10.00	20.00	4.95	4.00
Response time	32.59	34.64	41.38	46.14	49.16	53.28	78.43	45.86	7.77
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3677.31	3697.21	3707.16	3737.83	3756.89	3765.18	3788.39	3733.93	49.73
Throughput (1st burst)	3644.15	3683.94	3707.16	3723.73	3766.84	3773.47	3803.32	3730.70	59.68
Throughput (2nd burst)	3650.79	3683.94	3710.47	3738.65	3766.84	3780.10	3803.32	3737.16	56.37
Simultaneous throughput	2793.70	2850.16	2911.11	3103.96	3265.24	3349.00	3378.26	3098.97	354.12
Total drops	9.00	22.00	27.00	39.50	53.00	63.00	76.00	41.85	26.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	9.00	22.00	27.00	39.50	53.00	63.00	76.00	41.85	26.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	922.88	1178.15	1243.76	1425.44	2567.26	3451.14	1439.37	247.29
IP packet delay variation	-20.27	-19.96	-11.02	-11.00	-10.99	0.00	1604.95	-1.18	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.26	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.83	11.26	14.02	16.39	21.65	23.87	26.44	17.46	7.63
Throughput	479.28	501.85	580.30	772.66	870.45	1088.60	1854.81	802.24	290.15
Simultaneous throughput	145.25	161.55	185.69	206.21	219.53	229.35	237.83	202.17	33.84
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.48	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.08	11.27	13.19	17.49	19.71	23.34	31.53	17.45	6.52
Throughput	292.30	366.45	459.94	527.10	653.37	808.12	1140.18	580.00	193.43
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.38	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.60	11.54	14.83	18.65	22.47	26.37	47.69	19.44	7.64
Throughput	193.43	317.01	405.13	494.33	613.61	773.73	1072.48	537.99	208.48
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.57	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.81	12.11	15.54	18.25	21.64	25.84	31.84	18.82	6.10
Throughput	289.07	350.33	423.40	505.07	587.82	726.45	1046.69	532.50	164.42
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.22	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.47	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.95	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.09	9.95	13.94	17.14	20.30	23.69	65.88	17.95	6.36
Throughput	139.70	387.94	452.42	537.31	649.07	872.60	1299.22	601.04	196.66
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.82	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.69	10.77	12.94	15.22	18.05	20.88	27.87	15.96	5.12
Throughput	330.99	408.36	509.37	605.55	695.28	800.60	1199.28	624.25	185.91
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.73	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.64	10.80	12.94	16.96	18.89	22.63	32.27	16.74	5.95
Throughput	285.85	400.84	486.81	543.76	707.10	831.76	1387.34	608.70	220.30
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.92	10.60	12.62	16.84	18.46	20.85	23.74	15.94	5.84
Throughput	387.94	439.52	495.40	547.52	721.07	852.18	1332.54	627.23	225.67
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.60	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	7.05	8.71	10.34	12.82	14.32	17.16	30.52	13.07	3.99
Throughput	301.97	517.97	634.03	718.93	881.19	1054.21	1307.82	767.23	247.16
Simultaneous throughput	105.63	117.49	135.05	149.97	159.66	166.80	172.97	147.04	24.61
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.45	0.00

Link with Medium ARQ Persistency - Baseline TCP, DiffServ for HTTP and Streaming, and RED+ECN

Overall

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5701.63	5832.41	6272.24	6498.66	6636.61	6918.01	7159.98	6458.29	364.37
Fairness of sim. thr. (F+S)	0.67	0.75	0.93	0.98	0.99	1.00	1.00	0.93	0.06
Fairness of sim. thr. (F+S+H)	0.71	0.82	0.93	0.97	0.98	0.99	0.99	0.94	0.05
Fairness of sim. thr. (all)	0.74	0.77	0.82	0.86	0.88	0.89	0.91	0.85	0.06

Faster flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	111.49	119.14	127.75	137.87	143.24	148.69	153.76	135.48	15.49
Throughput	2397.49	2464.12	2552.24	2674.21	2869.25	3054.09	3306.63	2739.57	317.01
Simultaneous throughput	811.92	1113.23	1369.67	1681.08	1864.03	2097.67	3168.08	1689.75	494.36
Total drops	7.00	11.00	14.00	21.50	29.00	33.00	44.00	22.47	15.00
Congestion drops	0.00	0.00	2.00	11.50	20.00	26.00	34.00	12.60	18.00
Error drops	4.00	6.00	8.00	9.50	11.00	14.00	18.00	9.88	3.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.42	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	2.00	13.00	23.00	2.98	2.00

Slower flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.23	142.98	149.47	152.94	158.60	170.24	174.51	154.52	9.13
Throughput	2112.72	2156.78	2321.19	2410.39	2457.67	2565.13	2647.88	2393.41	136.48
Simultaneous throughput	360.83	664.20	1012.68	1246.62	1504.94	1766.94	2096.48	1254.59	492.26
Total drops	8.00	12.00	15.00	19.50	28.00	33.00	40.00	21.70	13.00
Congestion drops	0.00	0.00	1.00	5.00	16.00	20.00	25.00	8.65	15.00
Error drops	6.00	9.00	10.00	13.00	15.00	18.00	21.00	13.05	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.15	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	8.00	16.00	26.00	5.65	8.00

HTTP transfer

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	991.12	1128.94	1297.13	1412.07	1483.30	1560.23	1652.89	1383.02	186.17
Total drops	1.00	1.00	2.00	3.00	4.00	5.00	8.00	3.27	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Error drops	0.00	1.00	2.00	3.00	4.00	5.00	8.00	3.00	2.00
Spurious RTOs	0.00	0.00	1.00	2.00	4.00	4.00	6.00	2.25	3.00
Unnecessary rexmits	0.00	0.00	1.00	4.00	7.00	10.00	22.00	5.17	6.00
Response time	28.43	36.98	41.41	44.46	47.19	50.11	52.46	44.37	5.78

Streaming flow

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3672.34	3688.92	3718.76	3737.00	3755.24	3765.18	3781.76	3734.97	36.48
Throughput (1st burst)	3650.79	3677.31	3710.47	3737.00	3763.53	3773.47	3803.32	3732.36	53.06
Throughput (2nd burst)	3660.73	3693.89	3713.79	3738.65	3770.16	3783.42	3793.37	3737.58	56.37
Simultaneous throughput	2821.25	2848.88	2912.40	3101.85	3259.44	3352.88	3393.13	3099.81	347.05
Total drops	13.00	18.00	27.00	40.00	49.00	63.00	79.00	41.23	22.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	13.00	18.00	27.00	40.00	49.00	63.00	79.00	41.23	22.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	726.73	1150.96	1233.73	1380.24	2547.21	3377.37	1385.66	229.28
IP packet delay variation	-20.09	-19.96	-11.02	-11.00	-10.99	0.00	1605.04	-1.13	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.25	0.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.91	11.68	13.32	18.95	22.47	24.48	33.25	18.27	9.16
Throughput	381.49	509.37	560.96	668.96	936.00	1072.48	1834.39	766.10	375.04
Simultaneous throughput	145.36	165.58	190.25	207.10	217.55	228.83	242.42	202.84	27.31
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.50	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.50	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.20	9.92	13.84	17.28	19.69	23.50	37.80	17.56	5.84
Throughput	243.94	366.45	468.54	533.01	654.45	893.01	1278.81	588.06	185.91
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.55	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.49	11.25	14.33	17.43	20.20	21.79	40.72	17.63	5.87
Throughput	226.75	414.81	451.34	528.72	640.48	781.25	1231.52	571.73	189.13
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.65	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.06	11.90	14.94	18.61	22.63	26.89	39.82	19.49	7.69
Throughput	231.04	326.69	400.84	495.40	579.22	721.07	1144.48	521.76	178.39
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.43	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	2.00	2.00	6.00	0.90	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	10.09	11.59	13.14	17.36	20.30	24.36	27.15	17.41	7.17
Throughput	339.58	355.70	448.12	530.87	696.36	773.73	913.43	570.09	248.24
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.47	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.68	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.21	10.37	12.13	15.85	19.46	22.65	37.89	16.84	7.34
Throughput	242.87	376.12	469.61	581.37	682.39	866.15	1001.55	601.90	212.78
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.50	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	7.00	0.72	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.37	9.77	12.02	16.36	18.80	19.18	27.46	15.66	6.78
Throughput	335.28	466.39	490.03	563.10	710.33	940.30	1446.45	642.95	220.30
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.40	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.89	9.08	12.69	16.61	18.94	21.47	31.65	16.18	6.25
Throughput	291.22	421.25	483.58	555.04	713.55	923.10	1168.12	629.09	229.97
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.40	7.67	9.86	12.99	13.87	16.60	22.23	12.54	4.00
Throughput	414.81	521.19	634.03	709.25	930.63	1133.73	1707.58	802.32	296.60
Simultaneous throughput	105.72	120.42	138.36	150.62	158.22	166.43	176.31	147.52	19.86
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.43	0.00

Link with Medium ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5798.30	6162.63	6513.05	6629.57	6758.74	6925.85	7140.84	6615.76	245.69
Fairness of sim. thr. (F+S)	0.84	0.92	0.97	0.99	1.00	1.00	1.00	0.97	0.02
Fairness of sim. thr. (F+S+H)	0.87	0.91	0.94	0.98	0.99	1.00	1.00	0.97	0.05
Fairness of sim. thr. (all)	0.79	0.84	0.87	0.89	0.91	0.92	0.93	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.48	130.13	133.86	135.81	140.73	145.39	150.24	137.33	6.88
Throughput	2453.37	2522.15	2616.72	2714.51	2749.97	2789.73	3010.03	2689.15	133.25
Simultaneous throughput	949.45	1247.04	1477.09	1672.97	1856.57	2235.27	2514.23	1690.77	379.48
Total drops	7.00	9.00	10.00	13.00	16.00	19.00	33.00	14.40	6.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	5.00	21.00	3.45	3.00
Error drops	5.00	7.00	9.00	10.50	13.00	14.00	19.00	10.95	4.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	3.00	0.67	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	7.00	13.00	2.45	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.41	141.23	145.79	148.04	150.87	158.17	169.04	149.27	5.08
Throughput	2180.42	2290.03	2436.18	2490.45	2528.60	2588.78	2662.93	2474.06	92.42
Simultaneous throughput	782.49	947.93	1265.80	1521.28	1655.55	1923.33	2048.62	1484.77	389.75
Total drops	9.00	10.00	13.00	15.00	17.00	19.00	36.00	15.63	4.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	8.00	25.00	3.43	2.00

Error drops	4.00	8.00	10.00	12.00	15.00	16.00	19.00	12.20	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.35	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	7.00	10.00	30.00	4.83	6.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	983.48	1129.75	1255.67	1419.89	1501.73	1565.02	1617.04	1381.12	246.06
Total drops	1.00	4.00	7.00	13.00	18.00	29.00	46.00	14.80	11.00
Congestion drops	0.00	0.00	4.00	9.00	15.00	25.00	43.00	11.20	11.00
Error drops	0.00	1.00	2.00	4.00	5.00	6.00	9.00	3.60	3.00
Spurious RTOs	0.00	0.00	0.00	2.00	3.00	4.00	5.00	1.90	3.00
Unnecessary rexmits	0.00	0.00	2.00	3.00	8.00	10.00	17.00	4.70	6.00
Response time	27.70	33.18	36.11	41.02	49.77	55.20	63.09	43.31	13.66
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3299.30	3410.38	3445.20	3542.19	3606.02	3675.65	3738.66	3540.41	160.82
Throughput (1st burst)	3173.30	3272.77	3349.04	3468.41	3571.20	3700.52	3723.73	3466.34	222.16
Throughput (2nd burst)	3295.99	3382.20	3481.68	3675.65	3717.10	3760.21	3776.79	3614.48	235.42
Simultaneous throughput	2654.14	2725.67	2788.69	2921.16	3069.59	3156.62	3291.75	2936.90	280.90
Total drops	39.00	67.00	117.00	157.50	215.00	235.00	304.00	158.58	98.00
Congestion drops	0.00	19.00	77.00	117.00	169.00	210.00	247.00	121.30	92.00
Error drops	12.00	17.00	25.00	39.00	46.00	52.00	61.00	37.27	21.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	997.75	1343.56	1802.37	2387.84	3122.54	4861.52	1936.90	1044.28
IP packet delay variation	-20.05	-19.96	-11.02	-11.00	-10.99	0.00	1956.21	-0.14	0.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	3.00	6.00	65.00	3.45	2.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.18	9.59	12.39	15.65	21.78	26.68	36.30	17.47	9.39
Throughput	349.25	441.67	581.37	809.73	998.33	1207.88	1549.61	832.19	416.96
Simultaneous throughput	144.24	165.70	184.17	208.25	220.25	229.54	237.17	202.56	36.09
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	6.00	1.73	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	5.00	1.25	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.40	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.45	9.05	10.59	12.69	17.34	21.97	29.18	14.59	6.75
Throughput	315.94	407.28	487.88	726.45	854.33	997.25	1236.90	712.75	366.45
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	9.00	1.57	2.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	3.00	9.00	1.23	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.35	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.57	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.88	9.49	10.89	14.09	20.41	25.64	53.36	16.71	9.52
Throughput	173.01	355.70	449.19	654.99	842.51	957.49	1170.27	655.74	393.31
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	1.00	4.00	6.00	9.00	2.23	4.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	6.00	9.00	1.90	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.60	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.16	9.84	11.28	14.20	18.86	27.64	43.07	17.14	7.58
Throughput	213.85	285.85	390.09	649.07	811.34	917.73	1129.43	643.86	421.25
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	2.00	4.00	6.00	9.00	2.42	4.00
Congestion drops	0.00	0.00	0.00	0.50	4.00	6.00	8.00	2.00	4.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.42	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.62	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.63	8.94	10.56	13.12	23.78	25.10	41.98	16.53	13.22
Throughput	219.22	347.10	385.79	702.81	799.52	982.21	1989.13	687.20	413.73
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	6.00	1.33	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	0.97	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.36	8.76	10.17	12.19	18.18	24.84	30.34	14.71	8.00
Throughput	304.12	366.45	474.99	756.00	844.66	1047.76	1720.48	737.68	369.67
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.38	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.85	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.52	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.50	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.16	8.64	11.51	13.48	17.42	23.47	33.22	15.27	5.91

Throughput	277.25	392.24	452.42	683.46	798.45	925.25	1288.48	680.48	346.03
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	8.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	5.00	1.00	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.55	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.46	9.81	12.91	14.62	20.95	25.07	29.67	16.78	8.03
Throughput	310.57	350.33	420.18	630.27	708.18	925.25	1426.03	631.16	288.00
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	6.00	1.95	3.00
Congestion drops	0.00	0.00	0.00	0.50	3.00	4.00	6.00	1.48	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.70	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.96	7.47	9.14	11.64	13.78	17.93	27.78	12.45	4.64
Throughput	332.06	509.37	663.04	791.46	989.73	1176.72	1546.39	825.69	326.69
Simultaneous throughput	104.90	120.51	133.94	151.45	160.18	166.94	172.48	147.32	26.25
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.53	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00

Link with Medium ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4372.43	6170.52	6289.07	6494.48	6727.34	6827.77	7029.47	6491.66	438.27
Fairness of sim. thr. (F+S)	0.85	0.92	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.85	0.91	0.95	0.98	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.82	0.86	0.88	0.90	0.91	0.93	0.95	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.10	124.12	131.25	138.66	143.01	147.47	151.55	136.96	11.76
Throughput	2432.96	2478.09	2569.43	2658.63	2805.85	2872.48	3474.27	2704.30	236.42
Simultaneous throughput	958.82	1133.81	1400.85	1664.07	2039.75	2276.03	2614.30	1731.75	638.91
Total drops	5.00	7.00	8.00	13.00	15.00	18.00	40.00	13.62	7.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	6.00	34.00	3.70	3.00
Error drops	3.00	5.00	7.00	10.00	12.00	14.00	18.00	9.93	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.90	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	7.00	16.00	2.90	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	140.26	140.88	143.58	150.13	152.97	156.91	161.10	149.61	9.39
Throughput	2287.88	2328.72	2407.16	2455.52	2536.12	2612.42	2628.54	2467.80	128.96
Simultaneous throughput	985.87	1172.66	1264.13	1431.23	1655.89	1907.49	2379.17	1494.73	391.75
Total drops	6.00	8.00	11.00	14.00	17.00	20.00	22.00	14.27	6.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	13.00	1.65	2.00
Error drops	5.00	7.00	10.00	12.00	15.00	17.00	22.00	12.62	5.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	2.00	4.00	1.25	1.00
Unnecessary rexmits	0.00	0.00	1.00	3.50	6.00	8.00	16.00	4.08	5.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	761.75	1073.60	1260.45	1418.20	1544.80	1609.57	1663.21	1384.68	284.34
Total drops	0.00	2.00	5.00	7.50	16.00	21.00	35.00	10.68	11.00
Congestion drops	0.00	0.00	2.00	6.00	11.00	19.00	32.00	8.12	9.00
Error drops	0.00	0.00	1.00	2.00	3.00	5.00	10.00	2.55	2.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.45	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	9.00	15.00	3.17	3.00
Response time	22.83	31.03	33.43	36.11	42.59	48.81	206.20	42.07	9.16
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3095.38	3186.56	3319.20	3393.81	3499.91	3551.31	3665.71	3401.93	180.71
Throughput (1st burst)	2486.91	2858.29	2977.66	3214.75	3382.20	3567.89	3746.95	3193.19	404.54
Throughput (2nd burst)	3166.67	3282.72	3534.73	3688.91	3717.10	3760.21	3773.47	3610.66	182.37
Simultaneous throughput	2520.49	2591.75	2690.37	2800.63	2979.81	3097.12	3290.95	2822.58	289.44
Total drops	83.00	141.00	171.00	247.00	291.00	320.00	427.00	242.10	120.00
Congestion drops	45.00	96.00	137.00	206.50	246.00	277.00	379.00	202.07	109.00
Error drops	17.00	20.00	26.00	42.00	51.00	58.00	64.00	40.02	25.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	755.64	1057.45	1503.48	2120.22	2741.73	4758.25	1643.95	1062.77
IP packet delay variation	-20.04	-19.96	-11.02	-11.00	-10.99	0.00	1741.01	-0.16	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	209.00	2.94	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.35	10.68	12.70	17.19	21.29	27.42	205.24	23.41	8.59
Throughput	61.25	408.36	571.70	737.19	926.33	1116.54	1517.37	765.21	354.63
Simultaneous throughput	93.91	157.46	184.87	208.00	226.57	236.07	243.94	202.64	41.70
Total drops	0.00	0.00	0.00	1.50	3.00	5.00	6.00	1.92	3.00
Congestion drops	0.00	0.00	0.00	0.50	3.00	5.00	6.00	1.42	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.50	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.65	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.46	8.90	10.74	13.02	17.31	20.98	34.28	14.77	6.57
Throughput	268.66	416.96	523.34	708.18	856.48	1021.97	1426.03	714.17	333.13
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.53	2.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	1.15	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.38	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.89	8.94	11.08	13.46	17.42	20.27	24.51	14.56	6.35
Throughput	376.12	419.10	512.60	685.07	818.87	938.15	1337.91	692.60	306.27
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	8.00	1.93	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	7.00	1.62	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.55	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.26	10.58	11.54	14.21	18.26	22.60	59.44	16.88	6.72
Throughput	154.75	299.82	499.70	648.54	770.51	859.70	1472.24	655.63	270.81
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	13.00	2.08	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	11.00	1.73	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.62	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.16	7.02	8.08	11.32	14.13	18.49	25.91	12.17	6.06
Throughput	355.70	497.55	621.13	814.03	1099.34	1274.51	2216.96	883.75	478.21
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.67	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.52	6.28	7.92	10.30	15.22	20.26	32.48	12.39	7.30
Throughput	283.70	437.37	589.97	895.16	1155.22	1412.06	1668.90	899.70	565.25
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.27	7.02	9.31	12.65	16.84	21.86	25.15	13.45	7.52
Throughput	366.45	419.10	542.69	728.60	961.79	1312.12	1469.01	793.80	419.10
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.48	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.57	8.19	8.83	11.62	14.97	17.70	26.51	12.60	6.15
Throughput	348.18	499.70	588.90	793.07	995.10	1121.91	1403.46	813.47	406.21
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	0.00	1.00	5.00	6.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.75	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.25	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.84	6.92	8.32	10.16	11.88	15.30	24.61	10.86	3.57
Throughput	375.04	549.13	713.55	907.52	1084.30	1313.19	2399.64	955.21	370.75
Simultaneous throughput	83.48	114.52	134.45	151.27	164.78	171.69	177.41	147.75	30.33
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	7.00	0.47	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00

Link with Medium ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5905.89	6092.10	6444.03	6637.80	6793.98	6937.68	7121.17	6601.36	349.94
Fairness of sim. thr. (F+S)	0.69	0.89	0.95	0.99	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (F+S+H)	0.76	0.91	0.93	0.96	0.98	1.00	1.00	0.95	0.05
Fairness of sim. thr. (all)	0.78	0.80	0.83	0.86	0.89	0.91	0.91	0.86	0.06

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.68	123.59	127.64	136.18	141.61	144.86	151.42	135.02	13.97
Throughput	2434.03	2518.93	2600.60	2706.99	2881.07	2939.10	3214.21	2742.02	280.48
Simultaneous throughput	871.58	1125.60	1324.54	1700.45	1927.57	2154.17	2446.98	1669.91	603.04
Total drops	5.00	6.00	10.00	12.00	16.00	17.00	33.00	13.25	6.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	9.00	21.00	3.48	4.00
Error drops	4.00	5.00	8.00	10.00	12.00	14.00	16.00	9.78	4.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	3.00	0.73	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	7.00	23.00	2.77	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.83	143.15	146.36	149.93	153.71	161.10	168.63	150.96	7.35
Throughput	2185.79	2255.64	2392.12	2458.75	2516.78	2568.36	2636.06	2446.52	124.66
Simultaneous throughput	457.29	907.02	1065.94	1348.48	1718.67	1839.50	2147.08	1380.86	652.73
Total drops	7.00	9.00	11.00	15.00	17.00	19.00	27.00	14.63	6.00
Congestion drops	0.00	0.00	0.00	2.00	4.00	5.00	16.00	2.45	4.00
Error drops	5.00	8.00	10.00	13.00	14.00	15.00	19.00	12.17	4.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	3.00	6.00	1.45	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	7.00	10.00	22.00	4.43	6.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	987.61	1126.99	1263.35	1409.16	1508.53	1617.14	1654.90	1389.48	245.18
Total drops	0.00	1.00	6.00	11.00	17.00	20.00	26.00	11.38	11.00
Congestion drops	0.00	0.00	2.00	6.50	15.00	18.00	22.00	8.08	13.00
Error drops	0.00	1.00	2.00	3.00	4.00	7.00	9.00	3.30	2.00
Spurious RTOs	0.00	1.00	2.00	3.00	4.00	5.00	8.00	3.17	2.00
Unnecessary rexmits	0.00	1.00	3.00	6.00	11.00	14.00	26.00	7.33	8.00
Response time	29.39	35.48	38.71	43.06	48.28	53.69	63.27	44.24	9.57
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3677.31	3687.26	3713.79	3737.83	3753.58	3765.18	3790.05	3733.31	39.79
Throughput (1st burst)	3654.10	3674.00	3693.89	3743.63	3760.21	3776.79	3800.00	3732.69	66.32
Throughput (2nd burst)	3630.89	3670.68	3703.84	3740.31	3760.21	3783.42	3803.32	3733.93	56.37
Simultaneous throughput	2804.97	2850.16	2919.89	3100.55	3263.79	3354.23	3384.20	3098.47	343.90
Total drops	8.00	21.00	29.00	39.50	54.00	67.00	76.00	42.23	25.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	8.00	21.00	29.00	39.50	54.00	67.00	76.00	42.23	25.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	826.23	1162.05	1235.99	1388.93	2558.31	3437.12	1414.52	226.88
IP packet delay variation	-20.05	-19.96	-11.02	-11.00	-10.99	0.00	1669.00	-1.07	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	4.00	1.28	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.10	11.19	13.08	18.31	24.35	31.69	53.69	20.05	11.27
Throughput	236.42	375.04	517.97	693.13	955.34	1087.52	1392.72	747.78	437.37
Simultaneous throughput	144.85	165.29	185.29	206.68	221.25	237.18	242.72	203.79	35.96
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	12.00	1.90	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	5.00	12.00	1.52	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.37	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	8.00	1.03	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.01	10.09	11.04	16.09	18.95	26.32	52.15	17.48	7.91
Throughput	176.24	343.88	400.84	572.78	832.84	909.13	1021.97	617.16	432.00
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.15	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.80	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.78	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.44	10.37	11.39	14.86	18.32	24.44	54.52	16.77	6.93
Throughput	168.72	349.25	483.58	620.06	789.85	884.42	975.76	634.49	306.27
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.00	3.00	5.00	8.00	1.47	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.17	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	4.00	1.13	2.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.81	10.34	11.67	15.85	19.97	26.22	35.17	17.07	8.30
Throughput	262.21	337.43	432.00	581.37	785.55	866.15	939.22	612.62	353.55
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	1.00	3.00	6.00	8.00	1.92	3.00
Congestion drops	0.00	0.00	0.00	0.00	3.00	5.00	8.00	1.63	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	4.00	1.27	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.42	7.84	10.83	13.95	18.95	23.62	34.28	15.34	8.12
Throughput	268.66	385.79	483.58	660.90	776.96	1129.43	2085.85	728.03	293.37
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.67	1.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.48	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.45	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.94	8.14	10.24	15.81	19.04	24.96	28.43	15.87	8.80
Throughput	324.54	337.43	468.54	582.99	862.93	1067.10	1328.24	674.76	394.39
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	7.00	1.20	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.57	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.55	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.65	7.99	11.68	14.23	19.60	25.38	40.61	15.92	7.92
Throughput	226.75	361.07	469.61	647.46	779.10	1050.99	1386.27	677.69	309.49
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	1.22	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	6.00	0.92	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.30	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.72	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.88	8.50	11.21	15.05	18.65	25.15	36.11	15.90	7.44
Throughput	254.69	362.15	488.96	612.54	779.10	998.33	1340.06	665.25	290.15
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	7.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.70	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	5.00	0.82	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.60	7.26	8.52	12.31	15.04	18.11	22.75	12.51	6.52
Throughput	405.13	501.85	611.46	748.48	1056.36	1158.45	2562.99	847.56	444.90
Simultaneous throughput	105.35	120.21	134.76	150.31	160.91	172.49	176.52	148.21	26.15
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.32	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.58	0.00

Link with Medium ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	6145.30	6299.67	6411.79	6578.50	6718.77	6848.46	6978.70	6571.97	306.97
Fairness of sim. thr. (F+S)	0.90	0.92	0.95	0.99	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (F+S+H)	0.84	0.91	0.95	0.97	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.79	0.83	0.84	0.87	0.89	0.90	0.91	0.87	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.68	125.24	131.49	137.20	143.86	147.18	156.78	137.05	12.37
Throughput	2351.28	2502.81	2557.61	2687.10	2791.88	2938.03	3132.54	2699.41	234.27
Simultaneous throughput	894.16	1217.52	1541.96	1708.75	1952.60	2084.53	2885.10	1732.09	410.64
Total drops	5.00	7.00	10.00	13.00	15.00	18.00	38.00	13.70	5.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	6.00	28.00	3.20	4.00
Error drops	3.00	5.00	8.00	10.00	13.00	15.00	18.00	10.50	5.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.60	1.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	3.00	6.00	13.00	1.80	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.59	144.80	148.12	151.16	154.96	157.07	162.11	151.50	6.84
Throughput	2273.91	2341.61	2374.93	2438.87	2486.69	2539.34	2585.55	2435.78	111.76
Simultaneous throughput	960.91	1016.37	1221.18	1436.57	1632.24	1831.61	2266.70	1454.26	411.06
Total drops	7.00	9.00	11.00	13.00	18.00	21.00	38.00	14.72	7.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	25.00	2.90	3.00
Error drops	5.00	8.00	10.00	11.50	14.00	16.00	18.00	11.83	4.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	2.00	3.00	1.30	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	8.00	17.00	3.70	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	760.23	1024.11	1171.56	1362.84	1458.12	1547.74	1655.85	1326.01	286.56
Total drops	0.00	2.00	7.00	10.50	15.00	21.00	30.00	11.50	8.00
Congestion drops	0.00	0.00	2.00	7.00	12.00	19.00	29.00	8.43	10.00
Error drops	0.00	1.00	2.00	2.50	4.00	5.00	7.00	3.08	2.00
Spurious RTOs	0.00	1.00	1.00	3.00	4.00	5.00	7.00	2.92	3.00
Unnecessary rexmits	0.00	1.00	2.00	4.00	10.00	12.00	23.00	6.27	8.00
Response time	27.08	34.13	38.75	44.02	49.54	59.24	110.05	46.99	10.79
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3665.71	3682.29	3717.10	3736.17	3751.92	3763.53	3791.71	3733.19	34.82
Throughput (1st burst)	3634.21	3674.00	3710.47	3733.68	3760.21	3780.10	3803.32	3731.61	49.74
Throughput (2nd burst)	3620.94	3683.94	3707.16	3736.99	3766.84	3783.42	3800.00	3734.76	59.68
Simultaneous throughput	2811.23	2854.02	2909.83	3100.74	3262.34	3345.45	3379.74	3098.18	352.51
Total drops	7.00	22.00	28.00	40.50	52.00	71.00	83.00	42.30	24.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	7.00	22.00	28.00	40.50	52.00	71.00	83.00	42.30	24.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	804.60	1158.35	1234.60	1390.97	2557.75	3379.87	1408.88	232.62
IP packet delay variation	-20.05	-19.96	-11.02	-11.00	-10.99	0.00	1668.28	-0.98	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.27	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.29	10.15	12.27	19.16	23.90	30.33	41.72	19.88	11.62
Throughput	304.12	396.54	517.97	661.43	1017.67	1140.18	1363.70	749.18	499.70
Simultaneous throughput	111.50	150.20	171.83	199.88	213.86	227.00	242.86	194.48	42.03
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	11.00	1.95	3.00
Congestion drops	0.00	0.00	0.00	0.00	3.00	4.00	11.00	1.55	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.37	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.90	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.09	8.76	10.24	14.61	19.65	26.32	33.57	16.17	9.40
Throughput	274.03	326.69	452.42	631.88	895.16	1045.61	1300.30	678.41	442.75
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	8.00	1.32	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	7.00	1.00	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.59	8.73	11.13	13.94	18.41	25.10	39.03	16.04	7.29
Throughput	236.42	332.06	474.99	660.90	815.64	947.82	1214.33	664.63	340.66
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	7.00	1.37	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	7.00	1.15	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.80	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.87	9.15	10.78	15.07	19.64	27.64	103.87	18.39	8.86
Throughput	89.19	327.76	468.54	612.00	827.46	946.75	1171.34	637.87	358.93
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.50	3.00	5.00	8.00	1.85	3.00
Congestion drops	0.00	0.00	0.00	0.00	3.00	4.00	8.00	1.70	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.40	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.97	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.48	8.99	11.28	15.16	20.65	24.60	51.85	17.07	9.37
Throughput	177.31	366.45	441.67	608.24	810.27	1012.30	1231.52	645.37	368.60
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.20	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	4.00	0.67	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.43	1.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.13	7.82	10.05	14.99	22.12	26.87	45.39	16.58	12.07
Throughput	203.10	337.43	415.88	614.69	906.99	1174.57	1504.48	699.74	491.10
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.00	2.00	5.00	6.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	6.00	0.90	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.65	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.28	9.38	11.34	15.83	18.77	25.57	45.61	16.68	7.44
Throughput	202.03	349.25	457.79	581.91	800.60	915.58	1265.91	644.13	342.81
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.08	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.70	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.90	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.85	6.24	10.41	15.24	16.80	19.21	25.89	14.12	6.39
Throughput	355.70	469.61	542.69	605.01	851.10	1261.61	1575.40	753.82	308.42
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	8.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	8.00	0.60	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	7.00	0.65	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	6.39	7.04	9.47	11.60	14.79	18.36	29.29	12.46	5.32
Throughput	314.87	484.66	615.76	794.15	954.27	1215.40	1443.22	833.91	338.51
Simultaneous throughput	81.09	109.24	124.97	145.37	155.53	165.09	176.62	141.44	30.57
Total drops	0.00	0.00	0.00	0.50	1.00	2.00	2.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.22	0.00

Link with Medium ARQ Persistency - Enhanced TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5824.48	6250.90	6379.12	6647.08	6804.38	7001.49	7202.73	6609.44	425.26
Fairness of sim. thr. (F+S)	0.82	0.88	0.94	0.98	1.00	1.00	1.00	0.96	0.05
Fairness of sim. thr. (F+S+H)	0.86	0.91	0.94	0.96	0.99	0.99	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.77	0.81	0.84	0.86	0.89	0.90	0.91	0.86	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.86	122.98	129.02	137.81	142.53	146.44	152.31	136.81	13.51
Throughput	2420.06	2477.01	2553.31	2675.28	2842.39	2994.99	3075.58	2705.37	289.07
Simultaneous throughput	810.96	1168.76	1329.69	1622.23	2028.01	2122.73	2257.78	1657.09	698.31
Total drops	4.00	6.00	9.00	10.00	12.00	15.00	17.00	10.45	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	8.00	0.47	0.00
Error drops	3.00	4.00	8.00	10.00	12.00	15.00	16.00	9.97	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.55	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	10.00	11.00	2.27	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.26	141.18	145.79	149.65	155.36	158.57	170.69	150.81	9.57
Throughput	2160.00	2315.82	2368.48	2463.58	2520.00	2595.22	2666.15	2449.56	151.52
Simultaneous throughput	750.74	933.92	1185.54	1315.72	1645.93	1844.73	2100.14	1401.56	460.39
Total drops	8.00	9.00	11.00	14.00	16.00	19.00	21.00	13.72	5.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	9.00	0.70	1.00
Error drops	8.00	9.00	10.00	13.00	16.00	17.00	19.00	13.03	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	3.00	4.00	1.03	1.00
Unnecessary rexmits	0.00	0.00	1.00	1.50	5.00	9.00	21.00	3.67	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	989.05	1125.78	1266.33	1413.67	1521.00	1594.38	1656.04	1386.69	254.68
Total drops	0.00	2.00	3.00	4.00	6.00	9.00	17.00	4.75	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	5.00	12.00	1.35	2.00
Error drops	0.00	2.00	2.00	3.00	4.00	6.00	7.00	3.40	2.00
Spurious RTOs	0.00	1.00	1.00	3.00	4.00	5.00	6.00	2.55	3.00
Unnecessary rexmits	0.00	1.00	1.00	4.50	7.00	11.00	24.00	5.53	6.00
Response time	31.31	36.71	42.21	44.93	47.64	50.24	57.83	44.58	5.44
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3678.97	3695.55	3710.47	3736.17	3748.60	3765.18	3776.79	3732.77	38.13
Throughput (1st burst)	3650.79	3670.68	3703.84	3723.73	3756.89	3773.47	3803.32	3728.38	53.05
Throughput (2nd burst)	3654.10	3690.58	3707.16	3735.34	3770.16	3786.74	3800.00	3737.16	63.00
Simultaneous throughput	2799.96	2855.76	2920.09	3097.66	3255.37	3342.47	3382.72	3098.00	335.28
Total drops	16.00	20.00	32.00	40.50	52.00	65.00	75.00	42.55	20.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	16.00	20.00	32.00	40.50	52.00	65.00	75.00	42.55	20.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	885.79	1175.06	1241.81	1418.28	2561.82	3426.89	1432.54	243.22
IP packet delay variation	-20.05	-19.96	-11.02	-11.00	-10.99	0.00	1682.00	-1.04	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.29	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	9.17	11.18	12.53	19.85	22.71	31.26	50.24	20.20	10.18
Throughput	252.54	389.01	552.36	638.33	963.94	1080.00	1380.90	724.92	411.58
Simultaneous throughput	145.06	165.11	185.73	207.34	223.08	233.84	242.89	203.38	37.35
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.88	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.60	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.42	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	10.00	1.07	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.08	9.94	11.29	14.66	18.28	20.99	34.44	15.24	7.00
Throughput	267.58	432.00	500.78	628.66	794.15	902.69	1302.45	669.22	293.37
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.86	9.42	11.52	16.21	19.35	21.73	30.45	16.32	7.83
Throughput	303.04	379.34	467.46	568.48	776.96	963.94	1172.42	631.29	309.49
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00

Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.55	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.59	9.57	12.65	17.16	20.21	22.11	53.14	17.77	7.56
Throughput	173.01	383.64	443.82	536.78	714.63	913.43	1072.48	589.38	270.81
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.50	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.53	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.18	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.72	10.49	12.63	15.92	19.24	23.24	45.11	17.04	6.61
Throughput	204.18	390.09	465.31	578.69	724.30	862.93	1193.91	615.55	258.99
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.58	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.48	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.64	10.75	12.55	14.79	21.33	24.53	39.13	17.28	8.78
Throughput	235.34	350.33	426.63	623.28	721.07	802.75	1206.81	608.72	294.45
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.58	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.80	10.09	12.53	16.45	19.02	22.96	28.55	16.42	6.49
Throughput	322.39	381.49	474.99	560.42	722.15	897.31	1181.01	620.44	247.16
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.45	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.05	9.36	12.50	16.42	18.17	21.04	35.97	16.04	5.67
Throughput	255.76	436.30	480.36	561.49	696.36	963.94	1144.48	634.30	216.00
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.05	8.07	9.36	12.27	14.38	18.41	20.83	12.45	5.02
Throughput	442.75	472.84	635.10	751.16	967.16	1041.31	1823.64	818.73	332.06
Simultaneous throughput	105.50	120.08	135.07	150.79	162.24	170.07	176.64	147.91	27.17
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	4.00	5.00	0.75	0.00

Link with Medium ARQ Persistency - Enhanced TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5994.21	6157.09	6355.47	6661.42	6853.38	6972.67	7168.14	6627.38	497.92
Fairness of sim. thr. (F+S)	0.85	0.92	0.96	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (F+S+H)	0.88	0.91	0.95	0.98	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.76	0.82	0.85	0.87	0.89	0.90	0.91	0.87	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.99	127.23	133.96	138.32	142.02	145.97	151.49	137.46	8.07
Throughput	2432.96	2496.36	2594.15	2665.07	2748.90	2896.12	3072.36	2689.09	154.75
Simultaneous throughput	1102.27	1181.88	1411.53	1536.80	1864.59	2072.62	2402.19	1640.47	453.06
Total drops	5.00	7.00	8.00	10.00	12.00	15.00	37.00	11.08	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	24.00	1.08	0.00
Error drops	5.00	6.00	8.00	10.00	12.00	13.00	15.00	10.00	4.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	7.00	9.00	2.23	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.02	142.18	144.71	149.08	154.96	159.81	165.69	150.40	10.24
Throughput	2224.48	2282.51	2362.03	2472.72	2539.34	2582.33	2652.18	2456.30	177.31
Simultaneous throughput	670.76	922.06	1191.41	1430.66	1638.27	1889.60	2343.23	1446.67	446.86
Total drops	7.00	9.00	10.00	13.50	16.00	18.00	27.00	13.52	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.47	0.00

Error drops	7.00	9.00	10.00	13.50	16.00	17.00	20.00	13.05	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.30	2.00
Unnecessary rexmits	0.00	0.00	1.00	4.00	8.00	10.00	24.00	4.98	7.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	988.58	1130.24	1256.78	1389.30	1495.38	1574.53	1611.24	1375.33	238.60
Total drops	0.00	1.00	2.00	4.00	6.00	7.00	11.00	4.05	4.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	4.00	6.00	0.70	0.00
Error drops	0.00	1.00	2.00	3.00	5.00	6.00	7.00	3.35	3.00
Spurious RTOs	0.00	1.00	1.00	3.00	4.00	5.00	6.00	2.75	3.00
Unnecessary rexmits	1.00	1.00	2.00	5.00	8.00	12.00	17.00	5.85	6.00
Response time	27.04	33.14	40.27	43.82	46.90	53.73	71.12	44.03	6.62
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3669.02	3695.55	3713.79	3735.34	3748.60	3770.16	3791.71	3732.36	34.81
Throughput (1st burst)	3657.42	3677.31	3697.21	3727.05	3766.84	3773.47	3803.32	3730.70	69.63
Throughput (2nd burst)	3627.57	3693.89	3700.52	3730.36	3763.53	3790.05	3803.32	3734.01	63.01
Simultaneous throughput	2808.75	2863.33	2912.16	3099.93	3255.37	3349.90	3382.72	3097.54	343.21
Total drops	7.00	20.00	32.00	41.00	52.00	63.00	81.00	42.80	20.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	7.00	20.00	32.00	41.00	52.00	63.00	81.00	42.80	20.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.22	897.25	1175.31	1242.38	1405.55	2567.02	3425.54	1435.98	230.24
IP packet delay variation	-20.23	-19.96	-11.02	-11.00	-10.99	0.00	1668.16	-0.95	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	6.00	1.25	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.79	12.19	13.44	17.99	21.00	25.08	33.50	18.37	7.57
Throughput	378.27	498.63	594.27	704.42	913.43	1023.04	1625.91	758.07	319.16
Simultaneous throughput	144.99	165.77	184.33	203.76	219.32	230.93	236.32	201.72	34.99
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.58	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.32	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.65	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.22	10.27	11.21	15.89	17.97	21.55	32.82	15.74	6.76
Throughput	280.48	405.13	507.22	580.30	815.64	858.63	1276.66	652.08	308.42
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.38	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.33	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.45	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.65	9.71	11.56	15.71	18.32	21.56	40.21	15.94	6.76
Throughput	228.90	426.63	497.55	586.75	797.37	937.07	1204.66	648.08	299.82
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.62	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.57	10.33	11.84	17.34	20.75	24.66	69.07	18.34	8.91
Throughput	133.25	372.90	421.25	531.40	776.96	867.22	1075.70	591.02	355.70
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.45	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.30	2.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.45	9.96	12.25	16.40	20.76	23.85	28.33	16.83	8.51
Throughput	325.61	384.72	421.25	562.03	736.12	912.36	1428.18	615.95	314.87
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.37	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.59	9.65	11.68	16.92	20.00	21.60	34.16	16.40	8.31
Throughput	269.73	424.48	453.49	544.84	782.33	936.00	1399.16	630.05	328.84
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.43	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.42	1.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.02	9.40	11.69	15.78	19.86	22.07	31.27	15.79	8.17

Throughput	294.45	413.73	457.79	584.06	775.88	939.22	1313.19	653.21	318.09
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.27	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	4.00	4.00	0.65	1.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.38	8.73	10.25	16.02	20.01	22.10	41.83	16.20	9.76
Throughput	220.30	411.58	457.79	575.46	794.15	990.81	1249.79	651.63	336.36
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.40	1.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	1.00	1.00	0.50	1.00
Unnecessary retransmissions	0.00	0.00	0.00	1.00	1.00	4.00	5.00	1.13	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.14	8.09	9.72	11.17	13.22	14.68	21.43	11.70	3.50
Throughput	429.85	617.91	694.21	824.78	933.85	1134.81	1501.25	844.25	239.64
Simultaneous throughput	105.45	120.56	134.06	148.19	159.51	167.95	171.87	146.70	25.45
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.47	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.47	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00

Link with Low ARQ Persistency - Baseline TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5474.66	5655.08	5781.28	6235.02	6394.93	6590.29	7089.12	6171.31	613.65
Fairness of sim. thr. (F+S)	0.80	0.91	0.97	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.84	0.91	0.95	0.98	0.99	1.00	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.85	0.86	0.89	0.90	0.91	0.93	0.93	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	118.89	131.15	138.61	145.66	153.15	159.84	167.10	145.56	14.54
Throughput	2206.21	2297.55	2397.49	2530.75	2632.84	2784.36	3100.30	2546.97	235.34
Simultaneous throughput	1156.55	1260.32	1519.89	1750.46	2133.73	2312.85	2404.59	1786.20	613.84
Total drops	24.00	26.00	30.00	33.00	42.00	48.00	69.00	36.43	12.00
Congestion drops	0.00	0.00	1.00	3.50	14.00	18.00	38.00	7.55	13.00
Error drops	19.00	21.00	26.00	30.00	31.00	33.00	43.00	28.88	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	3.00	0.62	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.67	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	138.99	147.79	153.04	158.03	167.62	172.24	180.02	159.80	14.58
Throughput	2048.24	2128.84	2173.97	2333.01	2392.12	2485.61	2652.18	2315.28	218.15
Simultaneous throughput	777.85	1110.90	1345.30	1546.55	1727.95	1838.90	2080.41	1521.30	382.65
Total drops	27.00	29.00	31.00	37.50	41.00	48.00	53.00	37.77	10.00
Congestion drops	0.00	0.00	1.00	3.00	12.00	15.00	20.00	6.00	11.00
Error drops	24.00	25.00	27.00	32.00	35.00	39.00	43.00	31.77	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.32	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	7.00	11.00	3.13	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.35	1085.97	1256.10	1391.56	1499.91	1586.38	1652.05	1376.43	243.81
Total drops	4.00	8.00	10.00	14.50	18.00	22.00	30.00	14.77	8.00
Congestion drops	0.00	0.00	2.00	5.50	11.00	13.00	17.00	6.20	9.00
Error drops	0.00	3.00	5.00	9.00	11.00	14.00	16.00	8.57	6.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	3.00	0.75	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.43	2.00
Response time	24.85	31.57	37.18	42.89	47.55	53.47	72.37	43.33	10.37
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3125.22	3294.33	3425.31	3498.26	3531.41	3551.31	3697.21	3468.45	106.10
Throughput (1st burst)	2911.34	3153.40	3236.30	3446.86	3511.52	3541.36	3660.73	3393.14	275.22
Throughput (2nd burst)	3232.98	3402.09	3475.04	3551.31	3620.94	3664.05	3733.68	3543.77	145.90
Simultaneous throughput	2575.17	2656.34	2698.97	2864.04	3042.90	3101.54	3246.89	2877.97	343.93
Total drops	64.00	138.00	163.00	184.00	223.00	290.00	409.00	201.97	60.00
Congestion drops	0.00	7.00	31.00	57.00	87.00	168.00	226.00	70.73	56.00
Error drops	47.00	84.00	99.00	132.00	155.00	183.00	216.00	131.25	56.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	578.24	909.84	1434.71	2008.79	2511.05	3479.60	1499.87	1098.94
IP packet delay variation	-20.04	-19.94	-11.01	-11.00	-10.99	0.00	1069.01	-0.39	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	4.00	41.00	2.10	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.97	7.99	10.99	18.06	24.29	28.23	42.46	19.07	13.30
Throughput	298.75	437.37	512.60	701.73	904.84	1463.64	2123.46	823.16	392.24
Simultaneous throughput	145.69	159.27	184.23	204.10	219.99	232.67	242.30	201.88	35.76
Total drops	0.00	0.00	1.00	2.00	4.00	6.00	9.00	2.60	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	5.00	7.00	1.52	3.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.08	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.98	8.88	11.58	17.84	22.51	26.96	42.21	18.00	10.93
Throughput	218.15	339.58	406.21	516.36	784.48	1016.60	1319.64	618.37	378.27
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	2.00	3.00	3.00	6.00	1.70	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.87	2.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.82	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.28	8.16	13.09	16.82	22.10	27.20	67.10	19.06	9.01
Throughput	137.55	308.42	384.72	549.13	690.99	956.42	1266.99	597.81	306.27
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.20	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	5.00	1.07	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.76	9.56	11.75	19.27	21.60	31.25	42.02	19.06	9.85
Throughput	219.22	290.15	385.79	478.21	778.03	939.22	1187.46	578.58	392.24
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	1.00	2.00	3.00	4.00	6.00	2.15	2.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	6.00	1.53	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.80	7.67	9.83	12.85	16.71	21.02	28.13	13.74	6.88
Throughput	327.76	435.22	549.13	717.85	937.07	1185.31	1354.03	761.83	387.94
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	3.00	0.92	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.67	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.59	9.30	10.25	12.77	19.65	27.41	36.27	15.71	9.40
Throughput	253.61	327.76	455.64	722.69	880.12	981.13	1399.16	695.31	424.48
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.40	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.15	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.91	8.59	10.09	12.40	17.50	20.19	28.47	13.95	7.41
Throughput	323.46	441.67	521.19	743.64	905.91	1026.27	1877.37	749.77	384.72
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	1.00	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.85	7.92	9.45	12.71	15.60	22.73	30.74	13.69	6.15
Throughput	299.82	404.06	577.07	725.37	965.01	1106.87	1902.09	792.54	387.94
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.05	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.24	6.00	8.58	10.56	14.47	18.49	24.66	11.59	5.89
Throughput	373.97	473.91	632.96	872.06	1063.88	1464.72	2173.97	930.39	430.93
Simultaneous throughput	105.96	115.84	133.98	148.43	159.99	169.21	176.22	146.82	26.01
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.10	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00

Link with Low ARQ Persistency - Baseline TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5057.72	5534.17	5791.34	6146.63	6372.00	6612.02	6870.71	6098.02	580.66
Fairness of sim. thr. (F+S)	0.60	0.86	0.97	0.99	1.00	1.00	1.00	0.96	0.03
Fairness of sim. thr. (F+S+H)	0.66	0.87	0.95	0.98	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.74	0.84	0.88	0.92	0.93	0.94	0.95	0.90	0.05

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.04	130.33	137.87	143.98	152.03	158.50	172.07	145.21	14.16
Throughput	2142.81	2313.67	2387.82	2560.30	2666.15	2777.91	3020.78	2552.48	278.33
Simultaneous throughput	1288.04	1382.54	1538.99	1704.70	1970.70	2343.27	2665.79	1792.44	431.72
Total drops	20.00	24.00	30.00	38.00	43.00	46.00	63.00	37.30	13.00
Congestion drops	0.00	0.00	1.00	4.50	13.00	21.00	30.00	7.85	12.00
Error drops	19.00	23.00	25.00	28.50	32.00	37.00	43.00	29.45	7.00
Spurious RTOs	0.00	0.00	0.00	0.50	1.00	2.00	3.00	0.72	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	5.00	9.00	1.67	2.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.28	146.45	151.36	158.78	168.88	174.67	192.46	160.80	17.52
Throughput	1914.99	2091.22	2166.45	2321.73	2407.16	2490.99	2590.93	2303.49	240.72
Simultaneous throughput	259.57	858.54	1264.17	1478.56	1707.35	1999.41	2173.69	1464.53	443.18
Total drops	20.00	29.00	33.00	39.00	42.00	47.00	56.00	38.50	9.00
Congestion drops	0.00	0.00	0.00	2.50	11.00	17.00	24.00	6.05	11.00
Error drops	18.00	26.00	27.00	32.00	37.00	39.00	42.00	32.45	10.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.18	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	7.00	12.00	3.28	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	990.83	1126.80	1297.71	1447.93	1515.43	1617.12	1651.04	1412.64	217.73
Total drops	5.00	7.00	10.00	15.50	18.00	22.00	31.00	15.30	8.00
Congestion drops	0.00	0.00	2.00	4.00	10.00	12.00	21.00	5.70	8.00
Error drops	2.00	4.00	6.00	8.50	12.00	16.00	21.00	9.60	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	2.00	4.00	5.00	1.20	2.00
Response time	23.80	29.82	35.72	38.84	42.85	49.68	64.82	40.16	7.13
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	2957.77	3055.58	3169.98	3355.67	3488.31	3539.70	3649.13	3324.13	318.33
Throughput (1st burst)	2599.65	2629.49	2874.87	3141.80	3421.99	3468.41	3693.89	3135.66	547.12
Throughput (2nd burst)	2917.98	3279.41	3461.78	3554.62	3624.26	3674.00	3727.05	3512.60	162.48
Simultaneous throughput	2414.28	2509.02	2601.88	2713.76	2933.52	3051.30	3128.36	2757.62	331.63
Total drops	93.00	150.00	187.00	270.00	366.00	440.00	510.00	289.02	179.00
Congestion drops	0.00	13.00	70.00	153.00	236.00	323.00	421.00	163.43	166.00
Error drops	60.00	82.00	94.00	116.50	148.00	181.00	209.00	125.60	54.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	494.27	792.48	1207.26	1760.40	2315.93	3470.82	1323.89	967.92
IP packet delay variation	-20.41	-19.94	-11.01	-11.00	-10.98	0.00	977.07	0.01	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	183.00	2.41	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.42	10.29	14.84	19.26	24.37	32.58	41.43	20.74	9.52
Throughput	306.27	384.72	479.28	658.21	805.97	1035.94	1974.09	729.16	326.69
Simultaneous throughput	145.32	165.26	190.33	212.36	222.26	237.18	242.15	207.19	31.93
Total drops	0.00	0.00	1.00	3.00	4.00	6.00	8.00	3.00	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	1.15	2.00
Error drops	0.00	0.00	1.00	2.00	3.00	4.00	4.00	1.85	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.29	7.58	10.77	16.30	20.14	30.10	63.49	17.88	9.37
Throughput	145.07	291.22	456.72	565.79	852.18	974.69	1465.79	658.88	395.46
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	2.00	3.00	5.00	8.00	2.03	3.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	3.00	4.00	0.97	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	8.00	1.05	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.05	9.33	10.31	15.63	20.95	24.03	37.38	16.79	10.63
Throughput	246.09	381.49	424.48	589.97	845.73	980.06	1307.82	650.34	421.25
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.68	3.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.07	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.33	9.78	11.55	16.82	22.52	30.43	35.97	18.23	10.97
Throughput	255.76	292.30	406.21	548.06	792.00	913.43	1257.31	607.46	385.79
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	1.00	1.00	4.00	5.00	6.00	2.18	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.30	3.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.88	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.24	6.64	7.68	11.78	17.19	21.01	30.56	13.31	9.51
Throughput	301.97	354.63	521.19	782.87	1160.60	1356.18	2176.12	865.91	639.40
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.48	2.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.30	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.03	6.91	9.99	12.78	17.10	21.10	29.18	13.96	7.10
Throughput	315.94	411.58	531.94	721.61	889.79	1213.25	1831.16	789.77	357.85
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.63	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.38	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.25	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.72	6.79	9.32	12.83	14.23	19.05	25.96	12.91	4.91
Throughput	354.63	479.28	641.55	718.39	968.24	1087.52	1951.52	817.31	326.69
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.03	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.22	6.99	9.20	12.16	13.93	18.65	32.98	12.54	4.72
Throughput	279.40	450.27	626.51	758.15	990.81	1301.37	2186.87	861.99	364.30
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	3.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	3.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.96	5.08	8.06	10.22	12.77	16.03	21.25	10.63	4.71
Throughput	433.07	540.54	707.10	901.61	1122.99	1613.01	2328.72	1006.79	415.88
Simultaneous throughput	105.69	120.19	138.42	154.45	161.65	172.49	176.11	150.68	23.22
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	0.92	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.77	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00

Link with Low ARQ Persistency - Baseline TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5333.52	5541.39	5854.64	6001.45	6315.21	6599.72	6788.21	6073.84	460.58
Fairness of sim. thr. (F+S)	0.85	0.91	0.94	0.98	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (F+S+H)	0.87	0.90	0.94	0.97	0.98	0.99	1.00	0.96	0.05
Fairness of sim. thr. (all)	0.81	0.84	0.86	0.88	0.90	0.91	0.93	0.88	0.05
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.46	129.74	137.91	144.28	150.92	155.68	164.31	144.10	13.01
Throughput	2243.82	2323.34	2437.25	2554.93	2647.88	2794.03	3192.72	2571.88	210.63
Simultaneous throughput	1224.92	1278.15	1556.74	1865.44	2045.51	2304.65	2538.98	1820.41	488.77
Total drops	19.00	26.00	30.00	35.00	41.00	46.00	55.00	35.57	11.00
Congestion drops	0.00	0.00	0.00	3.50	13.00	19.00	24.00	6.80	13.00
Error drops	19.00	22.00	25.00	29.00	32.00	35.00	41.00	28.78	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.88	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	4.00	8.00	1.78	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	145.51	148.40	155.89	164.20	168.50	177.67	185.33	163.07	12.61
Throughput	1989.13	2069.73	2182.57	2245.43	2350.21	2455.52	2532.90	2268.99	167.64
Simultaneous throughput	825.82	986.48	1212.30	1334.29	1448.45	1693.10	2058.37	1360.50	236.14
Total drops	20.00	28.00	34.00	37.00	41.00	49.00	57.00	37.98	7.00
Congestion drops	0.00	0.00	0.00	1.00	11.00	18.00	22.00	5.47	11.00
Error drops	20.00	23.00	28.00	33.50	37.00	39.00	44.00	32.50	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.28	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	7.00	16.00	3.15	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	723.08	1024.03	1264.82	1416.31	1492.45	1568.57	1649.95	1362.44	227.62
Total drops	1.00	5.00	8.00	12.50	15.00	19.00	25.00	12.27	7.00
Congestion drops	0.00	0.00	0.00	2.50	7.00	12.00	19.00	4.20	7.00
Error drops	0.00	3.00	5.00	8.00	11.00	13.00	15.00	8.07	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	3.00	3.00	5.00	1.55	3.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	6.00	6.00	11.00	3.07	5.00
Response time	25.32	31.79	36.37	43.11	50.73	52.26	106.48	45.51	14.36
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3350.70	3450.17	3496.60	3569.55	3619.28	3649.13	3728.71	3561.92	122.68
Throughput (1st burst)	3299.30	3461.78	3491.62	3546.34	3660.73	3690.58	3770.16	3566.15	169.11
Throughput (2nd burst)	3335.78	3405.41	3471.73	3576.18	3624.26	3680.63	3750.26	3557.69	152.53
Simultaneous throughput	2597.02	2685.10	2811.70	2966.56	3061.00	3196.39	3274.55	2956.12	249.30
Total drops	45.00	88.00	99.00	141.00	181.00	201.00	273.00	145.60	82.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	45.00	88.00	99.00	141.00	181.00	201.00	273.00	145.60	82.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	530.52	838.74	1193.48	1280.86	1732.55	2090.43	1121.38	442.12
IP packet delay variation	-20.04	-19.94	-11.01	-11.00	-10.98	0.00	977.01	-0.46	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	8.00	1.55	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.48	9.66	14.32	20.96	25.06	30.90	39.89	20.91	10.75
Throughput	318.09	399.76	455.64	604.48	884.42	1298.15	1494.81	719.03	428.78
Simultaneous throughput	106.05	150.19	185.51	207.72	218.89	230.06	241.99	199.82	33.38
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.97	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.33	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.40	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.65	7.61	12.73	20.32	24.71	30.46	40.61	20.31	11.98
Throughput	226.75	299.82	365.37	453.49	683.46	1115.46	1386.27	564.72	318.09
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	7.00	2.18	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	7.00	1.00	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.94	7.94	10.18	18.26	24.22	28.62	33.08	18.25	14.04
Throughput	278.33	321.31	365.37	504.54	810.27	1063.88	1329.31	616.08	444.90
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	5.00	1.57	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	0.90	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.55	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.01	9.22	11.47	17.12	21.06	25.77	35.47	17.42	9.60
Throughput	260.06	347.10	430.93	538.93	790.93	931.70	1150.93	606.65	360.00
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.47	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	6.00	0.97	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.50	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.35	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.60	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.41	7.77	10.23	13.69	16.95	29.31	88.53	16.82	6.72
Throughput	104.24	301.97	527.64	673.25	889.79	1114.39	1703.28	735.07	362.15
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.13	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	1.00	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.45	7.52	11.05	14.51	17.91	22.81	42.34	15.32	6.86
Throughput	218.15	372.90	511.52	635.10	831.76	1168.12	2069.73	729.40	320.24
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	1.50	2.00	3.00	5.00	1.40	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.32	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.60	7.39	10.53	13.07	17.26	22.38	53.25	15.07	6.73
Throughput	173.01	350.33	514.75	705.49	869.37	1103.64	1395.94	730.42	354.63
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.93	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.32	7.58	8.73	11.63	17.19	20.31	24.68	13.17	8.47
Throughput	373.97	445.97	516.90	792.54	1035.94	1142.33	1731.22	815.02	519.04
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.70	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.33	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	4.79	6.49	8.13	10.57	12.42	15.70	24.00	11.07	4.28
Throughput	383.64	519.04	698.51	872.06	1125.13	1394.87	1925.73	934.95	426.63
Simultaneous throughput	77.13	109.23	134.91	151.07	159.19	167.31	175.99	145.33	24.28
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.57	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00

Link with Low ARQ Persistency - Baseline TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	4976.48	5489.56	5721.47	6220.51	6407.40	6524.24	6973.53	6091.19	685.93
Fairness of sim. thr. (F+S)	0.71	0.90	0.95	0.99	1.00	1.00	1.00	0.97	0.04
Fairness of sim. thr. (F+S+H)	0.79	0.92	0.95	0.98	0.99	0.99	1.00	0.96	0.03
Fairness of sim. thr. (all)	0.80	0.82	0.86	0.88	0.90	0.92	0.94	0.88	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	126.54	132.21	140.95	147.92	152.56	158.29	169.51	146.92	11.61
Throughput	2175.04	2278.21	2415.76	2492.06	2605.97	2766.09	2913.31	2520.51	190.21
Simultaneous throughput	850.01	1245.48	1519.96	1700.30	1905.95	2071.99	2703.15	1717.91	385.99
Total drops	21.00	22.00	27.00	32.50	37.00	45.00	54.00	33.10	10.00
Congestion drops	0.00	0.00	0.00	1.00	11.00	16.00	26.00	5.65	11.00
Error drops	20.00	21.00	24.00	27.00	30.00	35.00	38.00	27.45	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.70	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	10.00	2.10	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.51	151.02	153.91	158.79	170.20	179.01	198.60	162.86	16.29
Throughput	1855.88	2048.24	2152.48	2321.73	2387.82	2439.40	2586.63	2275.36	235.34
Simultaneous throughput	542.31	908.52	1134.55	1323.74	1757.80	1913.47	2200.60	1426.63	623.25
Total drops	23.00	28.00	32.00	36.50	43.00	48.00	56.00	37.92	11.00
Congestion drops	0.00	0.00	0.00	2.00	6.00	13.00	19.00	4.15	6.00
Error drops	20.00	25.00	29.00	34.50	38.00	41.00	46.00	33.77	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.87	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	4.00	5.00	6.00	2.13	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.81	1129.76	1299.51	1416.75	1514.19	1605.82	1665.64	1398.80	214.68
Total drops	2.00	6.00	7.00	10.00	12.00	15.00	20.00	10.10	5.00
Congestion drops	0.00	0.00	0.00	1.50	4.00	7.00	11.00	2.47	4.00
Error drops	2.00	4.00	4.00	7.00	10.00	12.00	15.00	7.62	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.93	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	4.00	8.00	1.97	3.00
Response time	24.40	30.74	35.89	39.96	43.68	49.20	53.15	39.80	7.79
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3393.80	3453.49	3501.57	3575.35	3609.34	3642.50	3710.47	3562.33	107.77
Throughput (1st burst)	3322.51	3445.20	3504.89	3562.91	3627.57	3687.26	3756.89	3567.39	122.68
Throughput (2nd burst)	3392.15	3438.57	3465.10	3552.97	3630.89	3670.68	3707.16	3557.28	165.79
Simultaneous throughput	2630.43	2713.49	2795.41	2970.48	3081.28	3206.84	3272.64	2956.67	285.87
Total drops	56.00	94.00	115.00	137.50	167.00	194.00	247.00	145.35	52.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	56.00	94.00	115.00	137.50	167.00	194.00	247.00	145.35	52.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	513.31	785.23	1178.46	1273.64	1688.56	2085.72	1093.78	488.41
IP packet delay variation	-20.04	-19.94	-11.01	-11.00	-10.98	0.01	925.00	-0.50	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	9.00	1.56	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.51	10.35	14.31	19.73	22.32	28.85	41.21	19.75	8.01
Throughput	307.34	395.46	550.21	642.09	872.60	1203.58	1688.24	758.85	322.39
Simultaneous throughput	145.76	165.70	190.59	207.79	222.08	235.52	244.29	205.16	31.49
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	6.00	1.80	3.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.77	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.03	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.81	7.59	11.47	16.38	18.23	25.43	37.19	16.35	6.76
Throughput	248.24	347.10	481.43	563.64	790.93	1130.51	1354.03	662.00	309.49
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	6.00	1.12	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.55	8.65	11.01	15.10	20.28	27.22	51.94	17.40	9.27
Throughput	177.31	322.39	407.28	610.39	829.61	1047.76	1220.78	649.96	422.33
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	4.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.45	0.00

Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.17	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.37	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.80	8.37	10.87	16.50	22.45	30.11	37.50	17.85	11.58
Throughput	246.09	304.12	401.91	559.34	842.51	989.73	1181.01	623.34	440.60
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	2.00	2.00	4.00	5.00	1.65	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.80	2.00
Error drops	0.00	0.00	0.00	0.00	2.00	2.00	3.00	0.85	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.07	7.94	8.51	13.35	15.76	23.14	34.44	14.17	7.26
Throughput	267.58	354.63	584.60	690.45	1046.69	1159.52	1818.27	792.89	462.09
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.03	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.20	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.38	5.69	9.39	11.33	16.02	19.42	24.00	12.51	6.62
Throughput	383.64	464.24	565.25	813.49	981.13	1471.16	2105.19	874.64	415.88
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	0.95	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	0.95	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.58	7.49	9.50	11.78	16.33	21.82	26.91	13.57	6.83
Throughput	342.81	420.18	560.96	782.87	900.54	1229.37	1650.63	791.70	339.58
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.20	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.20	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.20	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.55	6.56	9.28	11.80	13.95	17.38	25.62	12.03	4.68
Throughput	360.00	525.49	631.88	781.79	982.21	1399.16	1660.30	868.92	350.33
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.67	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.89	5.61	7.99	9.56	12.27	16.30	20.48	10.50	4.28
Throughput	450.27	502.93	718.93	963.94	1148.78	1636.66	1884.90	1005.64	429.85
Simultaneous throughput	106.01	120.51	138.61	151.12	161.51	171.29	177.67	149.21	22.90
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.58	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.55	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00

Link with Low ARQ Persistency - Baseline TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5197.19	5492.77	5795.00	6156.86	6401.32	6731.24	6920.61	6113.31	606.32
Fairness of sim. thr. (F+S)	0.85	0.94	0.96	0.98	0.99	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.86	0.90	0.96	0.97	0.99	0.99	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.83	0.86	0.87	0.89	0.90	0.91	0.93	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	114.69	128.11	141.01	148.51	152.53	154.23	161.41	145.73	11.52
Throughput	2283.58	2354.51	2415.76	2482.39	2592.00	2771.46	3214.21	2541.87	176.24
Simultaneous throughput	1327.36	1368.11	1579.59	1735.08	1941.53	2195.18	2734.46	1790.00	361.93
Total drops	15.00	22.00	27.00	31.50	37.00	45.00	49.00	32.55	10.00
Congestion drops	0.00	0.00	0.00	0.50	7.00	15.00	22.00	4.58	7.00
Error drops	15.00	21.00	25.00	28.00	31.00	33.00	41.00	27.97	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.87	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	10.00	2.02	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.76	146.77	151.96	159.95	169.22	178.26	188.47	162.26	17.26
Throughput	1955.82	2046.09	2164.30	2304.54	2383.52	2501.73	2582.33	2283.29	219.22
Simultaneous throughput	1013.25	1053.06	1200.97	1353.28	1646.41	1794.23	2090.69	1424.67	445.44
Total drops	25.00	29.00	30.00	36.00	40.00	49.00	65.00	37.87	10.00
Congestion drops	0.00	0.00	0.00	0.00	9.00	19.00	25.00	5.45	9.00

Error drops	18.00	27.00	29.00	31.00	35.00	40.00	47.00	32.43	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.02	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	8.00	9.00	2.45	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.15	1128.65	1300.45	1423.90	1518.84	1605.68	1647.20	1396.83	218.40
Total drops	1.00	4.00	6.00	8.00	11.00	15.00	18.00	8.75	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.17	0.00
Error drops	1.00	3.00	6.00	8.00	11.00	15.00	17.00	8.57	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.05	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	9.00	2.70	4.00
Response time	24.12	33.37	37.04	40.27	43.64	50.34	59.39	41.34	6.60
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3433.60	3445.20	3498.25	3576.18	3620.94	3647.47	3723.73	3562.87	122.69
Throughput (1st burst)	3382.20	3428.62	3491.62	3547.99	3647.47	3690.58	3756.89	3566.40	155.85
Throughput (2nd burst)	3349.04	3431.94	3488.31	3559.60	3634.21	3680.63	3727.05	3559.35	145.90
Simultaneous throughput	2656.72	2713.02	2788.00	2963.55	3082.73	3213.12	3274.13	2957.07	294.73
Total drops	48.00	93.00	108.00	137.00	172.00	208.00	223.00	145.02	64.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	48.00	93.00	108.00	137.00	172.00	208.00	223.00	145.02	64.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	525.54	826.30	1191.84	1281.28	1756.40	2091.50	1118.97	454.98
IP packet delay variation	-20.08	-19.94	-11.01	-11.00	-10.99	0.00	905.06	-0.45	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	9.00	1.60	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.25	9.64	12.76	16.27	20.85	23.43	46.55	17.59	8.10
Throughput	271.88	449.19	605.01	779.10	934.93	1291.70	1747.34	832.97	329.91
Simultaneous throughput	145.66	165.53	190.73	208.84	222.76	235.50	241.59	204.87	32.03
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.48	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	4.00	7.00	1.45	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.00	9.21	13.35	16.91	19.97	22.53	31.85	16.79	6.62
Throughput	289.07	405.13	456.72	545.37	665.19	915.58	1317.49	618.74	208.48
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.05	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.42	7.88	12.51	17.45	21.22	24.34	35.76	17.91	8.71
Throughput	257.91	333.13	421.25	528.18	640.48	914.51	1242.27	595.13	219.22
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	6.00	1.05	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.36	8.78	11.60	16.77	19.05	22.09	25.14	16.13	7.46
Throughput	366.45	396.54	461.01	549.67	758.69	937.07	1253.01	635.37	297.67
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.77	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.77	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.70	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.16	8.63	10.74	14.09	19.09	22.20	26.02	15.14	8.34
Throughput	354.63	409.43	472.84	653.91	854.33	1054.21	1495.88	694.59	381.49
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	3.00	0.80	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.92	8.68	10.24	11.62	14.94	19.36	39.46	13.60	4.70
Throughput	233.19	445.97	608.24	793.07	881.19	1049.91	1556.06	783.08	272.96
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	7.00	0.58	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.75	9.25	10.49	13.65	16.92	20.24	27.11	14.41	6.43

Throughput	339.58	430.93	531.94	674.87	844.66	945.67	1603.34	704.66	312.72
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.59	8.00	11.01	13.14	15.41	18.11	31.84	13.72	4.40
Throughput	289.07	487.88	589.97	701.19	828.54	1110.09	1398.09	745.79	238.57
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.95	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.53	5.78	8.40	11.55	13.73	16.85	22.90	11.57	5.33
Throughput	401.91	541.61	659.82	798.45	1089.67	1446.45	2034.27	918.81	429.85
Simultaneous throughput	105.94	120.39	138.71	151.88	162.01	171.27	175.70	149.00	23.30
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.97	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00

Link with Low ARQ Persistency - Baseline TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5322.54	5614.26	5891.55	6148.30	6421.52	6556.17	7116.55	6162.09	529.97
Fairness of sim. thr. (F+S)	0.87	0.92	0.96	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.88	0.92	0.95	0.97	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.83	0.85	0.87	0.90	0.91	0.92	0.93	0.89	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.17	125.77	139.37	146.27	150.60	158.53	175.42	146.22	11.22
Throughput	2100.90	2271.76	2377.07	2520.00	2642.51	2734.93	2992.84	2536.44	265.43
Simultaneous throughput	1094.86	1336.79	1521.80	1736.46	1955.27	2159.80	2522.22	1747.34	433.47
Total drops	14.00	20.00	27.00	32.00	41.00	47.00	50.00	33.50	14.00
Congestion drops	0.00	0.00	0.00	0.00	7.00	18.00	22.00	5.22	7.00
Error drops	14.00	16.00	25.00	28.50	32.00	39.00	45.00	28.28	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	3.00	1.13	2.00
Unnecessary rexmits	0.00	0.00	0.00	1.50	4.00	7.00	10.00	2.60	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	139.05	147.65	153.70	160.08	166.44	173.22	185.61	160.77	12.74
Throughput	1985.91	2109.49	2212.66	2302.93	2398.57	2463.04	2651.10	2301.77	185.91
Simultaneous throughput	883.73	993.52	1236.60	1435.34	1627.32	1815.27	2268.31	1455.59	390.72
Total drops	23.00	26.00	31.00	37.00	41.00	46.00	51.00	36.22	10.00
Congestion drops	0.00	0.00	0.00	0.00	6.00	15.00	20.00	4.33	6.00
Error drops	23.00	23.00	28.00	31.00	37.00	38.00	49.00	31.90	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	3.00	6.00	1.08	1.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	4.00	6.00	10.00	2.40	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.77	1128.04	1266.38	1419.18	1547.14	1605.32	1646.05	1398.13	280.76
Total drops	3.00	4.00	6.00	8.00	11.00	13.00	19.00	8.83	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	3.00	4.00	6.00	8.00	11.00	13.00	19.00	8.80	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.02	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.00	3.00	6.00	8.00	2.25	3.00
Response time	22.70	34.45	37.38	41.97	44.27	48.33	54.31	41.15	6.89
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3358.99	3440.23	3509.86	3581.15	3619.28	3640.84	3712.13	3562.62	109.42
Throughput (1st burst)	3266.14	3431.94	3481.68	3566.23	3624.26	3687.26	3753.58	3561.92	142.58
Throughput (2nd burst)	3362.30	3438.57	3481.68	3567.89	3637.52	3677.31	3730.37	3563.33	155.84
Simultaneous throughput	2603.44	2683.81	2811.08	2974.30	3088.52	3206.84	3286.03	2956.98	277.44
Total drops	55.00	90.00	111.00	134.00	171.00	214.00	268.00	145.18	60.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	55.00	90.00	111.00	134.00	171.00	214.00	268.00	145.18	60.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	543.48	854.40	1194.65	1282.42	1770.92	2091.95	1129.34	428.02
IP packet delay variation	-20.04	-19.94	-11.01	-11.00	-10.99	0.00	905.01	-0.51	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	8.00	1.54	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.66	7.89	12.35	18.48	21.20	27.87	39.20	18.16	8.85
Throughput	323.46	426.63	592.12	687.22	1016.60	1387.34	1903.16	846.62	424.48
Simultaneous throughput	145.75	165.45	185.74	208.15	226.91	235.45	241.42	205.06	41.18
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.42	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.42	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.23	7.95	11.17	14.59	17.18	29.34	44.57	16.15	6.01
Throughput	206.33	300.90	522.27	631.88	818.87	1021.97	1480.84	680.45	296.60
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.87	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.87	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.48	8.44	13.84	16.53	19.03	21.51	30.79	16.36	5.19
Throughput	298.75	407.28	477.13	557.73	659.82	899.46	1422.81	627.61	182.69
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.39	9.16	13.49	17.04	20.68	26.06	53.94	18.75	7.19
Throughput	170.87	294.45	437.37	540.54	677.01	899.46	1246.57	591.96	239.64
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	4.00	0.97	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.37	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.47	10.65	11.64	14.27	16.80	23.57	33.94	15.54	5.15
Throughput	271.88	383.64	542.69	645.85	778.03	845.73	1233.67	655.33	235.34
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.18	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.73	7.83	9.98	12.88	17.34	20.44	28.67	14.07	7.36
Throughput	321.31	442.75	530.87	715.70	864.00	1145.55	1369.07	738.89	333.13
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	0.98	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	0.98	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	6.00	0.30	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.91	8.56	10.86	13.57	16.20	22.20	30.38	14.27	5.34
Throughput	303.04	410.51	567.40	679.16	845.73	976.84	1333.61	718.71	278.33
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.05	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	8.00	0.45	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.17	7.37	8.50	11.65	15.63	18.20	23.36	12.38	7.13
Throughput	394.39	501.85	581.37	793.07	1075.70	1215.40	1783.88	851.24	494.33
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.60	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.04	5.90	7.61	10.60	14.98	17.30	24.12	11.72	7.36
Throughput	382.57	481.43	611.46	870.99	1200.36	1472.24	1827.94	931.81	588.90
Simultaneous throughput	106.00	120.32	135.08	151.38	165.03	171.23	175.58	149.13	29.95
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.83	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.83	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00

Link with Low ARQ Persistency - Enhanced TCP									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5108.48	5827.43	6021.20	6208.46	6414.94	6500.02	6893.46	6188.74	393.75
Fairness of sim. thr. (F+S)	0.92	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.92	0.93	0.96	0.97	0.99	1.00	1.00	0.97	0.03
Fairness of sim. thr. (all)	0.83	0.85	0.88	0.90	0.91	0.93	0.94	0.89	0.04

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	117.72	132.07	140.76	150.04	153.35	154.71	161.90	147.11	12.59
Throughput	2277.13	2373.85	2398.57	2457.13	2589.85	2672.60	3131.46	2516.80	191.28
Simultaneous throughput	1169.76	1256.63	1470.62	1626.42	1809.77	2172.25	2392.29	1675.75	339.15
Total drops	22.00	25.00	27.00	29.50	35.00	40.00	63.00	31.90	8.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	7.00	37.00	2.80	2.00
Error drops	21.00	22.00	26.00	28.50	32.00	36.00	37.00	29.10	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.40	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	6.00	7.00	11.00	3.72	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	142.62	152.01	153.07	158.95	162.43	168.10	192.60	159.35	9.36
Throughput	1913.91	2180.42	2264.24	2319.04	2407.16	2423.28	2584.48	2319.13	142.93
Simultaneous throughput	963.85	1034.69	1264.32	1534.15	1773.72	1925.29	2124.92	1517.70	509.39
Total drops	24.00	26.00	30.00	32.50	35.00	40.00	46.00	33.32	5.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	4.00	15.00	1.75	1.00
Error drops	22.00	26.00	29.00	31.00	34.00	37.00	46.00	31.57	5.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.05	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	7.00	16.00	3.50	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.02	1127.75	1266.67	1440.71	1521.60	1607.19	1653.45	1400.55	254.93
Total drops	1.00	5.00	9.00	12.00	16.00	26.00	33.00	13.47	7.00
Congestion drops	0.00	0.00	0.00	3.00	9.00	13.00	22.00	5.42	9.00
Error drops	1.00	2.00	5.00	7.50	12.00	14.00	17.00	8.05	7.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	3.00	5.00	7.00	2.33	2.00
Response time	25.50	27.45	32.64	35.44	39.61	43.96	55.65	36.39	6.97
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3186.56	3387.17	3413.70	3499.91	3574.52	3606.02	3649.13	3494.90	160.82
Throughput (1st burst)	2848.34	3246.25	3358.99	3435.26	3531.41	3604.36	3667.36	3423.73	172.42
Throughput (2nd burst)	3315.88	3441.88	3488.31	3569.55	3647.47	3683.94	3717.10	3566.06	159.16
Simultaneous throughput	2623.67	2671.66	2754.76	2886.36	3037.93	3156.08	3237.36	2900.10	283.17
Total drops	93.00	112.00	137.00	183.00	224.00	245.00	372.00	186.03	87.00
Congestion drops	0.00	0.00	5.00	48.50	74.00	100.00	266.00	51.27	69.00
Error drops	50.00	90.00	99.00	120.50	163.00	193.00	234.00	134.75	64.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	572.29	867.98	1310.07	1886.80	2423.88	3472.84	1414.48	1018.83
IP packet delay variation	-50.55	-19.94	-11.01	-11.00	-10.98	0.00	1141.00	-0.41	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	37.00	1.92	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.72	8.68	12.42	17.10	20.05	21.80	42.18	17.02	7.63
Throughput	300.90	571.70	627.58	740.96	1011.22	1243.34	1642.03	838.56	383.64
Simultaneous throughput	145.64	165.40	185.78	211.30	223.17	235.72	242.51	205.41	37.39
Total drops	0.00	0.00	1.00	2.00	3.00	6.00	10.00	2.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	10.00	0.95	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	6.00	1.28	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.50	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.65	7.54	9.37	11.47	15.18	20.56	41.22	13.50	5.80
Throughput	223.52	445.97	579.22	803.28	961.79	1084.30	1631.28	804.90	382.57
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	7.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	7.00	0.73	1.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.30	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.08	7.67	10.47	12.40	17.18	21.67	35.79	14.39	6.71
Throughput	257.91	424.48	516.90	743.64	869.37	1113.31	1517.37	747.99	352.48
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.82	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	4.00	5.00	1.08	2.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.50	8.10	10.40	14.73	18.96	22.34	30.20	15.28	8.56
Throughput	305.19	406.21	473.91	625.43	830.69	1131.58	1417.43	694.69	356.78
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	2.00	4.00	5.00	7.00	2.20	4.00
Congestion drops	0.00	0.00	0.00	0.50	3.00	4.00	6.00	1.40	3.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.80	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.49	6.19	7.98	10.49	13.74	19.84	28.44	11.83	5.76
Throughput	324.54	430.93	605.01	878.51	1154.15	1475.46	2053.61	941.88	549.13
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.77	1.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.22	6.60	8.83	11.48	15.58	18.65	30.78	12.64	6.75
Throughput	299.82	437.37	588.90	803.28	1013.37	1311.04	2181.49	863.76	424.48
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	6.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.53	6.56	8.40	11.56	17.37	20.39	27.76	13.16	8.97
Throughput	332.06	421.25	523.34	797.91	1058.51	1273.43	1667.82	829.13	535.16
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	9.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	6.00	0.68	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.82	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.58	8.86	9.70	12.72	15.36	17.92	32.10	13.57	5.66
Throughput	286.93	430.93	596.42	724.84	934.93	1035.94	1652.78	764.01	338.51
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.12	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.21	7.20	8.31	9.57	13.08	18.34	22.34	11.31	4.77
Throughput	412.66	434.15	687.76	963.40	1093.97	1234.75	2186.87	937.13	406.21
Simultaneous throughput	105.92	120.29	135.11	153.68	162.30	171.43	176.37	149.39	27.19
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	3.00	0.97	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	3.00	0.88	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00

Link with Low ARQ Persistency - Enhanced TCP and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5460.98	5662.41	5901.52	6188.23	6368.04	6600.70	6758.27	6154.95	466.53
Fairness of sim. thr. (F+S)	0.82	0.96	0.99	0.99	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.87	0.94	0.97	0.99	0.99	1.00	1.00	0.98	0.03
Fairness of sim. thr. (all)	0.85	0.86	0.89	0.91	0.92	0.93	0.95	0.90	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.37	135.55	141.77	147.60	153.08	156.78	168.97	147.33	11.31
Throughput	2181.49	2338.39	2402.87	2497.97	2595.22	2674.75	3062.69	2513.66	192.36
Simultaneous throughput	1099.42	1217.75	1488.33	1667.31	1889.49	2052.48	2296.35	1672.47	401.17
Total drops	18.00	22.00	25.00	29.50	35.00	39.00	43.00	30.00	10.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	12.00	1.10	1.00
Error drops	17.00	21.00	24.00	29.00	32.00	37.00	43.00	28.90	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	5.00	1.00	2.00
Unnecessary rexmits	0.00	1.00	2.00	3.00	6.00	7.00	11.00	3.85	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	143.89	146.01	153.83	158.92	165.31	171.70	179.78	159.78	11.48
Throughput	2050.39	2112.72	2225.55	2319.58	2392.12	2496.36	2561.91	2314.50	166.57
Simultaneous throughput	806.31	1212.19	1301.51	1484.73	1635.59	1791.02	2035.95	1480.38	334.08
Total drops	22.00	23.00	28.00	34.00	37.00	41.00	45.00	32.97	9.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	14.00	1.12	1.00
Error drops	22.00	23.00	28.00	32.50	35.00	40.00	44.00	31.85	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	2.00	5.00	0.83	1.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	2.00	7.00	16.00	2.65	1.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.14	1130.12	1296.22	1442.37	1540.92	1611.18	1670.18	1413.03	244.71
Total drops	3.00	7.00	10.00	13.00	16.00	19.00	26.00	13.10	6.00
Congestion drops	0.00	0.00	1.00	3.50	8.00	11.00	20.00	4.83	7.00
Error drops	2.00	4.00	5.00	8.00	11.00	13.00	14.00	8.28	6.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.70	1.00
Unnecessary rexmits	0.00	0.00	0.00	1.00	3.00	5.00	9.00	1.70	3.00
Response time	23.68	27.64	30.82	33.90	38.98	42.59	56.55	35.36	8.16
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3103.66	3239.62	3327.49	3402.93	3481.68	3622.60	3650.79	3420.87	154.19
Throughput (1st burst)	2778.71	2990.92	3150.09	3264.48	3455.15	3607.68	3664.05	3299.63	305.06
Throughput (2nd burst)	3050.61	3355.67	3475.04	3559.60	3637.52	3670.68	3720.42	3542.11	162.48
Simultaneous throughput	2521.24	2646.30	2696.66	2815.22	2937.94	3014.62	3206.12	2836.69	241.28
Total drops	92.00	109.00	163.00	241.50	281.00	319.00	422.00	230.68	118.00

Congestion drops	0.00	4.00	29.00	105.00	150.00	177.00	229.00	100.03	121.00
Error drops	41.00	89.00	105.00	119.00	156.00	179.00	222.00	130.65	51.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	491.03	744.17	1119.23	1601.04	2132.37	3463.86	1234.01	856.87
IP packet delay variation	-69.07	-19.94	-11.01	-11.00	-10.98	0.00	1112.11	-0.04	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	135.00	2.06	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.31	8.34	10.94	14.82	18.13	20.75	36.38	15.66	7.19
Throughput	348.18	576.00	694.21	855.94	1138.03	1513.07	1734.45	936.78	443.82
Simultaneous throughput	145.66	165.75	190.11	211.55	226.00	236.31	244.96	207.24	35.89
Total drops	0.00	0.00	0.00	1.00	3.00	4.00	9.00	1.85	3.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	8.00	0.85	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.45	6.47	10.16	12.13	16.31	19.42	33.18	13.61	6.15
Throughput	277.25	466.39	534.09	759.76	890.87	1172.42	2070.81	800.73	356.78
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	2.00	3.00	3.00	5.00	1.67	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	3.00	0.75	2.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.92	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.00	8.10	9.88	11.62	15.15	25.29	55.09	14.79	5.27
Throughput	167.64	326.69	548.06	793.61	903.76	1121.91	1842.99	774.73	355.70
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	1.00	1.50	3.00	5.00	10.00	2.28	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	8.00	1.08	2.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.20	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.33	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.63	7.09	9.67	12.13	16.38	20.64	51.58	14.59	6.71
Throughput	178.39	398.69	554.51	760.30	947.82	1006.93	1636.66	771.18	393.31
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.50	3.00	4.00	7.00	1.85	3.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	0.90	2.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.95	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.34	6.36	8.82	10.21	13.04	18.80	20.86	11.56	4.22
Throughput	441.67	478.21	677.01	902.15	1018.75	1445.37	1726.93	905.16	341.73
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.48	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.79	6.30	8.51	10.58	13.51	19.42	35.20	12.46	5.00
Throughput	262.21	405.13	654.45	870.99	1020.90	1428.18	1924.66	908.14	366.45
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.18	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.93	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.78	7.28	9.97	11.58	14.18	17.21	30.58	12.54	4.21
Throughput	300.90	534.09	629.73	796.30	905.91	1259.46	1594.75	817.33	276.18
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.90	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.00	7.05	8.98	11.32	15.25	17.70	21.50	12.37	6.27
Throughput	428.78	494.33	572.78	814.03	1002.63	1249.79	1844.06	843.18	429.85
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	0.97	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	4.98	6.44	8.06	9.31	11.73	16.15	40.62	10.94	3.67
Throughput	226.75	564.18	773.73	989.73	1141.25	1259.46	1849.43	970.20	367.52
Simultaneous throughput	105.93	120.55	138.26	153.85	164.37	171.86	178.15	150.72	26.10
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.07	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.92	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00

Link with Low ARQ Persistency - Enhanced TCP and DiffServ for Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5392.11	5683.98	5935.47	6153.39	6363.05	6525.35	6822.65	6148.86	427.58
Fairness of sim. thr. (F+S)	0.86	0.94	0.97	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.87	0.92	0.95	0.98	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.83	0.84	0.87	0.89	0.91	0.92	0.94	0.89	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	125.64	132.66	141.53	148.57	153.64	156.46	165.31	147.41	12.11
Throughput	2229.85	2327.64	2386.75	2480.78	2592.00	2753.19	2933.73	2510.19	205.25
Simultaneous throughput	1283.33	1408.70	1586.72	1741.28	1953.91	2118.99	2278.16	1762.16	367.19
Total drops	17.00	20.00	24.00	31.00	33.00	37.00	40.00	29.48	9.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	19.00	1.45	0.00
Error drops	17.00	20.00	23.00	28.50	32.00	35.00	38.00	28.02	9.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.35	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	6.00	8.00	12.00	3.83	5.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	145.08	150.20	155.19	159.84	166.17	173.15	183.16	160.93	10.99
Throughput	2012.78	2126.69	2213.73	2306.15	2374.93	2442.63	2541.49	2296.77	161.19
Simultaneous throughput	880.13	1011.28	1242.94	1429.19	1623.08	1804.64	2137.76	1442.81	380.14
Total drops	18.00	24.00	29.00	33.50	39.00	42.00	52.00	33.95	10.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	16.00	1.05	0.00
Error drops	18.00	24.00	29.00	33.00	37.00	39.00	45.00	32.90	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.25	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	7.00	15.00	3.45	4.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	789.20	1072.45	1266.33	1420.54	1515.41	1613.74	1656.34	1387.42	249.08
Total drops	2.00	5.00	7.00	12.00	15.00	18.00	28.00	11.98	8.00
Congestion drops	0.00	0.00	0.00	0.50	5.00	8.00	17.00	3.20	5.00
Error drops	0.00	2.00	5.00	8.50	12.00	15.00	28.00	8.78	7.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.27	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	6.00	13.00	3.33	4.00
Response time	25.10	31.23	35.42	38.67	41.93	43.60	96.46	39.38	6.51
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3398.78	3470.07	3503.23	3576.18	3615.97	3634.21	3723.73	3564.28	112.74
Throughput (1st burst)	3305.93	3428.62	3501.57	3554.62	3640.84	3687.26	3743.63	3567.39	139.27
Throughput (2nd burst)	3319.20	3428.62	3488.31	3572.86	3634.21	3667.36	3733.68	3561.17	145.90
Simultaneous throughput	2634.28	2694.14	2796.74	2962.98	3074.03	3210.57	3272.64	2958.19	277.29
Total drops	48.00	97.00	109.00	137.00	172.00	197.00	244.00	144.18	63.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	48.00	97.00	109.00	137.00	172.00	197.00	244.00	144.18	63.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	529.12	801.24	1177.08	1276.29	1739.28	2088.15	1103.23	475.05
IP packet delay variation	-127.92	-19.94	-11.01	-11.00	-10.98	0.01	973.14	-0.39	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	11.00	1.57	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.65	9.66	11.66	15.52	19.98	23.64	28.73	16.30	8.32
Throughput	440.60	528.72	622.21	821.55	1078.93	1289.55	1656.00	877.35	456.72
Simultaneous throughput	115.75	157.29	185.73	208.35	222.26	236.68	242.93	203.49	36.53
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.80	3.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.70	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.10	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.33	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.02	7.12	10.38	12.72	16.76	25.86	93.80	16.58	6.38
Throughput	97.79	335.28	510.45	725.37	883.34	1091.82	1530.27	728.65	372.90
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	1.00	3.00	5.00	7.00	1.65	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.65	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.47	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.38	8.86	10.09	14.10	21.95	29.06	48.56	17.20	11.86
Throughput	190.21	306.27	408.36	655.52	909.13	1000.48	1445.37	676.93	500.78
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	1.50	3.00	5.00	5.00	1.93	3.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	5.00	0.67	0.00

Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.25	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.66	8.82	10.32	14.70	19.13	26.07	38.61	16.12	8.81
Throughput	238.57	344.96	473.91	627.58	840.36	991.88	1384.12	675.70	366.45
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	1.00	2.00	3.00	5.00	8.00	2.30	2.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	6.00	0.95	1.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.35	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.45	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.47	5.38	7.43	11.01	13.58	19.15	29.07	11.79	6.15
Throughput	317.01	441.67	663.04	837.67	1208.96	1629.13	2061.13	967.00	545.91
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.65	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.23	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.58	5.09	7.54	10.24	13.23	19.17	30.42	11.64	5.70
Throughput	303.04	458.87	664.12	900.00	1189.61	1695.76	2010.63	965.18	525.49
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.28	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.70	7.79	9.85	13.55	18.45	21.23	32.83	14.99	8.60
Throughput	280.48	341.73	491.10	680.24	919.88	1171.34	1375.52	728.70	428.78
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	5.00	1.07	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	5.00	1.05	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.15	7.34	9.75	11.42	13.86	16.24	27.85	12.35	4.10
Throughput	330.99	553.43	649.07	807.04	932.78	1213.25	1498.03	826.04	283.70
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	4.00	0.53	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.12	6.17	8.45	10.19	13.62	18.06	21.68	11.19	5.17
Throughput	425.55	507.22	672.72	904.84	1067.10	1433.55	1801.07	935.03	394.39
Simultaneous throughput	84.18	114.40	135.07	151.52	161.64	172.13	176.68	147.99	26.57
Total drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	3.00	6.00	0.97	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00

Link with Low ARQ Persistency - Enhanced TCP, DiffServ for Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5632.40	5739.87	5973.28	6180.14	6386.22	6511.77	6851.15	6183.79	412.94
Fairness of sim. thr. (F+S)	0.77	0.91	0.96	0.99	1.00	1.00	1.00	0.97	0.03
Fairness of sim. thr. (F+S+H)	0.83	0.92	0.95	0.97	0.99	1.00	1.00	0.96	0.04
Fairness of sim. thr. (all)	0.81	0.83	0.87	0.89	0.90	0.92	0.92	0.88	0.04
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	125.99	130.44	140.17	144.73	151.40	155.97	162.07	144.96	11.23
Throughput	2274.99	2358.81	2420.06	2546.87	2624.24	2819.82	2926.21	2553.07	204.18
Simultaneous throughput	1080.70	1300.50	1455.13	1644.47	1961.44	2150.51	2598.46	1723.01	506.31
Total drops	16.00	22.00	24.00	29.50	34.00	36.00	61.00	29.98	10.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	22.00	1.25	0.00
Error drops	16.00	20.00	24.00	29.00	32.00	36.00	46.00	28.73	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.07	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	5.00	6.00	11.00	2.97	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	144.64	151.01	153.83	160.19	164.43	170.92	175.48	159.93	10.61
Throughput	2100.90	2152.48	2232.00	2301.31	2380.30	2435.10	2549.01	2309.99	148.30
Simultaneous throughput	678.49	970.69	1217.16	1403.07	1604.11	1799.06	2300.54	1423.44	386.94
Total drops	19.00	25.00	28.00	34.00	36.00	38.00	44.00	32.45	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	5.00	22.00	1.47	0.00

Error drops	18.00	22.00	27.00	32.00	35.00	37.00	44.00	30.98	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.28	2.00
Unnecessary rexmits	0.00	1.00	2.00	3.50	7.00	9.00	12.00	4.30	5.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.64	1127.27	1300.06	1426.31	1545.36	1620.98	1689.82	1410.61	245.30
Total drops	3.00	3.00	7.00	10.00	13.00	16.00	29.00	10.75	6.00
Congestion drops	0.00	0.00	0.00	0.00	3.00	8.00	17.00	2.55	3.00
Error drops	1.00	3.00	4.00	7.00	12.00	15.00	19.00	8.20	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.40	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	8.00	14.00	3.48	4.00
Response time	24.41	30.59	33.64	38.30	40.47	43.58	64.70	37.84	6.83
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3358.99	3458.46	3499.91	3577.84	3610.99	3649.13	3712.13	3561.67	111.08
Throughput (1st burst)	3272.77	3441.88	3478.36	3559.60	3640.84	3680.63	3743.63	3559.93	162.48
Throughput (2nd burst)	3372.25	3415.36	3481.68	3569.55	3644.15	3667.36	3717.10	3563.41	162.47
Simultaneous throughput	2603.44	2712.20	2798.26	2961.81	3087.09	3206.97	3274.13	2955.95	288.83
Total drops	55.00	92.00	113.00	136.00	176.00	207.00	268.00	145.75	63.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	55.00	92.00	113.00	136.00	176.00	207.00	268.00	145.75	63.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	511.41	772.66	1170.60	1272.68	1692.82	2101.34	1086.47	500.02
IP packet delay variation	-20.05	-19.94	-11.01	-11.00	-10.98	0.00	905.01	-0.42	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	10.00	1.58	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.51	9.14	11.23	16.05	18.46	27.22	34.66	16.27	7.24
Throughput	365.37	443.82	675.94	789.31	1124.06	1340.06	1688.24	899.79	448.12
Simultaneous throughput	145.73	165.33	190.68	209.19	226.65	237.74	247.84	206.89	35.98
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.47	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	6.00	0.60	0.00
Error drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.88	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.50	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.93	7.51	9.90	13.32	17.64	22.79	34.25	14.59	7.75
Throughput	268.66	394.39	496.48	692.60	927.40	1149.85	1870.93	748.85	430.93
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.40	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.42	0.00
Error drops	0.00	0.00	0.00	0.50	2.00	3.00	3.00	0.98	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.42	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.96	8.44	9.97	12.73	16.17	25.05	34.38	14.84	6.21
Throughput	267.58	339.58	539.46	724.30	867.22	1054.21	1546.39	731.31	327.76
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	8.00	1.53	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	8.00	0.67	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	2.00	4.00	0.48	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.29	8.55	9.94	12.60	15.17	23.40	28.00	13.98	5.23
Throughput	328.84	375.04	583.52	731.82	918.81	1056.36	1464.72	743.94	335.28
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	4.00	1.25	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.40	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.93	7.38	9.34	11.49	13.96	19.87	27.67	12.73	4.63
Throughput	333.13	455.64	641.55	802.75	961.79	1173.49	1554.99	822.12	320.24
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.85	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.75	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.12	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.32	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.35	8.06	9.92	12.61	15.76	23.55	32.05	14.28	5.83
Throughput	288.00	355.70	546.99	730.75	919.88	1037.01	1451.82	750.04	372.90
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	7.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	7.00	0.97	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.96	6.76	10.44	13.32	18.06	23.67	59.25	15.31	7.62

Throughput	155.82	379.34	502.93	692.06	847.88	1160.60	1858.03	745.31	344.96
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.38	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.33	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.06	8.39	9.30	12.96	15.64	20.99	35.63	13.80	6.34
Throughput	258.99	409.43	580.30	711.40	971.46	1029.49	1821.49	777.68	391.16
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	1.03	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	4.00	0.87	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.58	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.27	5.21	7.13	10.44	12.35	15.05	23.66	10.63	5.22
Throughput	389.01	551.28	726.45	882.81	1270.21	1508.78	2157.85	1015.68	543.76
Simultaneous throughput	105.99	120.24	138.67	152.14	164.84	172.90	180.25	150.46	26.17
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	6.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00

Link with Low ARQ Persistency - Enhanced TCP and DiffServ for HTTP and Streaming									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5588.62	5718.47	6048.29	6242.13	6381.47	6633.51	6897.73	6226.55	333.18
Fairness of sim. thr. (F+S)	0.91	0.93	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.90	0.92	0.95	0.98	0.99	0.99	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.82	0.85	0.87	0.89	0.91	0.92	0.94	0.89	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	131.56	137.88	143.20	147.35	151.78	154.73	161.02	147.23	8.58
Throughput	2288.96	2342.69	2427.58	2502.27	2570.51	2645.73	2801.55	2508.90	142.93
Simultaneous throughput	932.90	1358.46	1593.38	1754.65	1960.45	2178.11	2426.13	1766.12	367.07
Total drops	17.00	22.00	25.00	28.00	33.00	37.00	62.00	30.43	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	34.00	2.00	0.00
Error drops	17.00	22.00	24.00	27.00	33.00	36.00	39.00	28.43	9.00
Spurious RTOs	0.00	0.00	0.00	0.50	2.00	2.00	6.00	1.00	2.00
Unnecessary rexmits	0.00	0.00	1.00	2.00	4.00	6.00	22.00	3.18	3.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	143.55	146.38	154.54	158.00	162.75	168.99	176.66	158.92	8.20
Throughput	2086.93	2137.43	2257.79	2333.01	2377.07	2472.72	2568.36	2325.60	119.28
Simultaneous throughput	959.15	1112.82	1308.26	1503.62	1623.56	1861.25	2337.22	1507.49	315.30
Total drops	22.00	26.00	27.00	30.00	35.00	40.00	48.00	31.43	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.70	0.00
Error drops	22.00	26.00	27.00	29.50	33.00	36.00	43.00	30.73	6.00
Spurious RTOs	0.00	0.00	1.00	1.00	2.00	2.00	3.00	1.25	1.00
Unnecessary rexmits	0.00	1.00	2.00	3.00	5.00	7.00	9.00	3.50	3.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.86	1072.12	1255.99	1369.53	1501.14	1608.52	1669.29	1376.07	245.15
Total drops	2.00	5.00	6.00	9.50	11.00	14.00	23.00	9.23	5.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	3.00	7.00	0.57	0.00
Error drops	2.00	4.00	5.00	8.00	11.00	14.00	19.00	8.65	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.37	2.00
Unnecessary rexmits	0.00	0.00	0.00	2.50	5.00	6.00	13.00	3.22	5.00
Response time	24.13	28.54	36.07	40.37	44.56	51.05	70.32	41.27	8.48
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3393.80	3463.44	3514.83	3575.35	3619.28	3649.13	3693.89	3564.70	104.45
Throughput (1st burst)	3342.41	3438.57	3491.62	3567.89	3640.84	3677.31	3746.95	3568.55	149.22
Throughput (2nd burst)	3362.30	3402.09	3501.57	3562.91	3627.57	3677.31	3697.21	3560.84	126.00
Simultaneous throughput	2630.43	2695.43	2789.28	2964.88	3098.66	3202.71	3284.54	2958.59	309.38
Total drops	66.00	91.00	108.00	137.50	173.00	203.00	247.00	143.93	65.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	66.00	91.00	108.00	137.50	173.00	203.00	247.00	143.93	65.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.21	529.87	783.68	1180.17	1277.23	1744.24	2083.60	1103.65	493.55
IP packet delay variation	-118.15	-19.94	-11.01	-11.00	-10.99	0.00	977.02	-0.53	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	8.00	1.53	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.51	10.16	13.46	15.82	18.83	29.10	58.84	18.60	5.37
Throughput	214.93	427.70	659.82	801.13	937.07	1076.78	1688.24	814.86	277.25
Simultaneous throughput	145.77	157.24	184.21	200.86	220.17	235.92	244.83	201.82	35.95
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.27	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.12	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.15	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	6.00	0.53	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.88	8.06	11.11	13.30	16.85	24.09	57.62	16.13	5.74
Throughput	160.12	320.24	501.85	692.60	776.96	1131.58	1567.88	713.90	275.10
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	0.50	2.00	2.00	4.00	0.93	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	2.00	2.00	4.00	0.93	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.30	1.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.08	8.64	11.18	14.68	18.71	24.45	33.60	15.81	7.53
Throughput	274.03	346.03	482.51	628.12	813.49	988.66	1515.22	681.04	330.99
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	0.97	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.22	9.50	11.32	14.49	17.47	19.83	28.98	14.98	6.16
Throughput	318.09	441.67	520.12	636.18	798.45	905.91	1480.84	685.21	278.33
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.33	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	5.00	0.37	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	4.00	0.95	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.28	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.72	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.84	7.87	10.89	14.79	18.07	20.54	28.71	14.47	7.19
Throughput	321.31	438.45	508.30	623.28	818.87	1100.42	1904.24	727.74	310.57
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	1.00	1.00	1.00	3.00	4.00	1.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	1.00	1.00	1.00	3.00	4.00	1.20	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.35	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.10	7.54	9.89	13.96	19.81	26.97	53.27	16.04	9.92
Throughput	173.01	333.13	458.87	659.82	865.07	1187.46	1805.37	719.79	406.21
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	0.50	2.00	3.00	6.00	1.07	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	2.00	3.00	6.00	1.07	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.13	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.33	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.94	7.44	9.98	13.75	16.95	20.48	38.03	14.18	6.97
Throughput	242.87	440.60	536.24	670.57	851.10	1201.43	1864.48	764.95	314.87
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.60	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.20	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.59	6.40	8.40	13.46	17.12	22.34	36.78	14.22	8.72
Throughput	250.39	392.24	517.97	684.54	1037.01	1432.48	2008.48	813.14	519.04
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.95	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	3.00	5.00	0.95	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.30	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.98	4.73	7.19	9.29	12.51	18.33	47.23	11.37	5.33
Throughput	195.58	461.01	735.04	991.88	1254.09	1663.52	2315.82	1048.41	519.04
Simultaneous throughput	106.01	114.36	133.97	146.08	160.12	171.58	178.06	146.78	26.15
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.90	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00

Link with Low ARQ Persistency - Enhanced TCP, DiffServ for HTTP and Streaming, and RED+ECN									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	5532.36	5747.56	5953.37	6201.00	6354.78	6663.10	6828.53	6179.08	401.41
Fairness of sim. thr. (F+S)	0.92	0.95	0.97	0.99	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.92	0.93	0.96	0.97	0.99	1.00	1.00	0.97	0.04
Fairness of sim. thr. (all)	0.82	0.86	0.87	0.90	0.90	0.91	0.94	0.89	0.03

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	129.05	132.42	137.91	147.19	153.79	157.58	171.01	146.55	15.88
Throughput	2155.70	2326.57	2393.19	2504.42	2670.45	2782.21	2856.36	2526.74	277.25
Simultaneous throughput	1121.57	1319.65	1514.83	1625.05	1906.58	2064.48	2140.32	1692.34	391.75
Total drops	18.00	19.00	25.00	28.50	33.00	37.00	46.00	29.10	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	11.00	0.90	0.00
Error drops	18.00	19.00	24.00	28.00	32.00	36.00	40.00	28.20	8.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	3.00	1.25	2.00
Unnecessary rexmits	0.00	0.00	1.00	3.00	5.00	7.00	9.00	3.43	4.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	144.78	147.31	154.79	159.30	164.16	170.84	177.96	160.09	9.37
Throughput	2071.88	2152.48	2244.90	2314.21	2378.15	2493.13	2545.79	2308.49	133.25
Simultaneous throughput	913.65	1081.05	1283.58	1448.11	1635.87	1874.99	2349.96	1489.17	352.29
Total drops	24.00	27.00	29.00	34.00	37.00	42.00	56.00	34.02	8.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	8.00	21.00	1.73	0.00
Error drops	24.00	27.00	29.00	33.00	35.00	37.00	42.00	32.30	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	1.00	1.00	3.00	0.82	1.00
Unnecessary rexmits	0.00	1.00	2.00	3.00	4.00	5.00	9.00	3.02	2.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	993.01	1128.02	1299.94	1445.26	1546.46	1606.47	1651.17	1411.17	246.52
Total drops	4.00	4.00	5.00	8.00	11.00	13.00	15.00	8.55	6.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	1.00	4.00	5.00	8.00	11.00	13.00	15.00	8.35	6.00
Spurious RTOs	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.43	2.00
Unnecessary rexmits	0.00	1.00	1.00	3.00	5.00	7.00	9.00	3.35	4.00
Response time	24.34	30.09	33.50	38.23	41.03	43.84	68.89	38.18	7.54
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3405.41	3433.60	3509.86	3577.01	3607.68	3635.86	3703.84	3559.85	97.82
Throughput (1st burst)	3358.99	3428.62	3481.68	3539.70	3657.42	3674.00	3753.58	3558.77	175.74
Throughput (2nd burst)	3329.14	3445.20	3481.68	3576.18	3640.84	3667.36	3707.16	3560.92	159.16
Simultaneous throughput	2647.13	2684.76	2805.95	2960.66	3066.79	3201.02	3281.56	2954.42	260.84
Total drops	60.00	94.00	116.00	136.50	177.00	217.00	240.00	146.85	61.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	60.00	94.00	116.00	136.50	177.00	217.00	240.00	146.85	61.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	309.06	530.14	786.24	1174.33	1274.24	1743.93	2098.70	1098.87	488.01
IP packet delay variation	-118.03	-19.94	-11.01	-11.00	-10.98	0.00	947.09	-0.33	0.03
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	8.00	1.54	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.58	9.45	13.46	17.01	20.22	23.48	35.76	17.48	6.76
Throughput	354.63	527.64	623.28	744.72	894.09	1173.49	1671.04	811.48	270.81
Simultaneous throughput	145.64	165.44	190.66	211.97	226.81	235.62	242.17	206.97	36.16
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.18	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.22	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.57	8.03	10.31	12.97	16.62	23.76	30.35	14.43	6.31
Throughput	304.12	332.06	543.76	710.33	888.72	1140.18	1402.39	743.05	344.96
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.08	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.08	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	4.00	0.40	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.03	8.39	10.50	13.48	16.89	20.15	42.01	14.85	6.38
Throughput	219.22	391.16	517.97	684.00	855.40	965.01	1311.04	712.67	337.43
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.10	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.50	2.00	3.00	4.00	1.00	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.18	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.23	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.21	7.93	10.94	14.45	19.11	25.93	31.26	15.95	8.16
Throughput	294.45	352.48	465.31	637.79	837.13	968.24	1277.73	671.02	371.82
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	10.00	1.20	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	2.00	10.00	1.10	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.25	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	1.00	5.00	0.53	1.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.36	5.82	8.44	12.10	15.52	23.18	33.19	13.47	7.09
Throughput	277.25	379.34	586.75	761.91	1020.90	1355.10	2112.72	858.52	434.15
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.73	1.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.73	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.94	6.53	9.68	12.83	16.49	25.68	28.78	14.15	6.81
Throughput	320.24	346.03	536.24	718.93	926.33	1369.07	1865.55	784.13	390.09
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.68	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	1.00	2.00	3.00	0.68	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.44	7.38	9.78	12.57	16.01	18.46	27.03	13.43	6.22
Throughput	340.66	449.19	552.36	733.43	923.10	1128.36	1432.48	769.78	370.75
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.72	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.72	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.48	6.99	9.47	12.38	16.19	20.83	47.65	14.02	6.72
Throughput	193.43	428.78	565.25	744.18	971.46	1225.07	1421.73	787.27	406.21
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.02	2.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.02	2.00
Spurious RTOs	0.00	0.00	0.00	0.00	1.00	1.00	1.00	0.33	1.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.88	1.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.32	6.17	7.71	10.02	11.96	13.34	25.76	10.41	4.25
Throughput	357.85	560.96	760.84	919.34	1174.57	1440.00	2134.21	1006.58	413.73
Simultaneous throughput	105.92	120.32	138.66	154.16	164.96	171.36	176.13	150.53	26.30
Total drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.85	1.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.85	1.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00

High-Speed Error-Free Link - Baseline TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46753.91	47363.60	47487.28	47657.70	47664.55	47680.35	47872.01	47576.33	177.27
Fairness of sim. thr. (F+S)	0.94	0.95	0.96	1.00	1.00	1.00	1.00	0.98	0.04
Fairness of sim. thr. (F+S+H)	0.67	0.68	0.69	0.71	0.71	0.72	0.72	0.70	0.03
Fairness of sim. thr. (all)	0.57	0.58	0.58	0.60	0.60	0.61	0.62	0.60	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.08	101.25	102.85	107.39	118.53	120.01	121.42	110.10	15.69
Throughput	22771.34	23026.03	23298.99	25745.37	26873.19	27277.25	28479.76	25240.78	3574.21
Simultaneous throughput	21264.37	21915.46	22252.16	22990.10	25674.38	26596.91	27507.09	23932.94	3422.22
Total drops	27.00	29.00	33.00	34.00	36.00	37.00	39.00	34.08	3.00
Congestion drops	27.00	29.00	33.00	34.00	36.00	37.00	39.00	34.08	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.88	121.33	121.44	121.46	121.62	122.15	122.85	121.61	0.19
Throughput	22504.84	22627.34	22705.79	22762.21	22767.04	22787.46	22872.36	22735.88	61.25
Simultaneous throughput	16166.05	16961.38	17740.84	20282.31	21363.06	21743.24	22107.85	19652.46	3622.22
Total drops	29.00	29.00	31.00	35.00	37.00	39.00	43.00	34.50	6.00
Congestion drops	29.00	29.00	31.00	35.00	37.00	39.00	43.00	34.50	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.16	1390.60	1451.26	1534.49	1607.06	1674.30	1698.09	1533.12	155.81
Total drops	0.00	0.00	1.00	3.00	5.00	7.00	11.00	3.25	4.00
Congestion drops	0.00	0.00	1.00	3.00	5.00	7.00	11.00	3.25	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	14.50	14.70	16.43	18.42	20.88	22.62	25.46	18.74	4.45
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3727.05	3740.31	3743.63	3752.75	3793.37	3795.03	3800.00	3763.94	49.74
Throughput (1st burst)	3664.05	3677.31	3690.58	3705.50	3783.42	3793.37	3803.32	3727.55	92.84
Throughput (2nd burst)	3773.47	3786.74	3800.00	3803.32	3803.32	3803.32	3803.32	3800.33	3.32
Simultaneous throughput	2839.21	2870.08	2948.23	3141.38	3275.38	3367.61	3415.85	3123.77	327.15
Total drops	2.00	3.00	6.00	30.50	34.00	38.00	46.00	23.75	28.00

Congestion drops	2.00	3.00	6.00	30.50	34.00	38.00	46.00	23.75	28.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	609.04	821.12	985.81	1125.16	1227.25	1338.60	951.85	304.04
IP packet delay variation	-20.00	-19.00	-7.00	5.00	5.01	5.04	101.01	0.24	12.01
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	2.00	5.00	1.57	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	5.54	6.05	6.92	10.77	11.87	14.30	8.10	4.72
Throughput	886.57	1067.10	1152.00	1830.63	1967.64	2242.75	5238.81	1797.18	815.64
Simultaneous throughput	183.65	203.96	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.05	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	1.05	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.68	5.23	5.94	6.42	6.65	10.16	11.75	6.78	0.71
Throughput	784.48	888.72	1378.75	1435.70	1547.46	1688.24	3433.43	1475.65	168.72
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.72	5.50	6.05	6.59	7.25	9.79	11.82	7.04	1.20
Throughput	780.18	910.21	1100.42	1399.16	1518.45	1621.61	3385.07	1415.85	418.03
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.38	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.80	5.56	6.16	6.63	8.03	10.72	12.14	7.36	1.87
Throughput	758.69	854.33	1141.25	1388.96	1476.54	1622.69	3296.96	1368.08	335.28
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.90	3.91	4.54	5.88	6.82	6.93	11.71	5.94	2.28
Throughput	787.70	1326.09	1345.43	1566.27	2025.67	2348.06	2364.18	1669.51	680.24
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.90	3.93	4.01	5.83	6.89	7.04	11.84	5.98	2.88
Throughput	779.10	1088.60	1335.76	1580.24	2293.25	2340.54	2365.25	1692.78	957.49
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.93	3.97	4.04	6.20	7.91	9.95	13.09	6.43	3.87
Throughput	703.88	912.36	1163.82	1494.27	2256.72	2313.67	2345.91	1616.61	1092.90
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.01	4.11	4.23	5.80	6.93	8.24	11.51	6.10	2.70
Throughput	800.60	1104.72	1325.01	1589.37	2165.37	2234.15	2298.63	1646.49	840.36
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	3.93	4.06	4.18	5.62	6.63	6.86	8.34	5.53	2.45
Throughput	1104.72	1332.54	1365.85	1638.81	2191.16	2270.69	2343.76	1745.79	825.31
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46566.53	47273.93	47478.44	47617.86	47657.85	47664.24	47674.23	47534.92	179.41
Fairness of sim. thr. (F+S)	0.87	0.88	0.89	0.92	0.99	1.00	1.00	0.94	0.10
Fairness of sim. thr. (F+S+H)	0.62	0.63	0.64	0.66	0.71	0.71	0.72	0.67	0.07
Fairness of sim. thr. (all)	0.52	0.53	0.54	0.56	0.60	0.61	0.62	0.57	0.06
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	87.93	90.42	96.28	103.23	111.78	117.54	121.44	104.36	15.50
Throughput	22765.97	23285.01	24282.27	26784.54	28679.64	29916.54	31443.58	26731.26	4397.37
Simultaneous throughput	21156.17	22346.89	23652.03	28289.61	28986.47	29577.85	30174.84	26686.68	5334.44
Total drops	27.00	27.00	28.00	33.00	33.00	36.00	40.00	31.85	5.00
Congestion drops	27.00	27.00	28.00	33.00	33.00	36.00	40.00	31.85	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.26	121.41	121.45	121.50	121.67	122.32	124.28	121.71	0.22
Throughput	22245.85	22596.18	22718.69	22755.22	22762.75	22770.27	22800.36	22716.81	44.06
Simultaneous throughput	13334.75	13817.85	14368.50	15663.15	19622.25	20924.21	21879.08	16797.50	5253.76
Total drops	28.00	29.00	32.00	34.00	35.00	36.00	40.00	33.25	3.00
Congestion drops	28.00	29.00	32.00	34.00	35.00	36.00	40.00	33.25	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.13	1390.58	1451.26	1534.49	1607.06	1674.25	1698.09	1533.13	155.81
Total drops	0.00	0.00	0.00	0.00	2.00	6.00	10.00	1.67	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	6.00	10.00	1.67	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	9.66	11.95	14.02	15.13	15.71	17.49	19.61	15.07	1.69
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3710.47	3722.08	3733.68	3747.77	3795.03	3800.00	3803.32	3757.93	61.35
Throughput (1st burst)	3620.94	3640.84	3664.05	3692.23	3803.32	3803.32	3803.32	3716.11	139.27
Throughput (2nd burst)	3786.74	3790.05	3796.68	3803.32	3803.32	3803.32	3803.32	3799.75	6.64
Simultaneous throughput	2838.85	2870.08	2949.52	3136.47	3266.69	3339.35	3414.35	3118.62	317.17
Total drops	0.00	2.00	4.00	33.50	42.00	49.00	56.00	27.38	38.00
Congestion drops	0.00	2.00	4.00	33.50	42.00	49.00	56.00	27.38	38.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	504.09	677.97	836.04	994.12	1094.67	1337.31	818.11	316.15
IP packet delay variation	-20.00	-19.00	-7.00	5.00	5.01	5.04	77.06	0.16	12.01
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	3.00	16.00	1.65	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	3.88	4.59	4.92	6.82	9.66	10.96	5.79	2.23
Throughput	1156.30	1242.27	1825.79	2575.34	2758.57	3121.79	5238.81	2466.75	932.78
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.55	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	5.00	0.55	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.68	3.92	4.38	4.78	5.25	7.42	9.31	5.13	0.87
Throughput	989.73	1240.12	1745.19	1928.42	2084.78	2222.33	3434.51	1920.41	339.58
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.73	3.97	4.43	4.82	5.34	7.52	9.25	5.30	0.91
Throughput	996.18	1082.15	1711.88	1913.37	2063.28	2196.54	3372.18	1876.22	351.40
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.80	4.10	4.51	4.87	5.42	8.07	9.62	5.41	0.90
Throughput	957.49	1056.36	1507.70	1894.03	2039.64	2176.12	3295.88	1843.01	531.94
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.47	3.24	4.27	5.05	5.25	6.31	9.14	5.08	0.98
Throughput	1008.00	1385.19	1740.90	1824.18	2111.64	2285.73	3735.40	1942.95	370.75
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.89	3.21	4.48	5.10	5.34	6.21	7.21	4.93	0.86
Throughput	1277.73	1480.84	1704.36	1805.91	1923.58	2776.84	3190.57	1963.99	219.22
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.76	3.20	4.64	5.10	5.41	6.25	7.62	5.06	0.76
Throughput	1208.96	1431.40	1692.54	1805.91	1933.25	2774.69	3342.09	1929.04	240.72
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.76	3.19	4.66	5.15	5.41	6.23	8.05	5.08	0.74
Throughput	1144.48	1426.03	1689.31	1788.72	1942.93	2774.69	3344.24	1913.40	253.61
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.32	2.69	3.86	4.93	5.19	5.37	5.98	4.52	1.34
Throughput	1541.01	1701.13	1773.13	1869.31	2196.54	3078.81	3969.67	2175.64	423.40
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47363.46	47639.13	47652.82	47659.97	47666.30	47698.61	47874.15	47653.40	13.48
Fairness of sim. thr. (F+S)	0.97	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.69	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	104.00	111.56	114.99	116.22	117.62	120.18	120.95	116.01	2.63
Throughput	22858.39	22935.76	23423.64	23789.55	24037.25	24183.40	26584.12	23852.79	613.61
Simultaneous throughput	20724.80	21021.20	22371.89	22886.26	23480.87	23639.85	25741.52	22900.78	1108.98
Total drops	42.00	45.00	47.00	48.00	50.00	50.00	54.00	48.12	3.00
Congestion drops	42.00	45.00	47.00	48.00	50.00	50.00	54.00	48.12	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.87	121.24	121.37	121.42	121.46	121.47	121.50	121.39	0.09
Throughput	22755.22	22760.60	22762.75	22771.34	22778.87	22801.43	22873.43	22776.69	16.12
Simultaneous throughput	17482.83	19041.07	20331.04	20754.86	21057.88	21281.40	22177.50	20531.49	726.84
Total drops	36.00	40.00	41.00	44.00	48.00	50.00	54.00	44.63	7.00
Congestion drops	36.00	40.00	41.00	44.00	48.00	50.00	54.00	44.63	7.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.03	1390.46	1451.26	1534.49	1607.06	1674.40	1700.10	1533.16	155.81
Total drops	0.00	0.00	0.00	0.00	2.00	6.00	10.00	1.73	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	6.00	10.00	1.73	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	15.04	22.01	26.84	27.72	28.70	31.79	33.78	27.46	1.85
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3707.16	3712.13	3715.45	3723.73	3788.39	3803.32	3803.32	3745.25	72.94
Throughput (1st burst)	3610.99	3620.94	3627.57	3644.15	3773.47	3803.32	3803.32	3687.18	145.90
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2817.46	2872.59	2952.09	3135.85	3255.10	3349.91	3424.81	3108.22	303.01
Total drops	0.00	0.00	4.00	48.00	52.00	55.00	58.00	35.02	48.00
Congestion drops	0.00	0.00	4.00	48.00	52.00	55.00	58.00	35.02	48.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1141.63	1603.19	1717.37	1789.42	1860.67	2054.04	1624.46	186.23
IP packet delay variation	-20.00	-19.00	-7.00	5.00	5.01	5.50	76.99	0.51	12.00
Consecutive packets dropped	1.00	1.00	1.00	2.00	2.00	3.00	6.00	1.84	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	5.62	8.12	8.63	10.06	16.96	18.75	9.74	1.93
Throughput	675.94	722.15	1154.15	1469.55	1557.13	1689.31	5258.15	1539.73	402.99
Simultaneous throughput	183.63	203.93	212.85	225.06	235.70	245.58	249.35	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.75	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	3.00	4.00	0.75	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.67	5.74	7.83	8.84	9.31	10.96	15.52	8.82	1.48
Throughput	594.27	829.61	981.13	1043.46	1155.22	1257.31	3445.25	1158.66	174.09
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.71	5.78	8.03	8.71	9.25	10.08	15.56	8.66	1.22
Throughput	592.12	838.21	995.10	1057.97	1144.48	1249.79	3396.90	1166.29	149.37
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.79	5.88	8.07	8.86	9.43	11.19	15.58	9.01	1.36
Throughput	591.04	668.42	969.31	1040.78	1129.43	1242.27	3307.70	1135.26	160.12
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.62	7.15	8.95	9.58	9.74	10.03	10.31	9.18	0.78
Throughput	894.09	913.43	942.45	961.79	1010.15	1208.96	1640.96	1020.30	67.70
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.37	7.99	9.38	9.58	9.77	10.18	10.39	9.45	0.40
Throughput	887.64	904.84	940.30	962.33	982.21	1098.27	1249.79	981.70	41.91
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.42	8.39	9.39	9.59	9.83	10.18	14.48	9.65	0.44

Throughput	636.18	902.69	922.03	960.72	980.06	1093.97	1242.27	965.15	58.03
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	8.02	8.52	9.38	9.60	9.80	10.18	14.48	9.67	0.42
Throughput	636.18	902.69	918.81	959.64	981.13	1035.94	1148.78	960.61	62.33
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	8.71	9.18	9.40	9.64	10.01	10.10	9.35	0.46
Throughput	912.36	917.73	953.19	980.60	1002.63	1035.94	1314.27	990.32	49.43
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.34	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47092.20	47310.48	47463.04	47663.91	47666.37	47686.66	47868.80	47571.37	203.33
Fairness of sim. thr. (F+S)	0.93	0.95	0.95	0.98	1.00	1.00	1.00	0.98	0.04
Fairness of sim. thr. (F+S+H)	0.67	0.67	0.68	0.70	0.71	0.72	0.72	0.70	0.03
Fairness of sim. thr. (all)	0.57	0.57	0.58	0.59	0.61	0.61	0.62	0.59	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.20	98.47	101.31	105.93	116.52	119.76	120.61	108.37	15.21
Throughput	22923.94	23037.85	23577.31	26100.54	27155.82	27926.33	28444.30	25646.88	3578.51
Simultaneous throughput	20207.29	21418.89	22167.82	25164.18	26549.06	26881.17	27244.51	24289.89	4381.24
Total drops	27.00	29.00	33.00	36.00	37.00	38.00	40.00	34.85	4.00
Congestion drops	27.00	29.00	33.00	36.00	37.00	38.00	40.00	34.85	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.96	121.30	121.47	121.48	121.81	122.16	122.95	121.66	0.35
Throughput	22487.64	22605.85	22684.30	22759.52	22761.67	22783.16	22856.24	22726.16	77.37
Simultaneous throughput	15498.89	16616.22	17113.01	18791.38	21511.92	22118.33	22866.71	19279.51	4398.91
Total drops	28.00	29.00	33.00	35.00	37.00	39.00	44.00	34.93	4.00
Congestion drops	28.00	29.00	33.00	35.00	37.00	39.00	44.00	34.93	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.21	1390.45	1451.26	1534.49	1607.06	1674.39	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	1.00	3.00	7.00	13.00	2.58	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	7.00	13.00	2.58	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	14.58	14.78	17.23	18.27	20.38	23.40	25.78	18.85	3.15
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	626.36	862.08	1015.02	1059.10	1067.25	1102.40	930.20	197.01
IP packet delay variation	-19.99	-19.00	-7.01	4.99	5.01	17.00	161.03	0.18	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	5.55	5.91	6.82	9.09	12.02	12.75	7.46	3.18
Throughput	994.03	1042.39	1297.07	1857.49	2132.06	2256.72	5259.22	1916.03	834.99
Simultaneous throughput	183.66	203.93	212.85	225.06	235.70	245.58	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.77	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.67	5.32	5.67	6.46	6.84	10.04	11.65	6.65	1.17
Throughput	790.93	906.99	1346.51	1427.64	1550.69	1689.31	3446.33	1489.24	204.18
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.72	5.37	6.02	6.52	6.92	10.08	11.81	6.98	0.90
Throughput	780.18	901.61	1325.01	1412.60	1522.75	1674.27	3384.00	1432.64	197.73
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.79	5.42	6.07	6.60	7.92	10.10	11.99	7.17	1.85
Throughput	769.43	891.94	1159.52	1395.94	1500.18	1653.85	3306.63	1398.44	340.66
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.94	3.99	4.74	6.03	6.85	6.96	10.81	6.01	2.11
Throughput	853.25	1307.82	1344.36	1529.19	1777.43	2288.96	2337.31	1611.97	433.07
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.94	4.03	4.14	5.87	6.95	10.17	12.51	6.41	2.81
Throughput	737.19	813.49	1326.09	1571.64	1689.31	2271.76	2337.31	1588.30	363.22
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.94	4.06	4.50	5.87	6.94	8.03	11.69	6.19	2.44
Throughput	788.78	1088.60	1323.94	1570.57	1682.87	2267.46	2337.31	1601.11	358.93
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.08	4.13	4.53	5.80	6.96	7.90	12.85	6.17	2.43
Throughput	716.78	1154.15	1318.57	1588.84	1687.16	2214.81	2257.79	1594.93	368.60
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.07	4.11	4.53	5.68	6.48	6.86	12.30	5.75	1.94
Throughput	749.01	1342.21	1377.67	1623.22	1753.79	2236.30	2263.16	1682.79	376.12
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	44373.11	45034.98	45976.58	46900.87	47290.26	47607.24	47666.92	46622.85	1313.67
Fairness of sim. thr. (F+S)	0.84	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.60	0.68	0.70	0.71	0.71	0.72	0.72	0.70	0.02
Fairness of sim. thr. (all)	0.51	0.58	0.59	0.60	0.61	0.62	0.63	0.60	0.02

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.18	104.41	108.75	115.95	119.77	121.37	125.28	114.32	11.02
Throughput	22068.54	22565.01	23040.00	23843.82	25395.58	26252.06	29993.91	24287.02	2355.58
Simultaneous throughput	18470.94	19709.45	21597.31	23219.04	24600.50	25604.26	31057.19	23240.12	3003.19
Total drops	26.00	29.00	32.00	35.00	37.00	38.00	43.00	34.50	5.00
Congestion drops	26.00	29.00	32.00	35.00	37.00	38.00	43.00	34.50	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.47	121.61	122.22	123.46	125.21	127.31	129.86	124.18	2.99
Throughput	21290.51	21621.49	21954.63	22394.69	22584.36	22731.58	22761.67	22272.42	629.73
Simultaneous throughput	12270.27	16121.57	17686.05	18777.81	20378.79	21766.47	23356.17	18941.53	2692.73
Total drops	29.00	30.00	33.00	36.00	38.00	40.00	42.00	35.93	5.00
Congestion drops	29.00	30.00	33.00	36.00	38.00	40.00	42.00	35.93	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.07	1390.52	1451.26	1534.49	1607.06	1674.18	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.50	2.00	7.00	10.00	1.85	2.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	7.00	10.00	1.85	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.62	6.87	7.46	9.98	11.63	12.62	16.85	9.95	4.17
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	217.99	298.90	591.31	764.92	874.14	1102.38	559.71	466.03
IP packet delay variation	-19.97	-19.00	-7.00	5.00	5.01	5.89	77.03	0.11	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.36	2.44	2.72	4.16	6.65	8.62	10.55	4.86	3.93
Throughput	1201.43	1460.42	1846.21	3051.40	4409.19	5187.22	5369.91	3214.10	2562.99
Simultaneous throughput	183.64	203.94	212.85	225.06	235.70	245.55	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.17	2.19	2.32	3.02	3.49	7.19	8.89	3.59	1.17
Throughput	1037.01	1184.24	2631.76	3054.63	3888.00	4189.97	4240.48	3057.50	1256.24
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.24	2.37	3.10	3.75	7.48	11.47	3.93	1.38
Throughput	803.82	1201.43	1696.84	2975.10	3827.82	4099.70	4156.66	2894.96	2130.99
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.24	2.28	2.38	2.84	3.80	7.12	8.08	3.68	1.42
Throughput	1140.18	1224.00	1865.55	3245.37	3831.04	4037.37	4113.67	2975.61	1965.49
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.13	2.19	2.38	2.57	2.90	8.92	2.76	0.38
Throughput	1032.72	3077.73	3559.16	3868.66	4145.91	4300.66	4344.72	3695.64	586.75
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.15	2.21	2.39	2.55	3.31	12.86	2.82	0.34
Throughput	716.78	2542.57	3476.42	3849.31	4166.33	4289.91	4325.37	3667.30	689.91
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.15	2.19	2.39	2.53	3.10	7.95	2.75	0.35
Throughput	1159.52	2424.36	3616.12	3849.85	4202.87	4285.61	4339.34	3670.41	586.75
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.16	2.20	2.39	2.55	3.13	8.57	2.77	0.35
Throughput	1075.70	2424.36	3538.75	3857.37	4165.25	4250.15	4344.72	3661.04	626.51
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.16	2.22	2.36	2.45	2.86	4.50	2.46	0.24
Throughput	2049.31	3048.72	3719.28	3897.67	4158.81	4268.42	4318.93	3826.42	439.52
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47375.29	47651.77	47664.07	47665.55	47667.27	47711.54	47884.58	47661.10	3.20
Fairness of sim. thr. (F+S)	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.69	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	110.40	114.14	115.79	117.02	118.40	120.62	120.91	117.11	2.60
Throughput	22865.91	22904.60	23349.49	23627.82	23874.99	24024.36	25044.18	23617.37	525.49
Simultaneous throughput	20822.40	21353.44	21904.43	22663.29	23063.72	23532.50	25406.05	22570.78	1159.30
Total drops	40.00	47.00	48.00	49.00	50.00	53.00	59.00	49.25	2.00
Congestion drops	40.00	47.00	48.00	49.00	50.00	53.00	59.00	49.25	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.91	121.29	121.41	121.47	121.47	121.48	121.50	121.42	0.06
Throughput	22755.22	22756.30	22760.60	22761.67	22767.04	22792.84	22865.91	22769.68	6.45
Simultaneous throughput	18619.37	20138.04	20501.44	20858.18	21148.17	21345.37	22246.84	20799.68	646.73
Total drops	37.00	41.00	43.00	45.00	48.00	50.00	55.00	45.33	5.00
Congestion drops	37.00	41.00	43.00	45.00	48.00	50.00	55.00	45.33	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.17	1390.40	1451.26	1534.49	1607.06	1674.33	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	2.00	6.00	8.00	1.50	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	6.00	8.00	1.50	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	15.25	25.51	27.10	27.74	29.54	31.06	34.04	27.86	2.45
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.24
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1048.42	1052.45	1059.63	1066.35	1070.11	1102.95	1037.78	13.90
IP packet delay variation	-20.00	-18.98	-7.01	-6.99	16.98	17.01	233.01	0.14	23.99
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	8.00	8.18	8.87	11.33	16.52	20.74	10.37	3.15
Throughput	610.39	706.03	1115.46	1428.18	1545.31	1579.70	5259.22	1452.17	429.85
Simultaneous throughput	183.65	203.93	212.85	225.06	235.70	245.57	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.70	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.70	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.67	7.54	8.02	9.09	9.49	10.03	14.60	8.87	1.46
Throughput	630.81	853.25	963.94	1013.91	1132.66	1203.58	3445.25	1135.48	168.72
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.17	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.72	7.71	8.24	9.09	9.43	9.83	14.49	8.78	1.20
Throughput	636.18	923.10	973.61	1013.91	1118.69	1176.72	3384.00	1133.89	145.07
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.79	7.76	8.28	9.17	9.48	9.90	14.70	8.93	1.20
Throughput	626.51	904.84	968.24	1005.85	1112.24	1185.31	3307.70	1119.71	144.00
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.66	7.79	8.98	9.62	9.79	10.12	10.30	9.30	0.82
Throughput	895.16	906.99	937.07	958.03	995.10	1132.66	1628.06	1004.64	58.03
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.01	7.78	9.42	9.62	9.78	10.21	14.47	9.56	0.37
Throughput	637.25	899.46	917.73	958.57	977.91	1106.87	1314.27	976.46	60.18
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.13	8.67	9.46	9.63	9.78	10.21	10.69	9.57	0.32
Throughput	861.85	899.46	917.73	956.96	972.54	1048.84	1292.78	968.00	54.81
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	7.54	9.08	9.44	9.64	9.78	10.21	14.53	9.71	0.34
Throughput	634.03	899.46	915.58	955.88	974.69	1002.63	1221.85	956.98	59.10
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	7.17	8.88	9.29	9.53	9.69	9.94	10.05	9.43	0.40
Throughput	916.66	923.10	946.75	967.16	987.58	1020.90	1284.18	981.05	40.84
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for HTTP and Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46707.43	47189.65	47522.41	47664.49	47666.28	47679.46	47882.36	47561.58	143.88
Fairness of sim. thr. (F+S)	0.94	0.95	0.95	0.98	1.00	1.00	1.00	0.98	0.04
Fairness of sim. thr. (F+S+H)	0.66	0.67	0.68	0.70	0.71	0.71	0.72	0.70	0.03
Fairness of sim. thr. (all)	0.56	0.57	0.58	0.60	0.60	0.61	0.62	0.59	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.67	100.36	104.40	107.72	116.68	119.53	120.53	109.15	12.27
Throughput	22937.91	23088.36	23676.18	25665.85	26434.75	27347.10	28019.82	25423.84	2758.57
Simultaneous throughput	21462.64	21995.34	22400.88	24552.58	26274.28	26832.68	27861.14	24441.00	3873.40
Total drops	28.00	33.00	34.00	35.00	37.00	38.00	43.00	35.20	3.00
Congestion drops	28.00	33.00	34.00	35.00	37.00	38.00	43.00	35.20	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.92	121.37	121.47	121.48	121.55	122.66	123.06	121.68	0.09
Throughput	22467.22	22532.78	22720.84	22760.06	22761.67	22770.27	22864.84	22721.43	40.84
Simultaneous throughput	16227.02	16604.90	17033.01	19095.52	20893.97	21620.43	22635.90	19119.01	3860.97
Total drops	30.00	31.00	33.00	36.50	38.00	42.00	48.00	36.45	5.00
Congestion drops	30.00	31.00	33.00	36.50	38.00	42.00	48.00	36.45	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.10	1390.55	1451.26	1534.49	1607.06	1674.21	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	11.97	14.12	16.61	17.46	18.13	18.59	19.78	17.13	1.52
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	674.08	897.59	1040.65	1060.09	1067.84	1101.73	949.05	162.50
IP packet delay variation	-19.99	-19.00	-7.01	4.99	5.01	17.00	149.00	0.17	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	5.10	5.40	5.68	6.52	6.61	6.74	5.72	1.12
Throughput	1879.52	1899.94	1942.93	2231.46	2344.84	2470.57	5238.81	2300.99	401.91
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.55	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.68	5.24	5.42	5.81	6.36	6.43	6.52	5.74	0.93
Throughput	1414.21	1433.55	1445.37	1587.22	1697.91	1755.94	3434.51	1654.17	252.54
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.73	5.30	5.51	5.86	6.41	6.53	6.58	5.81	0.89
Throughput	1400.24	1404.54	1427.10	1572.18	1668.90	1729.07	3372.18	1632.71	241.79
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.80	5.39	5.56	5.94	6.50	6.63	6.68	5.89	0.95
Throughput	1379.82	1389.49	1412.06	1552.30	1642.03	1703.28	3295.88	1611.51	229.97
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.74	4.53	5.18	5.85	6.40	6.47	6.57	5.77	1.22
Throughput	1403.46	1421.73	1438.93	1575.94	1634.51	1955.82	2460.90	1626.56	195.58
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.94	4.13	5.61	5.82	6.43	6.46	6.59	5.82	0.82
Throughput	1399.16	1421.73	1432.48	1584.54	1639.88	2137.43	2337.31	1615.16	207.40
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.95	4.11	5.61	5.87	6.42	6.51	6.59	5.84	0.81
Throughput	1398.09	1413.13	1427.10	1571.10	1642.03	2136.36	2336.24	1611.54	214.93
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.96	4.12	5.62	5.89	6.47	6.52	6.59	5.86	0.85
Throughput	1399.16	1410.99	1424.96	1564.66	1634.51	2136.36	2327.64	1606.38	209.55
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.10	4.33	5.47	5.62	6.31	6.45	6.58	5.62	0.85
Throughput	1401.31	1421.73	1456.12	1639.88	1678.57	2037.49	2250.27	1667.90	222.45
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for HTTP and Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45165.92	45320.60	46132.53	46718.27	47125.63	47397.11	47641.06	46602.10	993.10
Fairness of sim. thr. (F+S)	0.89	0.97	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.64	0.69	0.70	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.55	0.58	0.60	0.60	0.61	0.62	0.62	0.60	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	91.47	108.54	111.24	116.55	120.89	122.90	125.36	115.96	9.65
Throughput	22054.57	22256.60	22831.52	23720.78	24586.39	25462.21	30227.10	23930.14	1754.87
Simultaneous throughput	18620.16	20104.75	20581.06	21955.40	24088.42	25408.45	28429.45	22434.87	3507.36
Total drops	28.00	32.00	34.00	36.00	38.00	40.00	47.00	36.53	4.00
Congestion drops	28.00	32.00	34.00	36.00	38.00	40.00	47.00	36.53	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.53	122.15	122.58	123.94	125.38	127.36	128.20	124.22	2.80
Throughput	21565.61	21641.91	22029.85	22308.18	22511.28	22631.64	22749.85	22262.91	481.43
Simultaneous throughput	13918.47	17093.24	18530.70	19527.00	20703.84	21647.91	24633.32	19538.91	2173.14
Total drops	27.00	30.00	32.00	35.00	38.00	42.00	44.00	35.67	6.00
Congestion drops	27.00	30.00	32.00	35.00	38.00	42.00	44.00	35.67	6.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.06	1390.49	1451.26	1534.49	1607.06	1674.15	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.70	7.02	7.39	9.19	10.92	11.40	14.48	9.35	3.53
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	214.82	298.84	592.45	760.78	866.53	1101.06	558.27	461.94
IP packet delay variation	-24.94	-19.00	-7.00	5.00	5.01	6.17	136.99	0.09	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.35	2.42	2.79	3.75	5.15	5.49	5.89	3.93	2.36
Throughput	2150.33	2263.16	2461.97	3383.46	4412.42	5235.58	5396.78	3555.91	1950.45
Simultaneous throughput	183.64	203.94	212.85	225.06	235.70	245.54	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.17	2.22	2.29	3.10	4.26	5.26	5.63	3.40	1.96
Throughput	1636.66	1705.43	2072.96	2978.33	3767.64	4117.97	4241.55	2981.18	1694.69
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.26	2.33	3.14	4.30	5.28	5.67	3.45	1.97
Throughput	1625.91	1686.09	2050.39	2938.03	3708.54	4029.85	4152.36	2935.21	1658.15
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.27	2.33	2.41	3.19	4.35	5.33	5.76	3.50	1.94
Throughput	1599.04	1672.12	2027.82	2885.91	3636.54	3923.46	4062.09	2881.64	1608.72
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.19	2.25	2.50	3.08	3.73	5.96	2.87	0.82
Throughput	1547.46	2297.55	2773.61	3692.96	4072.84	4205.01	4340.42	3417.04	1299.22
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.14	2.25	2.40	2.93	3.38	5.99	2.76	0.67
Throughput	1539.94	2427.58	3079.88	3839.64	4085.73	4272.72	4341.49	3551.21	1005.85
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.16	2.25	2.40	2.93	3.44	6.00	2.77	0.67

Throughput	1536.72	2426.51	3077.73	3839.10	4085.73	4267.34	4339.34	3546.51	1008.00
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.16	2.24	2.40	2.93	3.41	6.00	2.76	0.68
Throughput	1535.64	2435.10	3076.66	3838.57	4087.88	4265.19	4339.34	3548.79	1011.22
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.15	2.16	2.19	2.33	2.54	3.24	4.70	2.54	0.35
Throughput	1960.12	2718.81	3588.18	3957.85	4158.81	4242.63	4294.21	3754.13	570.63
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Baseline TCP, DiffServ for HTTP and Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47374.78	47650.54	47664.11	47665.90	47667.47	47711.11	47884.16	47661.65	3.35
Fairness of sim. thr. (F+S)	0.96	0.98	1.00	1.00	1.00	1.00	1.00	0.99	0.00
Fairness of sim. thr. (F+S+H)	0.69	0.69	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.17	110.19	115.44	116.43	117.85	118.76	120.76	116.18	2.41
Throughput	22894.93	22957.25	23395.70	23746.03	23901.85	24552.00	25560.00	23814.16	506.15
Simultaneous throughput	20703.34	21807.57	22233.68	22838.59	23345.52	24460.85	25718.98	22969.72	1111.84
Total drops	44.00	47.00	49.00	50.00	52.00	56.00	61.00	51.05	3.00
Congestion drops	44.00	47.00	49.00	50.00	52.00	56.00	61.00	51.05	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.91	121.29	121.41	121.47	121.47	121.47	121.51	121.42	0.06
Throughput	22754.15	22760.60	22760.60	22761.67	22769.19	22792.84	22865.91	22770.05	8.60
Simultaneous throughput	17026.37	18053.16	20223.12	20807.23	21057.29	21268.52	21788.04	20400.11	834.17
Total drops	34.00	37.00	43.00	45.50	48.00	50.00	55.00	45.18	5.00
Congestion drops	34.00	37.00	43.00	45.50	48.00	50.00	55.00	45.18	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.19	1390.43	1451.26	1534.49	1607.06	1674.36	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	13.47	17.90	18.62	19.64	19.83	19.89	19.96	19.10	1.21
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1048.29	1052.32	1059.62	1066.32	1070.07	1102.65	1036.43	14.00
IP packet delay variation	-19.97	-18.99	-7.01	-6.99	16.98	17.01	209.02	0.14	23.99
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	5.04	6.23	6.64	6.78	6.89	6.97	6.29	0.55
Throughput	1817.19	1837.61	1869.85	1908.54	1974.09	2294.33	5259.22	2109.76	104.24
Simultaneous throughput	183.65	203.93	212.85	225.06	235.70	245.57	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.67	5.79	6.29	6.44	6.56	6.61	6.69	6.23	0.27
Throughput	1377.67	1391.64	1403.46	1431.40	1462.57	1579.70	3446.33	1529.44	59.10
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.72	5.84	6.36	6.53	6.67	6.70	6.74	6.32	0.32
Throughput	1368.00	1373.37	1379.82	1410.99	1447.52	1565.73	3384.00	1507.94	67.70
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.79	5.91	6.44	6.64	6.77	6.78	6.83	6.40	0.32
Throughput	1348.66	1355.10	1361.55	1386.81	1428.18	1530.27	3306.63	1486.16	66.63
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.81	5.34	6.31	6.47	6.51	6.55	6.66	6.30	0.20
Throughput	1384.12	1402.39	1413.13	1423.88	1447.52	1649.55	1914.99	1469.66	34.39
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.24	5.97	6.33	6.45	6.50	6.51	6.59	6.35	0.17
Throughput	1398.09	1414.21	1418.51	1429.25	1449.67	1527.04	1757.01	1453.19	31.16
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.22	5.99	6.36	6.46	6.52	6.55	6.66	6.38	0.16
Throughput	1384.12	1404.54	1413.13	1425.49	1449.67	1525.97	1765.61	1448.38	36.54
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.22	6.04	6.37	6.50	6.55	6.56	6.70	6.40	0.18
Throughput	1376.60	1402.39	1405.61	1418.51	1441.07	1519.52	1765.61	1442.42	35.46
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	6.42	6.47	6.52	6.57	6.65	6.73	6.50	0.10
Throughput	1369.07	1385.19	1402.39	1414.21	1421.73	1435.70	1606.57	1418.29	19.34
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47426.79	47799.61	47848.07	47848.35	47848.38	47879.68	48026.32	47834.48	0.31
Fairness of sim. thr. (F+S)	0.88	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.63	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.54	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	93.84	107.38	112.04	112.22	112.94	114.51	120.99	112.14	0.90
Throughput	22851.94	23650.39	24448.84	24636.36	24677.73	25572.90	29464.12	24694.31	228.90
Simultaneous throughput	21418.60	21760.97	21858.30	21985.34	22238.91	23047.42	28977.24	22398.09	380.61
Total drops	0.00	0.00	0.00	0.00	0.00	31.00	38.00	4.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	31.00	38.00	4.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.90	120.99	121.00	121.01	121.01	121.09	120.98	0.01
Throughput	22832.60	22846.57	22848.72	22848.72	22849.79	22866.99	22933.61	22853.42	1.07
Simultaneous throughput	13560.72	20054.67	21498.33	21831.80	21950.86	22087.74	22238.67	21400.07	452.53
Total drops	1.00	1.00	1.00	1.00	1.00	33.00	38.00	5.37	0.00
Congestion drops	1.00	1.00	1.00	1.00	1.00	33.00	38.00	5.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	23.00	0.58	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.18	1390.63	1451.26	1534.49	1607.06	1674.32	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	5.00	7.00	0.75	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	5.00	7.00	0.75	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	10.08	12.47	13.47	14.21	14.66	15.22	17.14	14.05	1.19
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3722.08	3786.74	3801.66	3803.32	3803.32	3803.32	3803.32	3796.98	1.66
Throughput (1st burst)	3640.84	3770.16	3803.32	3803.32	3803.32	3803.32	3803.32	3791.96	0.00
Throughput (2nd burst)	3780.10	3800.00	3803.32	3803.32	3803.32	3803.32	3803.32	3801.99	0.00
Simultaneous throughput	2863.82	2896.16	2959.94	3159.11	3278.53	3410.87	3424.81	3151.27	318.60
Total drops	0.00	0.00	0.00	0.00	0.00	7.00	49.00	3.82	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	7.00	49.00	3.82	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	705.16	852.32	996.30	1107.59	1176.92	1325.74	965.08	255.26
IP packet delay variation	-19.97	-19.00	0.00	5.00	5.01	5.03	161.05	0.26	5.00
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	2.00	4.00	1.49	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	4.36	4.83	5.15	5.37	5.55	11.52	5.41	0.54
Throughput	1100.42	1608.72	2354.51	2460.36	2614.57	2895.04	5082.99	2523.68	260.06
Simultaneous throughput	183.65	203.96	212.85	225.06	235.70	245.57	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	3.86	4.13	4.38	4.52	4.70	6.32	4.37	0.39
Throughput	1457.19	1852.66	2027.82	2104.12	2232.00	2383.52	4153.43	2175.99	204.18
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	3.94	4.20	4.45	4.61	4.77	6.34	4.46	0.40
Throughput	1453.97	1611.94	1994.51	2069.19	2186.87	2340.54	3953.55	2130.15	192.36
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	4.01	4.28	4.54	4.68	4.86	7.37	4.62	0.40
Throughput	1250.87	1416.36	1957.97	2032.12	2142.81	2297.55	3829.97	2072.93	184.84
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.06	3.94	4.21	4.59	4.70	4.88	9.78	4.58	0.49
Throughput	942.45	1884.90	1934.33	2009.55	2184.72	2308.30	3013.25	2064.04	250.39
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.22	4.04	4.29	4.62	4.73	4.91	9.82	4.64	0.44
Throughput	938.15	1870.93	1920.36	1993.97	2128.84	2276.06	2857.43	2035.80	208.48
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.34	4.03	4.33	4.64	4.74	4.92	5.12	4.54	0.40
Throughput	1798.93	1870.93	1920.36	1984.30	2079.40	2282.51	2755.34	2047.76	159.04
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.51	4.03	4.33	4.65	4.74	4.94	9.97	4.68	0.41
Throughput	925.25	1866.63	1916.06	1983.76	2084.78	2282.51	2626.39	2016.05	168.72
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.38	3.85	4.24	4.44	4.53	4.68	4.78	4.35	0.29
Throughput	1926.81	1962.27	2028.90	2077.25	2173.97	2378.15	2726.33	2131.63	145.07
Simultaneous throughput	133.57	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45225.76	47250.65	47628.52	47847.85	47848.35	47882.40	48026.50	47624.06	219.83
Fairness of sim. thr. (F+S)	0.94	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.67	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.00
Fairness of sim. thr. (all)	0.56	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	100.54	106.31	108.23	119.97	120.59	120.81	120.89	115.00	12.36
Throughput	22870.21	22884.18	22917.49	23046.99	25519.16	25805.01	27499.70	24127.23	2601.67
Simultaneous throughput	21418.26	21732.35	21941.36	22104.71	22377.93	23048.27	27468.99	22480.60	436.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	32.00	2.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	32.00	2.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	29.00	0.72	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.86	121.00	121.00	121.01	122.49	128.02	121.54	0.01
Throughput	21596.78	22562.87	22782.09	22848.72	22849.79	22865.91	22933.61	22752.38	67.70
Simultaneous throughput	16397.67	20626.40	21488.04	21714.11	21898.62	22054.05	22405.09	21355.95	410.58
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	2.65	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	2.65	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.15	1390.60	1451.26	1534.49	1607.06	1674.30	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.63	11.18	12.11	12.84	13.60	14.01	16.97	12.76	1.48
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3735.34	3796.68	3798.34	3801.66	3803.32	3803.32	3803.32	3799.38	4.98
Throughput (1st burst)	3667.36	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3799.92	0.00
Throughput (2nd burst)	3786.74	3790.05	3796.68	3800.00	3803.32	3803.32	3803.32	3798.84	6.64
Simultaneous throughput	2867.58	2893.51	2957.36	3159.82	3278.53	3410.87	3421.82	3153.12	321.18
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	41.00	2.38	2.00

Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	41.00	2.38	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	564.89	726.98	879.16	1017.64	1089.88	1320.40	853.02	290.66
IP packet delay variation	-20.00	-19.00	-6.99	5.00	5.01	5.03	161.04	0.16	12.00
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	4.00	1.28	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	3.89	4.27	4.56	4.92	5.12	6.10	4.51	0.64
Throughput	2076.18	2412.54	2569.43	2780.06	2964.90	3221.73	5081.91	2878.17	395.46
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.17	3.35	3.57	3.92	4.20	4.32	5.34	3.87	0.63
Throughput	1724.78	2079.40	2192.24	2350.21	2525.37	2734.93	4243.70	2439.97	333.13
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.27	3.42	3.64	4.00	4.27	4.39	5.39	3.94	0.62
Throughput	1709.73	2039.64	2153.55	2306.15	2477.01	2674.75	4056.72	2390.29	323.46
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.35	3.49	3.73	4.07	4.32	4.47	5.44	4.02	0.59
Throughput	1693.61	1995.58	2117.01	2263.70	2423.28	2609.19	3927.76	2339.33	306.27
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.67	3.63	3.92	4.22	4.49	4.72	5.70	4.22	0.57
Throughput	1616.24	1945.07	2049.31	2184.72	2315.82	2471.64	3446.33	2225.34	266.51
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.70	3.66	4.03	4.27	4.52	4.75	8.62	4.34	0.49
Throughput	1069.25	1931.10	2033.19	2160.54	2281.43	2448.00	3410.87	2182.51	248.24
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.70	3.69	4.04	4.28	4.52	4.75	7.59	4.31	0.48
Throughput	1214.33	1930.03	2033.19	2153.55	2281.43	2448.00	3410.87	2184.31	248.24
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.70	3.69	4.01	4.30	4.52	4.77	8.49	4.34	0.51
Throughput	1085.37	1930.03	2027.82	2143.34	2287.88	2449.07	3410.87	2177.79	260.06
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	2.46	3.52	3.82	4.02	4.25	4.38	5.23	4.02	0.43
Throughput	1761.31	2050.39	2164.30	2293.25	2402.87	2612.42	3745.07	2325.09	238.57
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46742.95	47628.63	47848.19	47848.34	47848.37	47882.16	48026.49	47779.92	0.18
Fairness of sim. thr. (F+S)	0.95	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.68	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.58	0.60	0.60	0.61	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	105.67	113.06	120.24	120.49	120.64	120.80	120.99	119.37	0.40
Throughput	22850.87	22887.40	22915.34	22945.43	22990.57	23013.13	26163.94	23183.25	75.22
Simultaneous throughput	21505.63	21576.42	21733.27	21902.22	22099.75	22396.95	26102.51	22157.13	366.49
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	56.00	5.30	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	56.00	5.30	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.87	121.00	121.00	121.00	121.01	123.88	121.12	0.01
Throughput	22318.93	22848.72	22848.72	22848.72	22848.72	22869.13	22933.61	22826.96	0.00
Simultaneous throughput	16755.54	19815.78	21447.74	21671.11	21760.08	22035.00	22405.30	21379.19	312.34
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	43.00	4.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	43.00	4.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	41.00	1.03	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.16	1390.61	1451.26	1534.49	1607.06	1674.30	1698.09	1533.14	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.37	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.37	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	13.98	20.00	21.15	21.62	22.94	24.57	28.09	21.96	1.79
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3733.68	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3801.12	0.00
Throughput (1st burst)	3664.05	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3798.93	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3154.61	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	42.00	1.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	42.00	1.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1308.14	1464.13	1561.10	1663.96	1769.29	2060.46	1535.24	199.83
IP packet delay variation	-19.97	-19.00	4.93	5.00	5.01	5.03	161.04	0.40	0.07
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	2.00	3.00	1.51	1.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	6.79	7.63	8.00	8.31	9.22	15.01	7.96	0.68
Throughput	844.66	1360.48	1488.36	1584.54	1652.78	1860.18	5081.91	1730.69	164.42
Simultaneous throughput	183.65	203.96	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	5.97	6.55	6.70	7.16	7.70	8.13	6.65	0.61
Throughput	1132.66	1192.84	1283.10	1374.45	1403.46	1447.52	4152.36	1469.61	120.36
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	6.04	6.64	6.78	7.25	7.78	8.16	6.73	0.61
Throughput	1129.43	1181.01	1270.21	1359.40	1388.42	1430.33	3953.55	1448.30	118.21
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	6.11	6.71	6.85	7.33	7.85	8.19	6.81	0.62
Throughput	1125.13	1170.27	1257.31	1344.36	1372.30	1412.06	3829.97	1428.07	114.99
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.70	6.48	6.82	6.99	7.46	7.96	14.02	7.26	0.63
Throughput	657.67	1148.78	1230.45	1318.57	1345.43	1389.49	1960.12	1295.33	114.99
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.76	6.69	6.86	6.98	7.49	7.99	17.90	7.42	0.63
Throughput	514.75	1150.93	1224.00	1319.64	1341.13	1361.55	1601.19	1275.88	117.13
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	6.69	6.87	6.99	7.49	8.00	8.28	7.18	0.62
Throughput	1112.24	1152.00	1224.00	1318.57	1341.13	1361.55	1604.42	1290.33	117.13
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.74	6.77	6.88	7.04	7.51	7.99	8.28	7.21	0.63
Throughput	1112.24	1150.93	1221.85	1308.90	1338.99	1350.81	1604.42	1285.01	117.13
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.04	6.46	6.55	6.68	7.23	7.60	8.04	6.91	0.67
Throughput	1145.55	1205.73	1264.84	1379.82	1403.46	1419.58	1527.04	1338.50	138.63
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.54	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47542.88	47654.48	47848.20	47848.34	47848.36	47882.44	48026.46	47830.62	0.16
Fairness of sim. thr. (F+S)	0.92	0.98	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.65	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.56	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.83	109.99	111.99	112.18	112.70	113.69	119.90	111.85	0.71
Throughput	23059.34	24312.36	24524.06	24646.57	24679.88	25118.33	29154.63	24748.68	155.82
Simultaneous throughput	21361.99	21674.16	21813.08	21943.46	22107.81	22265.35	28457.31	22360.43	294.73
Total drops	0.00	0.00	0.00	0.00	0.00	4.00	35.00	3.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	4.00	35.00	3.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.87	120.98	121.00	121.01	121.01	121.67	121.00	0.02
Throughput	22724.06	22846.57	22847.64	22848.72	22848.72	22868.06	22933.61	22850.41	1.07
Simultaneous throughput	15307.85	19311.56	21513.24	21857.83	22003.74	22150.05	22324.39	21448.34	490.50
Total drops	1.00	1.00	1.00	1.00	1.00	3.00	40.00	4.62	0.00
Congestion drops	1.00	1.00	1.00	1.00	1.00	3.00	40.00	4.62	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.18	1390.43	1451.26	1534.49	1607.06	1674.35	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.80	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	14.00	0.80	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	10.07	12.74	13.68	14.69	16.33	17.53	21.44	14.99	2.64
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.80	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	707.31	862.37	1006.69	1057.42	1066.51	1102.60	939.57	195.06
IP packet delay variation	-19.97	-19.00	-7.01	4.99	5.01	17.00	173.00	0.21	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	4.36	4.92	5.31	5.84	6.48	11.84	5.56	0.93
Throughput	1070.33	1803.22	2138.51	2386.75	2578.03	2774.69	5085.13	2436.21	439.52
Simultaneous throughput	183.65	203.93	212.85	225.06	235.70	245.57	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	3.94	4.22	4.52	5.14	5.58	10.06	4.76	0.93
Throughput	915.58	1624.84	1755.94	2039.64	2185.79	2319.04	4157.73	2049.31	429.85
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	4.01	4.29	4.60	5.17	5.61	9.87	4.84	0.88
Throughput	933.85	1617.31	1747.34	2003.64	2142.81	2278.21	3957.85	2010.76	395.46
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.40	4.10	4.38	4.67	5.20	5.64	9.93	4.91	0.83
Throughput	927.40	1610.87	1738.75	1971.40	2105.19	2233.07	3834.27	1978.44	366.45
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.70	4.18	4.46	4.73	5.13	5.70	6.89	4.86	0.66
Throughput	1336.84	1603.34	1723.70	1947.22	2060.06	2152.48	2487.76	1927.16	336.36
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.95	4.18	4.49	4.77	5.26	5.80	6.96	4.95	0.77
Throughput	1323.94	1556.06	1700.06	1932.18	2050.39	2104.12	2333.01	1895.19	350.33
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.95	4.19	4.50	4.78	5.26	5.80	6.91	4.96	0.77

Throughput	1333.61	1556.06	1700.06	1927.88	2033.19	2101.97	2333.01	1891.42	333.13
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.00	4.19	4.52	4.82	5.28	5.80	6.88	4.96	0.76
Throughput	1340.06	1556.06	1701.13	1913.37	2038.57	2099.82	2305.07	1887.04	337.43
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.82	3.99	4.32	4.58	5.17	5.58	6.73	4.76	0.85
Throughput	1369.07	1626.99	1781.73	2012.78	2128.84	2166.45	2409.31	1970.97	347.10
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45588.55	47454.18	47685.27	47839.50	47848.35	47856.94	48019.64	47698.56	163.08
Fairness of sim. thr. (F+S)	0.96	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.69	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.00
Fairness of sim. thr. (all)	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.88	106.71	111.24	119.97	120.58	120.84	121.78	115.61	9.35
Throughput	22703.64	22877.73	22917.49	23044.84	24777.67	25899.58	27138.63	23974.95	1860.18
Simultaneous throughput	21173.96	21743.06	21849.25	22000.37	22200.28	22376.57	25951.37	22194.58	351.03
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	37.00	3.62	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	37.00	3.62	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.57	120.87	121.00	121.01	121.20	121.63	127.00	121.34	0.20
Throughput	21769.79	22658.51	22808.96	22846.57	22848.72	22864.84	22930.39	22787.01	39.76
Simultaneous throughput	17361.04	20922.51	21468.71	21859.90	22030.83	22159.39	22411.68	21562.21	562.12
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	41.00	3.47	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	41.00	3.47	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.05	1390.48	1451.26	1534.49	1607.06	1674.11	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.35	7.83	10.48	11.64	12.97	14.09	15.60	11.53	2.49
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	504.51	657.61	834.92	995.31	1056.54	1101.80	802.83	337.69
IP packet delay variation	-19.98	-19.00	-7.00	5.00	5.01	5.05	173.02	0.17	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	3.14	3.71	4.10	4.57	5.06	5.52	4.15	0.86
Throughput	2294.33	2475.94	2636.06	3091.16	3401.19	3997.61	5236.66	3150.81	765.13
Simultaneous throughput	183.63	203.94	212.85	225.06	235.70	245.54	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.78	2.50	3.23	3.57	4.00	4.32	4.89	3.52	0.77
Throughput	1885.97	2115.94	2233.07	2584.48	2830.57	3516.18	5186.15	2752.82	597.49
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.85	2.58	3.32	3.65	4.07	4.39	4.91	3.60	0.76
Throughput	1876.30	2080.48	2186.87	2526.99	2767.16	3403.34	4975.52	2689.84	580.30
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.93	2.65	3.39	3.73	4.15	4.49	4.94	3.67	0.76
Throughput	1866.63	2040.72	2142.81	2468.42	2706.99	3296.96	4785.31	2625.10	564.18
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.76	2.23	3.51	3.84	4.30	4.59	5.14	3.79	0.78
Throughput	1792.48	1997.73	2101.97	2398.03	2618.87	3197.01	5228.06	2569.19	516.90
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.79	2.24	3.55	3.87	4.29	4.66	5.20	3.82	0.75
Throughput	1770.99	1971.94	2079.40	2384.60	2588.78	3133.61	5154.99	2546.57	509.37
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.80	2.24	3.55	3.88	4.29	4.66	5.20	3.83	0.74
Throughput	1770.99	1971.94	2079.40	2377.07	2583.40	3130.39	5130.27	2542.78	504.00
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.10	2.25	3.56	3.89	4.33	4.64	5.20	3.84	0.77
Throughput	1770.99	1977.31	2085.85	2369.55	2583.40	3138.99	4378.03	2518.68	497.55
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.88	2.15	3.34	3.67	4.11	4.44	4.97	3.63	0.77
Throughput	1854.81	2068.66	2180.42	2513.55	2725.25	3231.40	4903.52	2679.88	544.84
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47543.08	47847.15	47848.06	47848.34	47848.37	47882.35	48026.49	47839.34	0.31
Fairness of sim. thr. (F+S)	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.60	0.60	0.60	0.61	0.61	0.62	0.60	0.01

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	109.11	111.00	120.31	120.46	120.67	120.85	120.99	119.26	0.35
Throughput	22850.87	22874.51	22909.97	22952.42	22978.75	24603.58	25338.63	23204.23	68.78
Simultaneous throughput	21478.71	21552.53	21631.32	21853.36	22140.98	23884.13	24790.43	22148.69	509.66
Total drops	0.00	0.00	0.00	0.00	0.00	53.00	56.00	6.78	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	53.00	56.00	6.78	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.57	120.87	120.98	121.00	121.00	121.01	121.01	120.97	0.02
Throughput	22847.64	22848.72	22848.72	22848.72	22849.79	22866.99	22931.46	22854.98	1.07
Simultaneous throughput	18987.91	19873.47	21368.28	21609.04	21805.92	21944.58	22354.75	21399.20	437.64
Total drops	0.00	0.00	0.00	0.00	0.00	37.00	40.00	4.83	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	37.00	40.00	4.83	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.13	1390.58	1451.26	1534.49	1607.06	1674.25	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.92	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	16.00	0.92	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	13.86	20.74	22.83	23.41	27.58	28.72	30.56	24.35	4.76
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1049.90	1053.60	1060.10	1066.54	1070.15	1105.01	1046.67	12.94
IP packet delay variation	-19.97	-18.99	-7.01	-6.99	16.98	17.01	125.02	0.11	23.99
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	6.46	8.28	8.66	10.15	10.49	18.35	8.92	1.87
Throughput	689.91	1199.28	1245.49	1463.10	1491.58	1739.82	5078.69	1559.98	246.09
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	6.60	7.00	7.21	8.89	9.18	11.03	7.66	1.89
Throughput	836.06	998.33	1030.57	1277.73	1315.34	1371.22	4150.21	1277.87	284.78
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	6.64	7.08	7.30	8.92	9.21	14.30	7.83	1.84
Throughput	644.78	995.10	1027.34	1262.15	1301.37	1377.67	3951.40	1275.82	274.03
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	6.71	7.15	7.38	8.94	9.23	13.88	7.86	1.79
Throughput	664.12	992.96	1025.19	1249.79	1288.48	1361.55	3827.82	1263.76	263.28
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.71	7.16	7.34	7.47	8.20	9.22	9.44	7.82	0.86
Throughput	976.84	995.10	1039.16	1233.13	1253.01	1286.33	1956.90	1196.46	213.85
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.72	7.27	7.39	7.48	8.95	9.30	9.77	7.98	1.56
Throughput	943.52	984.36	1025.19	1232.06	1246.57	1255.16	1609.79	1169.25	221.37
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.71	7.30	7.39	7.50	8.95	9.29	9.87	8.00	1.55
Throughput	933.85	981.13	1026.27	1228.30	1246.57	1255.16	1613.01	1167.80	220.30
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.72	7.31	7.39	7.50	8.98	9.39	9.83	8.04	1.59
Throughput	937.07	971.46	1025.19	1229.37	1246.57	1253.01	1609.79	1162.53	221.37
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	6.66	6.94	7.04	7.19	8.62	8.93	9.83	7.74	1.58
Throughput	938.15	1015.52	1058.51	1282.03	1301.37	1326.09	1384.12	1206.35	242.87
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for HTTP and Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47119.79	47707.99	47848.18	47848.30	47848.36	47882.34	48026.47	47820.80	0.18
Fairness of sim. thr. (F+S)	0.92	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.66	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.55	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	94.24	105.19	112.05	112.21	112.77	113.80	120.79	111.91	0.73
Throughput	22888.48	24049.07	24514.39	24639.04	24666.99	25145.19	29338.39	24745.92	152.60
Simultaneous throughput	21263.39	21674.16	21856.38	21992.64	22166.11	23678.37	28180.11	22427.04	309.73
Total drops	0.00	0.00	0.00	0.00	0.00	31.00	52.00	4.82	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	31.00	52.00	4.82	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	26.00	0.65	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.90	121.00	121.00	121.01	121.01	122.25	121.02	0.01
Throughput	22616.60	22846.57	22846.57	22848.72	22848.72	22866.99	22933.61	22845.60	2.15
Simultaneous throughput	15441.39	19047.87	21497.54	21813.66	21953.99	22060.28	22279.65	21337.94	456.45
Total drops	1.00	1.00	1.00	1.00	1.00	28.00	40.00	5.22	0.00
Congestion drops	1.00	1.00	1.00	1.00	1.00	28.00	40.00	5.22	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.13	1390.59	1451.26	1534.49	1607.06	1674.26	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	10.08	12.20	13.61	14.36	15.00	15.21	16.03	14.05	1.39
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	711.32	859.91	1015.51	1058.14	1066.88	1100.33	942.67	198.23
IP packet delay variation	-19.97	-19.00	-7.01	4.99	5.01	17.00	161.03	0.20	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	4.36	4.85	5.18	5.40	5.54	6.72	5.06	0.55
Throughput	1887.04	2265.31	2340.54	2446.39	2586.63	2825.19	5079.76	2589.56	246.09
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	3.74	4.12	4.42	4.57	4.71	5.23	4.30	0.45
Throughput	1762.39	1905.31	1999.88	2083.16	2206.21	2354.51	4150.21	2197.72	206.33
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	3.81	4.19	4.50	4.64	4.80	5.35	4.38	0.45
Throughput	1721.55	1854.81	1967.64	2046.09	2167.52	2312.60	3951.40	2152.77	199.88
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	3.90	4.27	4.58	4.73	4.89	5.56	4.47	0.46
Throughput	1659.22	1794.63	1936.48	2012.78	2129.91	2265.31	3827.82	2108.69	193.43
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.55	4.01	4.45	4.60	4.84	4.95	5.12	4.57	0.39
Throughput	1800.00	1850.51	1899.94	2003.10	2068.66	2230.93	2592.00	2028.84	168.72
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.60	4.05	4.49	4.65	4.82	4.87	4.93	4.59	0.32
Throughput	1869.85	1879.52	1909.61	1980.54	2050.39	2205.13	2557.61	2018.23	140.78
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.60	4.05	4.48	4.65	4.83	4.93	4.99	4.61	0.35
Throughput	1846.21	1869.85	1904.24	1980.00	2049.31	2197.61	2557.61	2010.81	145.07
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.60	4.05	4.51	4.68	4.84	4.95	5.07	4.62	0.33
Throughput	1818.27	1859.10	1898.87	1969.25	2043.94	2197.61	2557.61	2005.84	145.07
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	3.47	3.88	4.28	4.47	4.60	4.70	5.22	4.42	0.32
Throughput	1764.54	1959.04	1985.91	2062.21	2148.18	2310.45	2658.63	2094.96	162.27
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for HTTP and Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	45275.61	47116.58	47761.20	47848.20	47848.35	47879.67	47952.70	47688.30	87.16
Fairness of sim. thr. (F+S)	0.91	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.65	0.71	0.71	0.71	0.71	0.72	0.72	0.71	0.00
Fairness of sim. thr. (all)	0.55	0.60	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	92.83	107.31	110.81	113.07	120.28	120.71	120.87	114.21	9.46
Throughput	22874.51	22891.70	22937.91	24451.52	24915.22	25517.01	29784.36	24277.94	1977.31
Simultaneous throughput	21452.56	21639.59	21783.03	22043.21	22224.54	22764.21	28299.15	22277.99	441.51
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.75	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	39.00	3.75	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.58	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.74	120.88	121.00	121.01	121.04	121.65	127.88	121.37	0.03
Throughput	21620.42	22499.46	22842.27	22848.72	22848.72	22868.06	22898.15	22782.30	6.45
Simultaneous throughput	14708.37	20114.19	21439.23	21850.53	21908.20	22058.91	22305.05	21448.65	468.97
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	40.00	3.57	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	40.00	3.57	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.12	1390.56	1451.26	1534.49	1607.06	1674.23	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	8.46	9.15	11.13	12.27	13.10	13.77	14.57	12.01	1.98
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	506.79	674.17	851.36	1003.53	1057.24	1097.69	812.82	329.36
IP packet delay variation	-20.00	-19.00	-7.01	5.00	5.01	5.07	161.01	0.15	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.50	3.54	4.04	4.45	4.85	5.06	5.78	4.39	0.81
Throughput	2192.24	2497.43	2604.90	2846.69	3117.49	3417.31	5077.61	2971.16	512.60
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.55	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.95	3.51	3.81	4.14	4.34	4.49	3.73	0.63
Throughput	2052.54	2122.39	2213.73	2417.91	2617.79	2959.52	4148.06	2525.19	404.06
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	3.02	3.58	3.89	4.23	4.42	4.56	3.81	0.65
Throughput	2020.30	2086.93	2173.97	2371.16	2564.06	2878.93	3949.25	2470.30	390.09
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	3.10	3.66	3.98	4.31	4.50	4.66	3.89	0.66
Throughput	1979.46	2046.09	2129.91	2316.36	2511.40	2813.37	3825.67	2417.08	381.49
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.40	2.96	3.65	4.03	4.31	4.51	4.82	3.91	0.66
Throughput	1912.84	2025.67	2124.54	2285.73	2475.94	3011.10	3841.79	2414.74	351.40
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.34	2.98	3.69	4.07	4.35	4.55	4.76	3.93	0.66
Throughput	1935.40	2022.45	2114.87	2263.16	2426.51	3017.55	3938.51	2415.36	311.64
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.34	2.98	3.69	4.07	4.34	4.56	4.78	3.93	0.66
Throughput	1928.96	2014.93	2114.87	2263.16	2425.43	3016.48	3937.43	2412.40	310.57
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.38	2.99	3.69	4.08	4.36	4.56	4.80	3.94	0.67
Throughput	1919.28	2009.55	2104.12	2259.40	2425.43	2991.76	3876.18	2407.35	321.31
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.90	2.75	3.57	3.87	4.14	4.29	4.50	3.71	0.57
Throughput	2048.24	2135.28	2226.63	2382.99	2580.18	3161.55	4859.46	2593.16	353.55
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link - Enhanced TCP, DiffServ for HTTP and Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47543.08	47847.91	47848.20	47848.33	47848.36	47882.40	48026.45	47839.49	0.16
Fairness of sim. thr. (F+S)	0.99	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.60	0.60	0.61	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.90	111.04	120.03	120.14	120.35	120.63	120.91	119.04	0.32
Throughput	22866.99	22898.15	22963.70	23013.13	23031.40	24759.40	25388.06	23244.88	67.70
Simultaneous throughput	21433.58	21535.48	21712.11	21855.36	22149.37	23798.83	24457.54	22158.16	437.26
Total drops	0.00	0.00	0.00	0.00	0.00	50.00	67.00	7.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	50.00	67.00	7.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.87	120.98	121.00	121.00	121.00	121.01	120.97	0.02
Throughput	22848.72	22848.72	22848.72	22848.72	22849.79	22868.06	22933.61	22855.14	1.07
Simultaneous throughput	19069.54	19642.90	21386.81	21601.14	21856.38	21988.32	22279.82	21385.34	469.57
Total drops	0.00	0.00	0.00	0.00	0.00	34.00	47.00	5.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	34.00	47.00	5.05	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.14	1390.60	1451.26	1534.49	1607.06	1674.28	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	12.30	16.52	17.33	17.45	17.51	17.56	17.59	17.12	0.18
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	1049.65	1053.37	1060.03	1066.61	1070.13	1103.40	1046.38	13.24
IP packet delay variation	-20.00	-18.99	-7.01	-6.99	16.99	17.01	209.02	0.11	24.00
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.49	5.84	6.78	6.85	6.91	6.95	7.01	6.55	0.13
Throughput	1808.60	1823.64	1833.31	1849.43	1864.48	2063.28	5080.84	2027.82	31.16
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	5.18	5.22	5.25	5.28	5.33	5.38	5.12	0.06
Throughput	1714.03	1724.78	1740.90	1755.40	1765.61	1777.43	4151.28	1853.49	24.72
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	5.29	5.36	5.39	5.42	5.44	5.52	5.25	0.06
Throughput	1668.90	1692.54	1696.84	1710.27	1720.48	1736.60	3952.48	1805.40	23.64
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	5.46	5.53	5.57	5.61	5.62	5.64	5.42	0.07
Throughput	1634.51	1638.81	1643.10	1654.39	1665.67	1685.01	3828.90	1748.26	22.57
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.49	5.26	5.31	5.33	5.37	5.40	5.46	5.32	0.06
Throughput	1688.24	1700.06	1711.88	1728.54	1735.52	1748.42	2050.39	1734.53	23.64
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.70	5.16	5.19	5.22	5.25	5.28	5.39	5.21	0.05
Throughput	1708.66	1744.12	1757.01	1765.61	1774.21	1787.10	1960.12	1768.57	17.19
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.79	5.18	5.22	5.27	5.30	5.35	5.49	5.26	0.07

Throughput	1679.64	1719.40	1736.60	1748.42	1757.01	1774.21	1923.58	1751.21	20.42
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	4.88	5.18	5.22	5.26	5.30	5.33	5.52	5.26	0.08
Throughput	1671.04	1728.00	1739.82	1752.72	1765.61	1770.99	1888.12	1752.74	25.79
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	5.15	5.18	5.19	5.24	5.28	5.31	5.39	5.24	0.08
Throughput	1710.81	1733.37	1746.27	1758.09	1774.21	1779.58	1788.18	1758.06	27.94
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	44116.73	44564.43	45377.48	45936.14	46263.45	46685.53	47136.06	45848.60	885.97
Fairness of sim. thr. (F+S)	0.94	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.67	0.68	0.70	0.71	0.71	0.72	0.72	0.70	0.01
Fairness of sim. thr. (all)	0.56	0.58	0.59	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.93	103.34	111.27	115.58	118.25	120.66	123.95	114.28	6.98
Throughput	22306.03	22557.49	23123.82	23921.19	24766.93	26721.67	27945.67	24271.20	1643.10
Simultaneous throughput	18128.96	19137.26	19718.54	22025.13	23773.57	25679.29	27158.09	22116.11	4055.02
Total drops	9.00	21.00	22.00	25.00	27.00	29.00	33.00	24.90	5.00
Congestion drops	9.00	21.00	22.00	25.00	27.00	29.00	33.00	24.90	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.81	123.79	125.05	125.98	127.41	129.18	131.19	126.23	2.36
Throughput	21074.51	21302.33	21694.57	21946.57	22097.55	22294.21	22512.36	21908.50	402.99
Simultaneous throughput	15936.51	17296.47	18304.77	20594.94	22075.19	23675.81	24416.59	20462.32	3770.43
Total drops	15.00	21.00	24.00	26.00	30.00	32.00	33.00	26.45	6.00
Congestion drops	15.00	21.00	24.00	26.00	30.00	32.00	33.00	26.45	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.12	1390.59	1451.26	1534.49	1607.06	1674.28	1698.09	1533.14	155.81
Total drops	0.00	1.00	2.00	5.50	8.00	9.00	15.00	5.62	6.00
Congestion drops	0.00	1.00	2.00	5.50	8.00	9.00	15.00	5.62	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.74	8.41	8.73	9.40	10.36	11.54	12.21	9.74	1.63
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3737.00	3746.95	3756.89	3770.99	3775.13	3786.74	3790.05	3767.88	18.24
Throughput (1st burst)	3707.16	3723.73	3740.31	3765.19	3786.74	3796.68	3800.00	3762.53	46.43
Throughput (2nd burst)	3740.31	3753.58	3763.53	3775.13	3783.42	3786.74	3800.00	3773.23	19.89
Simultaneous throughput	2854.36	2860.07	2934.13	3139.35	3282.62	3367.92	3406.89	3127.06	348.49
Total drops	8.00	10.00	15.00	19.50	28.00	33.00	40.00	21.38	13.00
Congestion drops	8.00	10.00	15.00	19.50	28.00	33.00	40.00	21.38	13.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	213.26	241.49	323.95	393.95	434.09	557.54	322.22	152.46
IP packet delay variation	-75.15	-19.00	-7.01	5.00	5.01	5.77	89.00	0.03	12.02
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	10.00	1.30	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	2.99	3.18	3.84	5.22	6.30	8.12	4.28	2.05
Throughput	1561.43	2002.03	2410.39	3300.18	3911.64	4134.09	5238.81	3227.29	1501.25
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.17	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.64	2.71	2.74	3.23	4.59	5.72	6.48	3.82	1.85
Throughput	1421.73	1599.04	1891.34	2858.51	3341.01	3392.60	3486.09	2617.74	1449.67
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.68	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.68	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.50	2.64	2.77	3.77	4.89	5.95	6.81	4.03	2.11
Throughput	1354.03	1408.84	1840.84	2442.63	3315.22	3436.66	3685.97	2520.24	1474.39
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.90	1.00
Congestion drops	0.00	0.00	0.00	1.00	1.00	2.00	2.00	0.90	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.62	2.78	2.91	4.65	6.42	6.90	8.76	4.75	3.51
Throughput	1052.06	1313.19	1432.48	1980.54	3165.85	3299.10	3512.96	2235.41	1733.37
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.28	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.28	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.17	2.24	2.30	2.48	2.92	5.21	6.34	3.06	0.62
Throughput	1453.97	1752.72	2979.94	3713.91	3989.01	4084.66	4242.63	3341.39	1009.07
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.43	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.43	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.15	2.31	2.44	2.57	3.28	4.74	5.13	3.06	0.85
Throughput	1795.70	1939.70	2699.46	3590.87	3781.61	3953.55	4278.09	3254.00	1082.15
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	3.00	0.38	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.21	2.27	2.47	2.67	3.14	4.77	5.13	3.05	0.68
Throughput	1795.70	1898.87	2926.21	3457.07	3733.25	3953.55	4179.22	3225.63	807.04
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.24	2.43	2.64	2.71	4.77	5.24	2.89	0.29
Throughput	1759.16	1902.09	3353.91	3488.78	3792.36	4018.03	4144.84	3378.47	438.45
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.16	2.27	2.41	2.64	2.77	3.15	2.47	0.36
Throughput	2922.99	3331.34	3493.61	3818.69	4014.81	4224.36	4330.75	3758.72	521.19
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	41506.42	41973.45	42727.05	43155.92	43678.13	44130.05	45195.16	43193.76	951.08
Fairness of sim. thr. (F+S)	0.90	0.97	0.98	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.63	0.69	0.71	0.71	0.72	0.72	0.73	0.71	0.01
Fairness of sim. thr. (all)	0.54	0.59	0.60	0.61	0.62	0.62	0.64	0.61	0.01

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	96.43	112.68	120.43	123.95	127.27	130.24	132.16	122.80	6.83
Throughput	20920.84	21187.34	21592.48	22306.03	22911.04	24275.82	28671.04	22599.59	1318.57
Simultaneous throughput	16370.32	18526.36	19678.37	20783.54	21958.27	23508.89	28173.95	20951.41	2279.90
Total drops	1.00	13.00	14.00	17.00	18.00	20.00	23.00	16.28	4.00
Congestion drops	1.00	13.00	14.00	17.00	18.00	20.00	23.00	16.28	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	128.11	130.87	132.28	134.00	135.42	137.43	139.48	134.02	3.14
Throughput	19822.57	20086.93	20406.09	20632.84	20873.55	21075.58	21581.73	20638.67	467.46
Simultaneous throughput	13030.49	16459.17	17119.59	18460.85	19493.28	20297.44	22992.97	18409.60	2373.69
Total drops	9.00	14.00	16.00	17.00	19.00	21.00	28.00	17.50	3.00
Congestion drops	9.00	14.00	16.00	17.00	19.00	21.00	28.00	17.50	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.18	1390.43	1451.26	1534.49	1607.06	1674.43	1698.09	1533.13	155.81
Total drops	0.00	0.00	0.00	2.00	5.00	7.00	8.00	2.83	5.00
Congestion drops	0.00	0.00	0.00	2.00	5.00	7.00	8.00	2.83	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.16	7.46	7.69	8.21	8.61	9.66	11.58	8.42	0.91
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3733.68	3751.92	3758.55	3779.27	3785.08	3790.05	3796.68	3772.73	26.53
Throughput (1st burst)	3680.63	3717.10	3723.73	3761.86	3780.10	3790.05	3800.00	3755.65	56.37
Throughput (2nd burst)	3773.47	3776.79	3786.74	3790.05	3793.37	3796.68	3803.32	3789.80	6.63
Simultaneous throughput	2847.66	2872.10	2939.21	3135.87	3278.28	3382.49	3412.86	3131.08	339.06
Total drops	4.00	8.00	11.00	14.50	25.00	31.00	42.00	18.45	14.00
Congestion drops	4.00	8.00	11.00	14.50	25.00	31.00	42.00	18.45	14.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	201.25	211.81	229.37	285.59	336.29	486.27	253.37	73.78
IP packet delay variation	-19.97	-19.00	-9.75	5.00	5.01	14.04	77.95	0.03	14.76
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	5.00	1.22	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	2.70	2.82	3.49	5.02	5.22	7.45	3.86	2.20
Throughput	1701.13	2421.13	2509.25	3626.33	4464.00	4686.45	5259.22	3587.86	1954.75
Simultaneous throughput	183.65	203.93	212.85	225.06	235.70	245.58	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	0.98	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	5.00	0.98	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.19	2.48	2.57	2.72	3.14	4.80	6.02	3.13	0.57
Throughput	1530.27	1888.12	2893.97	3386.15	3551.64	3711.76	4203.94	3132.62	657.67
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.24	2.52	2.61	2.76	3.29	4.91	6.16	3.24	0.68
Throughput	1494.81	1872.00	2768.24	3335.10	3500.06	3653.73	4111.52	3043.40	731.82
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.45	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.28	2.57	2.65	2.88	4.96	5.82	7.94	3.90	2.30
Throughput	1159.52	1489.43	1844.06	3201.31	3436.66	3549.49	4042.75	2678.21	1592.60
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.90	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	2.00	4.00	0.90	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.12	2.17	2.37	2.50	2.64	5.22	2.57	0.33
Throughput	1764.54	2204.06	3683.82	3886.39	4226.51	4340.42	4345.79	3778.71	542.69
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.13	2.17	2.23	2.45	2.73	5.19	2.47	0.28
Throughput	1775.28	2752.12	3705.31	4126.57	4236.18	4315.70	4345.79	3880.99	530.87
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.16	2.17	2.24	2.45	2.66	3.28	2.35	0.28
Throughput	2812.30	3424.84	3760.12	4114.21	4237.25	4269.49	4343.64	3962.82	477.13
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.17	2.19	2.23	2.37	2.60	2.79	2.31	0.17
Throughput	3296.96	3504.36	3804.18	4131.40	4194.27	4237.25	4321.07	4001.21	390.09
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.14	2.17	2.21	2.34	2.44	5.41	2.36	0.17
Throughput	1703.28	3730.03	3918.09	4163.10	4246.93	4306.03	4343.64	4007.58	328.84
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.61	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47001.31	47410.85	47604.25	47611.45	47618.29	47657.52	47707.30	47580.92	14.04
Fairness of sim. thr. (F+S)	0.92	0.95	0.97	1.00	1.00	1.00	1.00	0.98	0.03
Fairness of sim. thr. (F+S+H)	0.66	0.67	0.69	0.71	0.71	0.71	0.72	0.70	0.02
Fairness of sim. thr. (all)	0.56	0.57	0.59	0.60	0.60	0.61	0.62	0.59	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.31	100.04	104.22	112.12	116.78	118.62	120.31	110.82	12.56
Throughput	22980.90	23242.03	23584.84	24660.00	26197.25	27544.84	28412.06	25047.78	2612.42
Simultaneous throughput	20274.26	20837.10	22570.76	23125.66	25579.34	26553.56	28230.07	23831.07	3008.58
Total drops	23.00	25.00	28.00	33.50	38.00	39.00	42.00	32.65	10.00
Congestion drops	23.00	25.00	28.00	33.50	38.00	39.00	42.00	32.65	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.28	121.34	121.54	121.57	121.60	121.62	123.14	121.60	0.06
Throughput	22452.18	22729.43	22736.96	22742.33	22747.70	22776.72	22797.13	22737.20	10.75
Simultaneous throughput	15305.08	16786.77	17965.81	20471.59	20951.22	22618.46	23469.94	19706.98	2985.41
Total drops	26.00	28.00	30.00	32.00	34.00	37.00	42.00	32.42	4.00
Congestion drops	26.00	28.00	30.00	32.00	34.00	37.00	42.00	32.42	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.12	1390.57	1451.26	1534.49	1607.06	1674.24	1698.09	1533.12	155.81
Total drops	0.00	0.00	1.00	2.00	3.00	7.00	11.00	3.02	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	7.00	11.00	3.02	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	13.13	13.78	14.77	16.09	18.46	19.60	21.87	16.71	3.69
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3735.34	3741.97	3750.26	3760.21	3791.71	3798.34	3801.66	3768.00	41.45
Throughput (1st burst)	3667.36	3690.58	3697.21	3717.10	3786.74	3793.37	3803.32	3736.00	89.53
Throughput (2nd burst)	3780.10	3790.05	3800.00	3803.32	3803.32	3803.32	3803.32	3800.00	3.32
Simultaneous throughput	2850.18	2868.83	2950.80	3136.56	3284.07	3369.24	3420.33	3127.16	333.27
Total drops	1.00	3.00	7.00	26.00	29.00	36.00	41.00	21.30	22.00

Congestion drops	1.00	3.00	7.00	26.00	29.00	36.00	41.00	21.30	22.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	533.76	690.99	864.00	996.83	1083.13	1289.69	834.29	305.84
IP packet delay variation	-39.76	-19.00	-7.01	5.00	5.01	5.04	88.99	0.15	12.01
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	2.00	5.00	1.56	1.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	5.30	5.76	9.36	10.34	11.47	13.49	8.44	4.58
Throughput	939.22	1074.63	1225.07	1353.49	2097.67	2373.85	5237.73	1733.78	872.60
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.23	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	5.00	1.23	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.68	5.06	5.47	5.82	6.01	7.86	11.12	6.03	0.54
Throughput	828.54	1128.36	1529.19	1584.00	1659.22	1796.78	3433.43	1621.34	130.03
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.22	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.73	5.11	5.50	5.97	6.43	8.80	10.70	6.19	0.93
Throughput	861.85	1037.01	1408.84	1542.63	1669.97	1779.58	3372.18	1581.04	261.13
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.37	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.37	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.80	5.15	5.77	6.03	6.50	8.89	12.11	6.38	0.73
Throughput	760.84	1014.45	1334.69	1528.12	1584.00	1747.34	3295.88	1544.32	249.31
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.55	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.55	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.50	3.58	3.69	4.62	5.30	6.21	10.50	4.90	1.61
Throughput	876.90	1478.69	1724.78	2006.87	2402.87	2576.96	2636.06	2002.49	678.09
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.49	3.58	3.65	4.44	5.35	6.35	11.73	5.08	1.70
Throughput	785.55	989.73	1715.10	2103.58	2500.66	2559.76	2637.13	2017.61	785.55
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.18	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.55	3.61	3.78	4.49	5.75	7.64	11.74	5.23	1.98
Throughput	785.55	987.58	1601.19	2072.42	2430.81	2537.19	2596.30	1969.33	829.61
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.67	3.80	3.90	4.61	5.46	6.17	11.43	4.95	1.55
Throughput	805.97	1485.13	1610.87	2018.69	2349.13	2415.76	2509.25	1975.73	738.27
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	3.66	3.76	3.81	4.13	5.11	5.81	6.29	4.57	1.29
Throughput	1464.72	1543.16	1790.33	2231.46	2402.87	2441.55	2517.85	2077.71	612.54
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	44088.51	45001.43	45585.30	46138.19	46526.23	47000.30	47346.31	46068.95	940.93
Fairness of sim. thr. (F+S)	0.92	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.66	0.68	0.70	0.71	0.71	0.72	0.72	0.70	0.01
Fairness of sim. thr. (all)	0.56	0.57	0.59	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.94	105.33	109.04	115.35	119.55	121.34	123.33	114.23	10.51
Throughput	22418.87	22765.97	23074.39	23968.48	25122.63	26070.45	27944.60	24277.94	2048.24
Simultaneous throughput	17692.88	19164.26	20756.79	22986.49	24347.39	25970.93	27926.21	22769.93	3590.60
Total drops	14.00	20.00	23.00	25.00	28.00	30.00	34.00	25.12	5.00
Congestion drops	14.00	20.00	23.00	25.00	28.00	30.00	34.00	25.12	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.29	122.98	124.20	125.47	126.72	127.86	131.32	125.66	2.51
Throughput	21053.01	21489.31	21767.64	22036.30	22254.45	22441.43	22609.07	22008.20	486.81
Simultaneous throughput	15068.56	16505.69	18430.98	20008.11	21478.56	23032.76	24980.11	20020.74	3047.58
Total drops	11.00	23.00	24.00	26.50	29.00	31.00	40.00	26.67	5.00
Congestion drops	11.00	23.00	24.00	26.50	29.00	31.00	40.00	26.67	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.13	1390.58	1451.26	1534.49	1607.06	1674.29	1698.09	1533.12	155.81
Total drops	0.00	2.00	3.00	4.00	6.00	8.00	14.00	4.73	3.00
Congestion drops	0.00	2.00	3.00	4.00	6.00	8.00	14.00	4.73	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.77	8.44	8.85	9.63	10.42	11.63	12.71	9.84	1.57
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	216.98	227.37	230.94	234.55	236.72	343.46	229.03	7.18
IP packet delay variation	-19.89	-7.02	-7.00	4.99	5.01	5.02	114.24	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	3.00	3.20	3.48	4.76	5.82	8.13	4.09	1.56
Throughput	1559.28	2166.45	2595.22	3640.30	3958.93	4205.01	5230.21	3341.69	1363.70
Simultaneous throughput	183.65	203.95	212.85	225.06	235.70	245.56	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.97	1.00
Congestion drops	0.00	0.00	0.00	0.50	1.00	3.00	4.00	0.97	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.58	2.68	2.80	2.98	5.23	6.19	8.14	4.05	2.44
Throughput	1132.66	1414.21	1645.25	3092.24	3296.96	3402.27	3572.06	2603.20	1651.70
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.73	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.73	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.50	2.66	2.85	4.47	5.65	6.90	8.45	4.59	2.81
Throughput	1090.75	1317.49	1615.16	2063.28	3031.52	3438.81	3684.90	2291.94	1416.36
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.07	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	2.00	3.00	1.07	2.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.62	2.76	4.37	5.21	6.58	7.07	8.02	5.27	2.21
Throughput	1149.85	1254.09	1364.78	1767.22	2066.51	3293.73	3520.48	1954.72	701.73
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	1.00	1.00	2.00	2.00	3.00	1.35	1.00
Congestion drops	0.00	0.00	1.00	1.00	2.00	2.00	3.00	1.35	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.21	2.25	2.28	2.35	2.75	4.74	6.34	2.91	0.47
Throughput	1452.90	1697.91	3210.99	3921.85	4034.15	4092.18	4176.00	3476.96	823.16
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.27	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.30	2.37	2.49	2.79	3.12	5.02	2.73	0.43
Throughput	1836.54	2666.15	3298.03	3702.63	3885.85	3989.01	4325.37	3517.44	587.82
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.33	2.43	2.65	2.78	3.10	5.35	2.84	0.35
Throughput	1723.70	1956.90	3313.07	3483.40	3789.13	3941.73	4159.88	3411.05	476.06
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.30	2.34	2.42	2.73	2.81	3.03	4.92	2.80	0.38
Throughput	1872.00	3012.18	3284.06	3376.48	3774.09	3909.49	4000.84	3397.46	490.03
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.31	2.39	2.61	2.77	2.96	3.05	2.59	0.38
Throughput	3025.07	3116.42	3327.04	3525.31	3847.16	3983.64	4343.64	3583.93	520.12
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	38613.56	39057.45	40186.13	41119.80	42128.71	42834.38	43469.00	41085.77	1942.57
Fairness of sim. thr. (F+S)	0.93	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.67	0.69	0.71	0.71	0.72	0.72	0.73	0.71	0.01
Fairness of sim. thr. (all)	0.57	0.60	0.61	0.62	0.63	0.63	0.64	0.62	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	113.94	120.85	125.35	131.81	133.25	139.37	143.80	130.40	7.90
Throughput	19226.15	19601.19	20706.99	20975.10	21955.70	22846.57	24265.07	21265.82	1248.72
Simultaneous throughput	14695.50	16413.23	17902.35	19331.08	21197.28	22322.67	26770.85	19694.81	3294.93
Total drops	1.00	13.00	14.00	16.50	18.00	20.00	24.00	16.17	4.00
Congestion drops	1.00	13.00	14.00	16.50	18.00	20.00	24.00	16.17	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	133.20	135.01	136.98	140.35	143.99	147.86	149.95	141.02	7.01
Throughput	18438.45	18650.15	19188.54	19698.99	20176.12	20454.45	20757.49	19626.45	987.58
Simultaneous throughput	14079.70	15015.95	16079.94	17493.13	18110.53	19540.92	22748.51	17319.66	2030.59
Total drops	10.00	13.00	14.00	16.00	18.00	20.00	27.00	16.47	4.00
Congestion drops	10.00	13.00	14.00	16.00	18.00	20.00	27.00	16.47	4.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.04	1390.50	1451.26	1534.49	1607.06	1674.23	1698.09	1533.09	155.81
Total drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.42	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	4.00	6.00	1.42	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.93	7.04	7.46	7.97	8.71	9.31	11.49	8.16	1.25
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	201.24	207.45	224.06	231.53	235.50	259.51	220.44	24.08
IP packet delay variation	-19.97	-18.40	-7.01	4.99	5.01	7.16	47.79	0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.39	2.62	2.83	3.05	5.00	5.28	7.13	3.71	2.16
Throughput	1778.51	2396.42	2527.52	4153.43	4430.69	4808.96	5303.28	3724.28	1903.16
Simultaneous throughput	183.63	203.94	212.85	225.06	235.70	245.55	249.05	224.85	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.50	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.21	2.37	2.49	2.72	2.84	4.23	5.65	2.94	0.35
Throughput	1630.21	1973.01	3209.91	3391.52	3697.79	3777.31	4167.40	3308.70	487.88
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.25	2.41	2.53	2.79	3.09	4.75	6.08	3.17	0.56
Throughput	1515.22	1832.24	2805.85	3308.24	3624.72	3713.91	4095.40	3109.49	818.87
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.30	2.45	2.61	2.87	3.48	5.41	5.74	3.31	0.88
Throughput	1606.57	1683.94	2530.75	3210.99	3535.52	3703.16	4005.13	3004.90	1004.78
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.35	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.15	2.21	2.36	2.52	3.36	5.11	2.54	0.30
Throughput	1803.22	2695.16	3534.45	3900.36	4154.51	4277.01	4345.79	3753.67	620.06
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.13	2.13	2.17	2.28	2.46	3.34	5.50	2.53	0.29
Throughput	1677.49	2739.22	3713.91	4035.76	4236.18	4308.18	4331.82	3815.95	522.27
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.13	2.15	2.21	2.39	2.69	5.20	2.48	0.24

Throughput	1773.13	2845.61	3854.69	4174.93	4292.06	4329.67	4345.79	3919.54	437.37
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.13	2.14	2.19	2.38	2.94	3.46	2.37	0.23
Throughput	2666.15	2745.67	3775.16	4212.54	4298.51	4321.07	4345.79	3966.82	523.34
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.12	2.12	2.13	2.14	2.19	2.31	5.15	2.28	0.06
Throughput	1790.33	3992.24	4216.84	4304.42	4332.90	4344.72	4345.79	4153.62	116.06
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46989.56	47369.66	47590.17	47609.53	47616.32	47664.99	47878.51	47575.36	26.15
Fairness of sim. thr. (F+S)	0.90	0.92	0.95	0.98	1.00	1.00	1.00	0.97	0.05
Fairness of sim. thr. (F+S+H)	0.64	0.66	0.68	0.70	0.71	0.71	0.72	0.69	0.03
Fairness of sim. thr. (all)	0.54	0.56	0.58	0.59	0.60	0.61	0.62	0.59	0.03
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.70	98.80	103.65	108.75	112.64	118.34	120.88	108.69	8.99
Throughput	22873.43	23338.75	24541.25	25424.60	26309.01	27864.00	28299.22	25529.16	1767.76
Simultaneous throughput	19986.05	21131.00	22698.94	24890.11	26430.90	27956.31	29278.66	24595.85	3731.96
Total drops	26.00	27.00	29.00	33.00	34.00	36.00	38.00	31.92	5.00
Congestion drops	26.00	27.00	29.00	33.00	34.00	36.00	38.00	31.92	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.94	121.41	121.54	121.62	121.65	121.72	123.22	121.65	0.11
Throughput	22438.21	22706.87	22726.21	22733.73	22744.48	22772.42	22861.61	22728.17	18.27
Simultaneous throughput	14934.98	15605.84	16538.08	18678.84	20807.90	21756.11	23207.35	18848.71	4269.83
Total drops	26.00	27.00	29.00	31.00	34.00	36.00	39.00	31.45	5.00
Congestion drops	26.00	27.00	29.00	31.00	34.00	36.00	39.00	31.45	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.03	1390.45	1451.26	1534.49	1607.06	1674.41	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	1.00	3.00	6.00	10.00	2.23	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	6.00	10.00	2.23	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	14.74	14.91	16.51	17.52	19.28	19.87	21.36	17.73	2.77
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	227.02	228.83	231.96	235.06	236.91	265.74	231.71	6.23
IP packet delay variation	-19.86	-7.02	-7.00	4.99	5.01	5.02	43.38	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	5.30	5.75	6.49	6.79	10.47	11.86	6.90	1.03
Throughput	1068.18	1207.88	1832.24	1953.13	2189.01	2344.84	5250.63	2023.33	356.78
Simultaneous throughput	183.63	203.93	212.85	225.06	235.70	245.58	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.55	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	5.00	0.55	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.69	4.88	5.86	6.13	6.37	8.82	10.68	6.32	0.50
Throughput	862.93	1011.22	1446.45	1503.40	1558.21	1676.42	3425.91	1554.04	111.76
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.74	4.93	5.90	6.17	6.42	9.13	11.12	6.48	0.52
Throughput	828.54	1005.85	1424.96	1494.81	1545.31	1661.37	3363.58	1529.62	120.36
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.25	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.80	4.98	5.97	6.23	6.74	10.24	12.45	6.72	0.77
Throughput	740.42	844.66	1356.18	1479.22	1542.09	1729.07	3286.21	1493.97	185.91
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	1.00	2.00	0.35	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.69	4.36	5.37	5.64	6.52	6.71	10.86	6.07	1.15
Throughput	848.96	968.24	1405.61	1632.90	1703.28	2107.34	2495.28	1605.76	297.67
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.22	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.22	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.69	3.86	5.17	5.47	6.53	6.66	11.12	5.73	1.36
Throughput	828.54	1373.37	1410.99	1686.09	1764.54	2374.93	2495.28	1690.23	353.55
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.69	3.86	5.25	5.65	6.60	7.58	11.16	6.02	1.35
Throughput	826.39	1011.22	1389.49	1633.43	1748.42	2373.85	2495.28	1637.87	358.93
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.83	3.91	5.25	5.70	6.59	7.77	12.00	6.15	1.35
Throughput	768.36	1104.72	1268.06	1617.31	1752.72	2314.75	2409.31	1609.84	484.66
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.32	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.64	3.85	4.52	5.34	5.49	6.41	6.63	5.18	0.98
Throughput	1389.49	1416.36	1664.60	1725.85	2029.97	2345.91	2532.90	1835.22	365.37
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for HTTP and Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	43880.81	44832.26	45553.55	46225.70	46641.74	46829.55	47020.67	46026.55	1088.18
Fairness of sim. thr. (F+S)	0.95	0.98	0.99	0.99	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.67	0.70	0.70	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.57	0.59	0.59	0.60	0.61	0.61	0.62	0.60	0.02

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	101.17	104.68	108.92	112.67	115.75	118.30	123.68	112.62	6.83
Throughput	22353.31	23322.63	23794.39	24539.64	25161.31	25826.51	27328.84	24602.94	1366.93
Simultaneous throughput	18354.64	20685.27	21641.67	23016.75	23862.44	24377.58	26821.38	22831.29	2220.77
Total drops	9.00	22.00	25.00	28.00	30.00	33.00	43.00	28.18	5.00
Congestion drops	9.00	22.00	25.00	28.00	30.00	33.00	43.00	28.18	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	123.13	123.49	123.88	125.26	126.81	128.59	131.95	125.78	2.93
Throughput	20954.15	21430.21	21752.60	22073.37	22300.66	22379.10	22453.25	21988.10	548.06
Simultaneous throughput	16605.10	18649.90	19153.07	19894.33	20867.06	21407.28	24343.07	20029.74	1713.99
Total drops	13.00	22.00	26.00	29.00	31.00	34.00	43.00	28.80	5.00
Congestion drops	13.00	22.00	26.00	29.00	31.00	34.00	43.00	28.80	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.06	1390.50	1451.26	1534.49	1607.06	1674.17	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.07	7.12	7.20	7.29	7.35	7.40	7.53	7.29	0.16
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	219.12	227.57	231.06	234.60	236.73	269.04	229.36	7.03
IP packet delay variation	-19.97	-7.02	-7.00	4.99	5.01	5.02	46.03	0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.40	2.54	2.59	2.60	2.64	2.68	2.80	2.61	0.05
Throughput	4526.33	4681.07	4802.51	4865.91	4899.22	4959.40	5283.94	4852.13	96.72
Simultaneous throughput	183.64	203.94	212.85	225.06	235.70	245.54	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.18	2.37	2.43	2.47	2.50	2.53	2.58	2.46	0.07
Throughput	3570.99	3635.46	3673.07	3737.55	3778.39	3865.43	4218.99	3746.87	105.31
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.23	2.46	2.51	2.55	2.59	2.62	2.68	2.55	0.08
Throughput	3438.81	3504.36	3553.79	3609.13	3667.70	3717.13	4123.34	3622.08	113.91
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.43	2.54	2.61	2.65	2.68	2.72	2.76	2.64	0.07
Throughput	3344.24	3390.45	3436.66	3482.87	3521.55	3589.25	3797.73	3492.19	84.90
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.21	2.25	2.31	2.36	2.42	2.46	2.59	2.36	0.11
Throughput	3552.72	3749.37	3779.46	3911.10	3991.16	4101.85	4164.18	3902.67	211.70
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.19	2.25	2.28	2.32	2.37	2.43	2.50	2.33	0.09
Throughput	3680.60	3759.04	3874.03	3977.73	4040.60	4079.28	4205.01	3952.77	166.57
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.23	2.26	2.31	2.35	2.39	2.43	2.49	2.35	0.08
Throughput	3696.72	3793.43	3854.69	3926.69	3981.49	4054.57	4134.09	3924.75	126.81
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.23	2.27	2.31	2.35	2.39	2.43	2.49	2.35	0.08
Throughput	3696.72	3794.51	3855.76	3919.70	3981.49	4023.40	4133.01	3919.33	125.73
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.20	2.22	2.25	2.29	2.32	2.38	2.43	2.30	0.07
Throughput	3794.51	3848.24	3962.15	4026.09	4078.21	4142.69	4197.49	4015.48	116.06
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for HTTP and Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	37022.10	38824.03	40202.78	41463.95	42175.54	42807.30	43695.12	41114.77	1972.76
Fairness of sim. thr. (F+S)	0.91	0.97	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.64	0.70	0.70	0.72	0.72	0.72	0.73	0.71	0.02
Fairness of sim. thr. (all)	0.55	0.60	0.61	0.62	0.63	0.63	0.64	0.62	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	110.74	116.88	124.29	130.23	134.20	135.63	145.49	129.52	9.91
Throughput	19003.70	19646.33	20585.55	21230.87	22066.39	23230.21	24965.73	21423.68	1480.84
Simultaneous throughput	15301.74	16408.36	17925.24	19719.14	20858.52	23026.12	26501.83	19648.20	2933.28
Total drops	5.00	14.00	15.00	16.00	18.00	21.00	24.00	16.67	3.00
Congestion drops	5.00	14.00	15.00	16.00	18.00	21.00	24.00	16.67	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	132.52	135.10	137.00	139.64	143.77	148.25	156.39	140.97	6.77
Throughput	17678.69	18539.46	19197.13	19798.93	20153.55	20439.40	20863.88	19640.44	956.42
Simultaneous throughput	13747.56	15304.78	16282.17	17425.42	18416.90	19646.27	21110.97	17442.08	2134.74
Total drops	5.00	14.00	15.00	17.00	18.00	20.00	25.00	16.82	3.00
Congestion drops	5.00	14.00	15.00	17.00	18.00	20.00	25.00	16.82	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.06	1390.53	1451.26	1534.49	1607.06	1674.26	1698.09	1533.10	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.97	7.03	7.09	7.15	7.20	7.26	7.36	7.16	0.11
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	188.61	201.24	208.81	226.07	231.87	235.62	256.55	221.11	23.07
IP packet delay variation	-19.91	-17.13	-7.01	4.99	5.01	6.24	47.52	0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.40	2.48	2.57	2.61	2.68	2.74	2.80	2.62	0.11
Throughput	4533.85	4602.63	4729.43	4850.87	4917.49	5028.18	5290.39	4848.90	188.06
Simultaneous throughput	183.63	203.94	212.85	225.06	235.70	245.56	249.05	224.85	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.19	2.30	2.35	2.42	2.49	2.52	2.58	2.42	0.13
Throughput	3570.99	3644.06	3699.94	3805.79	3892.30	3983.64	4208.24	3813.23	192.36
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.23	2.37	2.44	2.52	2.59	2.61	2.68	2.50	0.15
Throughput	3437.73	3534.45	3553.79	3662.33	3779.46	3886.93	4134.09	3686.48	225.67
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	2.44	2.54	2.62	2.68	2.71	2.78	2.61	0.15
Throughput	3314.15	3391.52	3424.84	3522.09	3624.72	3724.66	3956.78	3541.22	199.88
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.17	2.22	2.26	2.31	2.36	2.41	2.45	2.31	0.10
Throughput	3755.82	3816.00	3908.42	3988.48	4069.61	4149.13	4248.00	3995.06	161.19
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.19	2.20	2.20	2.28	2.33	2.39	2.42	2.28	0.13
Throughput	3806.33	3835.34	3941.73	4037.91	4164.18	4188.90	4214.69	4049.36	222.45
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.16	2.18	2.23	2.32	2.36	2.39	2.47	2.30	0.14
Throughput	3730.03	3834.27	3895.52	3966.99	4126.57	4229.73	4265.19	4005.81	231.04
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.14	2.16	2.20	2.30	2.38	2.40	2.49	2.29	0.18
Throughput	3705.31	3837.49	3868.66	4014.81	4138.39	4251.22	4304.96	4024.29	269.73
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	2.12	2.15	2.18	2.22	2.26	2.29	2.40	2.22	0.08
Throughput	3847.16	4020.18	4076.06	4152.36	4234.03	4278.09	4345.79	4153.49	157.97
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Baseline TCP, DiffServ for HTTP and Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	47137.10	47176.32	47370.43	47468.71	47587.32	47616.61	47715.66	47453.83	216.89
Fairness of sim. thr. (F+S)	0.95	0.97	0.98	1.00	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.67	0.69	0.70	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.58	0.59	0.59	0.60	0.61	0.61	0.62	0.60	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.01	99.24	101.72	107.25	115.68	118.56	119.88	108.68	13.96
Throughput	23063.64	23310.81	23853.49	25778.15	27149.37	27269.73	28499.10	25542.08	3295.88
Simultaneous throughput	18830.26	21239.08	21912.88	23296.24	24427.38	25392.06	26649.91	23198.48	2514.51
Total drops	22.00	26.00	28.00	32.00	34.00	36.00	42.00	31.52	6.00
Congestion drops	22.00	26.00	28.00	32.00	34.00	36.00	42.00	31.52	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.32	121.46	121.67	121.93	122.17	122.55	122.81	121.96	0.51
Throughput	22513.43	22529.55	22626.27	22675.16	22724.06	22746.63	22789.61	22670.22	97.79
Simultaneous throughput	16466.70	18157.77	18697.00	20498.60	21319.57	22269.91	24833.68	20258.47	2622.57
Total drops	17.00	25.00	28.00	30.50	34.00	37.00	48.00	30.98	6.00
Congestion drops	17.00	25.00	28.00	30.50	34.00	37.00	48.00	30.98	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	24.00	0.60	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.09	1390.54	1451.26	1534.49	1607.06	1674.21	1698.09	1533.13	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.27	7.43	7.46	7.51	7.56	7.60	7.67	7.51	0.10
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	227.01	228.87	231.96	235.07	236.92	270.71	231.77	6.20
IP packet delay variation	-19.93	-7.02	-7.00	4.99	5.01	5.02	42.03	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.44	2.59	2.61	2.64	2.68	2.72	2.80	2.65	0.07
Throughput	4524.18	4574.69	4733.73	4800.90	4849.79	4884.18	5201.19	4787.09	116.06
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.55	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	2.44	2.48	2.51	2.54	2.57	2.58	2.51	0.06
Throughput	3572.06	3590.33	3623.64	3670.39	3717.13	3765.49	3951.40	3680.01	93.49
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.38	2.50	2.54	2.61	2.64	2.66	2.68	2.59	0.10
Throughput	3438.81	3469.97	3488.24	3535.52	3619.34	3659.10	3872.96	3560.00	131.10
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.53	2.63	2.68	2.70	2.73	2.75	2.76	2.70	0.06
Throughput	3343.16	3344.24	3374.33	3408.18	3439.88	3503.28	3636.54	3416.27	65.55
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.32	2.36	2.40	2.46	2.49	2.53	2.56	2.45	0.09
Throughput	3607.52	3635.46	3696.72	3741.85	3832.12	3895.52	3980.42	3760.93	135.40
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.33	2.37	2.39	2.42	2.45	2.47	2.50	2.42	0.06
Throughput	3680.60	3722.51	3755.82	3813.85	3853.61	3893.37	3958.93	3809.42	97.79
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.37	2.39	2.40	2.44	2.47	2.48	2.52	2.44	0.06
Throughput	3660.18	3704.24	3736.48	3775.70	3834.27	3854.69	3894.45	3784.41	97.79
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.34	2.38	2.39	2.42	2.45	2.49	2.50	2.43	0.06
Throughput	3679.52	3697.79	3754.75	3813.85	3853.61	3874.03	3937.43	3801.01	98.87
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.28	2.35	2.36	2.39	2.43	2.48	2.57	2.40	0.06
Throughput	3592.48	3720.36	3796.66	3848.78	3896.60	3920.24	4051.34	3836.31	99.94
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	42772.57	44820.10	45409.67	45998.11	46916.76	47227.65	47424.85	45987.06	1507.09
Fairness of sim. thr. (F+S)	0.92	0.96	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.66	0.68	0.70	0.71	0.71	0.71	0.72	0.70	0.02
Fairness of sim. thr. (all)	0.57	0.57	0.59	0.60	0.60	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.39	101.22	106.26	111.56	117.99	121.12	122.80	111.89	11.73
Throughput	22513.43	22791.76	23331.22	24786.81	25896.36	27110.69	28101.49	24815.93	2565.13
Simultaneous throughput	19064.54	19919.56	21433.91	23251.63	25089.78	25522.26	27710.02	23188.69	3655.87
Total drops	4.00	5.00	7.00	8.00	10.00	12.00	30.00	9.45	3.00
Congestion drops	4.00	5.00	7.00	8.00	10.00	12.00	30.00	9.45	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	122.07	122.47	123.06	125.65	127.41	128.94	135.36	125.89	4.35
Throughput	20425.43	21405.49	21689.19	22003.52	22407.04	22558.57	22648.84	21973.14	717.85
Simultaneous throughput	14694.14	17128.56	18427.68	20227.20	21346.34	23396.45	24443.22	20016.41	2918.67
Total drops	7.00	8.00	9.00	10.00	11.00	16.00	23.00	11.30	2.00
Congestion drops	7.00	8.00	9.00	10.00	11.00	16.00	23.00	11.30	2.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.10	1390.54	1451.26	1534.49	1607.06	1674.22	1698.09	1533.13	155.81
Total drops	0.00	1.00	2.00	8.00	12.00	15.00	19.00	8.10	10.00
Congestion drops	0.00	1.00	2.00	8.00	12.00	15.00	19.00	8.10	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.14	7.72	8.53	9.40	10.40	11.48	13.35	9.62	1.87
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3763.53	3771.82	3775.13	3780.93	3783.42	3788.39	3791.71	3780.23	8.29
Throughput (1st burst)	3760.21	3770.16	3776.79	3781.76	3790.05	3793.37	3796.68	3782.43	13.26
Throughput (2nd burst)	3750.26	3760.21	3773.47	3780.10	3786.74	3790.05	3796.68	3778.03	13.27
Simultaneous throughput	2860.07	2879.70	2944.45	3143.24	3288.42	3385.69	3412.86	3137.23	343.96
Total drops	7.00	9.00	11.00	13.50	17.00	19.00	24.00	13.93	6.00
Congestion drops	7.00	9.00	11.00	13.50	17.00	19.00	24.00	13.93	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	220.99	265.79	334.95	396.40	433.70	579.00	330.95	130.62
IP packet delay variation	-20.00	-19.00	-7.00	5.00	5.01	5.04	136.99	0.04	12.01
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	2.00	5.00	1.15	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.06	3.64	4.11	4.67	5.26	5.72	7.25	4.79	1.15
Throughput	1748.42	2095.52	2408.24	2714.51	3016.48	3286.21	4143.76	2743.82	608.24
Simultaneous throughput	183.64	203.95	212.85	225.06	235.70	245.55	249.05	224.86	22.85
Total drops	0.00	1.00	1.00	2.00	4.00	5.00	6.00	2.57	3.00
Congestion drops	0.00	1.00	1.00	2.00	4.00	5.00	6.00	2.57	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.14	2.28	2.70	2.83	3.67	4.82	6.21	3.30	0.97
Throughput	1484.06	1839.76	2413.61	3255.04	3366.81	3948.18	4314.63	3005.41	953.19
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.78	1.00
Congestion drops	0.00	0.00	0.00	0.50	1.00	2.00	4.00	0.78	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	2.42	2.75	3.35	5.90	6.95	12.15	4.52	3.15
Throughput	758.69	1157.37	1524.90	2756.42	3335.64	3474.27	4145.91	2492.89	1810.75
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	5.00	1.90	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	5.00	1.90	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	2.69	2.80	4.67	6.25	6.70	12.08	4.67	3.46
Throughput	762.99	1365.85	1467.94	1972.48	3287.28	3353.91	3806.33	2338.63	1819.34
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	3.00	3.00	4.00	5.00	2.05	3.00
Congestion drops	0.00	0.00	0.00	3.00	3.00	4.00	5.00	2.05	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.91	2.04	2.24	2.57	2.81	3.82	5.16	2.75	0.57
Throughput	1786.03	2109.49	3270.09	3585.49	4107.22	4494.09	4833.67	3569.56	837.13
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	2.00	0.23	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.91	2.10	2.30	2.62	2.83	3.08	5.43	2.75	0.53
Throughput	1695.76	2221.25	3222.81	3515.64	3954.63	4390.93	4815.40	3532.51	731.82
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.33	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	3.00	0.33	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.97	2.12	2.20	2.60	2.78	2.92	5.05	2.66	0.58

Throughput	1823.64	3146.51	3271.16	3540.90	4022.33	4321.07	4667.10	3602.47	751.16
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.94	2.01	2.21	2.66	2.81	2.96	4.60	2.60	0.59
Throughput	2004.18	3103.52	3232.48	3458.15	4034.15	4287.76	4756.30	3637.99	801.67
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.90	2.04	2.20	2.52	2.73	2.89	4.26	2.51	0.53
Throughput	2163.22	3170.15	3377.55	3653.73	4174.93	4436.06	4839.04	3763.24	797.37
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	41626.75	42083.70	42619.27	43257.26	43769.87	44360.70	44681.18	43250.76	1150.60
Fairness of sim. thr. (F+S)	0.89	0.96	0.98	0.99	1.00	1.00	1.00	0.99	0.02
Fairness of sim. thr. (F+S+H)	0.64	0.69	0.70	0.71	0.72	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.56	0.59	0.60	0.61	0.61	0.62	0.63	0.61	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	108.66	115.27	118.72	124.13	127.88	130.26	135.74	123.58	9.16
Throughput	20369.55	21082.03	21354.99	22272.72	23112.00	23959.88	25445.01	22438.61	1757.01
Simultaneous throughput	14249.58	18161.39	19704.64	21028.35	22265.19	22911.37	26294.70	20946.95	2560.55
Total drops	0.00	0.00	0.00	0.00	1.00	4.00	23.00	2.15	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	4.00	23.00	2.15	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	129.30	130.45	131.99	133.83	135.41	137.24	139.08	133.84	3.42
Throughput	19879.52	20096.60	20355.58	20658.09	20945.55	21188.42	21382.93	20664.83	589.97
Simultaneous throughput	12689.27	15316.46	17209.93	18438.13	19741.48	20355.59	24812.75	18464.46	2531.55
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	19.00	1.77	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	19.00	1.77	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.15	1390.62	1451.26	1534.49	1607.06	1674.38	1698.09	1533.12	155.81
Total drops	0.00	0.00	1.00	3.50	9.00	13.00	16.00	5.18	8.00
Congestion drops	0.00	0.00	1.00	3.50	9.00	13.00	16.00	5.18	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.48	6.94	7.28	7.84	8.08	8.99	9.88	7.88	0.79
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3765.18	3771.82	3776.79	3783.42	3790.05	3791.71	3798.34	3783.42	13.26
Throughput (1st burst)	3746.95	3763.53	3770.16	3778.44	3786.74	3793.37	3800.00	3778.70	16.58
Throughput (2nd burst)	3760.21	3773.47	3783.42	3788.39	3796.68	3800.00	3803.32	3788.15	13.26
Simultaneous throughput	2866.33	2888.46	2938.00	3150.37	3300.00	3384.20	3420.33	3139.88	362.00
Total drops	3.00	6.00	8.00	12.00	16.00	18.00	23.00	12.00	8.00
Congestion drops	3.00	6.00	8.00	12.00	16.00	18.00	23.00	12.00	8.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	201.25	212.00	229.92	285.64	332.86	480.03	252.55	73.64
IP packet delay variation	-19.97	-19.00	-8.68	4.99	5.01	12.47	125.02	0.02	13.69
Consecutive packets dropped	1.00	1.00	1.00	1.00	1.00	1.00	3.00	1.05	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.48	3.01	3.39	4.29	4.89	5.36	5.93	4.20	1.50
Throughput	2138.51	2340.54	2569.43	2956.84	3518.33	3983.64	5110.93	3175.87	948.90
Simultaneous throughput	183.65	203.96	212.85	225.06	235.70	245.58	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	1.00	4.00	6.00	7.00	2.08	4.00
Congestion drops	0.00	0.00	0.00	1.00	4.00	6.00	7.00	2.08	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.99	2.07	2.19	2.66	2.91	4.30	5.01	2.82	0.72
Throughput	1838.69	2138.51	3158.33	3458.15	4181.37	4395.22	4626.27	3484.05	1023.04
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.40	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.40	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.07	2.15	2.60	2.85	3.24	4.32	5.66	3.11	0.64
Throughput	1626.99	2118.09	2604.90	3233.01	3534.45	4252.30	4460.78	3171.92	929.55
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	1.02	2.00
Congestion drops	0.00	0.00	0.00	0.00	2.00	3.00	4.00	1.02	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.15	2.24	2.66	2.90	4.27	5.46	6.39	3.46	1.61
Throughput	1443.22	1567.88	2114.87	3174.99	3429.13	4030.93	4280.24	2936.79	1314.27
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.50	3.00	4.00	4.00	1.47	3.00
Congestion drops	0.00	0.00	0.00	0.50	3.00	4.00	4.00	1.47	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.74	1.87	2.14	2.29	2.81	5.17	2.37	0.42
Throughput	1782.81	2110.57	4010.51	4313.55	4837.97	5276.42	5317.25	4209.23	827.46
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.74	1.91	2.15	2.22	2.36	3.07	2.13	0.31
Throughput	2999.28	3725.73	4136.24	4281.85	4722.99	5240.96	5317.25	4384.24	586.75
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.74	1.80	1.99	2.15	2.25	2.44	4.69	2.23	0.25
Throughput	1963.34	3725.73	4050.27	4277.01	4335.04	4882.03	5310.81	4257.21	284.78
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.76	2.01	2.16	2.24	2.35	4.08	2.19	0.23
Throughput	2258.87	3725.73	4115.82	4270.57	4477.97	5200.12	5319.40	4318.82	362.15
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.74	1.77	1.87	2.14	2.15	2.22	4.75	2.11	0.29
Throughput	1941.85	4124.42	4268.42	4308.72	4907.82	5150.69	5310.81	4474.88	639.40
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46987.25	47537.85	47786.03	47800.76	47804.58	47847.44	48024.61	47740.51	18.55
Fairness of sim. thr. (F+S)	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.70	0.71	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.60	0.60	0.60	0.61	0.61	0.62	0.60	0.01

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	106.85	108.04	110.56	120.51	120.82	120.92	121.07	116.48	10.25
Throughput	22835.82	22857.31	22883.10	22942.21	24951.76	25557.85	25875.94	23791.81	2068.66
Simultaneous throughput	19865.28	21520.52	21786.01	21970.30	22247.40	22793.48	24405.96	22130.31	461.39
Total drops	0.00	0.00	1.00	2.00	2.00	9.00	36.00	4.80	1.00
Congestion drops	0.00	0.00	1.00	2.00	2.00	9.00	36.00	4.80	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.57	120.91	121.03	121.11	121.13	121.21	123.23	121.22	0.11
Throughput	22437.13	22804.66	22824.00	22827.76	22832.60	22866.99	22931.46	22809.09	8.60
Simultaneous throughput	18566.96	20724.02	21452.56	21755.66	21860.59	22083.73	23428.89	21585.55	408.03
Total drops	1.00	1.00	1.00	2.00	4.00	6.00	37.00	5.60	3.00
Congestion drops	1.00	1.00	1.00	2.00	4.00	6.00	37.00	5.60	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.67	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.08	1390.52	1451.26	1534.49	1607.06	1674.16	1698.09	1533.12	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.63	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.63	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	9.51	11.66	12.48	13.65	14.32	16.16	19.96	13.81	1.84
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3741.97	3783.42	3793.37	3797.51	3803.32	3803.32	3803.32	3794.28	9.95
Throughput (1st burst)	3680.63	3800.00	3803.32	3803.32	3803.32	3803.32	3803.32	3795.11	0.00
Throughput (2nd burst)	3763.53	3780.10	3786.74	3793.37	3803.32	3803.32	3803.32	3793.45	16.58
Simultaneous throughput	2868.83	2892.25	2956.07	3155.68	3317.41	3408.01	3417.34	3148.87	361.34
Total drops	0.00	0.00	0.00	3.50	6.00	9.00	37.00	5.45	6.00
Congestion drops	0.00	0.00	0.00	3.50	6.00	9.00	37.00	5.45	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	588.61	750.19	889.34	1030.30	1103.88	1292.71	870.89	280.10
IP packet delay variation	-19.97	-19.00	-7.00	5.00	5.01	5.03	161.04	0.14	12.00
Consecutive packets dropped	1.00	1.00	1.00	1.00	2.00	2.00	3.00	1.29	1.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.50	4.01	4.44	4.93	5.19	6.05	12.03	5.16	0.74
Throughput	1053.13	2065.43	2363.10	2572.12	2835.94	3131.46	5073.31	2616.29	472.84
Simultaneous throughput	183.64	203.94	212.85	225.06	235.70	245.54	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.22	3.51	3.83	4.20	4.43	5.04	6.15	4.21	0.60
Throughput	1499.10	1823.64	1999.88	2192.24	2409.31	2619.94	4144.84	2250.48	409.43
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.34	3.58	3.90	4.28	4.66	5.07	7.36	4.32	0.76
Throughput	1251.94	1815.04	1920.36	2153.55	2363.10	2559.76	3946.03	2198.58	442.75
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.41	3.65	3.99	4.36	4.71	5.37	7.44	4.51	0.72
Throughput	1239.04	1681.79	1909.61	2114.33	2304.00	2510.33	3823.52	2130.64	394.39
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.20	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.88	3.75	4.10	4.44	4.97	5.31	8.97	4.58	0.87
Throughput	1027.34	1732.30	1833.31	2074.03	2196.54	2424.36	3194.87	2073.65	363.22
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.90	3.78	4.10	4.48	5.07	5.38	9.17	4.65	0.96
Throughput	1004.78	1650.63	1809.67	2057.91	2165.37	2360.96	3181.97	2043.94	355.70
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.07	3.78	4.13	4.50	4.94	5.34	5.69	4.55	0.81
Throughput	1620.54	1704.36	1847.28	2049.85	2171.82	2358.81	3005.73	2061.67	324.54
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.16	3.80	4.12	4.50	5.07	5.58	7.93	4.64	0.95
Throughput	1161.67	1649.55	1805.37	2047.16	2171.82	2364.18	2919.76	2035.80	366.45
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.60	3.48	3.85	4.26	4.44	5.08	5.41	4.26	0.60
Throughput	1704.36	1800.00	2067.58	2163.22	2355.58	2499.58	3544.12	2211.15	288.00
Simultaneous throughput	133.56	148.32	154.80	163.68	171.42	178.58	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	44054.97	45075.10	45759.28	46618.82	46997.07	47195.91	47533.19	46374.34	1237.79
Fairness of sim. thr. (F+S)	0.92	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.65	0.67	0.70	0.71	0.71	0.71	0.72	0.70	0.01
Fairness of sim. thr. (all)	0.55	0.58	0.59	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	102.14	103.02	108.77	117.22	120.03	121.56	122.02	114.69	11.26
Throughput	22657.43	22713.31	22893.85	23585.37	24932.42	26676.54	27069.85	24183.94	2038.57
Simultaneous throughput	17214.55	19537.99	20733.85	22835.14	24782.86	25345.58	28479.40	22797.08	4049.00
Total drops	3.00	5.00	7.00	8.00	10.00	16.00	26.00	9.70	3.00
Congestion drops	3.00	5.00	7.00	8.00	10.00	16.00	26.00	9.70	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.55	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.82	122.43	122.83	124.20	126.20	128.14	131.43	124.84	3.38
Throughput	21035.82	21524.78	21851.46	22260.36	22472.60	22562.87	22696.12	22154.56	621.13
Simultaneous throughput	15198.64	17000.90	18824.57	20344.79	21994.78	23088.16	25934.64	20444.31	3170.21
Total drops	7.00	7.00	8.00	9.00	12.00	13.00	29.00	10.90	4.00
Congestion drops	7.00	7.00	8.00	9.00	12.00	13.00	29.00	10.90	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.07	1390.48	1451.76	1534.49	1607.06	1674.17	1698.09	1533.20	155.30
Total drops	0.00	0.00	3.00	8.00	13.00	15.00	23.00	8.40	10.00
Congestion drops	0.00	0.00	3.00	8.00	13.00	15.00	23.00	8.40	10.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	7.44	8.02	8.50	9.22	10.70	12.51	14.16	9.79	2.19
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	223.08	227.87	231.28	234.66	236.75	284.68	229.93	6.80
IP packet delay variation	-22.79	-7.02	-7.00	4.99	5.01	5.02	55.39	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.03	3.68	4.18	4.69	5.32	5.56	7.65	4.82	1.14
Throughput	1657.07	2263.16	2334.09	2705.37	3018.63	3282.99	4180.30	2733.45	684.54
Simultaneous throughput	183.64	203.94	212.93	225.06	235.70	245.55	249.05	224.87	22.78
Total drops	0.00	0.00	1.00	2.00	4.00	5.00	6.00	2.60	3.00
Congestion drops	0.00	0.00	1.00	2.00	4.00	5.00	6.00	2.60	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.06	2.35	2.78	3.02	3.19	4.50	6.27	3.23	0.40
Throughput	1469.01	1913.91	2655.40	3051.94	3300.18	3885.85	4464.00	3045.71	644.78
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	3.00	0.62	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.14	2.43	2.89	4.11	6.15	7.01	12.64	4.61	3.26
Throughput	729.67	1304.60	1496.96	2243.82	3175.52	3512.96	4309.25	2370.20	1678.57
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.90	3.00
Congestion drops	0.00	0.00	0.00	2.00	3.00	4.00	6.00	1.90	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.23	2.67	2.94	5.56	6.66	7.34	13.09	5.40	3.72
Throughput	703.88	1020.90	1380.90	1659.22	3091.70	3245.37	4139.46	2134.10	1710.81
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	3.00	4.00	5.00	8.00	2.48	4.00
Congestion drops	0.00	0.00	0.00	3.00	4.00	5.00	8.00	2.48	4.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.74	1.81	2.20	2.41	3.00	5.01	6.02	2.90	0.80
Throughput	1530.27	1809.67	3070.21	3819.76	4156.66	4985.19	5287.16	3567.25	1086.45
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.40	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	2.00	2.00	0.40	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.86	1.93	2.25	2.50	2.82	4.52	5.88	2.82	0.58
Throughput	1565.73	2035.34	3234.63	3685.97	4097.55	4680.00	4957.25	3560.32	862.93
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	1.00	3.00	0.28	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.83	2.03	2.25	2.53	2.72	3.17	4.60	2.63	0.47
Throughput	2005.25	2300.78	3381.85	3641.37	4076.06	4491.94	5029.25	3659.80	694.21
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.10	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.90	2.11	2.34	2.55	2.73	2.82	3.89	2.54	0.39
Throughput	2368.48	3241.07	3359.28	3610.21	3940.66	4286.69	4846.57	3695.43	581.37
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	1.90	1.96	2.19	2.44	2.65	2.70	3.10	2.43	0.47
Throughput	2976.72	3393.67	3458.15	3775.16	4189.97	4603.70	4845.49	3841.17	731.82
Simultaneous throughput	133.55	148.32	154.85	163.68	171.42	178.58	181.13	163.54	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	36596.14	38647.39	39699.10	40648.56	41910.18	42654.86	43858.94	40679.44	2211.09
Fairness of sim. thr. (F+S)	0.95	0.98	0.99	0.99	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.69	0.70	0.71	0.72	0.72	0.73	0.73	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.62	0.02
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	115.50	119.23	126.90	131.41	136.54	139.55	153.51	131.66	9.64
Throughput	18009.67	19762.39	20234.15	21039.58	21778.39	22656.36	23937.31	21068.03	1544.24
Simultaneous throughput	15644.57	16351.55	17836.67	19382.22	20645.00	21728.62	23890.55	19318.42	2808.32
Total drops	0.00	0.00	0.00	1.00	2.00	17.00	21.00	3.38	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	17.00	21.00	3.38	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	132.02	135.40	137.75	142.45	145.79	147.92	157.58	142.49	8.04
Throughput	17545.43	18453.49	18957.49	19409.37	20011.70	20367.40	20942.33	19431.78	1054.21
Simultaneous throughput	13593.45	15038.71	15785.18	16866.86	18204.48	19109.97	22358.37	17255.14	2419.30
Total drops	0.00	0.00	0.00	1.00	2.00	15.00	19.00	3.30	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	15.00	19.00	3.30	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.13	1390.61	1451.26	1534.49	1607.06	1674.41	1698.09	1533.12	155.81
Total drops	0.00	0.00	1.00	6.50	10.00	11.00	15.00	5.95	9.00
Congestion drops	0.00	0.00	1.00	6.50	10.00	11.00	15.00	5.95	9.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.14	6.61	7.09	7.56	8.42	9.01	10.39	7.75	1.32
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.20	201.24	206.73	223.50	231.38	235.39	260.07	220.14	24.65
IP packet delay variation	-19.97	-18.38	-7.01	4.99	5.01	7.12	48.03	0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.45	2.50	3.12	4.31	4.83	5.16	8.65	4.16	1.71
Throughput	1464.72	2439.40	2614.57	2939.64	4014.81	4851.94	5164.66	3288.33	1400.24
Simultaneous throughput	183.65	203.96	212.85	225.06	235.70	245.58	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	2.00	5.00	6.00	7.00	2.58	5.00
Congestion drops	0.00	0.00	0.00	2.00	5.00	6.00	7.00	2.58	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.92	2.01	2.28	2.67	2.81	3.05	4.37	2.64	0.53
Throughput	2107.34	2843.46	3221.73	3453.31	4027.70	4371.58	4794.99	3594.79	805.97
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
Congestion drops	0.00	0.00	0.00	0.00	1.00	2.00	2.00	0.53	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.00	2.08	2.50	2.82	3.20	4.51	6.13	3.09	0.70
Throughput	1504.48	1875.22	2858.51	3263.10	3664.48	4173.85	4612.30	3210.10	805.97
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.17	2.00
Congestion drops	0.00	0.00	0.00	1.00	2.00	3.00	4.00	1.17	2.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.09	2.17	2.73	2.91	3.44	5.64	6.45	3.39	0.71
Throughput	1429.25	1606.57	2343.76	3169.61	3371.10	4036.30	4419.94	2985.64	1027.34
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	1.50	3.00	3.00	4.00	1.48	3.00
Congestion drops	0.00	0.00	0.00	1.50	3.00	3.00	4.00	1.48	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.74	1.76	1.99	2.22	2.94	4.55	2.20	0.46
Throughput	2026.75	3100.30	3957.85	4628.96	5192.60	5300.06	5317.25	4443.07	1234.75
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.77	1.82	2.12	2.33	2.46	3.07	2.12	0.52
Throughput	2997.13	3568.84	3942.81	4343.10	5069.01	5151.76	5315.10	4419.08	1126.21
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.77	1.83	2.14	2.27	2.46	5.21	2.21	0.44
Throughput	1768.84	3453.85	4061.01	4315.16	5029.25	5151.76	5315.10	4351.51	968.24
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.75	1.78	1.88	2.15	2.34	2.98	3.79	2.28	0.46
Throughput	2431.88	2838.09	3878.33	4292.06	4544.60	5110.93	5257.07	4199.88	666.27
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.08	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.73	1.84	2.13	2.18	2.57	3.14	2.11	0.34
Throughput	2930.51	3583.88	4164.18	4321.07	4972.30	5314.03	5315.10	4455.62	808.12
Simultaneous throughput	133.56	148.33	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46625.79	47433.64	47771.44	47790.45	47826.76	47846.38	47882.32	47710.63	55.32
Fairness of sim. thr. (F+S)	0.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.70	0.71	0.71	0.71	0.71	0.72	0.72	0.71	0.01
Fairness of sim. thr. (all)	0.59	0.59	0.60	0.61	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	99.81	108.22	108.94	120.17	120.82	120.98	121.09	115.25	11.88
Throughput	22831.52	22850.87	22861.61	23008.30	25293.49	25519.16	27701.73	24059.96	2431.88
Simultaneous throughput	21162.78	21428.62	21690.60	21998.47	22188.69	22585.95	25058.64	22094.83	498.09
Total drops	0.00	0.00	1.00	2.00	3.00	10.00	43.00	4.73	2.00
Congestion drops	0.00	0.00	1.00	2.00	3.00	10.00	43.00	4.73	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.89	120.93	121.02	121.15	121.19	121.85	123.36	121.30	0.17
Throughput	22413.49	22648.84	22812.18	22821.85	22844.42	22848.72	22871.28	22792.84	32.24
Simultaneous throughput	18619.46	20977.82	21500.86	21720.13	21853.95	21926.50	22263.99	21540.34	353.09
Total drops	1.00	1.00	1.00	2.00	5.00	10.00	39.00	6.05	4.00
Congestion drops	1.00	1.00	1.00	2.00	5.00	10.00	39.00	6.05	4.00

Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.19	1390.43	1451.26	1534.49	1607.06	1674.37	1698.09	1533.10	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.67	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.67	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	8.78	11.62	12.20	13.21	13.65	14.28	17.14	13.15	1.44
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	227.04	228.84	231.99	235.05	236.90	266.93	231.76	6.22
IP packet delay variation	-19.91	-7.02	-7.00	4.99	5.01	5.02	43.39	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.50	4.06	4.37	4.72	4.90	5.19	11.38	4.81	0.53
Throughput	1113.31	2436.18	2561.91	2687.64	2876.78	3102.45	5061.49	2765.71	314.87
Simultaneous throughput	183.65	203.93	212.85	225.06	235.70	245.57	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.24	3.53	3.75	4.05	4.17	4.41	6.05	4.00	0.42
Throughput	1522.75	2078.33	2196.54	2276.06	2437.25	2594.15	4123.34	2356.74	240.72
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.05	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.35	3.60	3.83	4.12	4.25	4.48	6.50	4.11	0.42
Throughput	1418.51	2043.94	2158.93	2234.69	2392.12	2541.49	3924.54	2300.80	233.19
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.07	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.42	3.68	3.92	4.22	4.32	4.56	7.81	4.24	0.41
Throughput	1179.94	2004.18	2121.31	2184.72	2341.61	2489.91	3803.10	2243.98	220.30
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.10	3.82	4.05	4.32	4.46	4.67	11.32	4.56	0.41
Throughput	813.49	1970.87	2041.79	2130.99	2270.69	2359.88	2973.49	2115.46	228.90
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.15	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.11	3.86	4.08	4.36	4.50	4.69	5.44	4.35	0.42
Throughput	1694.69	1964.42	2031.04	2112.72	2249.19	2321.19	2961.67	2137.86	218.15
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.14	3.87	4.10	4.37	4.53	4.69	5.42	4.36	0.43

Throughput	1700.06	1954.75	2029.97	2109.49	2236.30	2321.19	2939.10	2135.04	206.33
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.02	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	3.15	3.87	4.10	4.37	4.53	4.70	6.68	4.40	0.43
Throughput	1380.90	1960.12	2019.22	2106.81	2236.30	2328.72	2927.28	2123.11	217.07
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.13	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.94	3.71	3.83	4.12	4.26	4.36	5.28	4.10	0.43
Throughput	1745.19	2061.13	2157.85	2237.91	2383.52	2464.12	3134.69	2267.87	225.67
Simultaneous throughput	133.57	148.31	154.80	163.68	171.42	178.60	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for HTTP and Streaming, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	43946.30	44455.81	45219.80	46398.68	46913.33	47163.51	47465.54	46076.28	1693.53
Fairness of sim. thr. (F+S)	0.90	0.95	0.98	0.99	1.00	1.00	1.00	0.98	0.02
Fairness of sim. thr. (F+S+H)	0.64	0.68	0.70	0.71	0.71	0.71	0.72	0.70	0.01
Fairness of sim. thr. (all)	0.55	0.59	0.59	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	98.97	102.44	106.92	112.79	118.91	120.80	122.31	112.49	11.99
Throughput	22604.78	22767.04	23201.19	24512.78	25799.64	26878.57	27937.07	24669.91	2598.45
Simultaneous throughput	18169.58	19984.40	21588.56	22927.04	24300.77	25359.01	28977.19	23057.06	2712.21
Total drops	4.00	7.00	8.00	11.00	15.00	18.00	37.00	12.47	7.00
Congestion drops	4.00	7.00	8.00	11.00	15.00	18.00	37.00	12.47	7.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.45	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	121.98	122.50	123.05	124.54	127.90	129.94	131.75	125.67	4.85
Throughput	20985.31	21227.10	21591.40	22200.72	22442.51	22522.03	22666.03	22011.96	851.10
Simultaneous throughput	14604.42	16971.79	18425.52	20100.75	21186.76	22964.23	24773.03	20059.25	2761.25
Total drops	6.00	10.00	11.00	13.00	17.00	20.00	30.00	14.55	6.00
Congestion drops	6.00	10.00	11.00	13.00	17.00	20.00	30.00	14.55	6.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.03	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.15	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.03	1390.47	1451.26	1534.49	1607.06	1674.12	1698.09	1533.11	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.36	6.57	6.63	6.69	6.75	6.83	6.89	6.70	0.12
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	221.19	227.66	231.15	234.58	236.70	267.02	229.66	6.92
IP packet delay variation	-19.97	-7.02	-7.00	4.99	5.01	5.02	47.70	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.55	2.70	2.73	2.78	2.80	2.83	2.86	2.77	0.07
Throughput	4432.84	4467.22	4511.28	4560.72	4609.07	4684.30	4971.22	4577.24	97.79
Simultaneous throughput	183.63	203.94	212.85	225.06	235.70	245.54	249.05	224.86	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.88	1.93	2.00	2.05	2.09	2.11	2.14	2.04	0.09
Throughput	4310.33	4339.34	4417.79	4500.00	4613.37	4765.97	4900.30	4528.05	195.58
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.02	2.08	2.15	2.17	2.20	2.21	2.22	2.16	0.05
Throughput	4143.76	4164.18	4168.48	4241.55	4290.99	4434.99	4554.27	4260.79	122.51
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.18	2.23	2.28	2.32	2.35	2.39	2.41	2.32	0.07
Throughput	3818.15	3858.99	3901.97	3965.37	4021.25	4128.72	4229.73	3979.85	119.28
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.91	2.04	2.06	2.09	2.10	2.12	2.19	2.08	0.04
Throughput	4207.16	4345.79	4380.18	4418.33	4467.22	4493.01	4824.00	4432.27	87.04
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.97	2.00	2.03	2.06	2.08	2.11	2.16	2.06	0.06
Throughput	4263.04	4353.31	4419.94	4477.43	4548.90	4608.00	4678.93	4481.60	128.96
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.96	2.02	2.06	2.10	2.12	2.15	2.18	2.09	0.05
Throughput	4229.73	4256.60	4346.87	4389.85	4458.63	4543.52	4696.12	4409.79	111.76
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.98	2.03	2.06	2.08	2.11	2.13	2.19	2.08	0.05
Throughput	4209.31	4325.37	4365.13	4420.48	4474.75	4522.03	4648.84	4424.08	109.61
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.77	1.79	1.80	1.83	1.86	1.93	2.00	1.84	0.06
Throughput	4601.55	4754.15	4880.96	5045.91	5115.22	5152.84	5193.67	5004.35	234.27
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.57	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for HTTP and Streaming, RED+ECN, and Router Queue = 20 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	37864.49	39378.77	40494.40	41432.63	42628.36	43130.74	44275.52	41464.68	2133.96
Fairness of sim. thr. (F+S)	0.94	0.98	0.99	1.00	1.00	1.00	1.00	0.99	0.01
Fairness of sim. thr. (F+S+H)	0.67	0.70	0.71	0.72	0.72	0.72	0.73	0.71	0.01
Fairness of sim. thr. (all)	0.57	0.60	0.61	0.62	0.63	0.64	0.64	0.62	0.02

Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	119.26	123.44	126.72	131.21	134.60	138.29	147.83	131.19	7.88
Throughput	18702.81	19776.36	20452.30	21071.28	21816.00	22312.48	23181.85	21118.19	1363.70
Simultaneous throughput	15015.27	16503.86	17750.72	19228.36	20291.88	21219.60	23040.46	19116.58	2541.16
Total drops	0.00	0.00	0.00	0.50	2.00	4.00	9.00	1.55	2.00
Congestion drops	0.00	0.00	0.00	0.50	2.00	4.00	9.00	1.55	2.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	130.77	133.03	135.74	139.54	142.29	145.50	152.92	139.76	6.54
Throughput	18079.52	18802.75	19335.76	19813.97	20355.58	20596.30	21142.21	19807.41	1019.82
Simultaneous throughput	14952.39	15405.77	16769.98	18620.84	19599.83	21860.35	25895.00	18597.42	2829.85
Total drops	0.00	0.00	0.00	1.00	3.00	7.00	10.00	2.08	3.00
Congestion drops	0.00	0.00	0.00	1.00	3.00	7.00	10.00	2.08	3.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.05	1390.50	1451.26	1534.49	1607.06	1674.25	1698.09	1533.09	155.81
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	5.89	6.35	6.43	6.57	6.65	6.73	6.86	6.55	0.22
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.56	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.19	201.24	209.97	226.49	232.21	235.72	321.10	221.65	22.24
IP packet delay variation	-19.97	-16.73	-7.01	4.99	5.01	6.01	92.67	-0.00	12.02
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics									
HTTP body									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.40	2.55	2.66	2.72	2.78	2.80	2.85	2.71	0.13
Throughput	4443.58	4480.12	4551.04	4659.04	4755.22	4865.91	5274.27	4687.25	204.18
Simultaneous throughput	183.63	203.94	212.85	225.06	235.70	245.56	249.05	224.85	22.85
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 1									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.74	1.86	1.94	2.02	2.06	2.09	2.15	2.00	0.12
Throughput	4286.69	4416.72	4471.52	4556.42	4735.88	4901.37	5300.06	4627.93	264.36
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 2									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.81	2.01	2.08	2.15	2.19	2.20	2.23	2.12	0.11
Throughput	4141.61	4191.04	4215.76	4281.85	4412.42	4503.76	5081.91	4351.22	196.66
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 3									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.91	2.12	2.24	2.30	2.35	2.37	2.40	2.28	0.11
Throughput	3840.72	3880.48	3901.97	4014.27	4119.04	4277.01	4818.63	4059.48	217.07
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 4									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.75	1.84	1.97	2.05	2.09	2.12	2.19	2.02	0.12
Throughput	4210.39	4353.31	4411.34	4493.01	4615.52	4960.48	5275.34	4567.46	204.18
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 5									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.75	1.81	2.00	2.03	2.08	2.12	2.15	2.01	0.08
Throughput	4283.46	4337.19	4438.21	4538.15	4610.15	5063.64	5262.45	4599.30	171.94
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 6									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.75	1.86	1.98	2.05	2.10	2.14	2.15	2.03	0.12
Throughput	4277.01	4299.58	4361.91	4496.78	4590.81	4937.91	5257.07	4555.32	228.90
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 7									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.75	1.78	1.96	2.05	2.09	2.11	2.15	2.01	0.13
Throughput	4285.61	4359.76	4403.82	4487.10	4673.55	5172.18	5259.22	4601.82	269.73
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP inline 8									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.73	1.74	1.78	1.80	1.83	1.89	1.96	1.81	0.06
Throughput	4689.67	4754.15	5010.99	5121.13	5185.07	5274.27	5318.33	5087.63	174.09
Simultaneous throughput	133.55	148.32	154.80	163.68	171.42	178.59	181.13	163.53	16.62
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High-Speed Error-Free Link (minimal LSB) - Enhanced TCP, DiffServ for HTTP and Streaming, and Router Queue = 80 Packets									
Overall									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Overall throughput	46979.61	47450.74	47756.03	47789.51	47798.69	47846.67	48025.73	47727.52	42.66
Fairness of sim. thr. (F+S)	0.96	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Fairness of sim. thr. (F+S+H)	0.68	0.71	0.71	0.71	0.71	0.72	0.72	0.71	0.00
Fairness of sim. thr. (all)	0.58	0.59	0.60	0.60	0.61	0.61	0.62	0.60	0.01
Faster flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	97.02	108.00	109.08	120.31	120.78	121.03	121.20	115.35	11.70
Throughput	22811.10	22837.97	22889.55	22980.36	25206.45	25524.54	28495.88	24047.11	2316.90
Simultaneous throughput	19886.13	21553.88	21696.77	21868.32	22096.80	22211.56	26069.42	22074.24	400.02
Total drops	0.00	0.00	1.00	1.00	2.00	8.00	37.00	4.85	1.00
Congestion drops	0.00	0.00	1.00	1.00	2.00	8.00	37.00	4.85	1.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Slower flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	120.56	120.91	121.04	121.15	121.19	121.26	123.24	121.26	0.15
Throughput	22433.91	22658.51	22813.25	22820.78	22840.12	22862.69	22933.61	22801.00	26.87
Simultaneous throughput	16904.78	21050.98	21393.51	21720.09	21932.83	22133.70	23409.70	21527.52	539.32
Total drops	1.00	1.00	1.00	2.00	6.00	10.00	48.00	6.45	5.00
Congestion drops	1.00	1.00	1.00	2.00	6.00	10.00	48.00	6.45	5.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HTTP transfer									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Simultaneous throughput	1252.06	1390.50	1451.77	1534.49	1607.06	1674.13	1698.09	1533.13	155.30
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Response time	6.59	6.79	6.83	6.89	6.91	6.97	7.02	6.87	0.09
Streaming flow									
Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Throughput	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (1st burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Throughput (2nd burst)	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	3803.32	0.00
Simultaneous throughput	2872.59	2897.30	2959.94	3162.57	3323.18	3410.87	3424.81	3156.40	363.25
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary rexmits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
End-to-end delay	201.21	227.07	228.86	231.96	235.09	236.91	261.05	231.78	6.23
IP packet delay variation	-19.58	-7.02	-7.00	4.99	5.01	5.02	42.03	-0.00	12.01
Consecutive packets dropped	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Per Object Statistics

HTTP body

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.55	2.72	2.75	2.79	2.81	2.82	2.86	2.77	0.06
Throughput	4423.16	4487.64	4504.84	4543.52	4606.93	4658.51	4972.30	4571.62	102.09
Simultaneous throughput	183.64	203.94	212.93	225.06	235.70	245.54	249.05	224.86	22.78
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 1

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	1.87	1.95	2.01	2.05	2.07	2.09	2.14	2.03	0.07
Throughput	4312.48	4417.79	4445.73	4500.54	4584.36	4719.76	4932.54	4532.83	138.63
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 2

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.01	2.08	2.15	2.19	2.21	2.22	2.22	2.17	0.06
Throughput	4142.69	4143.76	4169.55	4215.22	4288.84	4436.06	4581.13	4251.28	119.28
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 3

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.15	2.24	2.28	2.33	2.37	2.37	2.42	2.32	0.09
Throughput	3800.96	3880.48	3882.63	3954.09	4041.67	4107.22	4278.09	3971.18	159.04
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 4

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.03	2.08	2.11	2.15	2.18	2.19	2.20	2.14	0.06
Throughput	4185.67	4195.34	4234.03	4285.61	4359.76	4431.76	4536.00	4308.29	125.73
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 5

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.04	2.06	2.08	2.11	2.14	2.16	2.17	2.11	0.06
Throughput	4243.70	4257.67	4300.66	4373.73	4440.36	4468.30	4509.13	4369.06	139.70
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 6

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.01	2.08	2.10	2.15	2.18	2.19	2.25	2.14	0.07
Throughput	4093.25	4210.39	4236.18	4293.13	4361.91	4440.36	4590.81	4315.78	125.73
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 7

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR
Elapsed time	2.00	2.06	2.09	2.13	2.15	2.18	2.21	2.12	0.06
Throughput	4160.96	4185.67	4259.82	4335.04	4412.42	4468.30	4617.67	4344.69	152.60
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HTTP inline 8

Metric	Min	10%	25%	Median	75%	90%	Max	Average	IQR

Elapsed time	1.88	1.91	1.92	1.96	1.97	2.00	2.05	1.96	0.05
Throughput	4500.54	4587.58	4645.61	4704.72	4768.12	4830.45	4894.93	4710.30	122.51
Simultaneous throughput	133.55	148.32	154.86	163.68	171.42	178.57	181.13	163.53	16.57
Total drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Congestion drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Error drops	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spurious RTOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unnecessary retransmissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

References

Jär06 I. Järvinen, Analysis of Heterogeneous IP Traffic in Wireless Environment. Master's thesis, University of Helsinki, Department of Computer Science, Series of Publications C, No. C-2006-13, February 2006.