# Pantheon Report

Data path: GCE Tokyo on ens4  $(remote) \rightarrow$  GCE Iowa on ens4 (local).

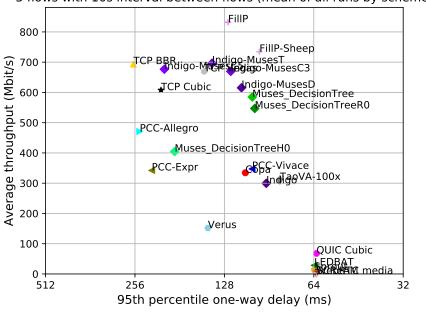
Repeated the test of 24 congestion control schemes 5 times.

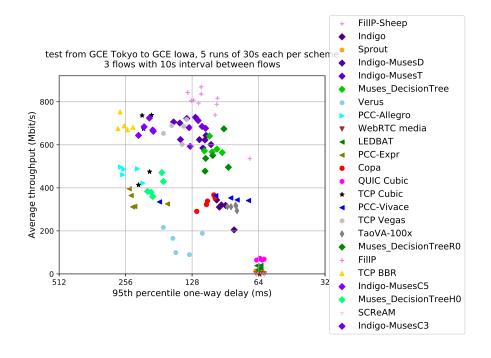
Generated at 2019-09-18 22:49:29 (UTC).

```
Each test lasted for 30 seconds running 3 flows with 10-second interval be-
tween two flows.
  NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.
System info:
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
Git summary:
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
```

M tools/plot.py
third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Tokyo to GCE Iowa, 5 runs of 30s each per scheme 3 flows with 10s interval between flows (mean of all runs by scheme)





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		mean a	mean avg tput (Mbit/s)   mean 95t		th-%ile delay (ms)		mean loss rate (%)			
scheme	# runs	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	370.30	334.85	305.73	243.69	276.69	227.64	1.73	2.77	3.68
Copa	5	169.52	173.40	150.78	104.39	110.81	112.39	0.44	0.66	1.40
TCP Cubic	5	269.53	368.60	281.91	148.28	215.97	171.60	0.60	1.42	2.20
FillP	5	511.53	347.05	274.23	130.45	94.68	71.77	2.21	0.56	1.26
FillP-Sheep	5	433.42	323.82	261.65	103.91	77.05	70.93	0.90	0.56	1.31
Indigo	5	148.70	164.89	125.44	93.90	89.24	82.24	0.34	0.69	1.50
Indigo-MusesC3	5	392.06	336.69	239.82	119.30	130.78	109.97	0.33	0.58	2.28
Indigo-MusesC5	5	412.17	365.11	118.56	201.37	205.69	67.02	1.19	1.80	2.25
Indigo-MusesD	5	369.83	292.54	228.53	117.24	102.00	92.22	0.34	0.67	2.33
Indigo-MusesT	5	406.66	349.61	266.22	143.22	139.76	124.24	0.51	0.68	2.46
LEDBAT	5	15.14	16.36	7.80	63.31	64.04	62.63	0.62	1.23	2.33
$Muses\_DecisionTree$	5	340.12	276.96	197.56	108.36	92.91	111.55	0.36	0.52	1.81
$Muses\_DecisionTreeH0$	5	213.03	192.15	205.45	190.78	187.35	152.75	5.50	2.21	1.88
Muses_DecisionTreeR0	5	306.34	275.09	188.89	102.67	103.08	97.79	0.35	0.69	1.81
PCC-Allegro	5	243.70	246.54	194.74	213.82	274.28	227.76	2.64	5.03	4.88
PCC-Expr	5	199.03	160.52	111.82	230.34	201.77	115.16	3.56	1.46	1.47
QUIC Cubic	5	42.00	29.84	16.93	60.56	62.73	61.34	0.58	1.00	0.60
SCReAM	5	0.22	0.22	0.22	62.68	61.16	60.45	0.38	0.61	1.08
Sprout	5	6.92	6.78	6.50	62.40	63.50	61.94	0.49	0.73	1.55
TaoVA-100x	5	161.88	153.38	142.69	84.37	80.35	85.15	0.43	0.61	1.23
TCP Vegas	5	367.56	338.02	234.58	149.86	150.38	128.19	0.54	0.85	1.30
Verus	5	82.13	63.28	86.73	140.27	141.30	165.55	1.45	0.46	1.17
PCC-Vivace	5	189.74	179.24	117.77	92.40	124.20	107.21	0.41	1.09	1.66
WebRTC media	5	0.05	0.05	0.05	62.17	60.58	61.74	0.00	0.01	0.00

## Run 1: Statistics of TCP BBR

Start at: 2019-09-18 15:57:54 End at: 2019-09-18 15:58:24 Local clock offset: 0.057 ms Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 752.78 Mbit/s

95th percentile per-packet one-way delay: 271.043 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 418.90 Mbit/s

95th percentile per-packet one-way delay: 224.489 ms

Loss rate: 3.63%

-- Flow 2:

Average throughput: 359.87 Mbit/s

95th percentile per-packet one-way delay: 297.682 ms

Loss rate: 5.71%

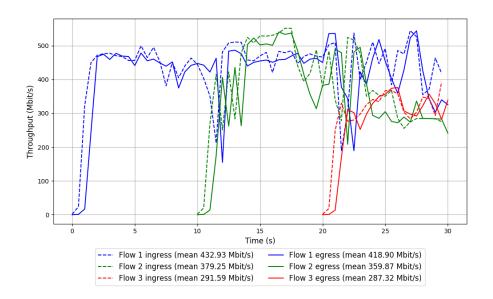
-- Flow 3:

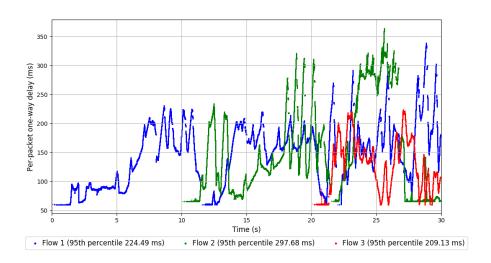
Average throughput: 287.32 Mbit/s

95th percentile per-packet one-way delay: 209.126 ms

Loss rate: 2.69%

Run 1: Report of TCP BBR — Data Link





## Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:37:05 End at: 2019-09-18 16:37:35 Local clock offset: 0.015 ms Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 688.41 Mbit/s

95th percentile per-packet one-way delay: 259.766 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 356.70 Mbit/s

95th percentile per-packet one-way delay: 255.738 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 334.37 Mbit/s

95th percentile per-packet one-way delay: 267.629 ms

Loss rate: 2.15%

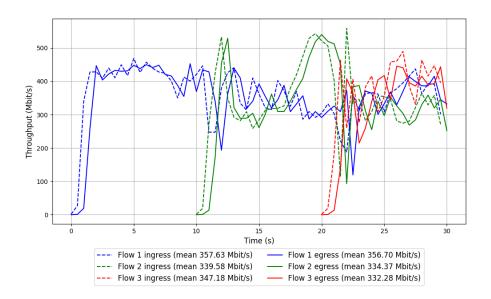
-- Flow 3:

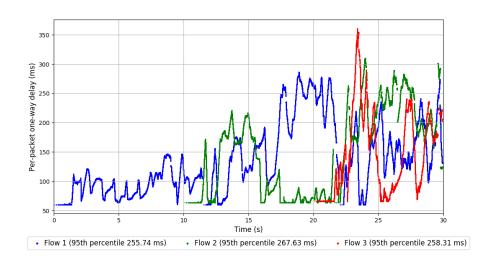
Average throughput: 332.28 Mbit/s

95th percentile per-packet one-way delay: 258.307 ms

Loss rate: 5.53%

Run 2: Report of TCP BBR — Data Link





## Run 3: Statistics of TCP BBR

Start at: 2019-09-18 17:16:45 End at: 2019-09-18 17:17:15 Local clock offset: -0.196 ms Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 670.01 Mbit/s

95th percentile per-packet one-way delay: 251.218 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 367.06 Mbit/s

95th percentile per-packet one-way delay: 224.219 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 320.52 Mbit/s

95th percentile per-packet one-way delay: 267.748 ms

Loss rate: 2.42%

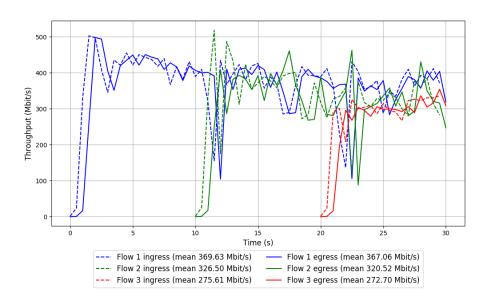
-- Flow 3:

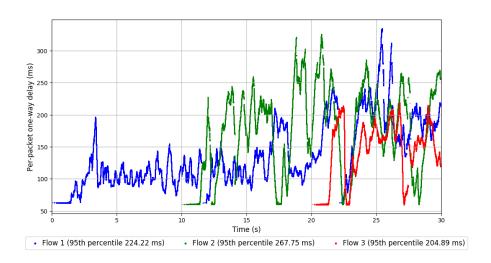
Average throughput: 272.70 Mbit/s

95th percentile per-packet one-way delay: 204.890 ms

Loss rate: 2.27%

Run 3: Report of TCP BBR — Data Link





## Run 4: Statistics of TCP BBR

Start at: 2019-09-18 17:55:54 End at: 2019-09-18 17:56:24 Local clock offset: -0.113 ms Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 681.28 Mbit/s

95th percentile per-packet one-way delay: 236.816 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 348.32 Mbit/s

95th percentile per-packet one-way delay: 235.310 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 334.46 Mbit/s

95th percentile per-packet one-way delay: 243.197 ms

Loss rate: 2.77%

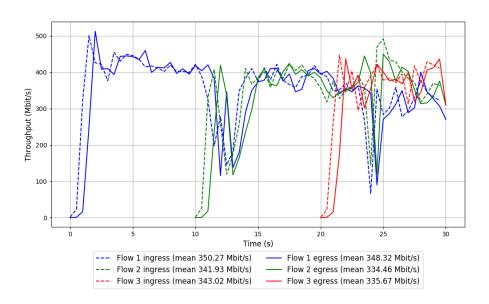
-- Flow 3:

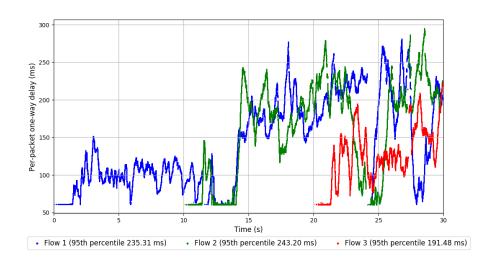
Average throughput: 335.67 Mbit/s

95th percentile per-packet one-way delay: 191.478 ms

Loss rate: 3.34%

Run 4: Report of TCP BBR — Data Link





## Run 5: Statistics of TCP BBR

Start at: 2019-09-18 18:35:09 End at: 2019-09-18 18:35:39 Local clock offset: -0.012 ms Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 675.65 Mbit/s

95th percentile per-packet one-way delay: 277.050 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 360.50 Mbit/s

95th percentile per-packet one-way delay: 278.712 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 325.01 Mbit/s

95th percentile per-packet one-way delay: 307.209 ms

Loss rate: 0.78%

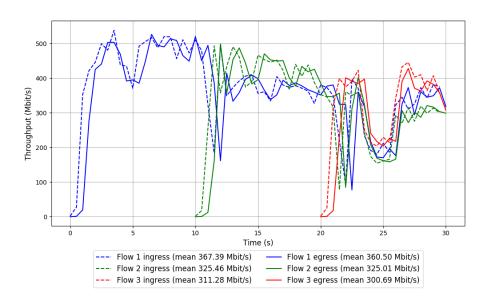
-- Flow 3:

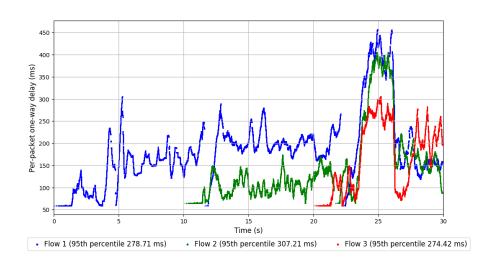
Average throughput: 300.69 Mbit/s

95th percentile per-packet one-way delay: 274.424 ms

Loss rate: 4.59%

Run 5: Report of TCP BBR — Data Link





## Run 1: Statistics of Copa

Start at: 2019-09-18 15:46:42 End at: 2019-09-18 15:47:12 Local clock offset: 0.009 ms Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 353.31 Mbit/s

95th percentile per-packet one-way delay: 100.742 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 175.68 Mbit/s

95th percentile per-packet one-way delay: 87.576 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 196.71 Mbit/s

95th percentile per-packet one-way delay: 118.291 ms

Loss rate: 0.53%

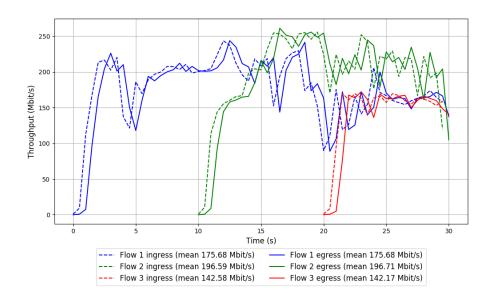
-- Flow 3:

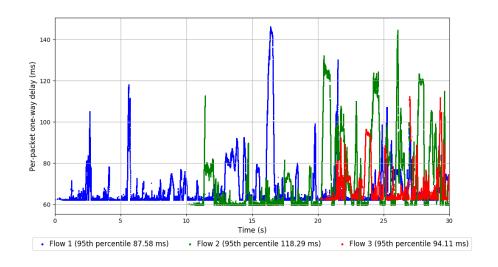
Average throughput: 142.17 Mbit/s

95th percentile per-packet one-way delay: 94.108 ms

Loss rate: 1.52%

Run 1: Report of Copa — Data Link





## Run 2: Statistics of Copa

Start at: 2019-09-18 16:26:10 End at: 2019-09-18 16:26:40 Local clock offset: -0.001 ms Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 322.55 Mbit/s

95th percentile per-packet one-way delay: 110.240 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 153.73 Mbit/s

95th percentile per-packet one-way delay: 121.900 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 183.23 Mbit/s

95th percentile per-packet one-way delay: 99.738 ms

Loss rate: 0.70%

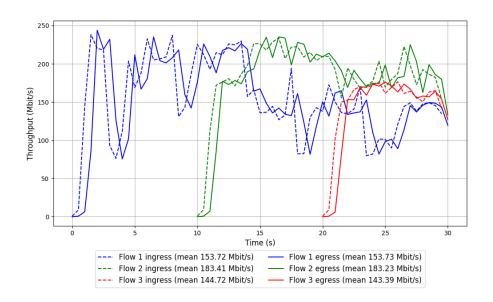
-- Flow 3:

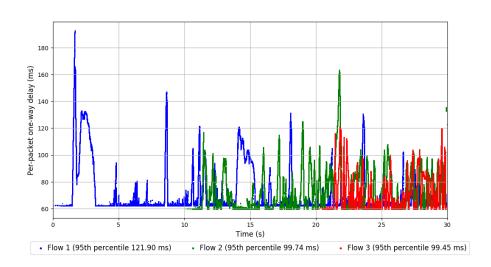
Average throughput: 143.39 Mbit/s

95th percentile per-packet one-way delay: 99.447 ms

Loss rate: 1.53%

Run 2: Report of Copa — Data Link





## Run 3: Statistics of Copa

Start at: 2019-09-18 17:05:41 End at: 2019-09-18 17:06:11 Local clock offset: 0.001 ms Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-09-18 19:38:10

# Datalink statistics
-- Total of 3 flows:

Average throughput: 366.97 Mbit/s

95th percentile per-packet one-way delay: 102.085 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 186.23 Mbit/s

95th percentile per-packet one-way delay: 92.379 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 189.41 Mbit/s

95th percentile per-packet one-way delay: 102.789 ms

Loss rate: 0.69%

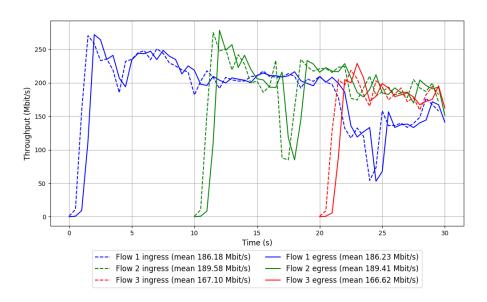
-- Flow 3:

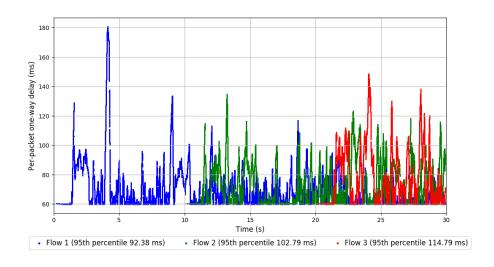
Average throughput: 166.62 Mbit/s

95th percentile per-packet one-way delay: 114.786 ms

Loss rate: 1.48%

Run 3: Report of Copa — Data Link





## Run 4: Statistics of Copa

Start at: 2019-09-18 17:45:10 End at: 2019-09-18 17:45:40 Local clock offset: -0.161 ms Remote clock offset: -0.356 ms

# Below is generated by plot.py at 2019-09-18 19:48:05

# Datalink statistics
-- Total of 3 flows:

Average throughput: 290.72 Mbit/s

95th percentile per-packet one-way delay: 121.932 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 148.84 Mbit/s

95th percentile per-packet one-way delay: 110.012 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 124.21 Mbit/s

95th percentile per-packet one-way delay: 122.282 ms

Loss rate: 0.66%

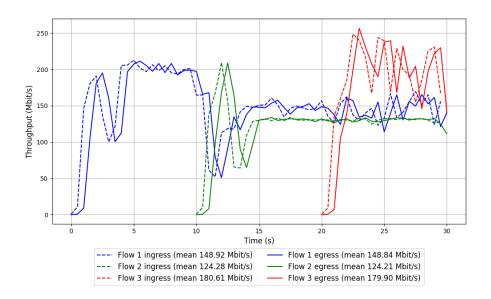
-- Flow 3:

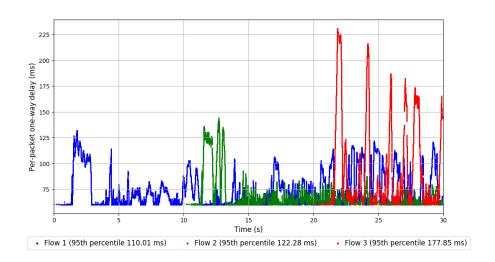
Average throughput: 179.90 Mbit/s

95th percentile per-packet one-way delay: 177.851 ms

Loss rate: 1.62%

Run 4: Report of Copa — Data Link





## Run 5: Statistics of Copa

Start at: 2019-09-18 18:24:16 End at: 2019-09-18 18:24:46 Local clock offset: -0.027 ms Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-09-18 19:52:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 338.60 Mbit/s

95th percentile per-packet one-way delay: 109.018 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 183.11 Mbit/s

95th percentile per-packet one-way delay: 110.107 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 173.43 Mbit/s

95th percentile per-packet one-way delay: 110.961 ms

Loss rate: 0.70%

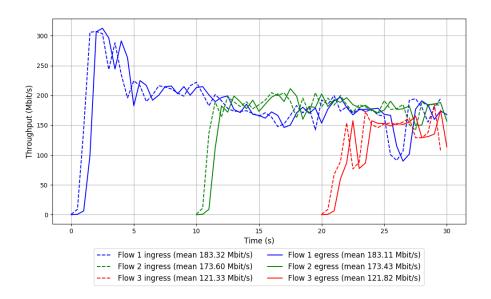
-- Flow 3:

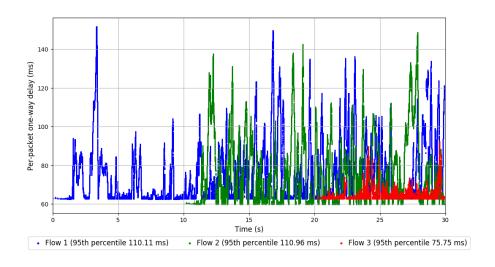
Average throughput: 121.82 Mbit/s

95th percentile per-packet one-way delay: 75.753 ms

Loss rate: 0.86%

Run 5: Report of Copa — Data Link





## Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 16:06:50 End at: 2019-09-18 16:07:20 Local clock offset: -0.005 ms Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2019-09-18 19:52:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 475.04 Mbit/s

95th percentile per-packet one-way delay: 199.367 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 70.93 Mbit/s

95th percentile per-packet one-way delay: 65.707 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 443.92 Mbit/s

95th percentile per-packet one-way delay: 210.097 ms

Loss rate: 1.26%

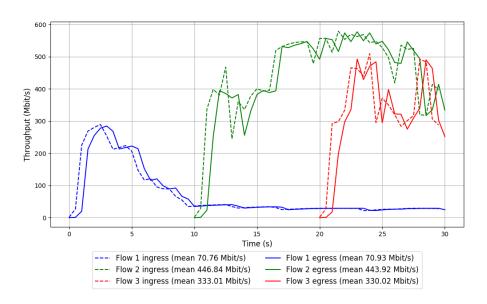
-- Flow 3:

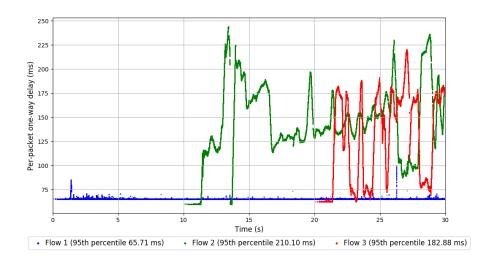
Average throughput: 330.02 Mbit/s

95th percentile per-packet one-way delay: 182.884 ms

Loss rate: 2.13%

Run 1: Report of TCP Cubic — Data Link





## Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:45:52 End at: 2019-09-18 16:46:22 Local clock offset: -0.004 ms Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-09-18 19:56:13

# Datalink statistics
-- Total of 3 flows:

Average throughput: 737.95 Mbit/s

95th percentile per-packet one-way delay: 195.392 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 404.35 Mbit/s

95th percentile per-packet one-way delay: 197.035 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 353.50 Mbit/s

95th percentile per-packet one-way delay: 197.583 ms

Loss rate: 1.04%

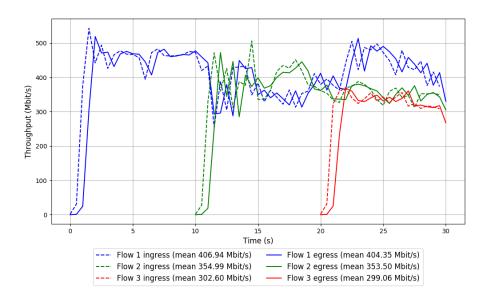
-- Flow 3:

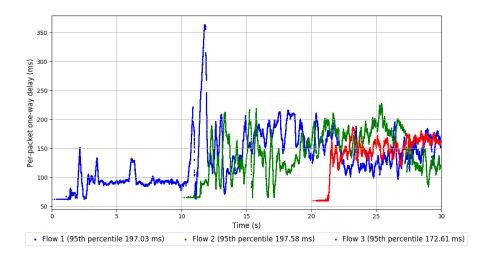
Average throughput: 299.06 Mbit/s

95th percentile per-packet one-way delay: 172.613 ms

Loss rate: 2.36%

Run 2: Report of TCP Cubic — Data Link





## Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 17:25:30 End at: 2019-09-18 17:26:00 Local clock offset: -0.241 ms Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2019-09-18 19:56:13

# Datalink statistics
-- Total of 3 flows:

Average throughput: 736.44 Mbit/s

95th percentile per-packet one-way delay: 215.491 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 389.81 Mbit/s

95th percentile per-packet one-way delay: 204.488 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 343.92 Mbit/s

95th percentile per-packet one-way delay: 226.880 ms

Loss rate: 1.46%

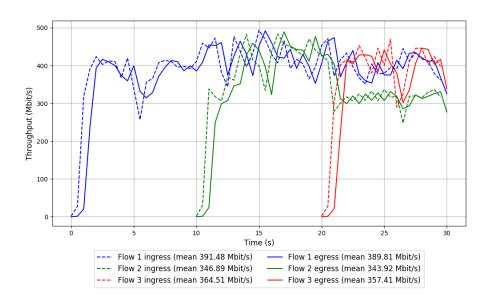
-- Flow 3:

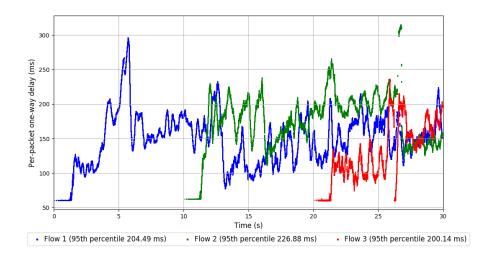
Average throughput: 357.41 Mbit/s

95th percentile per-packet one-way delay: 200.137 ms

Loss rate: 3.16%

Run 3: Report of TCP Cubic — Data Link





## Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 18:04:38 End at: 2019-09-18 18:05:08 Local clock offset: -0.067 ms Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-09-18 19:56:13

# Datalink statistics
-- Total of 3 flows:

Average throughput: 674.57 Mbit/s

95th percentile per-packet one-way delay: 212.228 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 422.18 Mbit/s

95th percentile per-packet one-way delay: 200.220 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 326.90 Mbit/s

95th percentile per-packet one-way delay: 220.931 ms

Loss rate: 2.02%

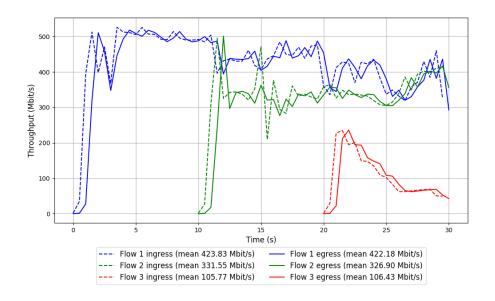
-- Flow 3:

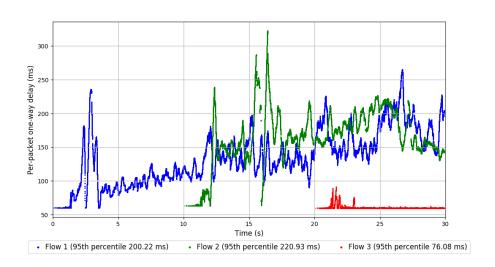
Average throughput: 106.43 Mbit/s

95th percentile per-packet one-way delay: 76.076 ms

Loss rate: 0.61%

Run 4: Report of TCP Cubic — Data Link





## Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 18:43:57 End at: 2019-09-18 18:44:27 Local clock offset: 0.03 ms Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-09-18 19:56:13

# Datalink statistics
-- Total of 3 flows:

Average throughput: 413.81 Mbit/s

95th percentile per-packet one-way delay: 223.745 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 60.37 Mbit/s

95th percentile per-packet one-way delay: 73.963 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 374.78 Mbit/s

95th percentile per-packet one-way delay: 224.376 ms

Loss rate: 1.31%

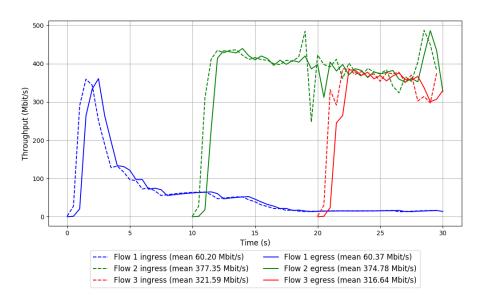
-- Flow 3:

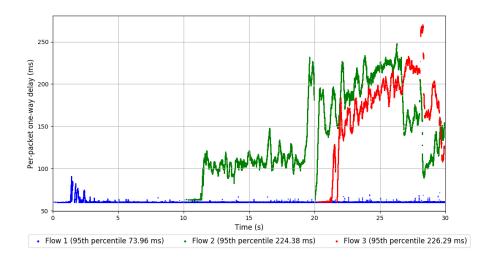
Average throughput: 316.64 Mbit/s

95th percentile per-packet one-way delay: 226.295 ms

Loss rate: 2.74%

Run 5: Report of TCP Cubic — Data Link





## Run 1: Statistics of FillP

Start at: 2019-09-18 16:19:53 End at: 2019-09-18 16:20:23 Local clock offset: -0.008 ms Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2019-09-18 20:03:19

# Datalink statistics
-- Total of 3 flows:

Average throughput: 804.46 Mbit/s

95th percentile per-packet one-way delay: 128.990 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 487.63 Mbit/s

95th percentile per-packet one-way delay: 137.847 ms

Loss rate: 3.07%

-- Flow 2:

Average throughput: 345.29 Mbit/s

95th percentile per-packet one-way delay: 69.457 ms

Loss rate: 0.54%

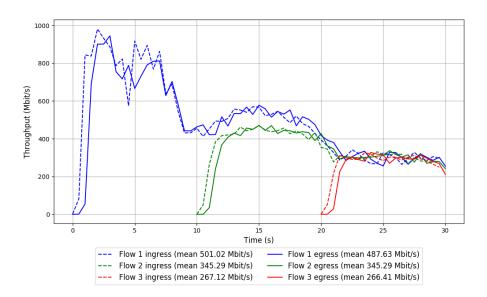
-- Flow 3:

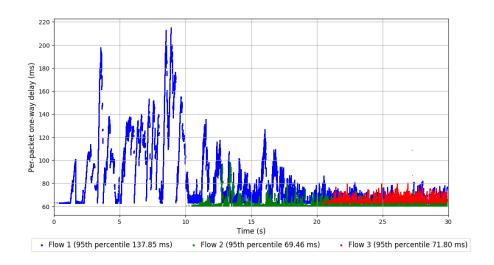
Average throughput: 266.41 Mbit/s

95th percentile per-packet one-way delay: 71.799 ms

Loss rate: 1.47%

Run 1: Report of FillP — Data Link





### Run 2: Statistics of FillP

Start at: 2019-09-18 16:59:15 End at: 2019-09-18 16:59:45 Local clock offset: 0.011 ms Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-09-18 20:15:39

# Datalink statistics
-- Total of 3 flows:

Average throughput: 835.87 Mbit/s

95th percentile per-packet one-way delay: 116.419 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 533.44 Mbit/s

95th percentile per-packet one-way delay: 130.405 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 334.21 Mbit/s

95th percentile per-packet one-way delay: 69.694 ms

Loss rate: 0.57%

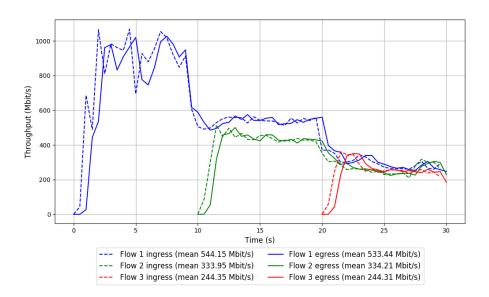
-- Flow 3:

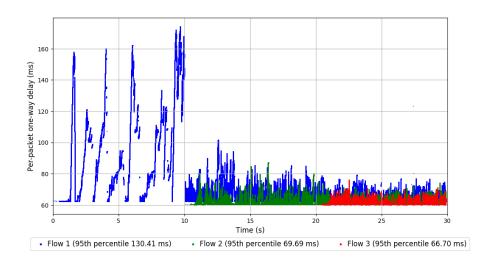
Average throughput: 244.31 Mbit/s

95th percentile per-packet one-way delay: 66.703 ms

Loss rate: 1.08%

Run 2: Report of FillP — Data Link





### Run 3: Statistics of FillP

Start at: 2019-09-18 17:38:57 End at: 2019-09-18 17:39:27 Local clock offset: -0.317 ms Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-09-18 20:16:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 843.04 Mbit/s

95th percentile per-packet one-way delay: 134.018 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 526.63 Mbit/s

95th percentile per-packet one-way delay: 136.210 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 344.12 Mbit/s

95th percentile per-packet one-way delay: 132.737 ms

Loss rate: 0.60%

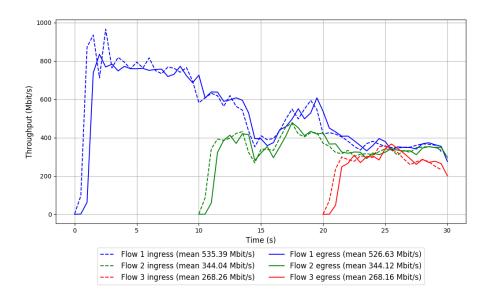
-- Flow 3:

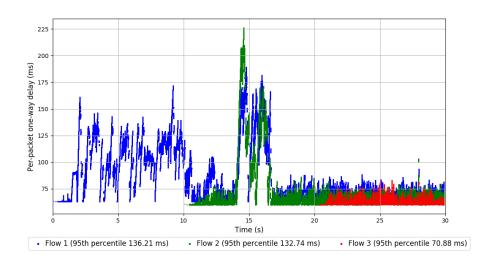
Average throughput: 268.16 Mbit/s

95th percentile per-packet one-way delay: 70.884 ms

Loss rate: 1.10%

Run 3: Report of FillP — Data Link





### Run 4: Statistics of FillP

Start at: 2019-09-18 18:17:54 End at: 2019-09-18 18:18:24 Local clock offset: -0.032 ms Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-09-18 20:16:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 807.36 Mbit/s

95th percentile per-packet one-way delay: 126.107 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 480.78 Mbit/s

95th percentile per-packet one-way delay: 131.598 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 357.01 Mbit/s

95th percentile per-packet one-way delay: 74.919 ms

Loss rate: 0.50%

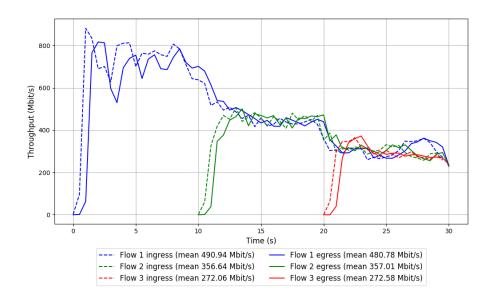
-- Flow 3:

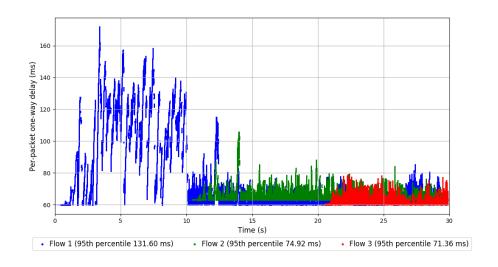
Average throughput: 272.58 Mbit/s

95th percentile per-packet one-way delay: 71.362 ms

Loss rate: 1.16%

Run 4: Report of FillP — Data Link





### Run 5: Statistics of FillP

Start at: 2019-09-18 18:57:06 End at: 2019-09-18 18:57:36 Local clock offset: -0.003 ms Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-09-18 20:21:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 869.23 Mbit/s

95th percentile per-packet one-way delay: 116.395 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 529.18 Mbit/s

95th percentile per-packet one-way delay: 116.211 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 354.61 Mbit/s

95th percentile per-packet one-way delay: 126.569 ms

Loss rate: 0.60%

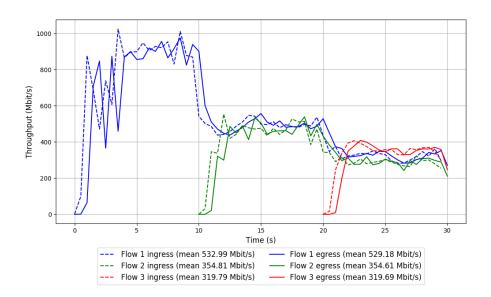
-- Flow 3:

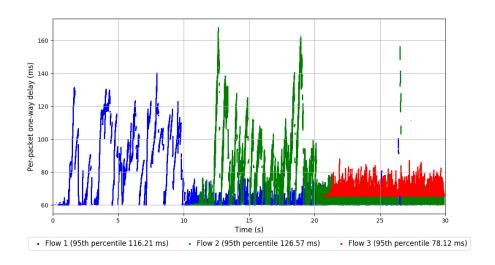
Average throughput: 319.69 Mbit/s

95th percentile per-packet one-way delay: 78.122 ms

Loss rate: 1.47%

Run 5: Report of FillP — Data Link





### Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 15:56:07 End at: 2019-09-18 15:56:37 Local clock offset: 0.058 ms Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-09-18 20:21:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 787.90 Mbit/s

95th percentile per-packet one-way delay: 98.995 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 495.19 Mbit/s

95th percentile per-packet one-way delay: 103.830 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 310.62 Mbit/s

95th percentile per-packet one-way delay: 71.686 ms

Loss rate: 0.60%

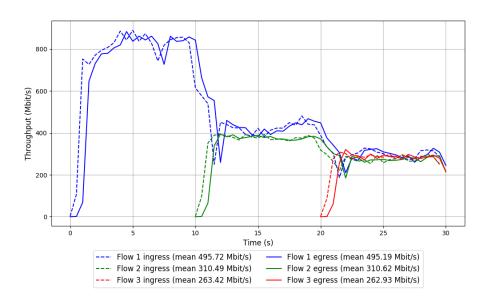
-- Flow 3:

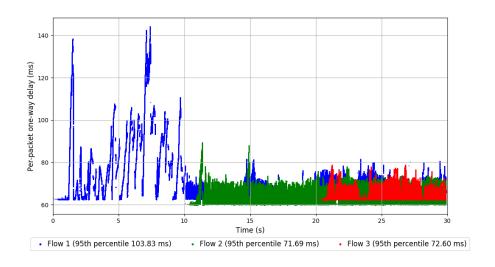
Average throughput: 262.93 Mbit/s

95th percentile per-packet one-way delay: 72.599 ms

Loss rate: 1.44%

Run 1: Report of FillP-Sheep — Data Link





### Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:35:21 End at: 2019-09-18 16:35:51 Local clock offset: -0.016 ms Remote clock offset: -0.655 ms

# Below is generated by plot.py at 2019-09-18 20:21:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 738.19 Mbit/s

95th percentile per-packet one-way delay: 100.672 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 443.20 Mbit/s

95th percentile per-packet one-way delay: 111.822 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 324.97 Mbit/s

95th percentile per-packet one-way delay: 71.720 ms

Loss rate: 0.53%

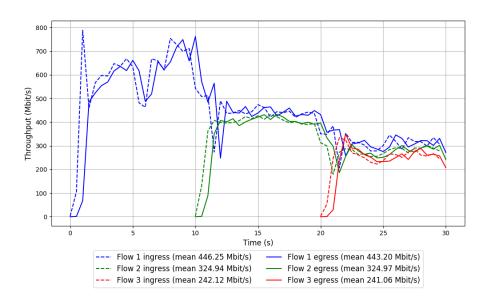
-- Flow 3:

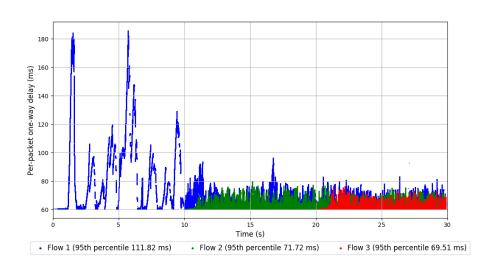
Average throughput: 241.06 Mbit/s

95th percentile per-packet one-way delay: 69.508 ms

Loss rate: 1.60%

Run 2: Report of FillP-Sheep — Data Link





### Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 17:14:57 End at: 2019-09-18 17:15:27 Local clock offset: -0.191 ms Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2019-09-18 20:23:33

# Datalink statistics
-- Total of 3 flows:

Average throughput: 816.41 Mbit/s

95th percentile per-packet one-way delay: 98.290 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 493.70 Mbit/s

95th percentile per-packet one-way delay: 108.972 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 342.67 Mbit/s

95th percentile per-packet one-way delay: 72.493 ms

Loss rate: 0.48%

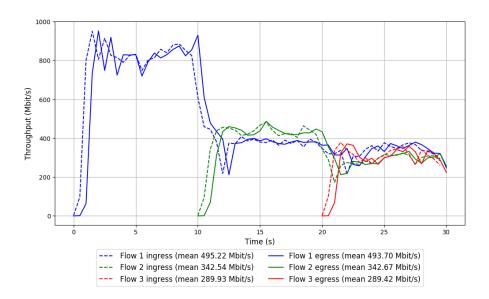
-- Flow 3:

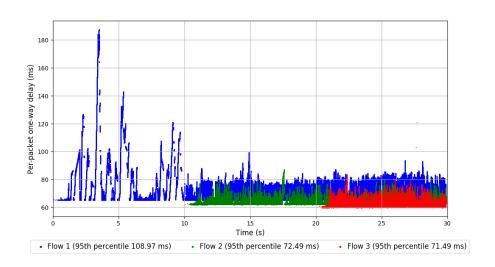
Average throughput: 289.42 Mbit/s

95th percentile per-packet one-way delay: 71.489 ms

Loss rate: 1.27%

Run 3: Report of FillP-Sheep — Data Link





### Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 17:54:06 End at: 2019-09-18 17:54:36 Local clock offset: -0.097 ms Remote clock offset: 0.664 ms

# Below is generated by plot.py at 2019-09-18 20:31:16

# Datalink statistics
-- Total of 3 flows:

Average throughput: 793.65 Mbit/s

95th percentile per-packet one-way delay: 119.670 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 502.26 Mbit/s

95th percentile per-packet one-way delay: 124.793 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 319.11 Mbit/s

95th percentile per-packet one-way delay: 99.492 ms

Loss rate: 0.58%

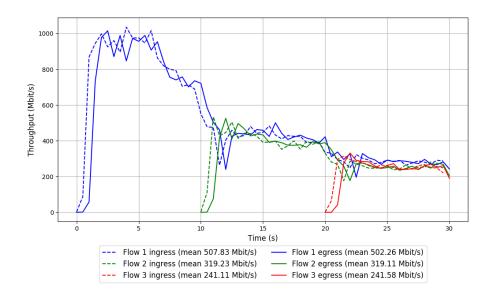
-- Flow 3:

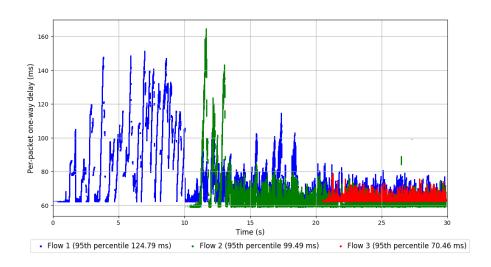
Average throughput: 241.58 Mbit/s

95th percentile per-packet one-way delay: 70.457 ms

Loss rate: 1.10%

Run 4: Report of FillP-Sheep — Data Link





### Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 18:33:32 End at: 2019-09-18 18:34:02 Local clock offset: -0.022 ms Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-09-18 20:33:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 536.22 Mbit/s

95th percentile per-packet one-way delay: 70.137 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 232.75 Mbit/s

95th percentile per-packet one-way delay: 70.146 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 321.71 Mbit/s

95th percentile per-packet one-way delay: 69.838 ms

Loss rate: 0.62%

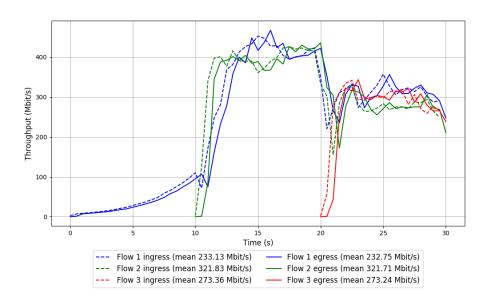
-- Flow 3:

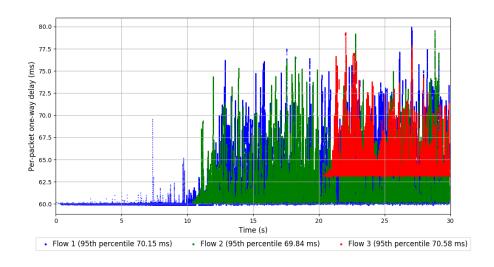
Average throughput: 273.24 Mbit/s

95th percentile per-packet one-way delay: 70.577 ms

Loss rate: 1.13%

Run 5: Report of FillP-Sheep — Data Link





# Run 1: Statistics of Indigo

Start at: 2019-09-18 15:53:10 End at: 2019-09-18 15:53:40 Local clock offset: 0.06 ms Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-09-18 20:33:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 343.82 Mbit/s

95th percentile per-packet one-way delay: 99.096 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 105.988 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 160.60 Mbit/s

95th percentile per-packet one-way delay: 83.592 ms

Loss rate: 0.70%

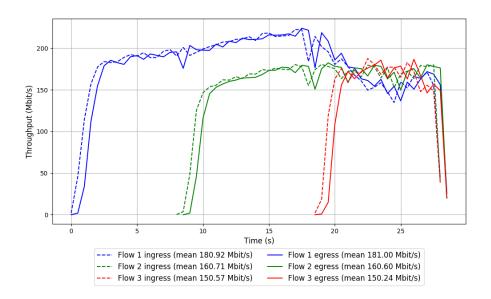
-- Flow 3:

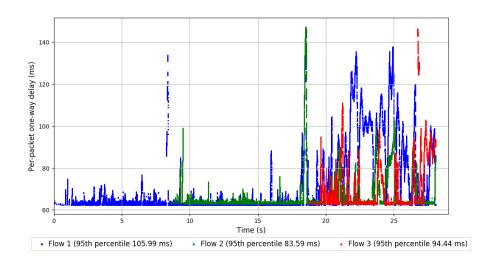
Average throughput: 150.24 Mbit/s

95th percentile per-packet one-way delay: 94.439 ms

Loss rate: 1.53%

Run 1: Report of Indigo — Data Link





# Run 2: Statistics of Indigo

Start at: 2019-09-18 16:32:25 End at: 2019-09-18 16:32:55 Local clock offset: -0.009 ms Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2019-09-18 20:33:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 310.59 Mbit/s

95th percentile per-packet one-way delay: 96.267 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 164.39 Mbit/s

95th percentile per-packet one-way delay: 96.154 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 103.581 ms

Loss rate: 0.69%

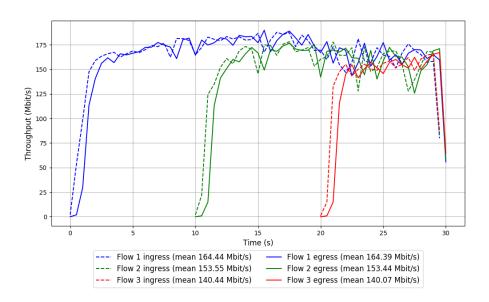
-- Flow 3:

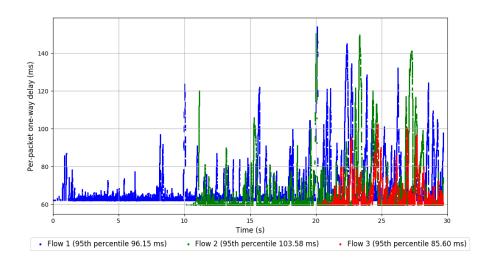
Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 85.601 ms

Loss rate: 1.51%

Run 2: Report of Indigo — Data Link





# Run 3: Statistics of Indigo

Start at: 2019-09-18 17:11:59 End at: 2019-09-18 17:12:29 Local clock offset: -0.143 ms Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-09-18 20:37:55

# Datalink statistics
-- Total of 3 flows:

Average throughput: 320.36 Mbit/s

95th percentile per-packet one-way delay: 94.296 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 175.89 Mbit/s

95th percentile per-packet one-way delay: 97.209 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 149.07 Mbit/s

95th percentile per-packet one-way delay: 85.377 ms

Loss rate: 0.68%

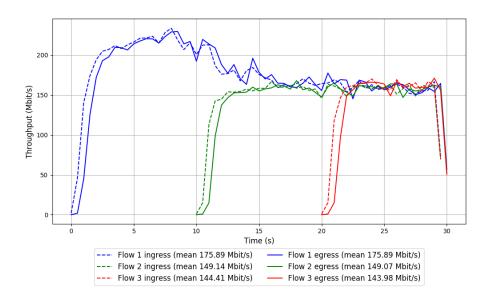
-- Flow 3:

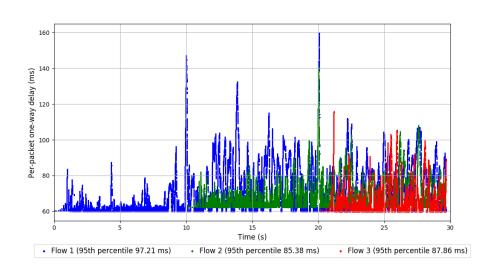
Average throughput: 143.98 Mbit/s

95th percentile per-packet one-way delay: 87.856 ms

Loss rate: 1.52%

Run 3: Report of Indigo — Data Link





# Run 4: Statistics of Indigo

Start at: 2019-09-18 17:51:19 End at: 2019-09-18 17:51:49 Local clock offset: -0.141 ms Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2019-09-18 20:37:55

# Datalink statistics
-- Total of 3 flows:

Average throughput: 204.81 Mbit/s

95th percentile per-packet one-way delay: 82.590 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 36.00 Mbit/s

95th percentile per-packet one-way delay: 76.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 208.04 Mbit/s

95th percentile per-packet one-way delay: 86.306 ms

Loss rate: 0.64%

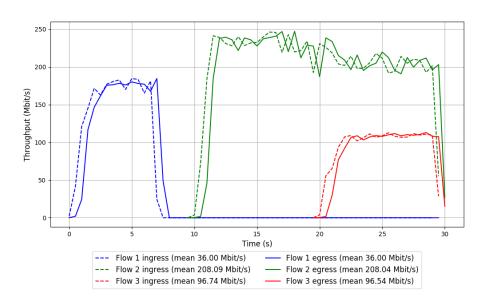
-- Flow 3:

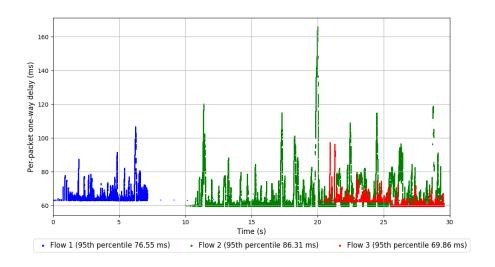
Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 69.863 ms

Loss rate: 1.43%

Run 4: Report of Indigo — Data Link





# Run 5: Statistics of Indigo

Start at: 2019-09-18 18:30:33 End at: 2019-09-18 18:31:03 Local clock offset: -0.015 ms Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-09-18 20:38:52

# Datalink statistics
-- Total of 3 flows:

Average throughput: 318.32 Mbit/s

95th percentile per-packet one-way delay: 90.298 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 186.22 Mbit/s

95th percentile per-packet one-way delay: 93.604 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 153.29 Mbit/s

95th percentile per-packet one-way delay: 87.330 ms

Loss rate: 0.74%

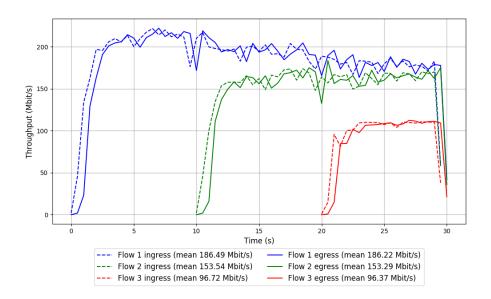
-- Flow 3:

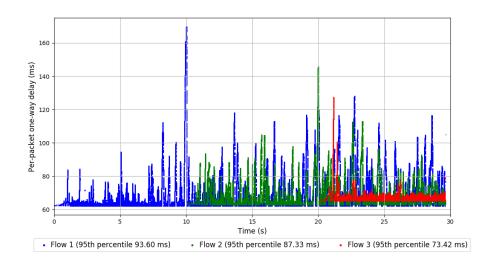
Average throughput: 96.37 Mbit/s

95th percentile per-packet one-way delay: 73.425 ms

Loss rate: 1.52%

Run 5: Report of Indigo — Data Link





### Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:01:30 End at: 2019-09-18 16:02:00 Local clock offset: 0.021 ms Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-09-18 20:41:58

# Datalink statistics
-- Total of 3 flows:

Average throughput: 712.88 Mbit/s

95th percentile per-packet one-way delay: 120.148 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 417.84 Mbit/s

95th percentile per-packet one-way delay: 122.092 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 355.32 Mbit/s

95th percentile per-packet one-way delay: 123.944 ms

Loss rate: 0.55%

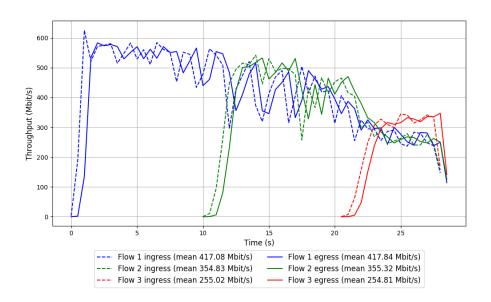
-- Flow 3:

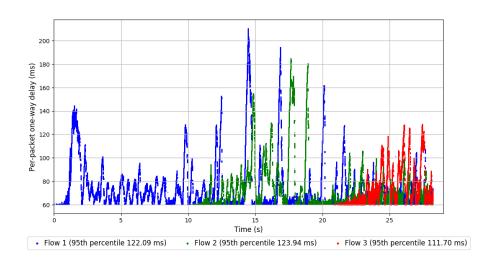
Average throughput: 254.81 Mbit/s

95th percentile per-packet one-way delay: 111.704 ms

Loss rate: 1.76%

Run 1: Report of Indigo-MusesC3 — Data Link





### Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:40:36 End at: 2019-09-18 16:41:06 Local clock offset: -0.021 ms Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-09-18 20:49:36

# Datalink statistics
-- Total of 3 flows:

Average throughput: 679.99 Mbit/s

95th percentile per-packet one-way delay: 131.964 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 413.77 Mbit/s

95th percentile per-packet one-way delay: 114.496 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 331.29 Mbit/s

95th percentile per-packet one-way delay: 171.241 ms

Loss rate: 0.65%

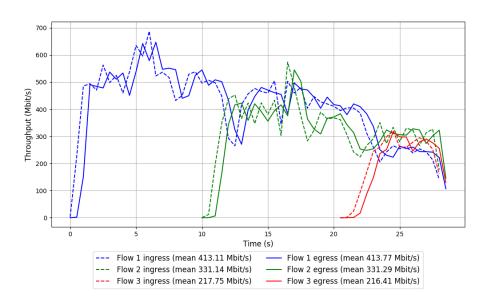
-- Flow 3:

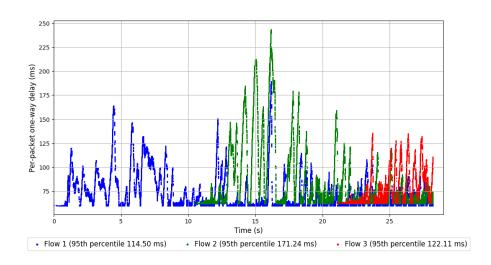
Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 122.108 ms

Loss rate: 2.31%

Run 2: Report of Indigo-MusesC3 — Data Link





### Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:20:14 End at: 2019-09-18 17:20:44 Local clock offset: -0.207 ms Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2019-09-18 20:50:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 685.43 Mbit/s

95th percentile per-packet one-way delay: 115.343 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 391.14 Mbit/s

95th percentile per-packet one-way delay: 117.565 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 358.27 Mbit/s

95th percentile per-packet one-way delay: 115.710 ms

Loss rate: 0.56%

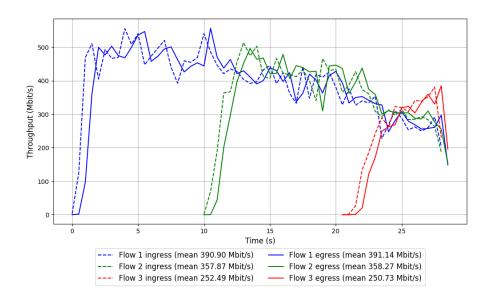
-- Flow 3:

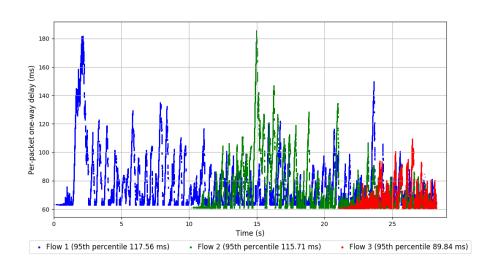
Average throughput: 250.73 Mbit/s

95th percentile per-packet one-way delay: 89.836 ms

Loss rate: 2.35%

Run 3: Report of Indigo-MusesC3 — Data Link





### Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:59:25 End at: 2019-09-18 17:59:55 Local clock offset: -0.095 ms Remote clock offset: -0.677 ms

# Below is generated by plot.py at 2019-09-18 20:50:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 592.93 Mbit/s

95th percentile per-packet one-way delay: 130.505 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 344.55 Mbit/s

95th percentile per-packet one-way delay: 127.888 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 295.80 Mbit/s

95th percentile per-packet one-way delay: 132.572 ms

Loss rate: 0.65%

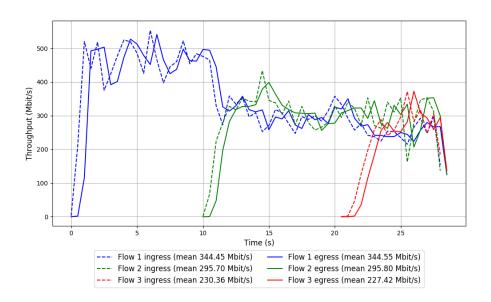
-- Flow 3:

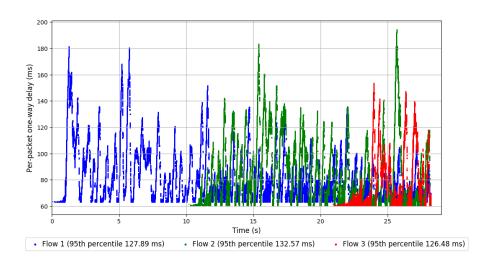
Average throughput: 227.42 Mbit/s

95th percentile per-packet one-way delay: 126.480 ms

Loss rate: 2.91%

Run 4: Report of Indigo-MusesC3 — Data Link





# Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 18:38:39 End at: 2019-09-18 18:39:09 Local clock offset: -0.009 ms Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-09-18 20:51:59

# Datalink statistics
-- Total of 3 flows:

Average throughput: 676.90 Mbit/s

95th percentile per-packet one-way delay: 111.193 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 393.01 Mbit/s

95th percentile per-packet one-way delay: 114.441 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 342.75 Mbit/s

95th percentile per-packet one-way delay: 110.430 ms

Loss rate: 0.47%

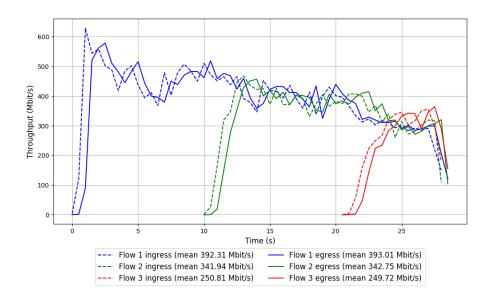
-- Flow 3:

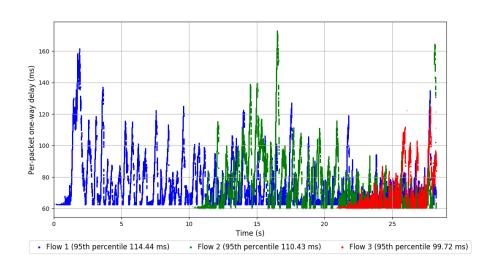
Average throughput: 249.72 Mbit/s

95th percentile per-packet one-way delay: 99.721 ms

Loss rate: 2.07%

Run 5: Report of Indigo-MusesC3 — Data Link





# Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:16:17 End at: 2019-09-18 16:16:47 Local clock offset: 0.029 ms Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-09-18 20:51:59

# Datalink statistics
-- Total of 3 flows:

Average throughput: 643.62 Mbit/s

95th percentile per-packet one-way delay: 223.771 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 424.67 Mbit/s

95th percentile per-packet one-way delay: 233.513  $\ensuremath{\mathtt{ms}}$ 

Loss rate: 2.26%

-- Flow 2:

Average throughput: 303.60 Mbit/s

95th percentile per-packet one-way delay: 203.238 ms

Loss rate: 0.89%

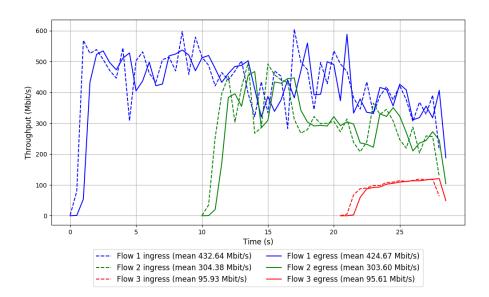
-- Flow 3:

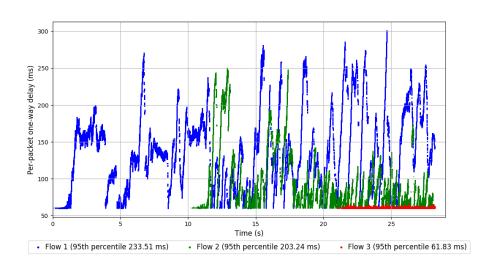
Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 61.831 ms

Loss rate: 1.91%

Run 1: Report of Indigo-MusesC5 — Data Link





# Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:55:36 End at: 2019-09-18 16:56:06 Local clock offset: 0.02 ms Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-09-18 20:57:06

# Datalink statistics
-- Total of 3 flows:

Average throughput: 724.26 Mbit/s

95th percentile per-packet one-way delay: 199.838 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 442.87 Mbit/s

95th percentile per-packet one-way delay: 200.765 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 371.38 Mbit/s

95th percentile per-packet one-way delay: 200.703 ms

Loss rate: 0.69%

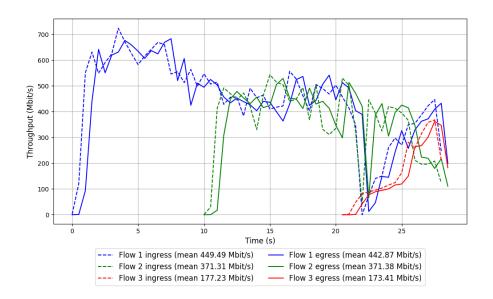
-- Flow 3:

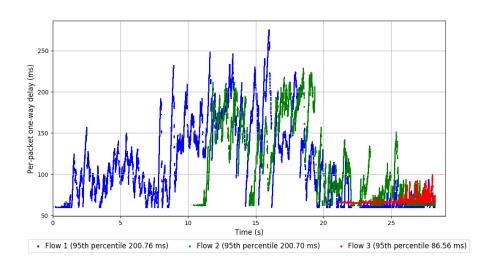
Average throughput: 173.41 Mbit/s

95th percentile per-packet one-way delay: 86.565 ms

Loss rate: 3.81%

Run 2: Report of Indigo-MusesC5 — Data Link





# Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:35:20 End at: 2019-09-18 17:35:50 Local clock offset: -0.292 ms Remote clock offset: 0.635 ms

# Below is generated by plot.py at 2019-09-18 20:57:06

# Datalink statistics
-- Total of 3 flows:

Average throughput: 662.92 Mbit/s

95th percentile per-packet one-way delay: 191.843 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 391.17 Mbit/s

95th percentile per-packet one-way delay: 190.578 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 379.59 Mbit/s

95th percentile per-packet one-way delay: 197.063 ms

Loss rate: 1.03%

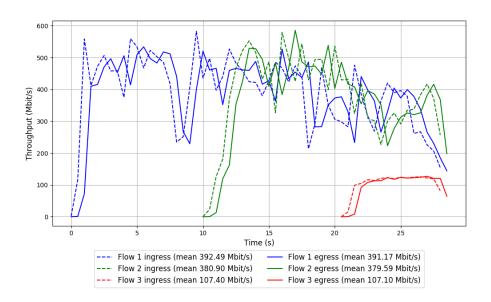
-- Flow 3:

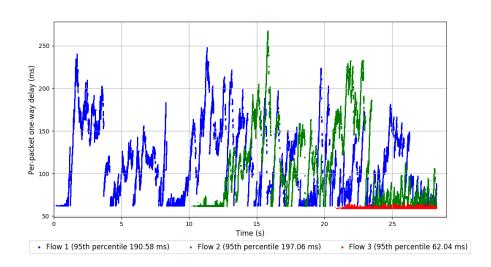
Average throughput: 107.10 Mbit/s

95th percentile per-packet one-way delay: 62.040 ms

Loss rate: 1.91%

Run 3: Report of Indigo-MusesC5 — Data Link





# Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:14:20 End at: 2019-09-18 18:14:50 Local clock offset: -0.04 ms Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-09-18 20:59:51

# Datalink statistics
-- Total of 3 flows:

Average throughput: 668.70 Mbit/s

95th percentile per-packet one-way delay: 192.944 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 405.93 Mbit/s

95th percentile per-packet one-way delay: 191.057 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 364.23 Mbit/s

95th percentile per-packet one-way delay: 205.304 ms

Loss rate: 1.29%

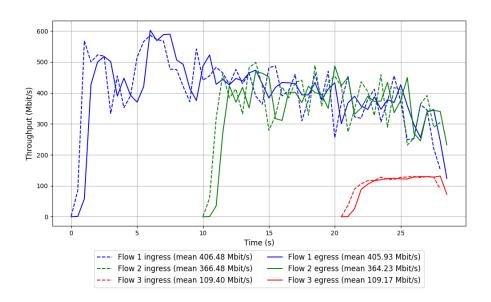
-- Flow 3:

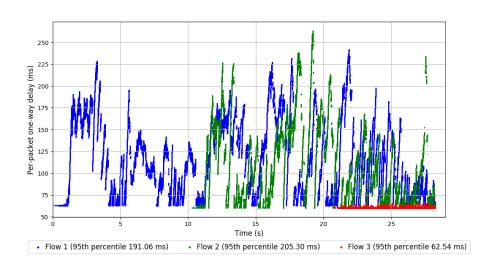
Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 62.541 ms

Loss rate: 1.79%

Run 4: Report of Indigo-MusesC5 — Data Link





# Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:53:28 End at: 2019-09-18 18:53:58 Local clock offset: 0.004 ms Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-09-18 21:07:45

# Datalink statistics
-- Total of 3 flows:

Average throughput: 683.80 Mbit/s

95th percentile per-packet one-way delay: 211.035 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 396.21 Mbit/s

95th percentile per-packet one-way delay: 190.941 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 406.73 Mbit/s

95th percentile per-packet one-way delay: 222.145 ms

Loss rate: 5.11%

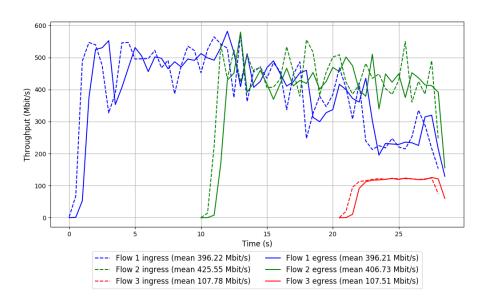
-- Flow 3:

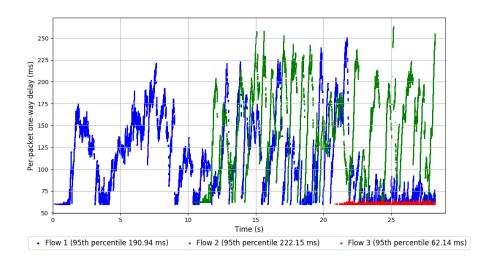
Average throughput: 107.51 Mbit/s

95th percentile per-packet one-way delay: 62.140 ms

Loss rate: 1.85%

Run 5: Report of Indigo-MusesC5 — Data Link





# Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:13:18 End at: 2019-09-18 16:13:48 Local clock offset: 0.005 ms Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-09-18 21:07:45

# Datalink statistics
-- Total of 3 flows:

Average throughput: 624.00 Mbit/s

95th percentile per-packet one-way delay: 118.565 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 392.07 Mbit/s

95th percentile per-packet one-way delay: 131.590 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 274.57 Mbit/s

95th percentile per-packet one-way delay: 100.449 ms

Loss rate: 0.70%

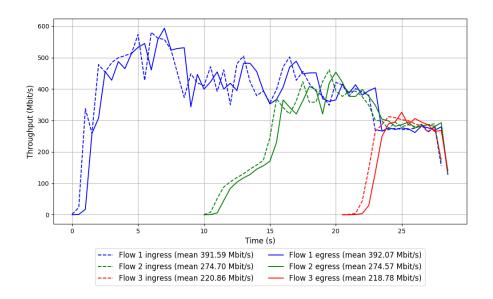
-- Flow 3:

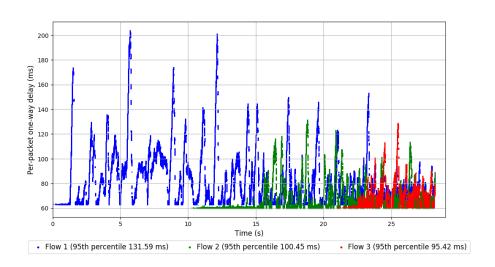
Average throughput: 218.78 Mbit/s

95th percentile per-packet one-way delay: 95.415 ms

Loss rate: 2.55%

Run 1: Report of Indigo-MusesD — Data Link





# Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:52:40 End at: 2019-09-18 16:53:10 Local clock offset: -0.024 ms Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-09-18 21:07:45

# Datalink statistics
-- Total of 3 flows:

Average throughput: 585.34 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 340.26 Mbit/s

95th percentile per-packet one-way delay: 120.377 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 278.46 Mbit/s

95th percentile per-packet one-way delay: 105.930 ms

Loss rate: 0.70%

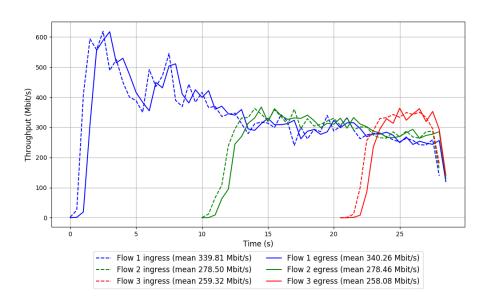
-- Flow 3:

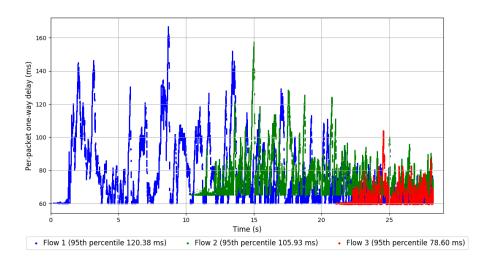
Average throughput: 258.08 Mbit/s

95th percentile per-packet one-way delay: 78.596 ms

Loss rate: 2.09%

Run 2: Report of Indigo-MusesD — Data Link





# Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:32:22 End at: 2019-09-18 17:32:52 Local clock offset: -0.295 ms Remote clock offset: -0.692 ms

# Below is generated by plot.py at 2019-09-18 21:07:45

# Datalink statistics
-- Total of 3 flows:

Average throughput: 601.34 Mbit/s

95th percentile per-packet one-way delay: 105.072 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 376.17 Mbit/s

95th percentile per-packet one-way delay: 108.478 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 265.17 Mbit/s

95th percentile per-packet one-way delay: 87.655 ms

Loss rate: 0.73%

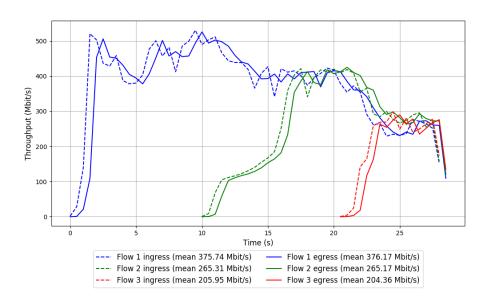
-- Flow 3:

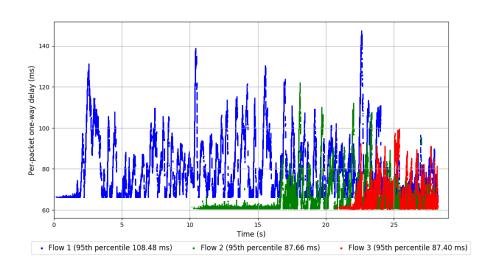
Average throughput: 204.36 Mbit/s

95th percentile per-packet one-way delay: 87.397 ms

Loss rate: 2.35%

Run 3: Report of Indigo-MusesD — Data Link





# Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 18:11:21 End at: 2019-09-18 18:11:51 Local clock offset: -0.044 ms Remote clock offset: 0.565 ms

# Below is generated by plot.py at 2019-09-18 21:08:21

# Datalink statistics
-- Total of 3 flows:

Average throughput: 622.69 Mbit/s

95th percentile per-packet one-way delay: 111.879 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 373.33 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 307.84 Mbit/s

95th percentile per-packet one-way delay: 101.915 ms

Loss rate: 0.48%

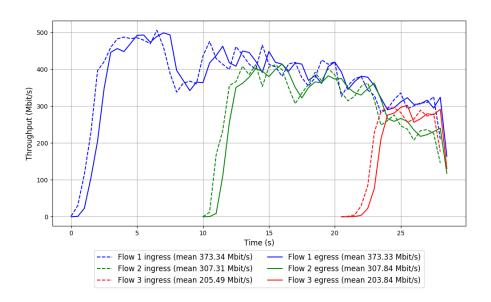
-- Flow 3:

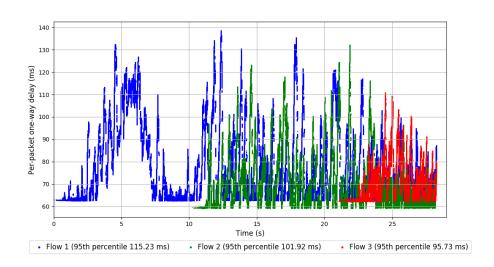
Average throughput: 203.84 Mbit/s

95th percentile per-packet one-way delay: 95.733 ms

Loss rate: 2.47%

Run 4: Report of Indigo-MusesD — Data Link





# Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 18:50:26 End at: 2019-09-18 18:50:56 Local clock offset: 0.008 ms Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-09-18 21:14:21

# Datalink statistics
-- Total of 3 flows:

Average throughput: 643.48 Mbit/s

95th percentile per-packet one-way delay: 110.634 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 367.32 Mbit/s

95th percentile per-packet one-way delay: 110.530 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 336.68 Mbit/s

95th percentile per-packet one-way delay: 114.069 ms

Loss rate: 0.72%

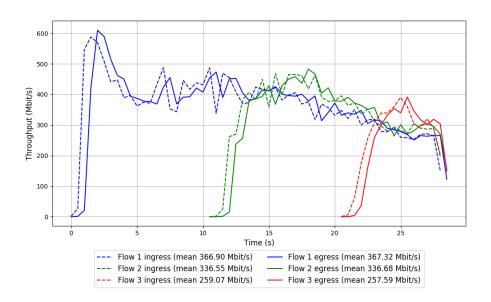
-- Flow 3:

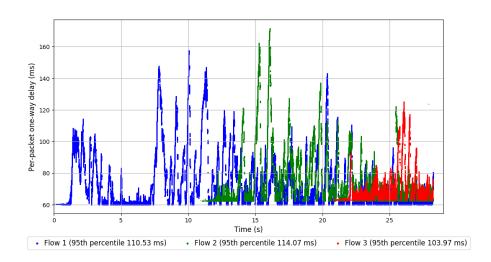
Average throughput: 257.59 Mbit/s

95th percentile per-packet one-way delay: 103.973 ms

Loss rate: 2.19%

Run 5: Report of Indigo-MusesD — Data Link





# Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:18:03 End at: 2019-09-18 16:18:33 Local clock offset: -0.021 ms Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-09-18 21:16:20

# Datalink statistics
-- Total of 3 flows:

Average throughput: 722.36 Mbit/s

95th percentile per-packet one-way delay: 135.313 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 401.13 Mbit/s

95th percentile per-packet one-way delay: 143.932 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 385.56 Mbit/s

95th percentile per-packet one-way delay: 130.253 ms

Loss rate: 0.15%

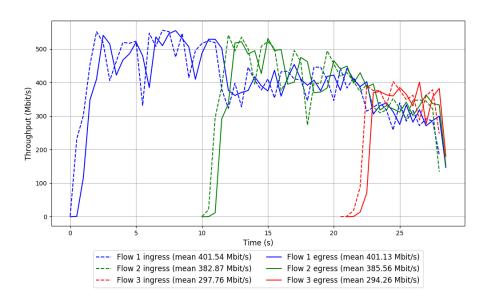
-- Flow 3:

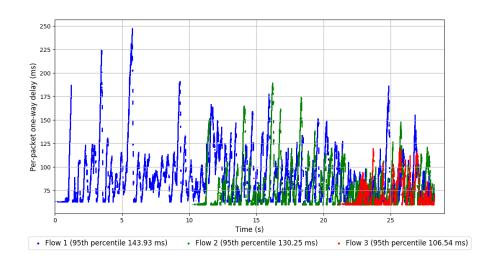
Average throughput: 294.26 Mbit/s

95th percentile per-packet one-way delay: 106.536 ms

Loss rate: 2.77%

Run 1: Report of Indigo-MusesT — Data Link





# Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:57:26 End at: 2019-09-18 16:57:56 Local clock offset: -0.009 ms Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-09-18 21:19:13

# Datalink statistics
-- Total of 3 flows:

Average throughput: 701.27 Mbit/s

95th percentile per-packet one-way delay: 145.500 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 434.97 Mbit/s

95th percentile per-packet one-way delay: 148.085 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 327.81 Mbit/s

95th percentile per-packet one-way delay: 136.073 ms

Loss rate: 0.63%

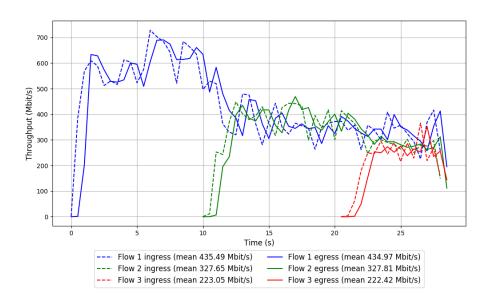
-- Flow 3:

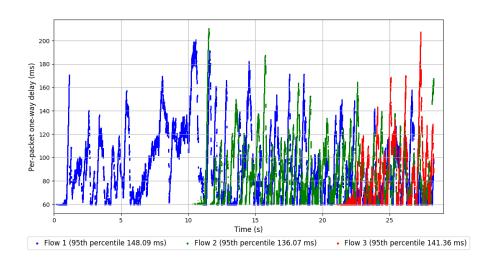
Average throughput: 222.42 Mbit/s

95th percentile per-packet one-way delay: 141.358 ms

Loss rate: 1.95%

Run 2: Report of Indigo-MusesT — Data Link





# Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-18 17:37:07 End at: 2019-09-18 17:37:37 Local clock offset: -0.31 ms Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-09-18 21:25:35

# Datalink statistics
-- Total of 3 flows:

Average throughput: 727.76 Mbit/s

95th percentile per-packet one-way delay: 123.570 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 420.21 Mbit/s

95th percentile per-packet one-way delay: 129.820 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 382.87 Mbit/s

95th percentile per-packet one-way delay: 118.373 ms

Loss rate: 0.73%

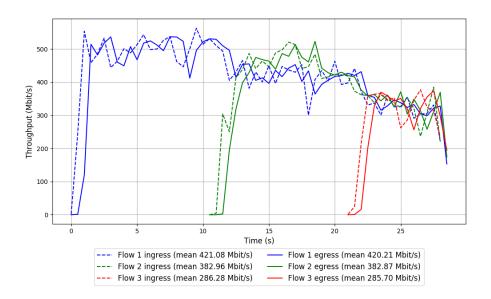
-- Flow 3:

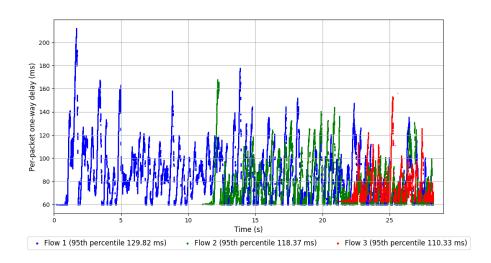
Average throughput: 285.70 Mbit/s

95th percentile per-packet one-way delay: 110.329 ms

Loss rate: 1.98%

Run 3: Report of Indigo-MusesT — Data Link





# Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-18 18:16:09 End at: 2019-09-18 18:16:39 Local clock offset: -0.017 ms Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2019-09-18 21:25:35

# Datalink statistics
-- Total of 3 flows:

Average throughput: 624.55 Mbit/s

95th percentile per-packet one-way delay: 144.475 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 358.56 Mbit/s

95th percentile per-packet one-way delay: 138.593 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 299.14 Mbit/s

95th percentile per-packet one-way delay: 154.149 ms

Loss rate: 0.98%

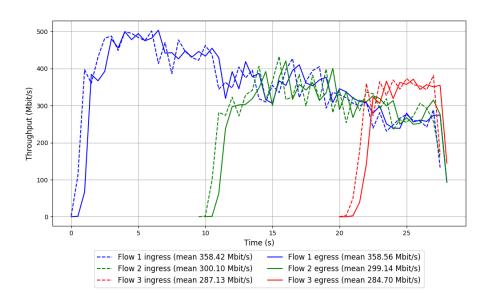
-- Flow 3:

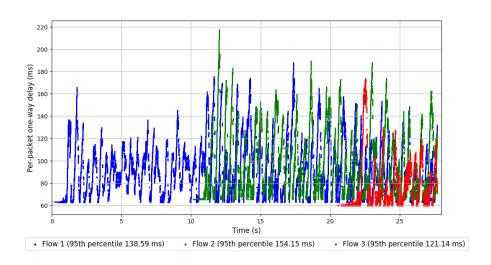
Average throughput: 284.70 Mbit/s

95th percentile per-packet one-way delay: 121.138 ms

Loss rate: 2.50%

Run 4: Report of Indigo-MusesT — Data Link





# Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-18 18:55:16 End at: 2019-09-18 18:55:46 Local clock offset: 0.012 ms Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 706.37 Mbit/s

95th percentile per-packet one-way delay: 155.235 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 418.44 Mbit/s

95th percentile per-packet one-way delay: 155.669 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 352.68 Mbit/s

95th percentile per-packet one-way delay: 159.955 ms

Loss rate: 0.91%

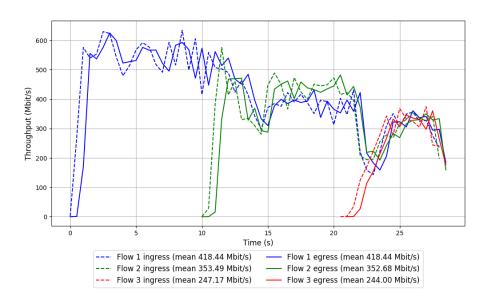
-- Flow 3:

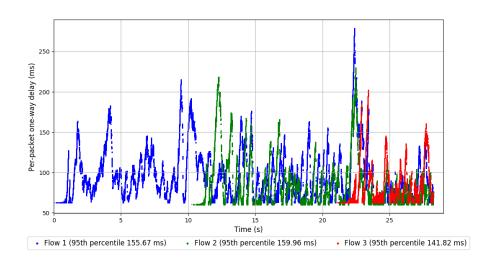
Average throughput: 244.00 Mbit/s

95th percentile per-packet one-way delay: 141.816 ms

Loss rate: 3.08%

Run 5: Report of Indigo-MusesT — Data Link





### Run 1: Statistics of LEDBAT

Start at: 2019-09-18 16:21:41 End at: 2019-09-18 16:22:11 Local clock offset: 0.012 ms Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 39.06 Mbit/s

95th percentile per-packet one-way delay: 62.473 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 62.690 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 62.239 ms

Loss rate: 1.23%

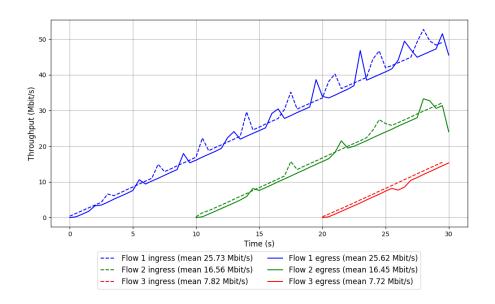
-- Flow 3:

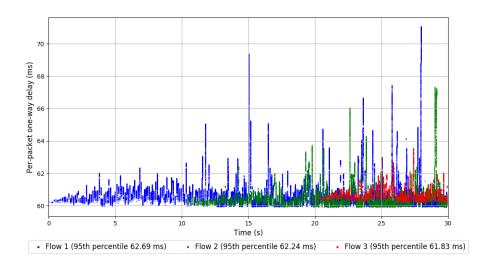
Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 61.833 ms

Loss rate: 2.53%

Run 1: Report of LEDBAT — Data Link





# Run 2: Statistics of LEDBAT

Start at: 2019-09-18 17:01:05 End at: 2019-09-18 17:01:35 Local clock offset: -0.002 ms Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 64.407 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 64.641 ms

Loss rate: 1.23%

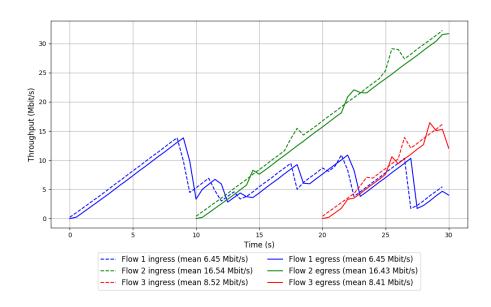
-- Flow 3:

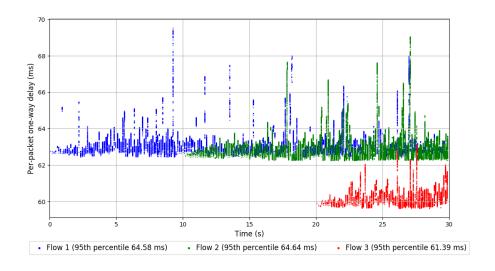
Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 61.393 ms

Loss rate: 2.45%

Run 2: Report of LEDBAT — Data Link





#### Run 3: Statistics of LEDBAT

Start at: 2019-09-18 17:40:48 End at: 2019-09-18 17:41:18 Local clock offset: -0.274 ms Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 26.43 Mbit/s

95th percentile per-packet one-way delay: 62.494 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 61.217 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 17.04 Mbit/s

95th percentile per-packet one-way delay: 62.012 ms

Loss rate: 1.21%

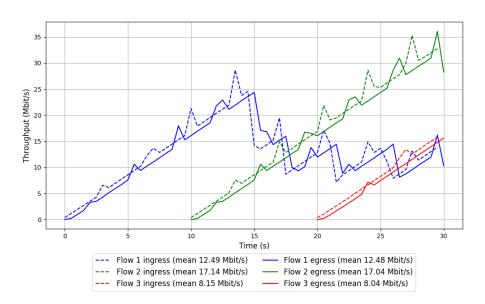
-- Flow 3:

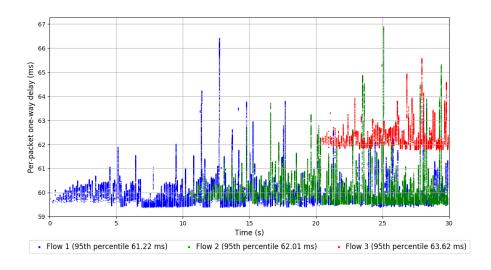
Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 2.48%

Run 3: Report of LEDBAT — Data Link





#### Run 4: Statistics of LEDBAT

Start at: 2019-09-18 18:19:44 End at: 2019-09-18 18:20:14 Local clock offset: -0.053 ms Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 18.64 Mbit/s

95th percentile per-packet one-way delay: 64.488 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 5.52 Mbit/s

95th percentile per-packet one-way delay: 64.524 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 15.62 Mbit/s

95th percentile per-packet one-way delay: 64.841 ms

Loss rate: 1.26%

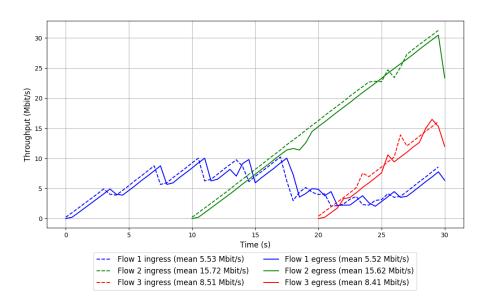
-- Flow 3:

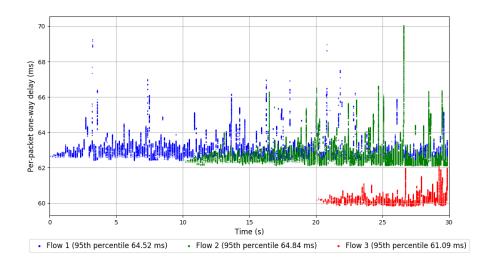
Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 61.095 ms

Loss rate: 2.45%

Run 4: Report of LEDBAT — Data Link





#### Run 5: Statistics of LEDBAT

Start at: 2019-09-18 18:58:58 End at: 2019-09-18 18:59:28 Local clock offset: 0.008 ms Remote clock offset: -0.679 ms

# Below is generated by plot.py at 2019-09-18 21:26:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 65.145 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 66.491 ms

Loss rate: 1.23%

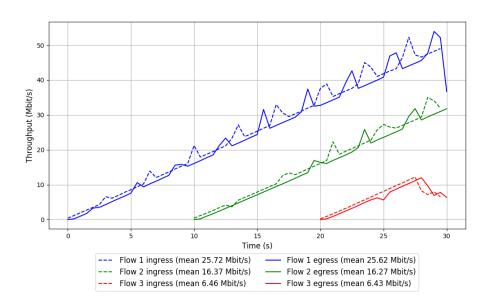
-- Flow 3:

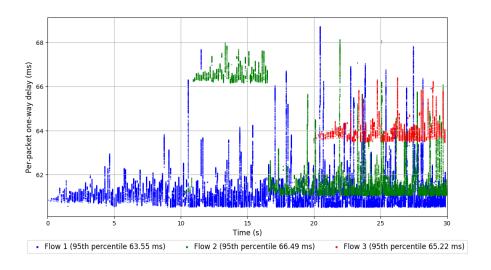
Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 65.216 ms

Loss rate: 1.76%

Run 5: Report of LEDBAT — Data Link





## Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 16:03:19 End at: 2019-09-18 16:03:49 Local clock offset: 0.006 ms Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-09-18 21:29:20

# Datalink statistics -- Total of 3 flows:

Average throughput: 640.93 Mbit/s

95th percentile per-packet one-way delay: 106.770 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 392.13 Mbit/s

95th percentile per-packet one-way delay: 109.310 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 288.74 Mbit/s

95th percentile per-packet one-way delay: 108.187 ms

Loss rate: 0.38%

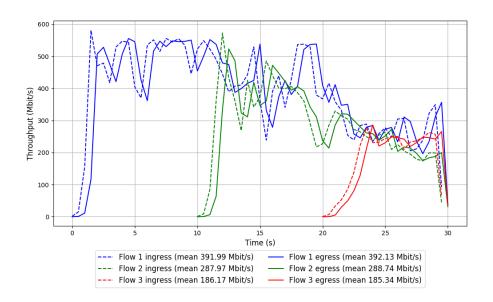
-- Flow 3:

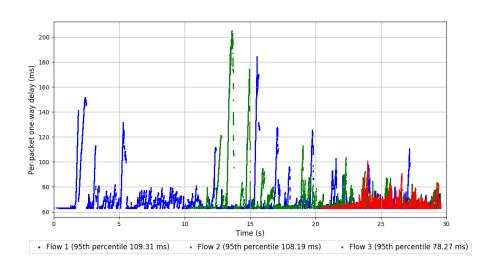
Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 78.274 ms

Loss rate: 1.78%

Run 1: Report of Muses\_DecisionTree — Data Link



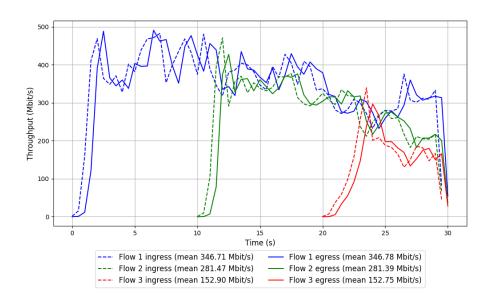


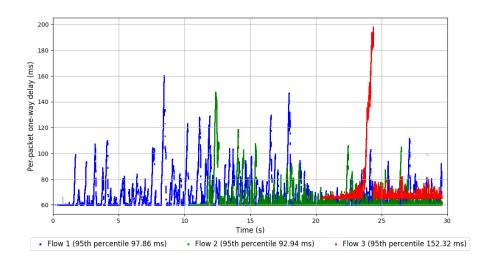
## Run 2: Statistics of Muses\\_DecisionTree

Loss rate: 1.45%

Start at: 2019-09-18 16:42:23 End at: 2019-09-18 16:42:53 Local clock offset: -0.015 ms Remote clock offset: -0.038 ms # Below is generated by plot.py at 2019-09-18 21:29:45 # Datalink statistics -- Total of 3 flows: Average throughput: 580.16 Mbit/s 95th percentile per-packet one-way delay: 98.795 ms Loss rate: 0.54% -- Flow 1: Average throughput: 346.78 Mbit/s 95th percentile per-packet one-way delay: 97.856 ms Loss rate: 0.39% -- Flow 2: Average throughput: 281.39 Mbit/s 95th percentile per-packet one-way delay: 92.941 ms Loss rate: 0.56% -- Flow 3: Average throughput: 152.75 Mbit/s 95th percentile per-packet one-way delay: 152.316 ms

Run 2: Report of Muses\_DecisionTree — Data Link





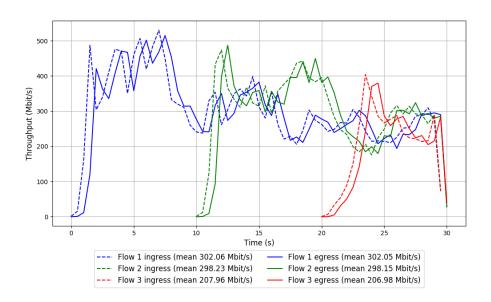
## Run 3: Statistics of Muses\\_DecisionTree

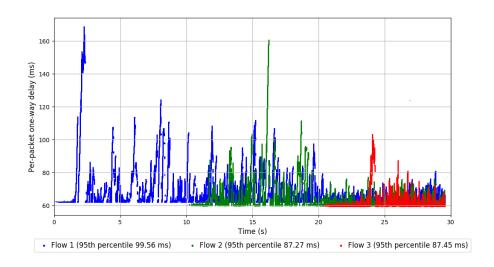
Start at: 2019-09-18 17:22:03 End at: 2019-09-18 17:22:33 Local clock offset: -0.252 ms Remote clock offset: 0.06 ms # Below is generated by plot.py at 2019-09-18 21:30:15 # Datalink statistics -- Total of 3 flows: Average throughput: 564.19 Mbit/s 95th percentile per-packet one-way delay: 93.442 ms Loss rate: 0.65% -- Flow 1: Average throughput: 302.05 Mbit/s 95th percentile per-packet one-way delay: 99.564 ms Loss rate: 0.42% -- Flow 2: Average throughput: 298.15 Mbit/s 95th percentile per-packet one-way delay: 87.269 ms Loss rate: 0.64% -- Flow 3: Average throughput: 206.98 Mbit/s

95th percentile per-packet one-way delay: 87.452 ms

Loss rate: 1.80%

Run 3: Report of Muses\_DecisionTree — Data Link





## Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 18:01:09

End at: 2019-09-18 18:01:39 Local clock offset: -0.087 ms Remote clock offset: -0.043 ms # Below is generated by plot.py at 2019-09-18 21:33:00 # Datalink statistics -- Total of 3 flows: Average throughput: 571.97 Mbit/s 95th percentile per-packet one-way delay: 112.578 ms Loss rate: 0.63% -- Flow 1: Average throughput: 319.50 Mbit/s 95th percentile per-packet one-way delay: 128.190 ms Loss rate: 0.41% -- Flow 2: Average throughput: 270.39 Mbit/s 95th percentile per-packet one-way delay: 84.924 ms Loss rate: 0.53%

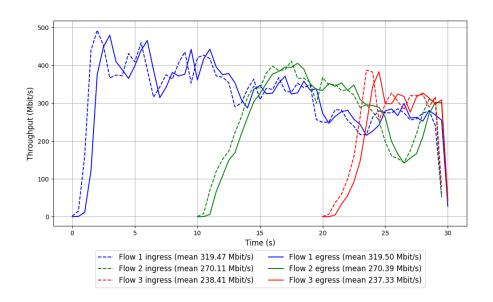
Average throughput: 237.33 Mbit/s

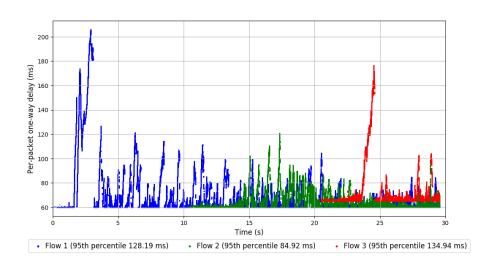
95th percentile per-packet one-way delay: 134.945 ms

Loss rate: 1.80%

-- Flow 3:

Run 4: Report of Muses\_DecisionTree — Data Link





## Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 18:40:27

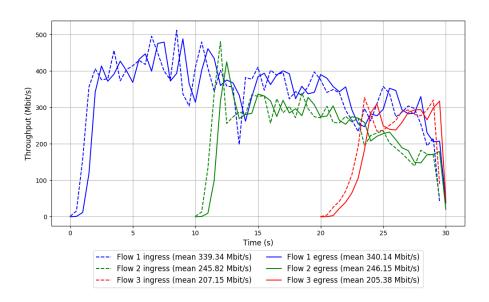
Average throughput: 205.38 Mbit/s

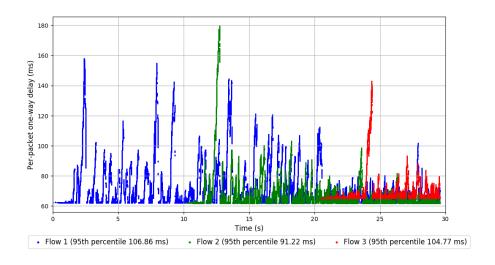
Loss rate: 2.20%

End at: 2019-09-18 18:40:57 Local clock offset: -0.006 ms Remote clock offset: 0.301 ms # Below is generated by plot.py at 2019-09-18 21:35:35 # Datalink statistics -- Total of 3 flows: Average throughput: 567.01 Mbit/s 95th percentile per-packet one-way delay: 103.833 ms Loss rate: 0.51% -- Flow 1: Average throughput: 340.14 Mbit/s 95th percentile per-packet one-way delay: 106.865 ms Loss rate: 0.19% -- Flow 2: Average throughput: 246.15 Mbit/s 95th percentile per-packet one-way delay: 91.219 ms Loss rate: 0.50% -- Flow 3:

95th percentile per-packet one-way delay: 104.774 ms

Run 5: Report of Muses\_DecisionTree — Data Link





## Run 1: Statistics of Muses\\_DecisionTreeHO

Start at: 2019-09-18 15:48:31 End at: 2019-09-18 15:49:01 Local clock offset: 0.018 ms Remote clock offset: 1.333 ms

# Below is generated by plot.py at 2019-09-18 21:36:35

# Datalink statistics
-- Total of 3 flows:

Average throughput: 470.88 Mbit/s

95th percentile per-packet one-way delay: 175.450 ms

Loss rate: 3.43%

-- Flow 1:

Average throughput: 239.34 Mbit/s

95th percentile per-packet one-way delay: 182.979 ms

Loss rate: 5.10%

-- Flow 2:

Average throughput: 214.03 Mbit/s

95th percentile per-packet one-way delay: 168.835 ms

Loss rate: 1.88%

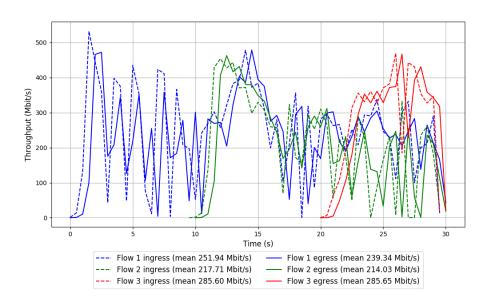
-- Flow 3:

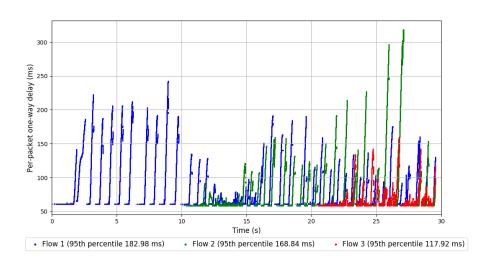
Average throughput: 285.65 Mbit/s

95th percentile per-packet one-way delay: 117.915 ms

Loss rate: 1.29%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link





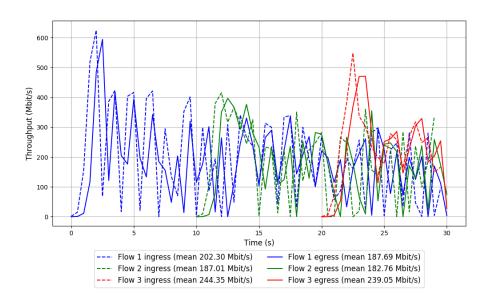
## Run 2: Statistics of Muses\\_DecisionTreeHO

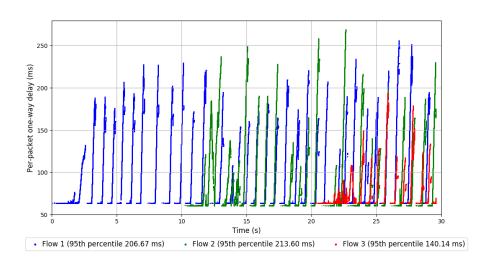
Start at: 2019-09-18 16:27:56

Loss rate: 3.47%

End at: 2019-09-18 16:28:26 Local clock offset: -0.009 ms Remote clock offset: -0.647 ms # Below is generated by plot.py at 2019-09-18 21:36:36 # Datalink statistics -- Total of 3 flows: Average throughput: 383.45 Mbit/s 95th percentile per-packet one-way delay: 203.610 ms Loss rate: 5.04% -- Flow 1: Average throughput: 187.69 Mbit/s 95th percentile per-packet one-way delay: 206.674 ms Loss rate: 7.61% -- Flow 2: Average throughput: 182.76 Mbit/s 95th percentile per-packet one-way delay: 213.598 ms Loss rate: 1.80% -- Flow 3: Average throughput: 239.05 Mbit/s 95th percentile per-packet one-way delay: 140.142 ms

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





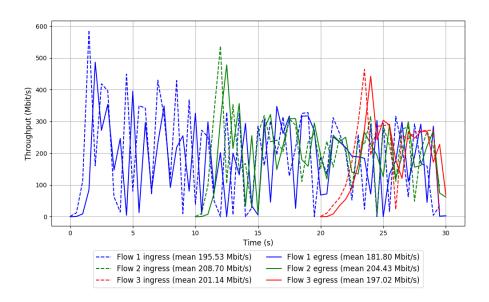
## Run 3: Statistics of Muses\\_DecisionTreeHO

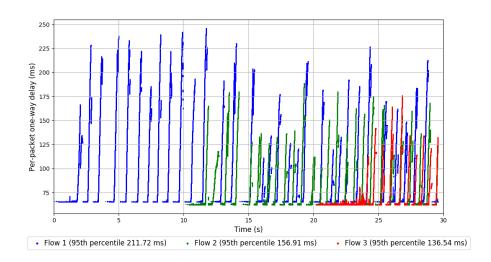
Start at: 2019-09-18 17:07:31 End at: 2019-09-18 17:08:01 Local clock offset: -0.083 ms Remote clock offset: -0.069 ms # Below is generated by plot.py at 2019-09-18 21:37:22 # Datalink statistics -- Total of 3 flows: Average throughput: 379.58 Mbit/s 95th percentile per-packet one-way delay: 196.430 ms Loss rate: 4.92% -- Flow 1: Average throughput: 181.80 Mbit/s 95th percentile per-packet one-way delay: 211.719 ms Loss rate: 7.43% -- Flow 2: Average throughput: 204.43 Mbit/s 95th percentile per-packet one-way delay: 156.915 ms Loss rate: 2.52% -- Flow 3: Average throughput: 197.02 Mbit/s

95th percentile per-packet one-way delay: 136.537 ms

Loss rate: 2.45%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



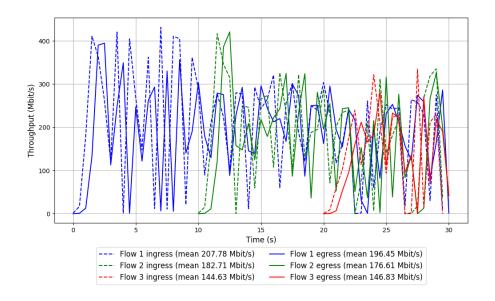


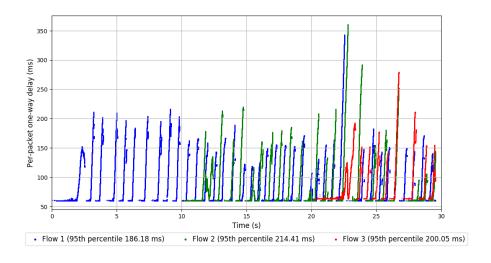
# Run 4: Statistics of Muses\\_DecisionTreeHO

Start at: 2019-09-18 17:46:53 End at: 2019-09-18 17:47:23 Local clock offset: -0.158 ms Remote clock offset: -0.132 ms # Below is generated by plot.py at 2019-09-18 21:39:36 # Datalink statistics -- Total of 3 flows: Average throughput: 359.65 Mbit/s 95th percentile per-packet one-way delay: 192.999 ms Loss rate: 4.37% -- Flow 1: Average throughput: 196.45 Mbit/s 95th percentile per-packet one-way delay: 186.178 ms Loss rate: 5.85% -- Flow 2: Average throughput: 176.61 Mbit/s 95th percentile per-packet one-way delay: 214.413 ms Loss rate: 3.50% -- Flow 3: Average throughput: 146.83 Mbit/s 95th percentile per-packet one-way delay: 200.052 ms

Loss rate: 0.02%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





## Run 5: Statistics of Muses\\_DecisionTreeHO

Start at: 2019-09-18 18:26:04

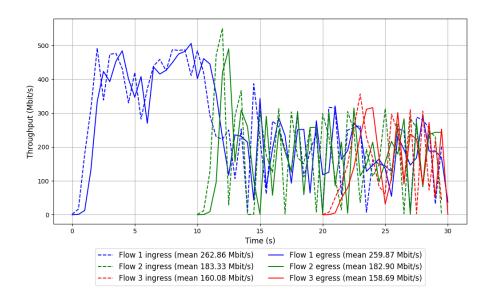
End at: 2019-09-18 18:26:34 Local clock offset: -0.035 ms Remote clock offset: -0.743 ms # Below is generated by plot.py at 2019-09-18 21:41:42 # Datalink statistics -- Total of 3 flows: Average throughput: 429.56 Mbit/s 95th percentile per-packet one-way delay: 172.644 ms Loss rate: 1.56% -- Flow 1: Average throughput: 259.87 Mbit/s 95th percentile per-packet one-way delay: 166.342 ms Loss rate: 1.53% -- Flow 2: Average throughput: 182.90 Mbit/s 95th percentile per-packet one-way delay: 182.994 ms Loss rate: 1.36%

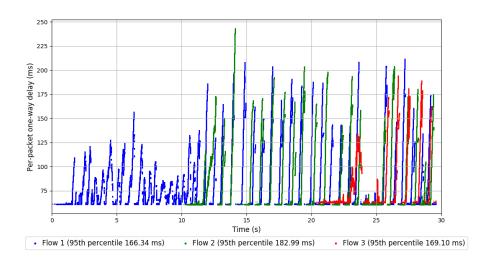
-- Flow 3: Average throughput: 158.69 Mbit/s

95th percentile per-packet one-way delay: 169.101 ms

Loss rate: 2.15%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link





## Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 15:51:22 End at: 2019-09-18 15:51:52 Local clock offset: 0.019 ms Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-09-18 21:49:27

# Datalink statistics
-- Total of 3 flows:

Average throughput: 674.33 Mbit/s

95th percentile per-packet one-way delay: 91.875 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 383.99 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 335.84 Mbit/s

95th percentile per-packet one-way delay: 89.456 ms

Loss rate: 0.33%

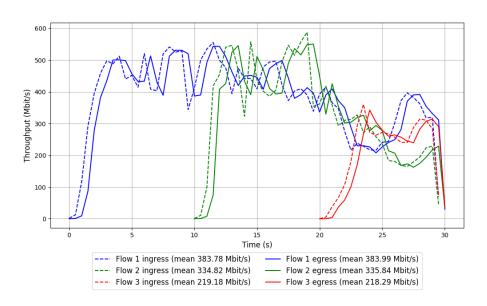
-- Flow 3:

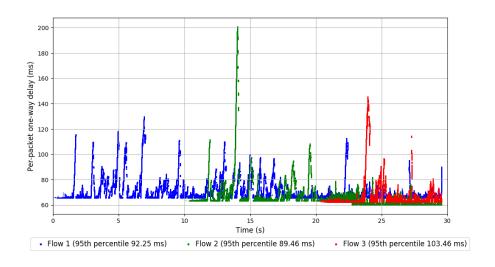
Average throughput: 218.29 Mbit/s

95th percentile per-packet one-way delay: 103.461 ms

Loss rate: 1.75%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





## Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 16:30:42

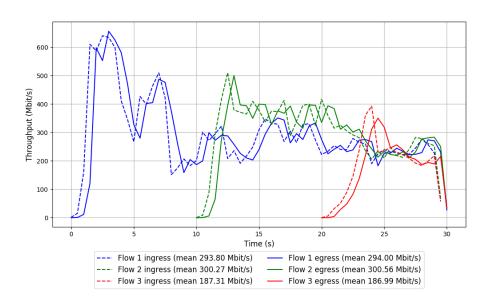
Average throughput: 186.99 Mbit/s

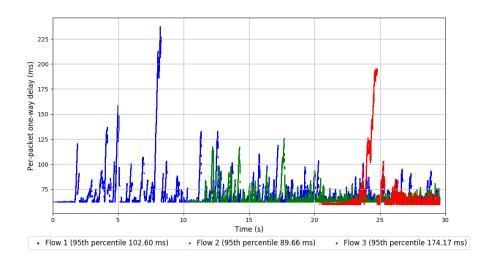
Loss rate: 1.45%

End at: 2019-09-18 16:31:12 Local clock offset: -0.003 ms Remote clock offset: 0.006 ms # Below is generated by plot.py at 2019-09-18 21:49:27 # Datalink statistics -- Total of 3 flows: Average throughput: 550.44 Mbit/s 95th percentile per-packet one-way delay: 103.241 ms Loss rate: 0.53% -- Flow 1: Average throughput: 294.00 Mbit/s 95th percentile per-packet one-way delay: 102.599 ms Loss rate: 0.35% -- Flow 2: Average throughput: 300.56 Mbit/s 95th percentile per-packet one-way delay: 89.663 ms Loss rate: 0.54% -- Flow 3:

95th percentile per-packet one-way delay: 174.170 ms

Run 2: Report of Muses\_DecisionTreeR0 — Data Link





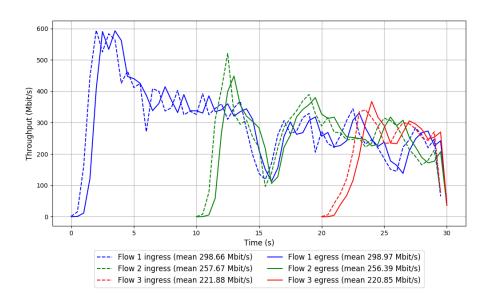
#### Run 3: Statistics of Muses\\_DecisionTreeR0

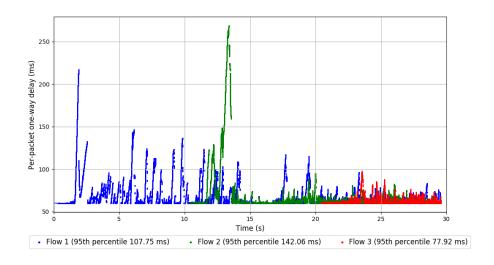
Start at: 2019-09-18 17:10:17

Loss rate: 1.70%

End at: 2019-09-18 17:10:47 Local clock offset: -0.101 ms Remote clock offset: -0.014 ms # Below is generated by plot.py at 2019-09-18 21:50:44 # Datalink statistics -- Total of 3 flows: Average throughput: 536.94 Mbit/s 95th percentile per-packet one-way delay: 111.110 ms Loss rate: 0.75% -- Flow 1: Average throughput: 298.97 Mbit/s 95th percentile per-packet one-way delay: 107.748 ms Loss rate: 0.31% -- Flow 2: Average throughput: 256.39 Mbit/s 95th percentile per-packet one-way delay: 142.063 ms Loss rate: 1.14% -- Flow 3: Average throughput: 220.85 Mbit/s 95th percentile per-packet one-way delay: 77.915 ms

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





## Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 17:49:39

End at: 2019-09-18 17:50:09 Local clock offset: -0.122 ms Remote clock offset: 0.0 ms # Below is generated by plot.py at 2019-09-18 21:50:44 # Datalink statistics -- Total of 3 flows: Average throughput: 495.73 Mbit/s 95th percentile per-packet one-way delay: 87.664 ms Loss rate: 0.65% -- Flow 1: Average throughput: 275.56 Mbit/s 95th percentile per-packet one-way delay: 89.279 ms Loss rate: 0.39% -- Flow 2: Average throughput: 230.32 Mbit/s 95th percentile per-packet one-way delay: 92.513 ms Loss rate: 0.53%

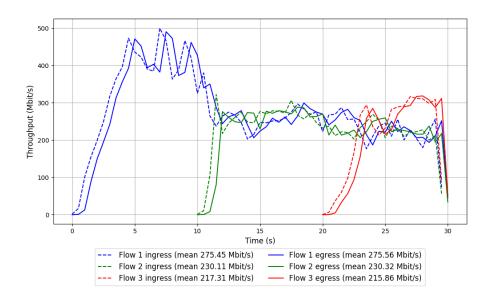
Average throughput: 215.86 Mbit/s

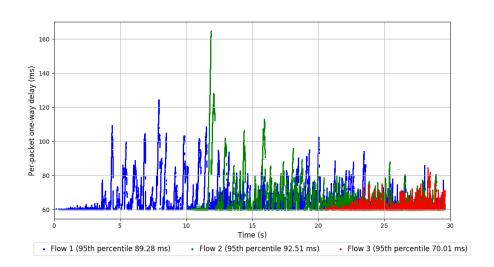
95th percentile per-packet one-way delay: 70.014 ms

Loss rate: 1.96%

-- Flow 3:

Run 4: Report of Muses\_DecisionTreeR0 — Data Link





## Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 18:28:54

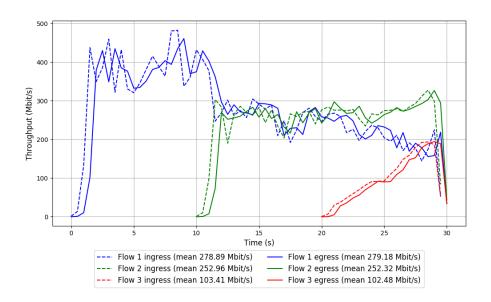
Average throughput: 102.48 Mbit/s

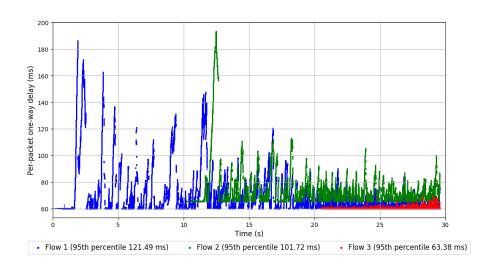
Loss rate: 2.19%

End at: 2019-09-18 18:29:24 Local clock offset: -0.009 ms Remote clock offset: -0.144 ms # Below is generated by plot.py at 2019-09-18 21:50:44 # Datalink statistics -- Total of 3 flows: Average throughput: 477.78 Mbit/s 95th percentile per-packet one-way delay: 111.815 ms Loss rate: 0.66% -- Flow 1: Average throughput: 279.18 Mbit/s 95th percentile per-packet one-way delay: 121.488 ms Loss rate: 0.32% -- Flow 2: Average throughput: 252.32 Mbit/s 95th percentile per-packet one-way delay: 101.724 ms Loss rate: 0.91% -- Flow 3:

95th percentile per-packet one-way delay: 63.383 ms

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





# Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 16:11:35 End at: 2019-09-18 16:12:05 Local clock offset: 0.011 ms Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-09-18 21:59:03

# Datalink statistics
-- Total of 3 flows:

Average throughput: 422.00 Mbit/s

95th percentile per-packet one-way delay: 213.859 ms

Loss rate: 3.21%

-- Flow 1:

Average throughput: 214.38 Mbit/s

95th percentile per-packet one-way delay: 149.414 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 244.98 Mbit/s

95th percentile per-packet one-way delay: 287.102 ms

Loss rate: 5.05%

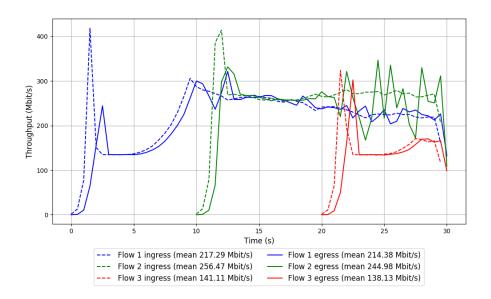
-- Flow 3:

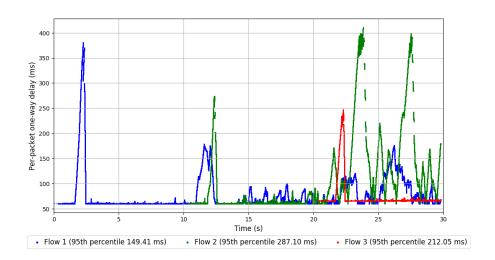
Average throughput: 138.13 Mbit/s

95th percentile per-packet one-way delay: 212.053 ms

Loss rate: 3.35%

Run 1: Report of PCC-Allegro — Data Link





# Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 16:50:52 End at: 2019-09-18 16:51:22 Local clock offset: 0.007 ms Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-09-18 22:06:21

# Datalink statistics
-- Total of 3 flows:

Average throughput: 488.34 Mbit/s

95th percentile per-packet one-way delay: 225.985 ms

Loss rate: 3.40%

-- Flow 1:

Average throughput: 243.60 Mbit/s

95th percentile per-packet one-way delay: 124.999 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 252.15 Mbit/s

95th percentile per-packet one-way delay: 233.338 ms

Loss rate: 3.56%

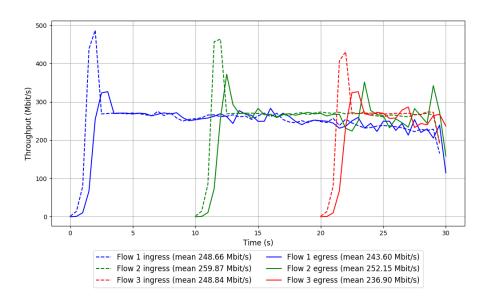
-- Flow 3:

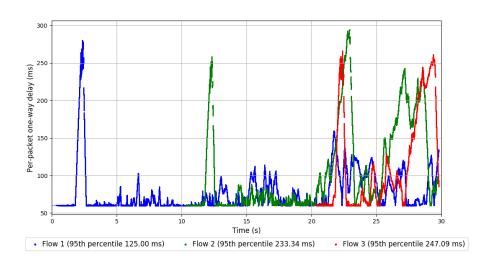
Average throughput: 236.90 Mbit/s

95th percentile per-packet one-way delay: 247.086 ms

Loss rate: 5.98%

Run 2: Report of PCC-Allegro — Data Link





# Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 17:30:32 End at: 2019-09-18 17:31:02 Local clock offset: -0.289 ms Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-09-18 22:09:43

# Datalink statistics
-- Total of 3 flows:

Average throughput: 496.53 Mbit/s

95th percentile per-packet one-way delay: 269.494 ms

Loss rate: 4.81%

-- Flow 1:

Average throughput: 257.80 Mbit/s

95th percentile per-packet one-way delay: 257.424 ms

Loss rate: 2.79%

-- Flow 2:

Average throughput: 245.58 Mbit/s

95th percentile per-packet one-way delay: 292.996 ms

Loss rate: 6.82%

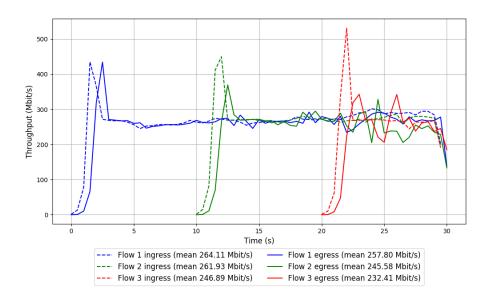
-- Flow 3:

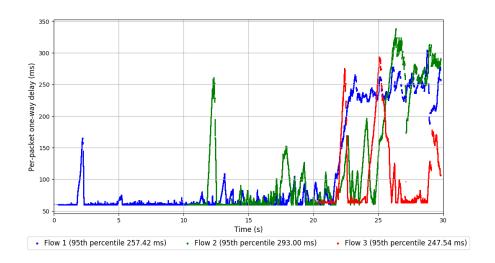
Average throughput: 232.41 Mbit/s

95th percentile per-packet one-way delay: 247.536 ms

Loss rate: 7.07%

Run 3: Report of PCC-Allegro — Data Link





# Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 18:09:36 End at: 2019-09-18 18:10:06 Local clock offset: -0.039 ms Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-09-18 22:14:33

# Datalink statistics
-- Total of 3 flows:

Average throughput: 461.04 Mbit/s

95th percentile per-packet one-way delay: 263.726 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 253.20 Mbit/s

95th percentile per-packet one-way delay: 258.913 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 248.70 Mbit/s

95th percentile per-packet one-way delay: 295.057 ms

Loss rate: 5.93%

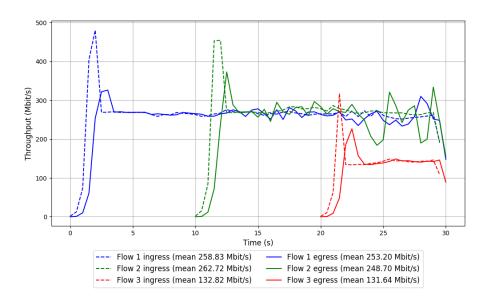
-- Flow 3:

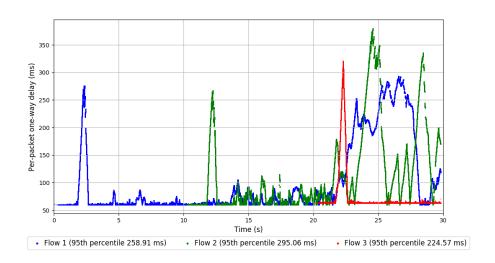
Average throughput: 131.64 Mbit/s

95th percentile per-packet one-way delay: 224.574 ms

Loss rate: 2.11%

Run 4: Report of PCC-Allegro — Data Link





# Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 18:48:38 End at: 2019-09-18 18:49:08 Local clock offset: 0.013 ms Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2019-09-18 22:16:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 486.39 Mbit/s

95th percentile per-packet one-way delay: 260.604 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 249.53 Mbit/s

95th percentile per-packet one-way delay: 278.362 ms

Loss rate: 3.67%

-- Flow 2:

Average throughput: 241.29 Mbit/s

95th percentile per-packet one-way delay: 262.912 ms

Loss rate: 3.79%

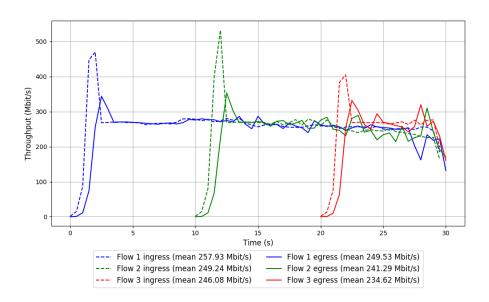
-- Flow 3:

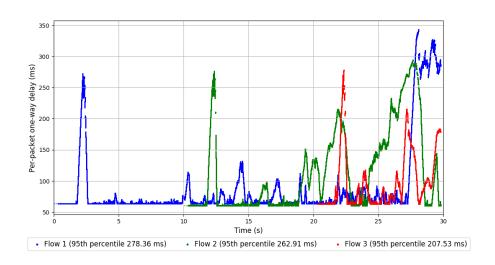
Average throughput: 234.62 Mbit/s

95th percentile per-packet one-way delay: 207.527 ms

Loss rate: 5.87%

Run 5: Report of PCC-Allegro — Data Link





## Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 15:43:21 End at: 2019-09-18 15:43:51 Local clock offset: -0.005 ms Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-09-18 22:16:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 395.68 Mbit/s

95th percentile per-packet one-way delay: 246.564 ms

Loss rate: 4.83%

-- Flow 1:

Average throughput: 231.89 Mbit/s

95th percentile per-packet one-way delay: 261.148 ms

Loss rate: 7.04%

-- Flow 2:

Average throughput: 178.33 Mbit/s

95th percentile per-packet one-way delay: 210.909 ms

Loss rate: 1.68%

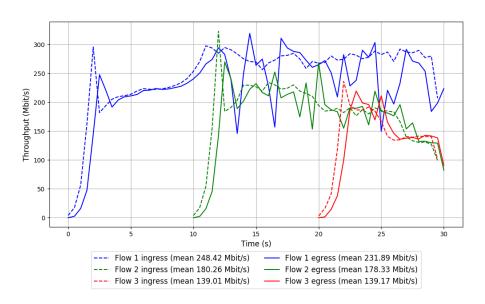
-- Flow 3:

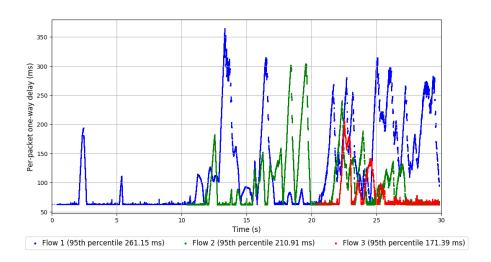
Average throughput: 139.17 Mbit/s

95th percentile per-packet one-way delay: 171.391 ms

Loss rate: 1.16%

Run 1: Report of PCC-Expr — Data Link





## Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 16:22:59 End at: 2019-09-18 16:23:29 Local clock offset: -0.032 ms Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-09-18 22:16:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 364.35 Mbit/s

95th percentile per-packet one-way delay: 241.676 ms

Loss rate: 3.99%

-- Flow 1:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 253.926 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 179.62 Mbit/s

95th percentile per-packet one-way delay: 210.861 ms

Loss rate: 1.24%

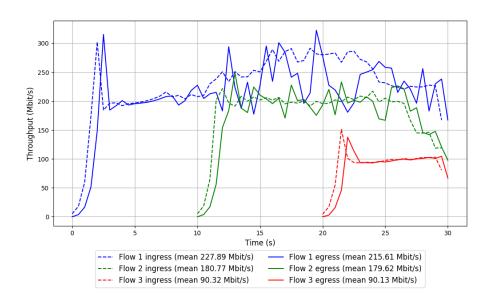
-- Flow 3:

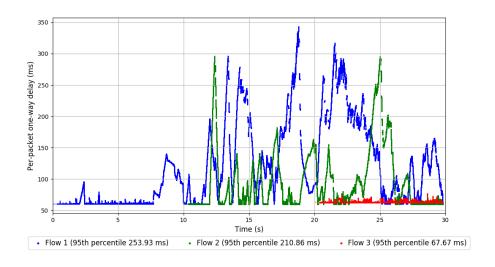
Average throughput: 90.13 Mbit/s

95th percentile per-packet one-way delay: 67.666 ms

Loss rate: 1.47%

Run 2: Report of PCC-Expr — Data Link





## Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 17:02:20 End at: 2019-09-18 17:02:50 Local clock offset: -0.009 ms Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2019-09-18 22:16:28

# Datalink statistics
-- Total of 3 flows:

Average throughput: 325.35 Mbit/s

95th percentile per-packet one-way delay: 165.486 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 178.97 Mbit/s

95th percentile per-packet one-way delay: 154.430 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 151.03 Mbit/s

95th percentile per-packet one-way delay: 213.440 ms

Loss rate: 0.95%

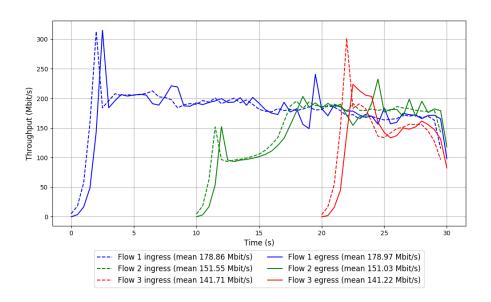
-- Flow 3:

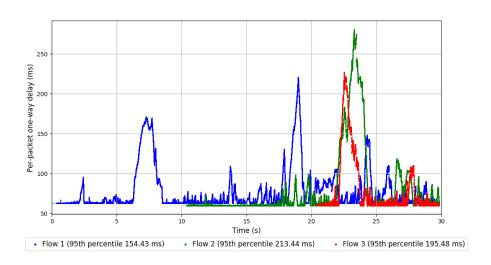
Average throughput: 141.22 Mbit/s

95th percentile per-packet one-way delay: 195.484 ms

Loss rate: 1.56%

Run 3: Report of PCC-Expr — Data Link





## Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 17:42:04 End at: 2019-09-18 17:42:34 Local clock offset: -0.227 ms Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-09-18 22:16:46

# Datalink statistics
-- Total of 3 flows:

Average throughput: 311.37 Mbit/s

95th percentile per-packet one-way delay: 237.967 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 240.752 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 145.67 Mbit/s

95th percentile per-packet one-way delay: 186.484 ms

Loss rate: 2.66%

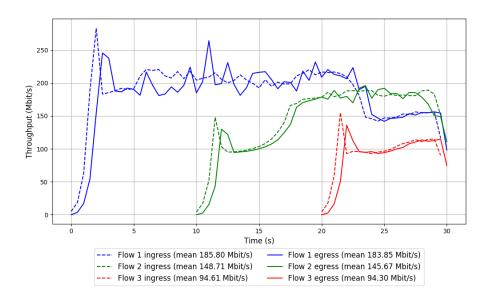
-- Flow 3:

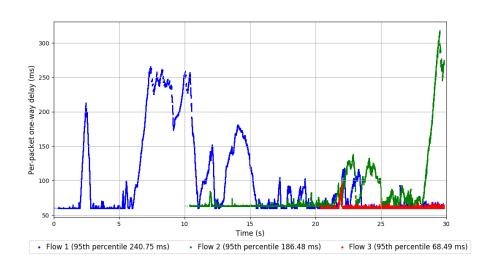
Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 68.490 ms

Loss rate: 1.57%

Run 4: Report of PCC-Expr — Data Link





## Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 18:20:59 End at: 2019-09-18 18:21:29 Local clock offset: -0.009 ms Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-09-18 22:22:11

# Datalink statistics
-- Total of 3 flows:

Average throughput: 313.84 Mbit/s

95th percentile per-packet one-way delay: 232.646 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 184.82 Mbit/s

95th percentile per-packet one-way delay: 241.458 ms

Loss rate: 3.17%

-- Flow 2:

Average throughput: 147.93 Mbit/s

95th percentile per-packet one-way delay: 187.161 ms

Loss rate: 0.78%

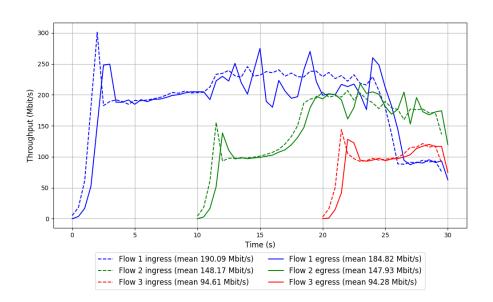
-- Flow 3:

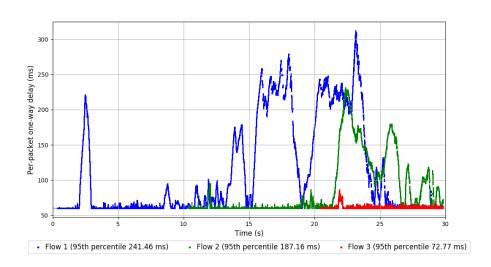
Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 72.774 ms

Loss rate: 1.58%

Run 5: Report of PCC-Expr — Data Link





## Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 16:10:19 End at: 2019-09-18 16:10:49 Local clock offset: -0.003 ms Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-09-18 22:22:11

# Datalink statistics
-- Total of 3 flows:

Average throughput: 68.74 Mbit/s

95th percentile per-packet one-way delay: 63.061 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 42.76 Mbit/s

95th percentile per-packet one-way delay: 60.135 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 63.108 ms

Loss rate: 1.17%

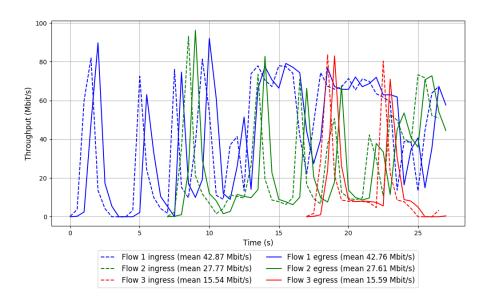
-- Flow 3:

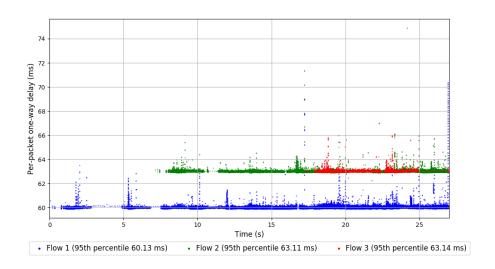
Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 63.140 ms

Loss rate: 0.97%

Run 1: Report of QUIC Cubic — Data Link





## Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:49:35 End at: 2019-09-18 16:50:05 Local clock offset: 0.002 ms Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-09-18 22:22:11

# Datalink statistics
-- Total of 3 flows:

Average throughput: 64.35 Mbit/s

95th percentile per-packet one-way delay: 65.308 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 62.326 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 30.52 Mbit/s

95th percentile per-packet one-way delay: 65.388 ms

Loss rate: 1.32%

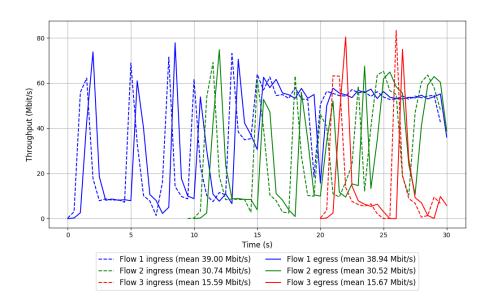
-- Flow 3:

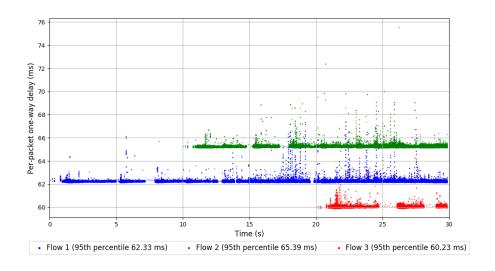
Average throughput: 15.67 Mbit/s

95th percentile per-packet one-way delay: 60.234 ms

Loss rate: 0.65%

Run 2: Report of QUIC Cubic — Data Link





## Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 17:29:15 End at: 2019-09-18 17:29:45 Local clock offset: -0.27 ms Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2019-09-18 22:22:11

# Datalink statistics
-- Total of 3 flows:

Average throughput: 68.69 Mbit/s

95th percentile per-packet one-way delay: 60.392 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 42.92 Mbit/s

95th percentile per-packet one-way delay: 60.379 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 60.397 ms

Loss rate: 0.81%

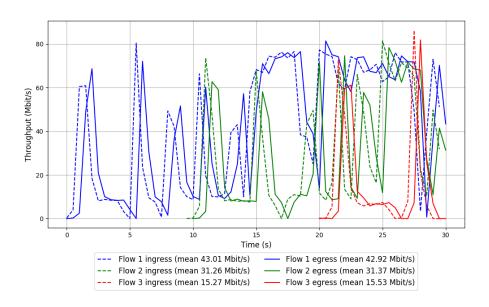
-- Flow 3:

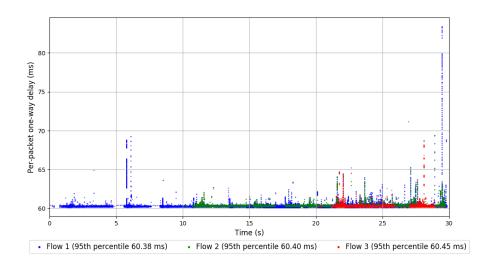
Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 60.453 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link





## Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 18:08:18 End at: 2019-09-18 18:08:48 Local clock offset: -0.028 ms Remote clock offset: 0.68 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 61.664 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 59.729 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 61.754 ms

Loss rate: 0.12%

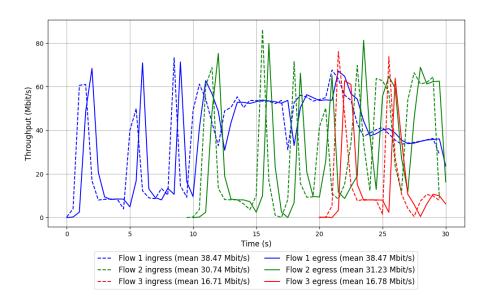
-- Flow 3:

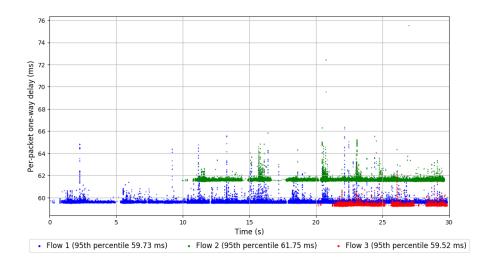
Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 59.524 ms

Loss rate: 0.84%

Run 4: Report of QUIC Cubic — Data Link





## Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 18:47:20 End at: 2019-09-18 18:47:50 Local clock offset: 0.012 ms Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 63.123 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 60.244 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 63.017 ms

Loss rate: 1.56%

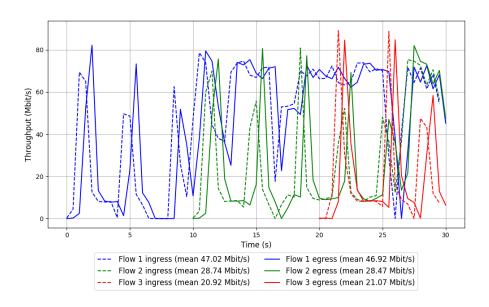
-- Flow 3:

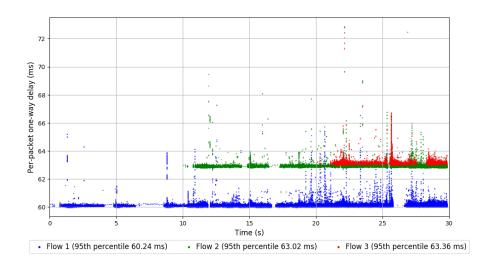
Average throughput: 21.07 Mbit/s

95th percentile per-packet one-way delay: 63.358 ms

Loss rate: 0.55%

Run 5: Report of QUIC Cubic — Data Link





## Run 1: Statistics of SCReAM

Start at: 2019-09-18 15:50:09 End at: 2019-09-18 15:50:39 Local clock offset: 0.039 ms Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 60.322 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.337 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.807 ms

Loss rate: 0.61%

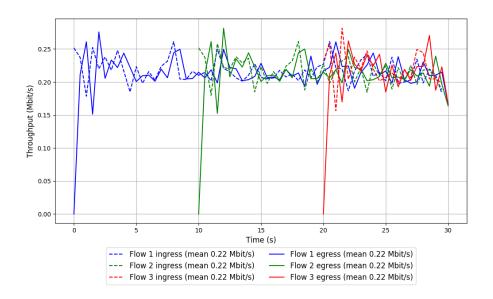
-- Flow 3:

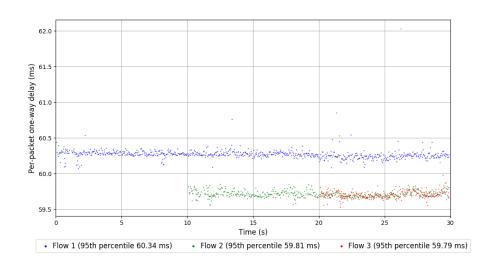
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.786 ms

Loss rate: 1.08%

Run 1: Report of SCReAM — Data Link





## Run 2: Statistics of SCReAM

Start at: 2019-09-18 16:29:30 End at: 2019-09-18 16:30:00 Local clock offset: -0.024 ms Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 65.461 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.476 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.201 ms

Loss rate: 0.61%

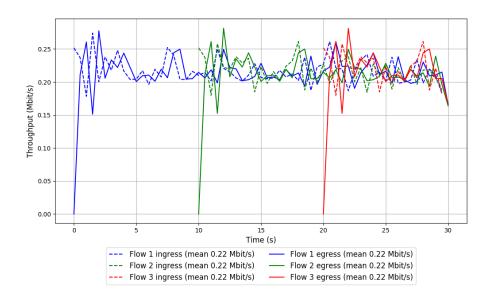
-- Flow 3:

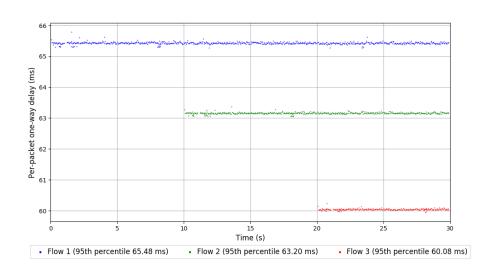
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.079 ms

Loss rate: 1.08%

Run 2: Report of SCReAM — Data Link





## Run 3: Statistics of SCReAM

Start at: 2019-09-18 17:09:05 End at: 2019-09-18 17:09:35 Local clock offset: -0.097 ms Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 65.550 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.568 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.071 ms

Loss rate: 0.61%

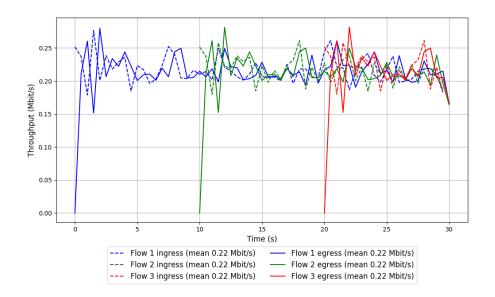
-- Flow 3:

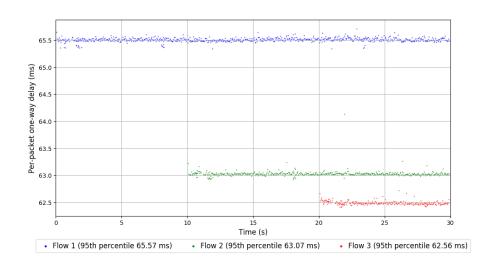
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.559 ms

Loss rate: 1.08%

Run 3: Report of SCReAM — Data Link





### Run 4: Statistics of SCReAM

Start at: 2019-09-18 17:48:26 End at: 2019-09-18 17:48:56 Local clock offset: -0.152 ms Remote clock offset: 0.607 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 61.866 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.907 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.384 ms

Loss rate: 0.61%

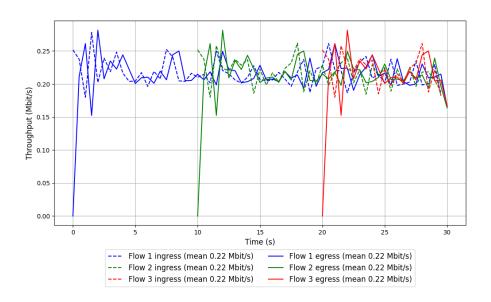
-- Flow 3:

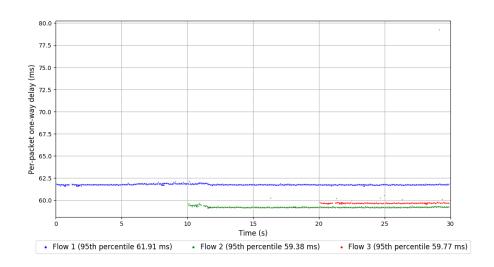
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.773 ms

Loss rate: 1.08%

Run 4: Report of SCReAM — Data Link





### Run 5: Statistics of SCReAM

Start at: 2019-09-18 18:27:41 End at: 2019-09-18 18:28:11 Local clock offset: -0.056 ms Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 60.305 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.122 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.346 ms

Loss rate: 0.61%

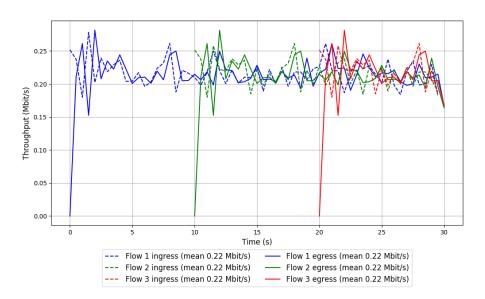
-- Flow 3:

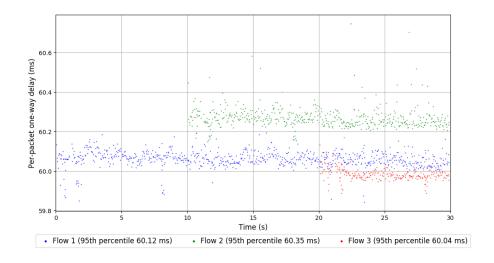
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.041 ms

Loss rate: 1.08%

Run 5: Report of SCReAM — Data Link





# Run 1: Statistics of Sprout

Start at: 2019-09-18 16:15:03 End at: 2019-09-18 16:15:33 Local clock offset: -0.025 ms Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 13.13 Mbit/s

95th percentile per-packet one-way delay: 63.807 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 61.859 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 64.249 ms

Loss rate: 0.61%

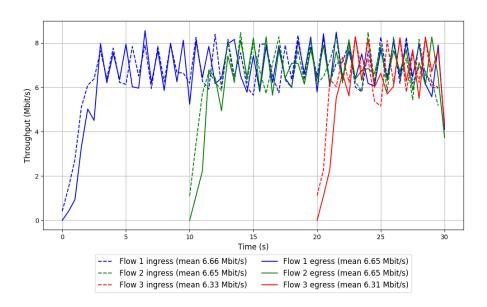
-- Flow 3:

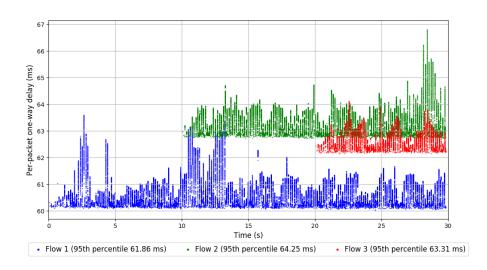
Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 63.310 ms

Loss rate: 1.36%

Run 1: Report of Sprout — Data Link





### Run 2: Statistics of Sprout

Start at: 2019-09-18 16:54:22 End at: 2019-09-18 16:54:52 Local clock offset: -0.005 ms Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 13.51 Mbit/s

95th percentile per-packet one-way delay: 66.153 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 61.296 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 66.472 ms

Loss rate: 0.81%

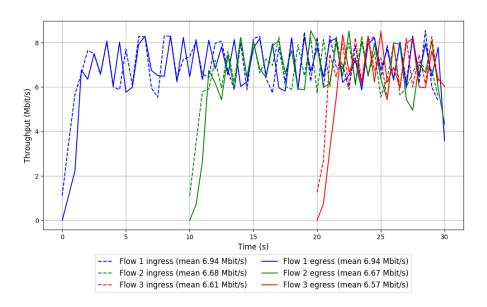
-- Flow 3:

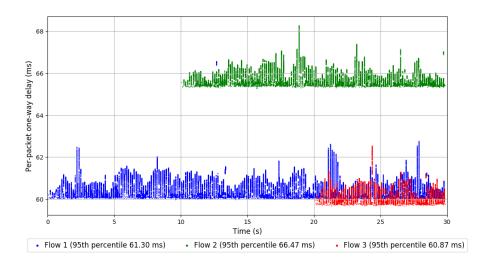
Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 60.871 ms

Loss rate: 1.59%

Run 2: Report of Sprout — Data Link





### Run 3: Statistics of Sprout

Start at: 2019-09-18 17:34:06 End at: 2019-09-18 17:34:36 Local clock offset: -0.298 ms Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 61.542 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 61.531 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 61.162 ms

Loss rate: 0.76%

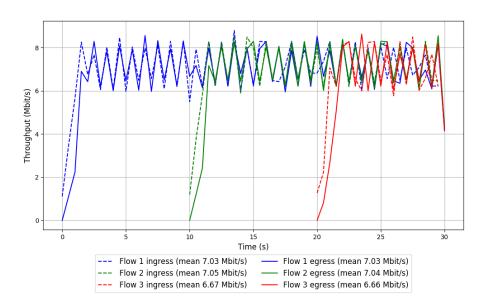
-- Flow 3:

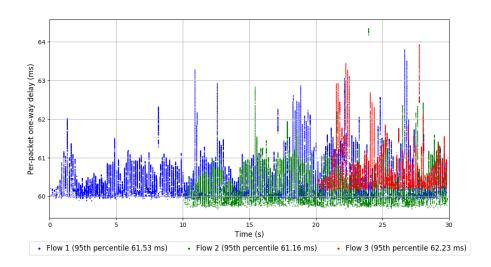
Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 62.230 ms

Loss rate: 1.57%

Run 3: Report of Sprout — Data Link





### Run 4: Statistics of Sprout

Start at: 2019-09-18 18:13:06 End at: 2019-09-18 18:13:36 Local clock offset: -0.038 ms Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 63.412 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 61.316 ms

Loss rate: 0.75%

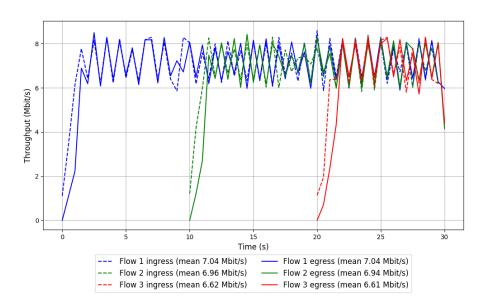
-- Flow 3:

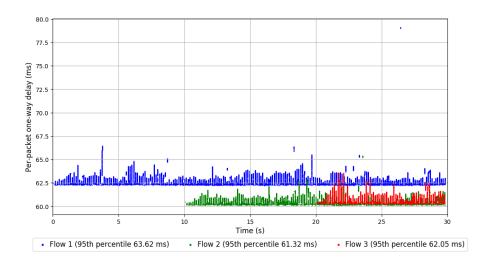
Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 62.055 ms

Loss rate: 1.54%

Run 4: Report of Sprout — Data Link





### Run 5: Statistics of Sprout

Start at: 2019-09-18 18:52:14 End at: 2019-09-18 18:52:44 Local clock offset: -0.012 ms Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-09-18 22:22:12

# Datalink statistics
-- Total of 3 flows:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.71%

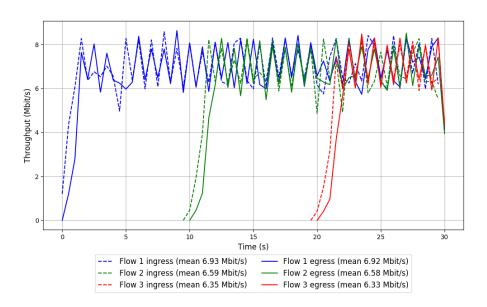
-- Flow 3:

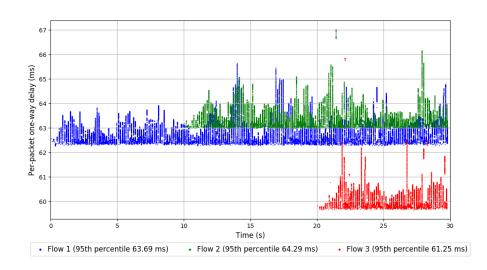
Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 1.70%

Run 5: Report of Sprout — Data Link





### Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 16:05:06 End at: 2019-09-18 16:05:36 Local clock offset: 0.004 ms Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-09-18 22:29:54

# Datalink statistics
-- Total of 3 flows:

Average throughput: 313.09 Mbit/s

95th percentile per-packet one-way delay: 88.586 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 162.10 Mbit/s

95th percentile per-packet one-way delay: 91.365 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 161.96 Mbit/s

95th percentile per-packet one-way delay: 85.652 ms

Loss rate: 0.79%

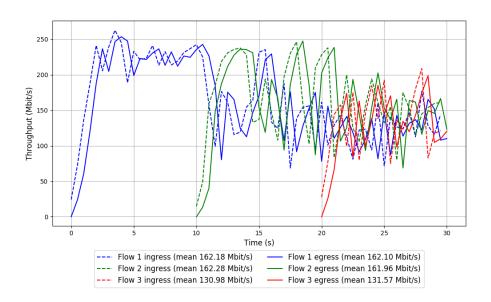
-- Flow 3:

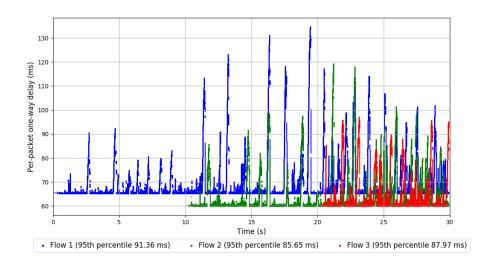
Average throughput: 131.57 Mbit/s

95th percentile per-packet one-way delay: 87.969 ms

Loss rate: 0.79%

Run 1: Report of TaoVA-100x — Data Link





### Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 16:44:07 End at: 2019-09-18 16:44:37 Local clock offset: 0.01 ms Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-09-18 22:30:40

# Datalink statistics
-- Total of 3 flows:

Average throughput: 312.24 Mbit/s

95th percentile per-packet one-way delay: 85.329 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 163.58 Mbit/s

95th percentile per-packet one-way delay: 86.510 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 152.26 Mbit/s

95th percentile per-packet one-way delay: 83.779 ms

Loss rate: 0.75%

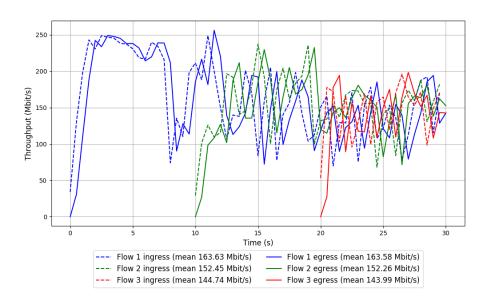
-- Flow 3:

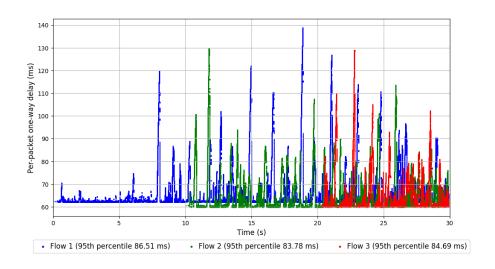
Average throughput: 143.99 Mbit/s

95th percentile per-packet one-way delay: 84.693 ms

Loss rate: 1.71%

Run 2: Report of TaoVA-100x — Data Link





### Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 17:23:46 End at: 2019-09-18 17:24:16 Local clock offset: -0.244 ms Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-09-18 22:30:40

# Datalink statistics
-- Total of 3 flows:

Average throughput: 293.59 Mbit/s

95th percentile per-packet one-way delay: 80.175 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 82.798 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 129.69 Mbit/s

95th percentile per-packet one-way delay: 76.039 ms

Loss rate: 0.76%

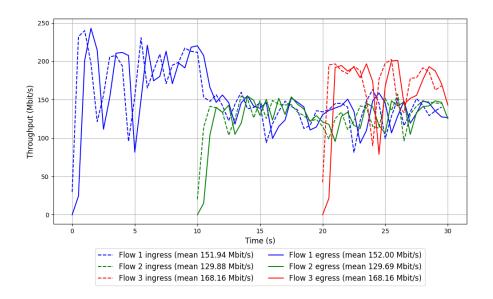
-- Flow 3:

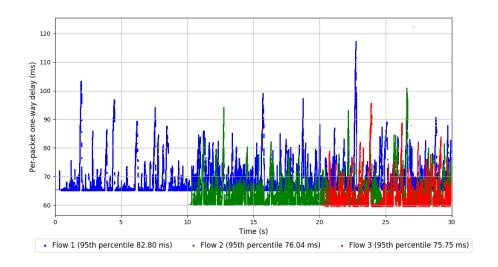
Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 75.751 ms

Loss rate: 1.24%

Run 3: Report of TaoVA-100x — Data Link





### Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 18:02:52 End at: 2019-09-18 18:03:22 Local clock offset: -0.054 ms Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-09-18 22:30:59

# Datalink statistics
-- Total of 3 flows:

Average throughput: 315.86 Mbit/s

95th percentile per-packet one-way delay: 80.946 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 163.77 Mbit/s

95th percentile per-packet one-way delay: 80.520 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 165.68 Mbit/s

95th percentile per-packet one-way delay: 77.401 ms

Loss rate: 0.36%

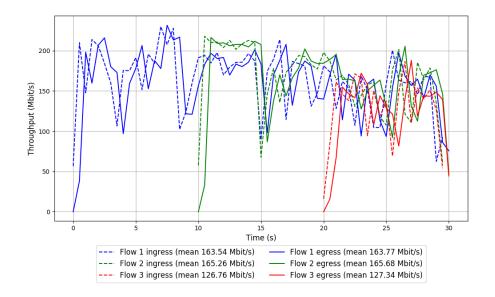
-- Flow 3:

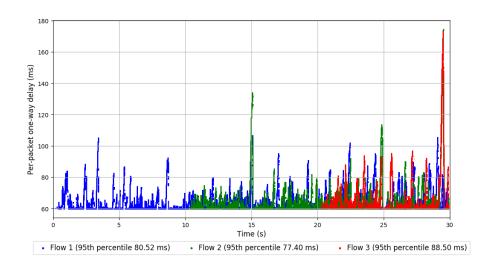
Average throughput: 127.34 Mbit/s

95th percentile per-packet one-way delay: 88.497 ms

Loss rate: 0.76%

Run 4: Report of TaoVA-100x — Data Link





### Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 18:42:12 End at: 2019-09-18 18:42:42 Local clock offset: 0.007 ms Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-09-18 22:31:24

# Datalink statistics
-- Total of 3 flows:

Average throughput: 319.37 Mbit/s

95th percentile per-packet one-way delay: 81.289 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 167.93 Mbit/s

95th percentile per-packet one-way delay: 80.659 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 157.30 Mbit/s

95th percentile per-packet one-way delay: 78.898 ms

Loss rate: 0.41%

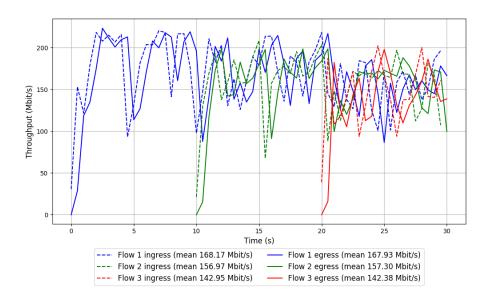
-- Flow 3:

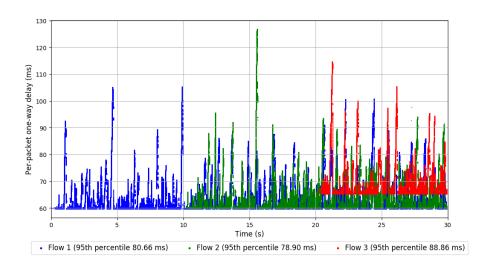
Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 88.863 ms

Loss rate: 1.65%

Run 5: Report of TaoVA-100x — Data Link





# Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 16:08:29 End at: 2019-09-18 16:08:59 Local clock offset: 0.039 ms Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-09-18 22:35:46

# Datalink statistics
-- Total of 3 flows:

Average throughput: 688.91 Mbit/s

95th percentile per-packet one-way delay: 158.386 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 350.24 Mbit/s

95th percentile per-packet one-way delay: 149.946 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 353.04 Mbit/s

95th percentile per-packet one-way delay: 144.758 ms

Loss rate: 0.76%

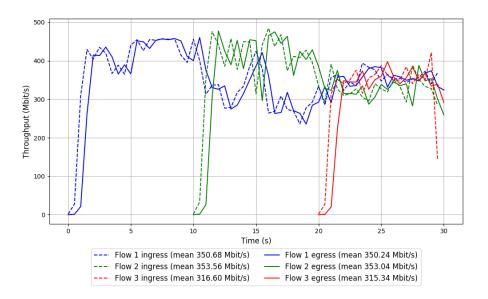
-- Flow 3:

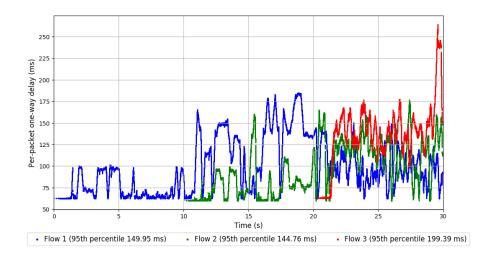
Average throughput: 315.34 Mbit/s

95th percentile per-packet one-way delay: 199.394 ms

Loss rate: 0.67%

Run 1: Report of TCP Vegas — Data Link





### Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:47:46 End at: 2019-09-18 16:48:16 Local clock offset: 0.0 ms Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2019-09-18 22:35:58

# Datalink statistics
-- Total of 3 flows:

Average throughput: 686.33 Mbit/s

95th percentile per-packet one-way delay: 139.812 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 390.61 Mbit/s

95th percentile per-packet one-way delay: 131.690 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 337.39 Mbit/s

95th percentile per-packet one-way delay: 182.956 ms

Loss rate: 1.18%

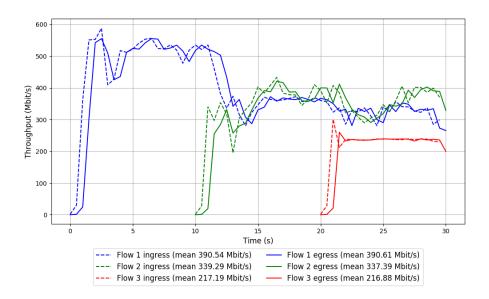
-- Flow 3:

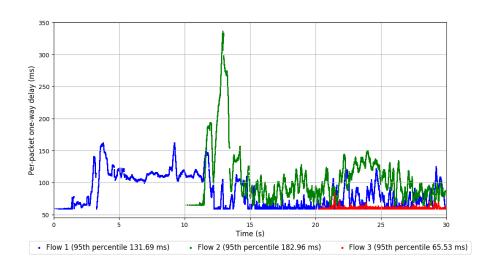
Average throughput: 216.88 Mbit/s

95th percentile per-packet one-way delay: 65.535 ms

Loss rate: 1.37%

Run 2: Report of TCP Vegas — Data Link





### Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 17:27:23 End at: 2019-09-18 17:27:53 Local clock offset: -0.259 ms Remote clock offset: 0.909 ms

# Below is generated by plot.py at 2019-09-18 22:43:57

# Datalink statistics
-- Total of 3 flows:

Average throughput: 717.68 Mbit/s

95th percentile per-packet one-way delay: 135.559 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 384.74 Mbit/s

95th percentile per-packet one-way delay: 146.425 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 332.97 Mbit/s

95th percentile per-packet one-way delay: 126.400 ms

Loss rate: 0.84%

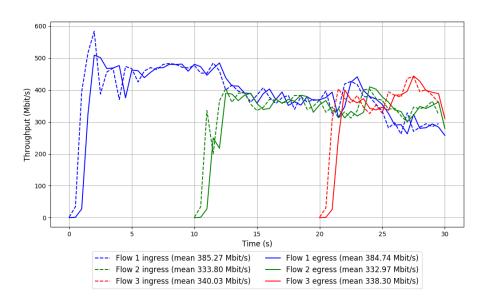
-- Flow 3:

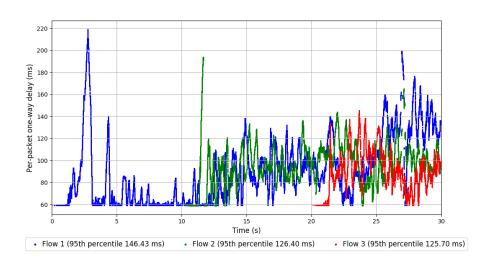
Average throughput: 338.30 Mbit/s

95th percentile per-packet one-way delay: 125.698 ms

Loss rate: 1.72%

Run 3: Report of TCP Vegas — Data Link





### Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 18:06:28 End at: 2019-09-18 18:06:58 Local clock offset: -0.053 ms Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 652.96 Mbit/s

95th percentile per-packet one-way delay: 172.574 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 357.90 Mbit/s

95th percentile per-packet one-way delay: 170.094 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 313.17 Mbit/s

95th percentile per-packet one-way delay: 184.112 ms

Loss rate: 0.70%

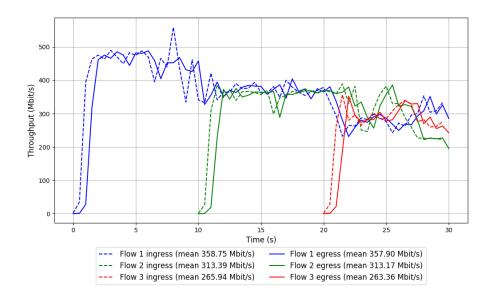
-- Flow 3:

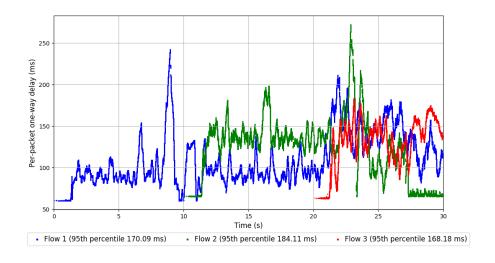
Average throughput: 263.36 Mbit/s

95th percentile per-packet one-way delay: 168.177 ms

Loss rate: 2.19%

Run 4: Report of TCP Vegas — Data Link





# Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 18:45:34 End at: 2019-09-18 18:46:04 Local clock offset: 0.019 ms Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 602.21 Mbit/s

95th percentile per-packet one-way delay: 142.070 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 354.31 Mbit/s

95th percentile per-packet one-way delay: 151.169 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 353.51 Mbit/s

95th percentile per-packet one-way delay: 113.652 ms

Loss rate: 0.79%

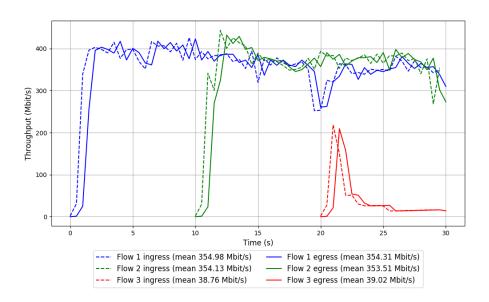
-- Flow 3:

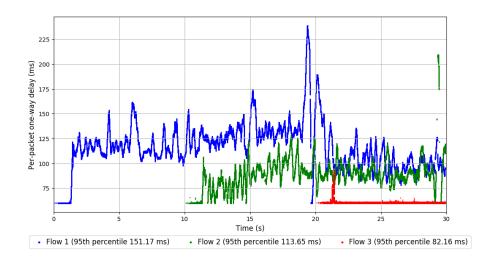
Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 82.159 ms

Loss rate: 0.56%

Run 5: Report of TCP Vegas — Data Link





#### Run 1: Statistics of Verus

Start at: 2019-09-18 15:45:13 End at: 2019-09-18 15:45:43 Local clock offset: 0.038 ms Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 165.28 Mbit/s

95th percentile per-packet one-way delay: 156.425 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 89.67 Mbit/s

95th percentile per-packet one-way delay: 142.842 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 66.94 Mbit/s

95th percentile per-packet one-way delay: 120.379 ms

Loss rate: 0.00%

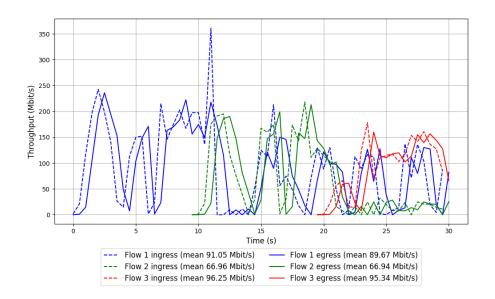
-- Flow 3:

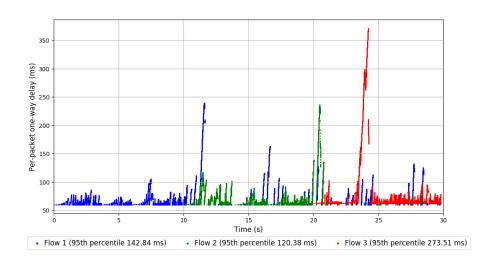
Average throughput: 95.34 Mbit/s

95th percentile per-packet one-way delay: 273.506 ms

Loss rate: 2.15%

Run 1: Report of Verus — Data Link





## Run 2: Statistics of Verus

Start at: 2019-09-18 16:24:47 End at: 2019-09-18 16:25:17 Local clock offset: -0.007 ms Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 99.09 Mbit/s

95th percentile per-packet one-way delay: 151.638 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 32.06 Mbit/s

95th percentile per-packet one-way delay: 191.680 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 125.388 ms

Loss rate: 0.00%

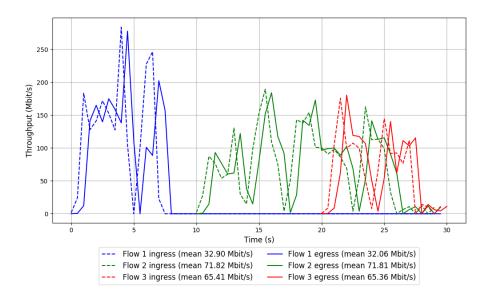
-- Flow 3:

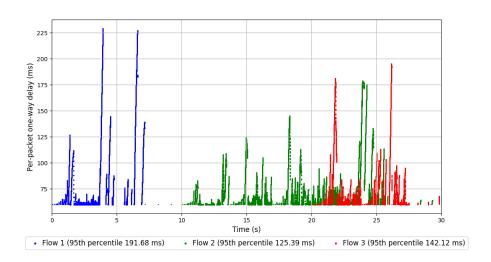
Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 142.124 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link





## Run 3: Statistics of Verus

Start at: 2019-09-18 17:04:06 End at: 2019-09-18 17:04:36 Local clock offset: 0.013 ms Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 216.17 Mbit/s

95th percentile per-packet one-way delay: 172.656 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 129.86 Mbit/s

95th percentile per-packet one-way delay: 153.018 ms

Loss rate: 2.77%

-- Flow 2:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 201.886 ms

Loss rate: 0.94%

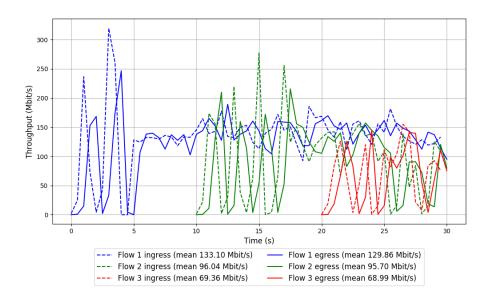
-- Flow 3:

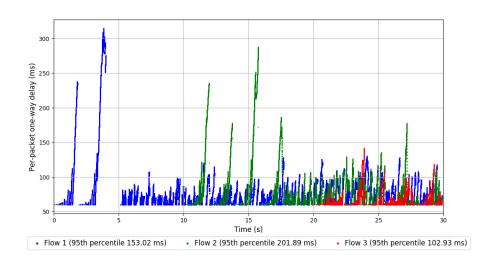
Average throughput: 68.99 Mbit/s

95th percentile per-packet one-way delay: 102.934 ms

Loss rate: 0.83%

Run 3: Report of Verus — Data Link





## Run 4: Statistics of Verus

Start at: 2019-09-18 17:43:48 End at: 2019-09-18 17:44:18 Local clock offset: -0.202 ms Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 131.649 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 110.833 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.69 Mbit/s

95th percentile per-packet one-way delay: 160.709 ms

Loss rate: 1.34%

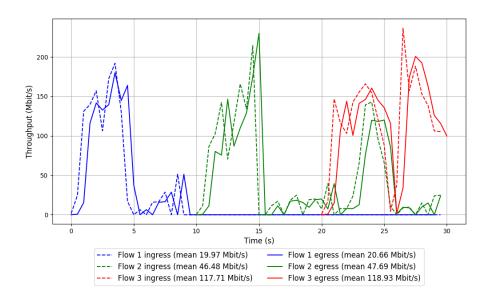
-- Flow 3:

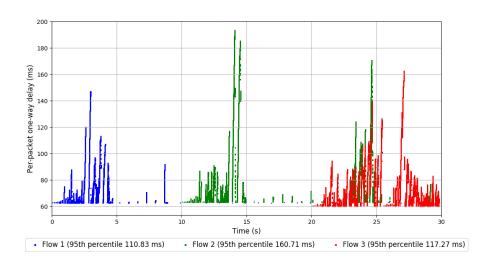
Average throughput: 118.93 Mbit/s

95th percentile per-packet one-way delay: 117.272 ms

Loss rate: 0.85%

Run 4: Report of Verus — Data Link





## Run 5: Statistics of Verus

Start at: 2019-09-18 18:22:43 End at: 2019-09-18 18:23:13 Local clock offset: -0.028 ms Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 188.25 Mbit/s

95th percentile per-packet one-way delay: 115.089 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 138.41 Mbit/s

95th percentile per-packet one-way delay: 102.990 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 98.129 ms

Loss rate: 0.00%

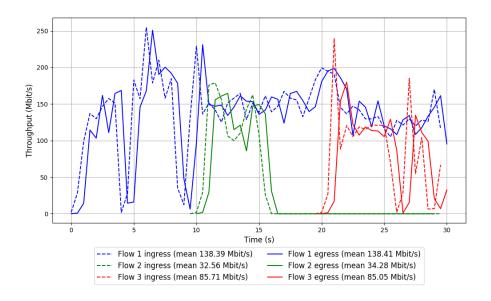
-- Flow 3:

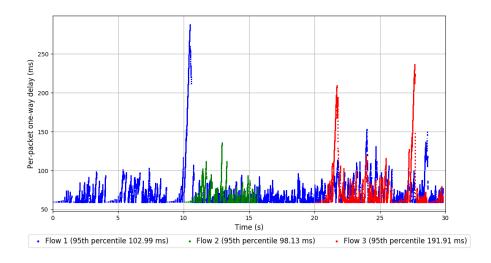
Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 191.907 ms

Loss rate: 2.01%

Run 5: Report of Verus — Data Link





# Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 15:59:50 End at: 2019-09-18 16:00:20 Local clock offset: 0.037 ms Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-09-18 22:48:04

# Datalink statistics
-- Total of 3 flows:

Average throughput: 363.39 Mbit/s

95th percentile per-packet one-way delay: 100.011 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 183.55 Mbit/s

95th percentile per-packet one-way delay: 87.289 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 194.07 Mbit/s

95th percentile per-packet one-way delay: 108.346 ms

Loss rate: 0.65%

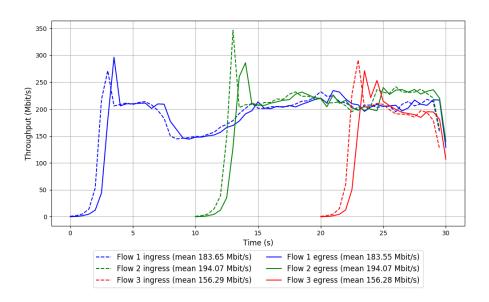
-- Flow 3:

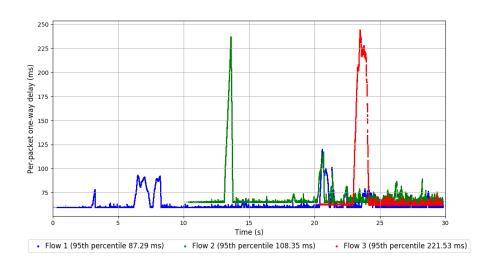
Average throughput: 156.28 Mbit/s

95th percentile per-packet one-way delay: 221.531 ms

Loss rate: 1.34%

Run 1: Report of PCC-Vivace — Data Link





# Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:38:58 End at: 2019-09-18 16:39:28 Local clock offset: -0.007 ms Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-09-18 22:48:33

# Datalink statistics
-- Total of 3 flows:

Average throughput: 340.97 Mbit/s

95th percentile per-packet one-way delay: 71.108 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 179.34 Mbit/s

95th percentile per-packet one-way delay: 70.291 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 193.54 Mbit/s

95th percentile per-packet one-way delay: 76.688 ms

Loss rate: 0.81%

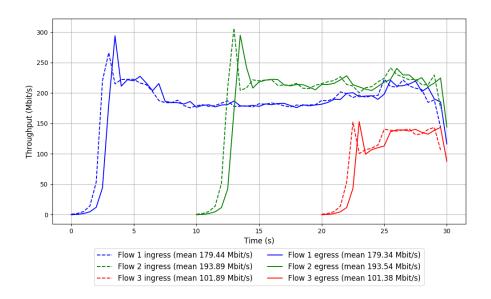
-- Flow 3:

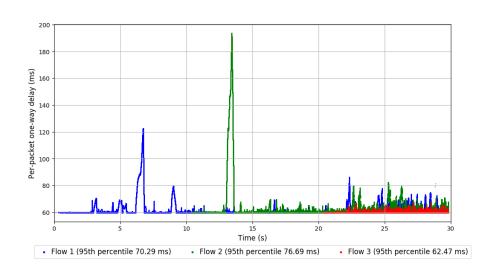
Average throughput: 101.38 Mbit/s

95th percentile per-packet one-way delay: 62.467 ms

Loss rate: 1.74%

Run 2: Report of PCC-Vivace — Data Link





# Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 17:18:35 End at: 2019-09-18 17:19:05 Local clock offset: -0.198 ms Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-09-18 22:48:58

# Datalink statistics
-- Total of 3 flows:

Average throughput: 334.77 Mbit/s

95th percentile per-packet one-way delay: 179.824 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 194.14 Mbit/s

95th percentile per-packet one-way delay: 143.699 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 169.94 Mbit/s

95th percentile per-packet one-way delay: 252.326 ms

Loss rate: 2.81%

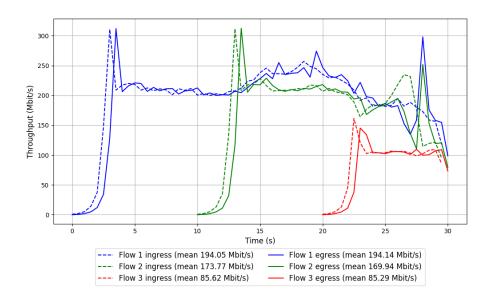
-- Flow 3:

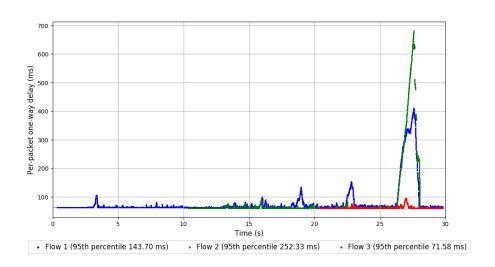
Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 71.580 ms

Loss rate: 1.57%

Run 3: Report of PCC-Vivace — Data Link





# Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 17:57:45 End at: 2019-09-18 17:58:15 Local clock offset: -0.095 ms Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-09-18 22:49:20

# Datalink statistics
-- Total of 3 flows:

Average throughput: 353.05 Mbit/s

95th percentile per-packet one-way delay: 85.608 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 193.22 Mbit/s

95th percentile per-packet one-way delay: 82.581 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 165.60 Mbit/s

95th percentile per-packet one-way delay: 79.394 ms

Loss rate: 0.64%

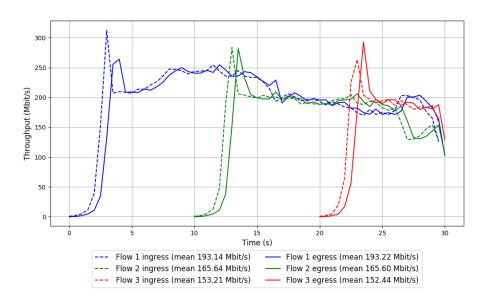
-- Flow 3:

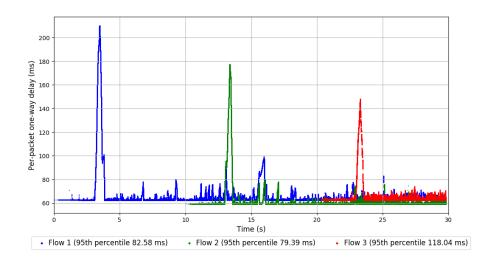
Average throughput: 152.44 Mbit/s

95th percentile per-packet one-way delay: 118.038 ms

Loss rate: 1.77%

Run 4: Report of PCC-Vivace — Data Link





# Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 18:37:01 End at: 2019-09-18 18:37:31 Local clock offset: -0.023 ms Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-09-18 22:49:23

# Datalink statistics
-- Total of 3 flows:

Average throughput: 343.89 Mbit/s

95th percentile per-packet one-way delay: 80.023 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 198.46 Mbit/s

95th percentile per-packet one-way delay: 78.158 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 173.04 Mbit/s

95th percentile per-packet one-way delay: 104.254 ms

Loss rate: 0.55%

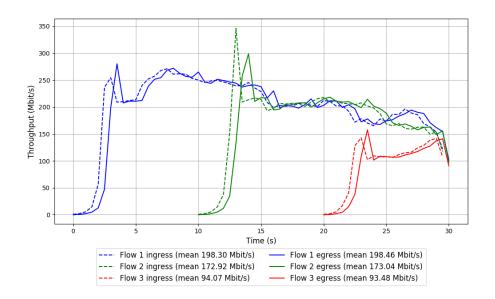
-- Flow 3:

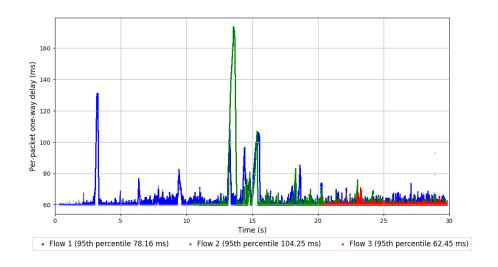
Average throughput: 93.48 Mbit/s

95th percentile per-packet one-way delay: 62.445 ms

Loss rate: 1.87%

Run 5: Report of PCC-Vivace — Data Link





# Run 1: Statistics of WebRTC media

Start at: 2019-09-18 15:54:54 End at: 2019-09-18 15:55:24 Local clock offset: 0.055 ms Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-09-18 22:49:23

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 62.244 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.261 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.274 ms

Loss rate: 0.05%

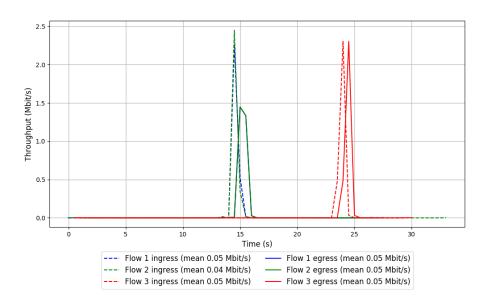
-- Flow 3:

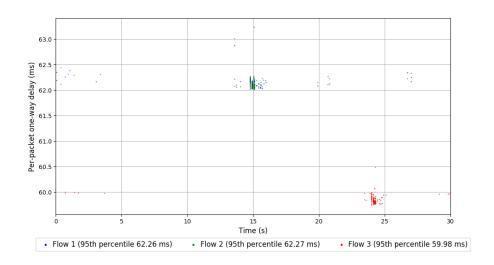
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 59.983 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





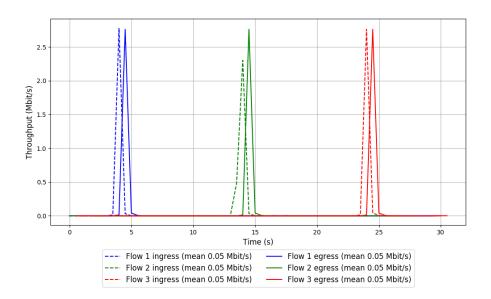
# Run 2: Statistics of WebRTC media

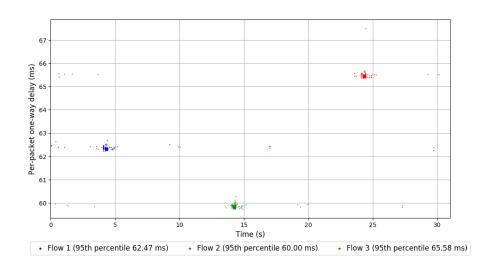
Start at: 2019-09-18 16:34:08

Loss rate: 0.00%

End at: 2019-09-18 16:34:38 Local clock offset: -0.007 ms Remote clock offset: -0.047 ms # Below is generated by plot.py at 2019-09-18 22:49:23 # Datalink statistics -- Total of 3 flows: Average throughput: 0.14 Mbit/s 95th percentile per-packet one-way delay: 65.532 ms Loss rate: 0.00% -- Flow 1: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 62.471 ms Loss rate: 0.00% -- Flow 2: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 59.999 ms Loss rate: 0.00% -- Flow 3: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 65.583 ms

Run 2: Report of WebRTC media — Data Link





# Run 3: Statistics of WebRTC media

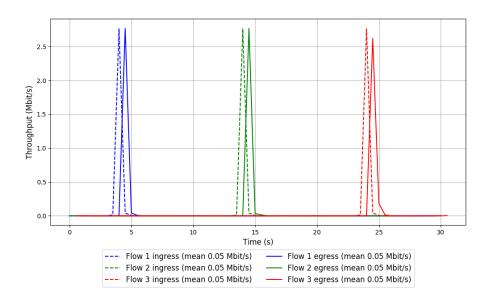
Start at: 2019-09-18 17:13:44

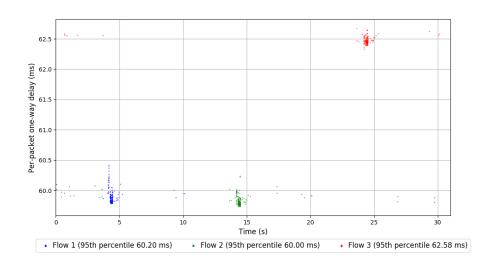
Loss rate: 0.00%

End at: 2019-09-18 17:14:14 Local clock offset: -0.134 ms Remote clock offset: 0.049 ms # Below is generated by plot.py at 2019-09-18 22:49:23 # Datalink statistics -- Total of 3 flows: Average throughput: 0.14 Mbit/s 95th percentile per-packet one-way delay: 62.543 ms Loss rate: 0.00% -- Flow 1: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 60.200 ms Loss rate: 0.00% -- Flow 2: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 59.999 ms Loss rate: 0.00% -- Flow 3: Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.583 ms

Run 3: Report of WebRTC media — Data Link





# Run 4: Statistics of WebRTC media

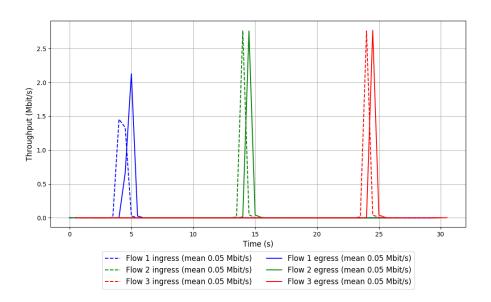
Start at: 2019-09-18 17:52:53

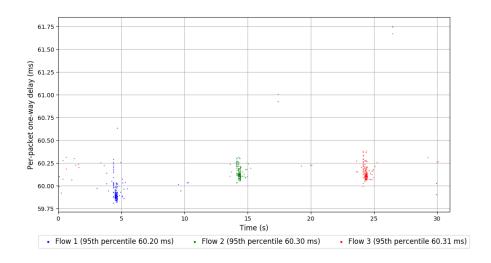
Loss rate: 0.00%

End at: 2019-09-18 17:53:23 Local clock offset: -0.108 ms Remote clock offset: -0.135 ms # Below is generated by plot.py at 2019-09-18 22:49:23 # Datalink statistics -- Total of 3 flows: Average throughput: 0.14 Mbit/s 95th percentile per-packet one-way delay: 60.292 ms Loss rate: 0.00% -- Flow 1: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 60.199 ms Loss rate: 0.00% -- Flow 2: Average throughput: 0.05 Mbit/s 95th percentile per-packet one-way delay: 60.301 ms Loss rate: 0.00% -- Flow 3: Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.313 ms

Run 4: Report of WebRTC media — Data Link





# Run 5: Statistics of WebRTC media

Start at: 2019-09-18 18:32:20 End at: 2019-09-18 18:32:50 Local clock offset: 0.016 ms Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-09-18 22:49:23

# Datalink statistics
-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.140 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 65.737 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.314 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.217 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

