

Pantheon Report

Generated at 2018-05-25 21:29:32 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

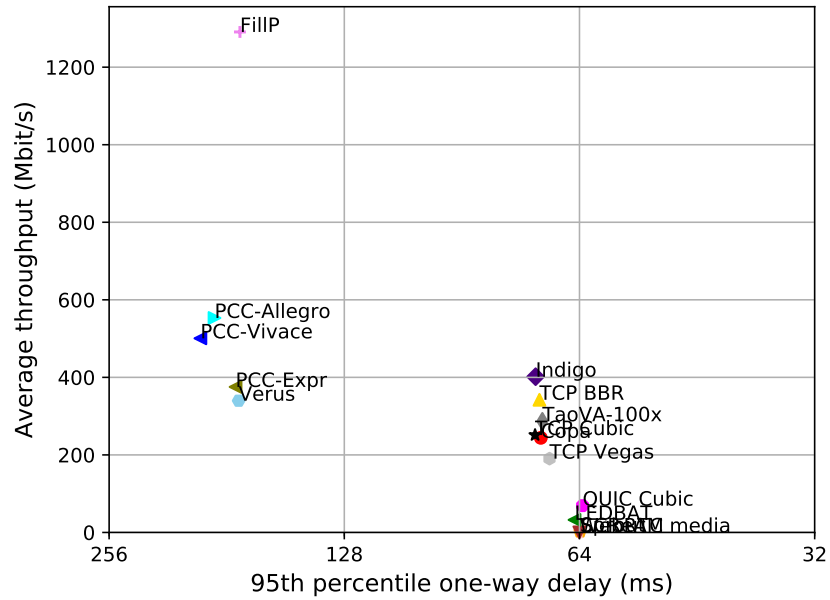
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

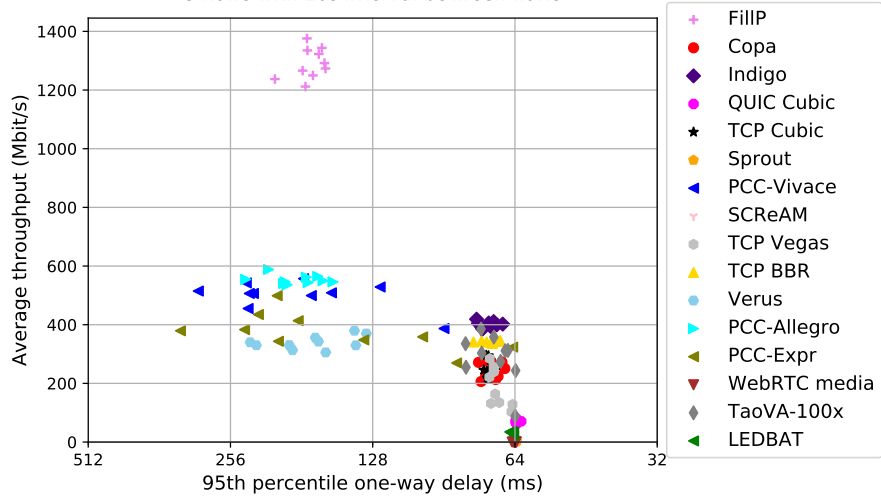
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
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, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE Iowa, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	173.85	171.89	164.35	70.88	72.12	73.17	0.36	0.67	1.45
Copa	10	129.14	124.45	99.66	70.06	74.18	71.07	0.39	0.60	1.32
TCP Cubic	10	141.56	116.40	98.69	72.86	71.63	71.81	0.57	1.08	2.67
FillP	10	701.11	616.22	549.55	172.70	173.19	170.55	4.31	6.25	5.96
Indigo	10	209.81	206.31	165.60	70.93	73.64	76.76	0.42	0.63	1.43
LEDBAT	10	21.19	13.62	6.72	65.04	64.79	64.48	0.77	1.13	2.61
PCC-Allegro	10	525.90	26.43	29.98	188.12	169.42	155.25	2.22	2.17	1.83
PCC-Expr	10	236.79	161.25	96.34	172.35	134.28	121.13	4.23	2.35	3.61
QUIC Cubic	10	45.61	25.00	20.43	63.58	62.99	62.86	0.59	1.47	0.82
SCReAM	10	0.22	0.22	0.22	63.72	63.49	63.42	0.38	0.61	1.08
Sprout	10	0.91	0.84	0.88	63.89	63.82	63.59	0.24	0.54	1.06
TaoVA-100x	10	135.92	151.28	152.77	68.82	72.91	73.52	0.33	0.57	1.13
TCP Vegas	10	96.88	94.37	93.78	67.89	68.06	69.72	0.39	0.77	1.45
Verus	10	207.23	144.68	111.32	153.67	197.15	209.04	1.18	2.22	4.26
PCC-Vivace	10	307.52	212.27	159.72	186.78	164.86	127.02	1.37	1.26	3.26
WebRTC media	10	0.05	0.05	0.05	63.83	63.51	64.03	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 14:56:05

End at: 2018-05-25 14:56:35

Local clock offset: 0.002 ms

Remote clock offset: 0.33 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.50 Mbit/s

95th percentile per-packet one-way delay: 68.782 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 178.67 Mbit/s

95th percentile per-packet one-way delay: 68.282 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 171.42 Mbit/s

95th percentile per-packet one-way delay: 69.616 ms

Loss rate: 0.67%

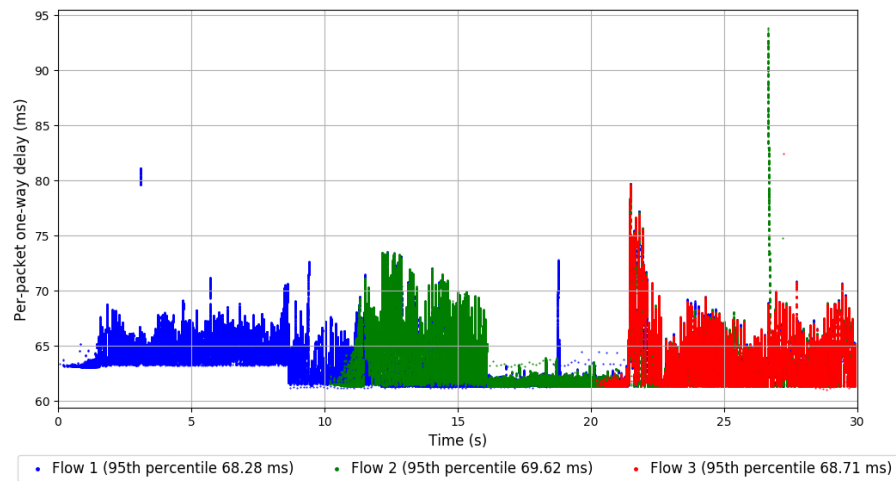
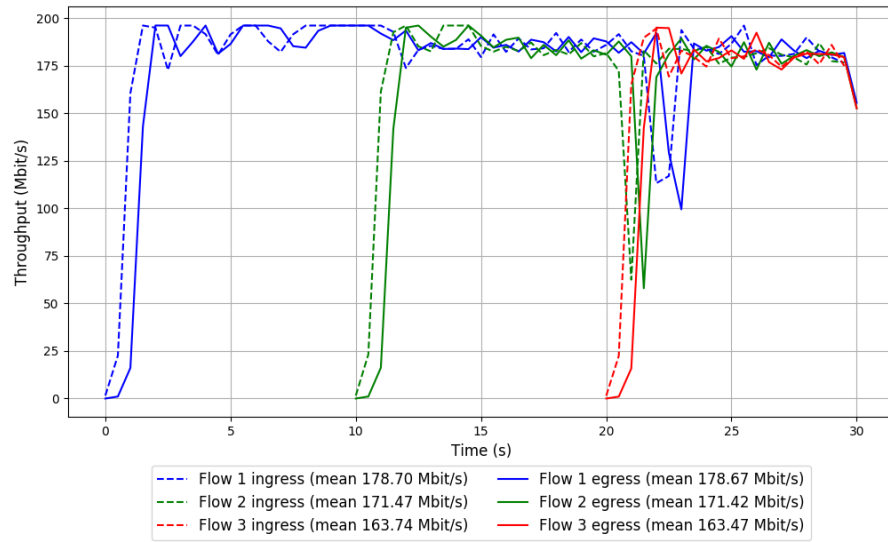
-- Flow 3:

Average throughput: 163.47 Mbit/s

95th percentile per-packet one-way delay: 68.711 ms

Loss rate: 1.43%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 15:19:24

End at: 2018-05-25 15:19:54

Local clock offset: 0.061 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.22 Mbit/s

95th percentile per-packet one-way delay: 78.318 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 168.67 Mbit/s

95th percentile per-packet one-way delay: 76.535 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 180.23 Mbit/s

95th percentile per-packet one-way delay: 79.200 ms

Loss rate: 0.65%

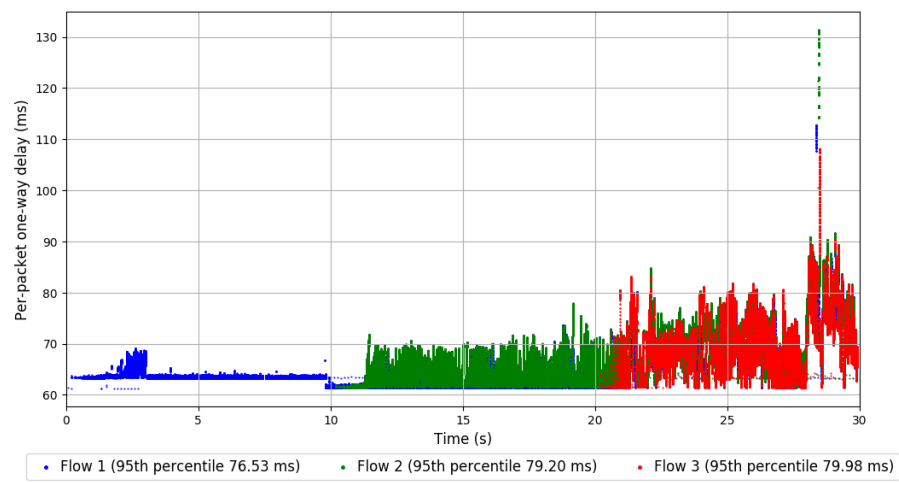
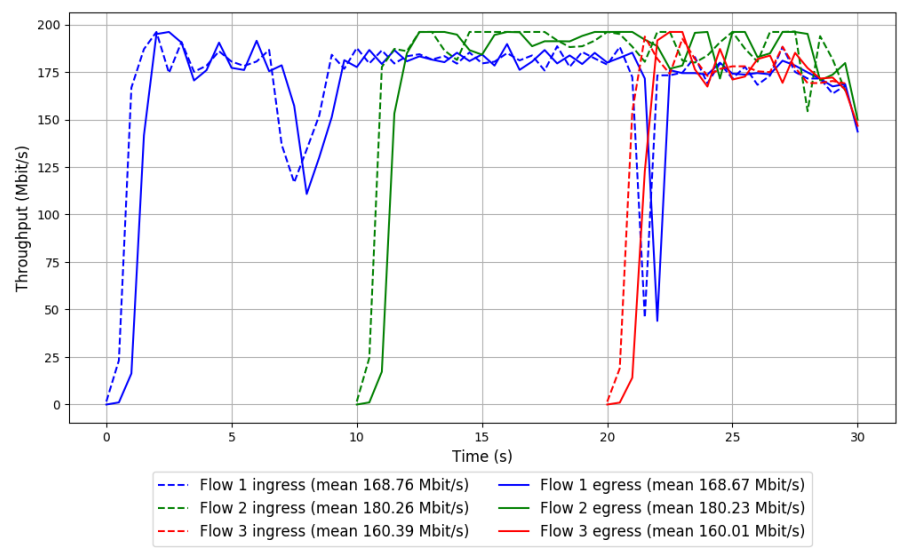
-- Flow 3:

Average throughput: 160.01 Mbit/s

95th percentile per-packet one-way delay: 79.976 ms

Loss rate: 1.51%

Run 2: Report of TCP BBR — Data Link

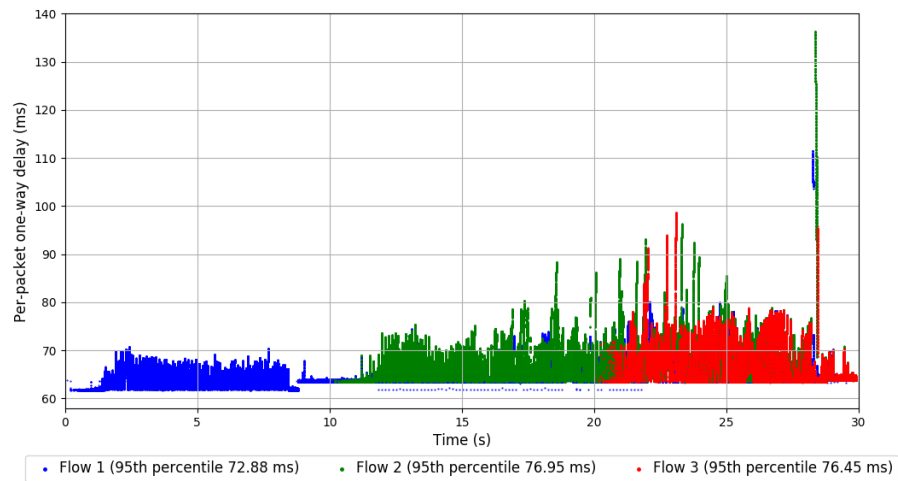
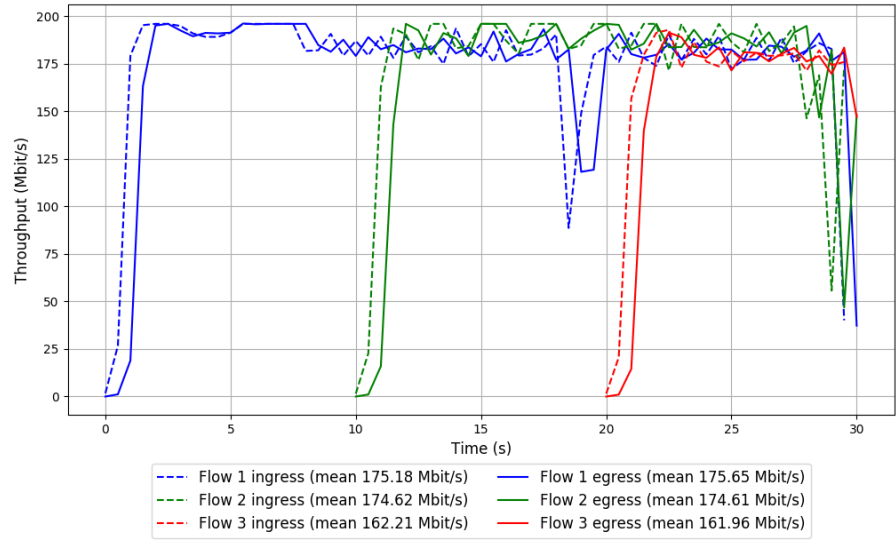


Run 3: Statistics of TCP BBR

Start at: 2018-05-25 15:42:45
End at: 2018-05-25 15:43:15
Local clock offset: 0.096 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-25 18:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.89 Mbit/s
95th percentile per-packet one-way delay: 75.314 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 175.65 Mbit/s
95th percentile per-packet one-way delay: 72.879 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 174.61 Mbit/s
95th percentile per-packet one-way delay: 76.953 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 161.96 Mbit/s
95th percentile per-packet one-way delay: 76.455 ms
Loss rate: 1.52%

Run 3: Report of TCP BBR — Data Link

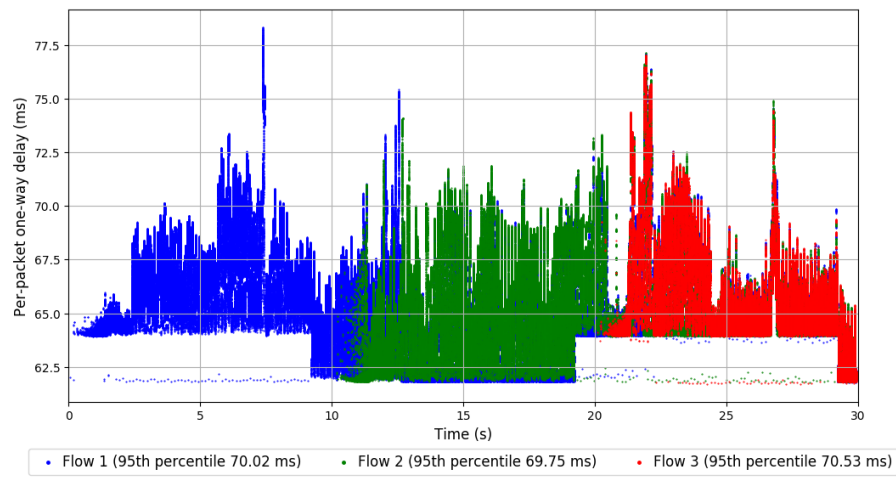
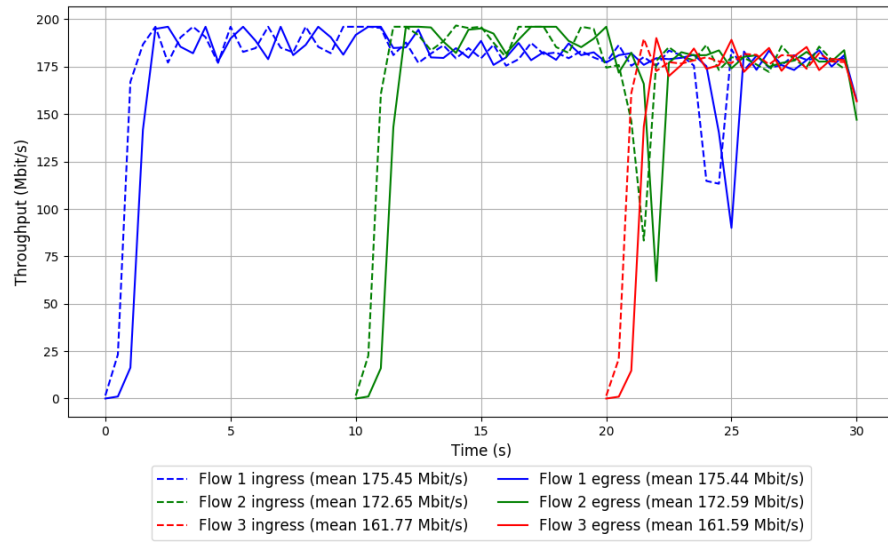


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 16:06:05
End at: 2018-05-25 16:06:35
Local clock offset: 0.085 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-05-25 18:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.26 Mbit/s
95th percentile per-packet one-way delay: 70.016 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 175.44 Mbit/s
95th percentile per-packet one-way delay: 70.016 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 172.59 Mbit/s
95th percentile per-packet one-way delay: 69.750 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 161.59 Mbit/s
95th percentile per-packet one-way delay: 70.534 ms
Loss rate: 1.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 16:29:26

End at: 2018-05-25 16:29:56

Local clock offset: -0.055 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.28 Mbit/s

95th percentile per-packet one-way delay: 71.783 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 176.59 Mbit/s

95th percentile per-packet one-way delay: 71.693 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 166.44 Mbit/s

95th percentile per-packet one-way delay: 71.169 ms

Loss rate: 0.69%

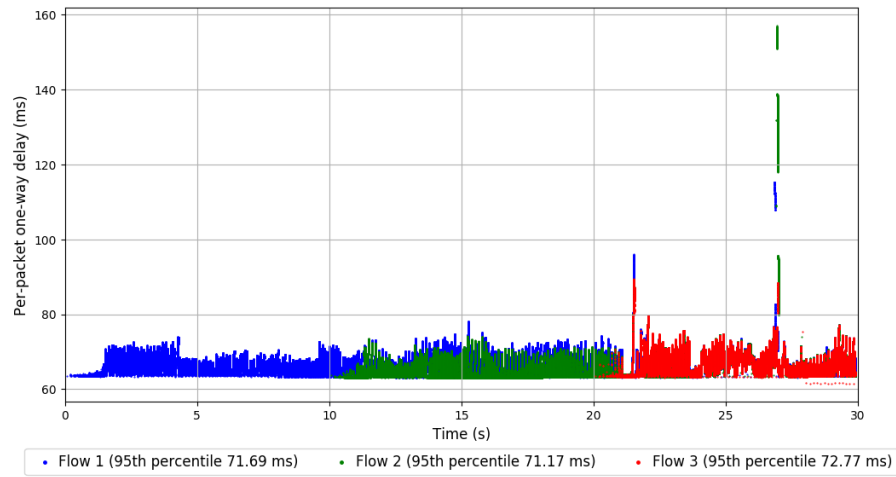
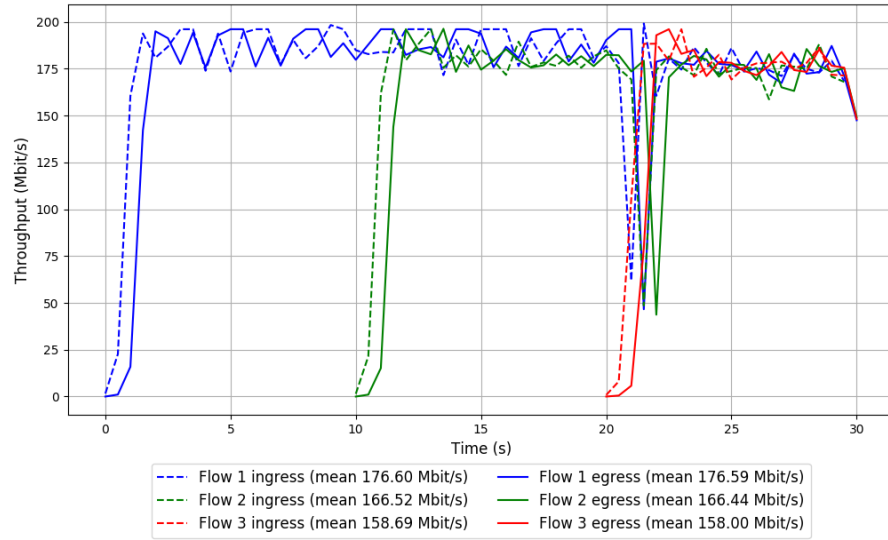
-- Flow 3:

Average throughput: 158.00 Mbit/s

95th percentile per-packet one-way delay: 72.766 ms

Loss rate: 1.52%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 16:52:48

End at: 2018-05-25 16:53:18

Local clock offset: -0.017 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.46 Mbit/s

95th percentile per-packet one-way delay: 71.718 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 168.75 Mbit/s

95th percentile per-packet one-way delay: 70.374 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 176.44 Mbit/s

95th percentile per-packet one-way delay: 72.162 ms

Loss rate: 0.63%

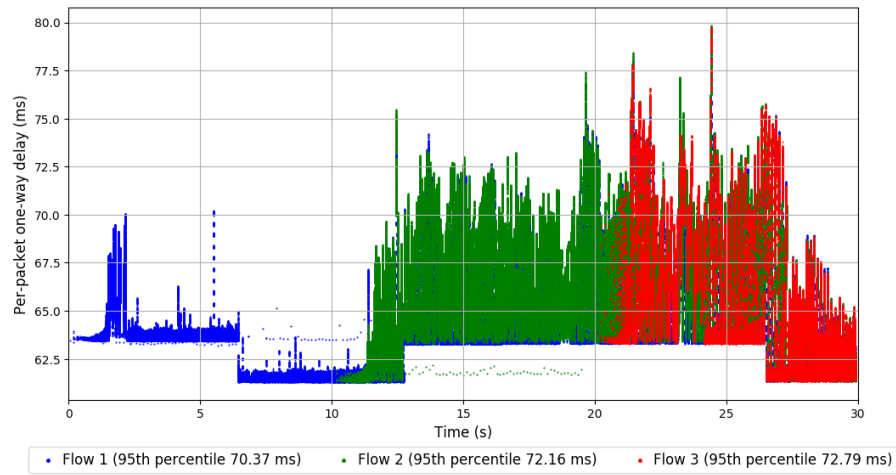
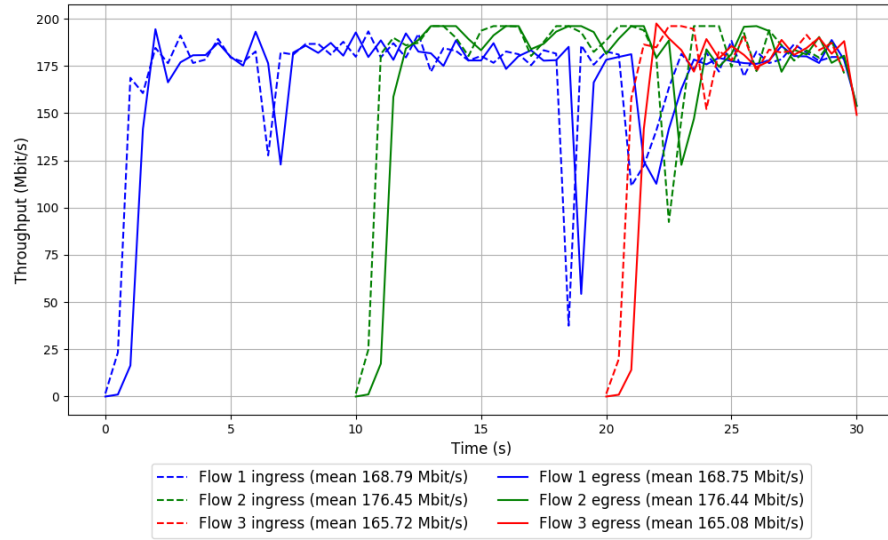
-- Flow 3:

Average throughput: 165.08 Mbit/s

95th percentile per-packet one-way delay: 72.792 ms

Loss rate: 1.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 17:15:57

End at: 2018-05-25 17:16:27

Local clock offset: -0.082 ms

Remote clock offset: 0.521 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.78 Mbit/s

95th percentile per-packet one-way delay: 68.956 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 177.85 Mbit/s

95th percentile per-packet one-way delay: 69.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.47 Mbit/s

95th percentile per-packet one-way delay: 67.063 ms

Loss rate: 0.68%

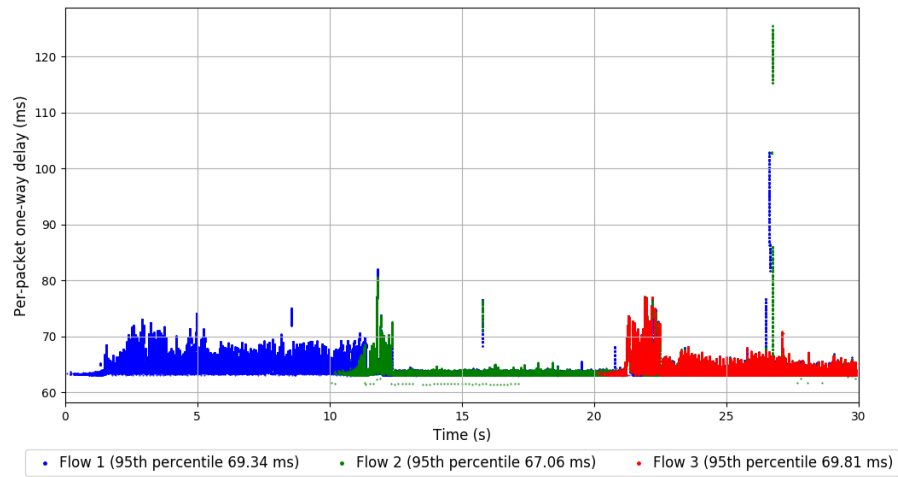
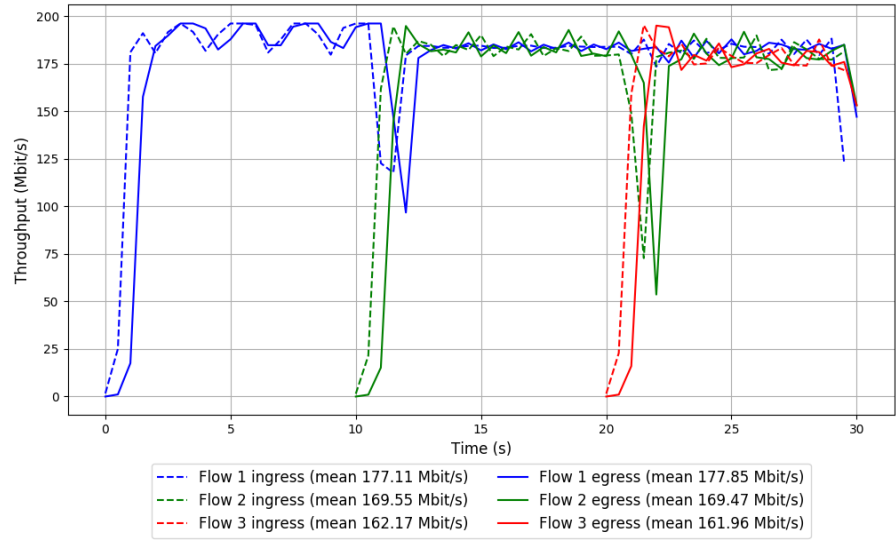
-- Flow 3:

Average throughput: 161.96 Mbit/s

95th percentile per-packet one-way delay: 69.809 ms

Loss rate: 1.40%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 17:39:10

End at: 2018-05-25 17:39:40

Local clock offset: -0.076 ms

Remote clock offset: 0.387 ms

Below is generated by plot.py at 2018-05-25 18:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.94 Mbit/s

95th percentile per-packet one-way delay: 73.461 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 173.59 Mbit/s

95th percentile per-packet one-way delay: 72.288 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 166.99 Mbit/s

95th percentile per-packet one-way delay: 73.357 ms

Loss rate: 0.73%

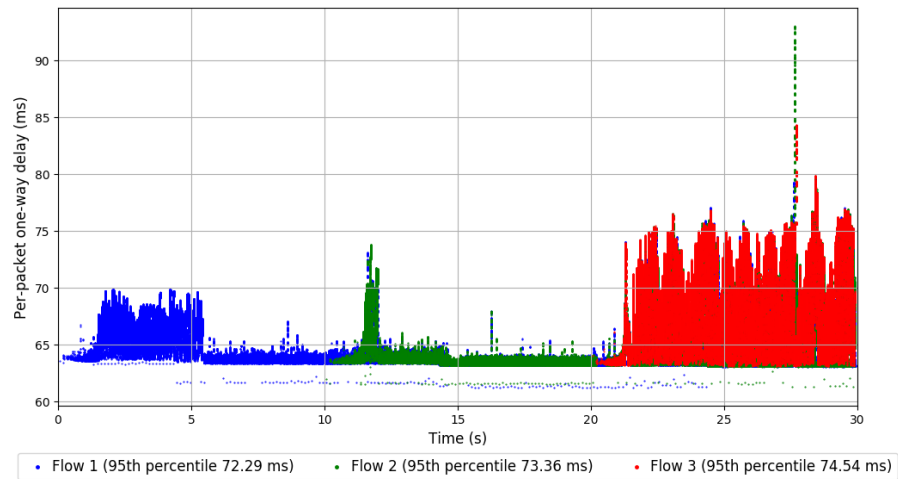
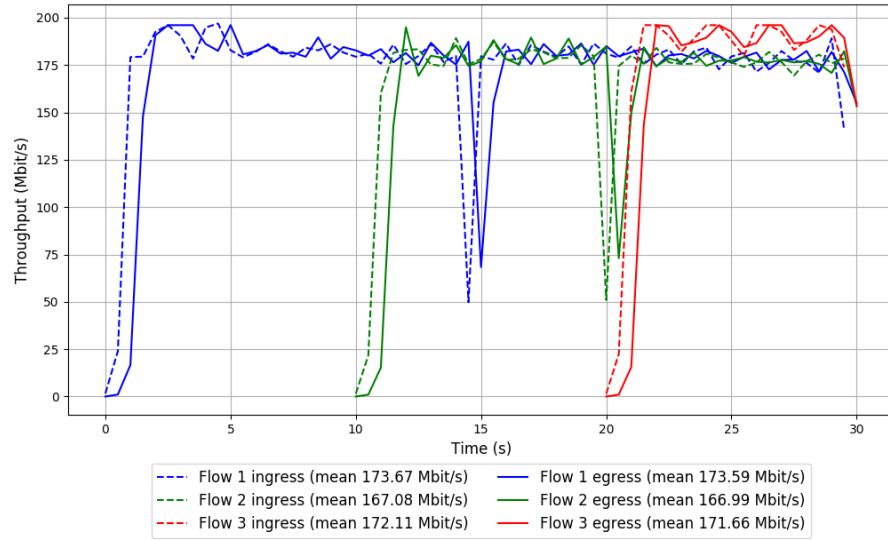
-- Flow 3:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 74.541 ms

Loss rate: 1.43%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 18:02:49

End at: 2018-05-25 18:03:19

Local clock offset: -0.104 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-05-25 18:58:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.17 Mbit/s

95th percentile per-packet one-way delay: 70.398 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 174.62 Mbit/s

95th percentile per-packet one-way delay: 68.118 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 172.94 Mbit/s

95th percentile per-packet one-way delay: 70.438 ms

Loss rate: 0.66%

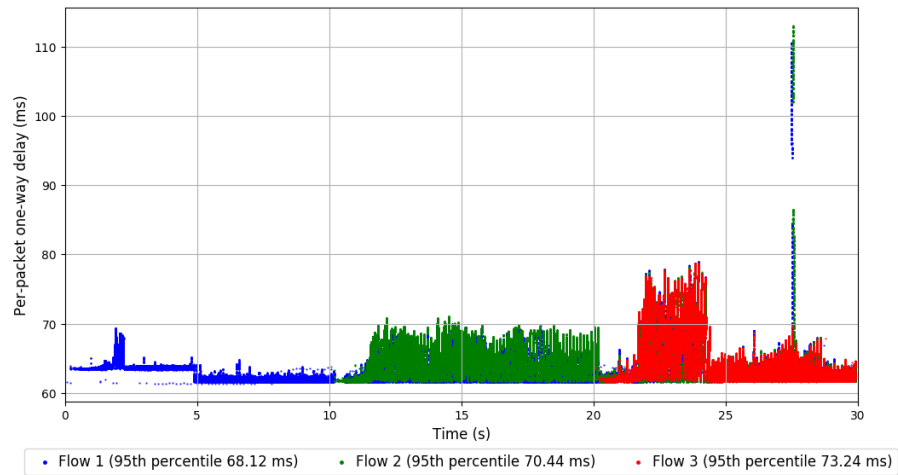
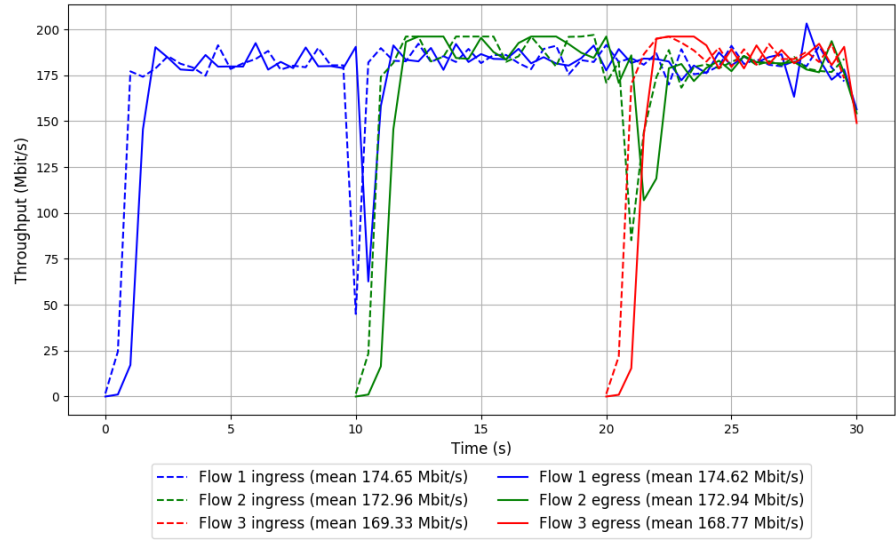
-- Flow 3:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 73.238 ms

Loss rate: 1.42%

Run 9: Report of TCP BBR — Data Link

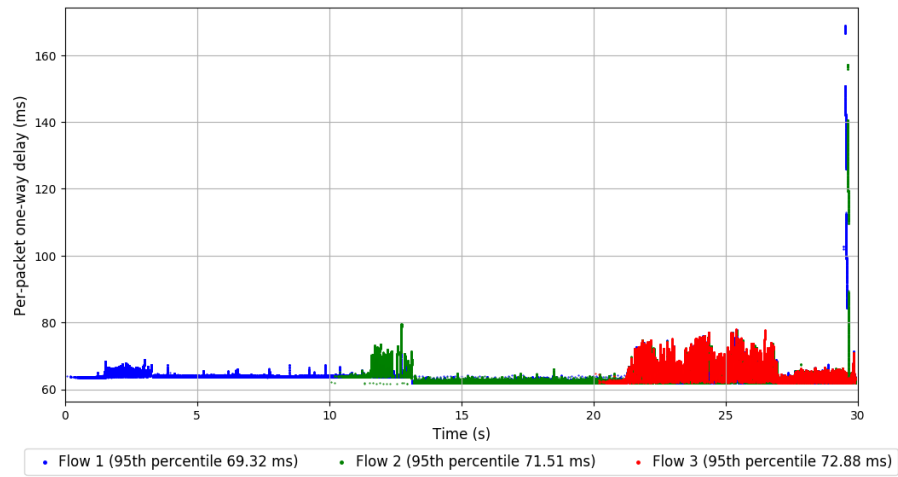
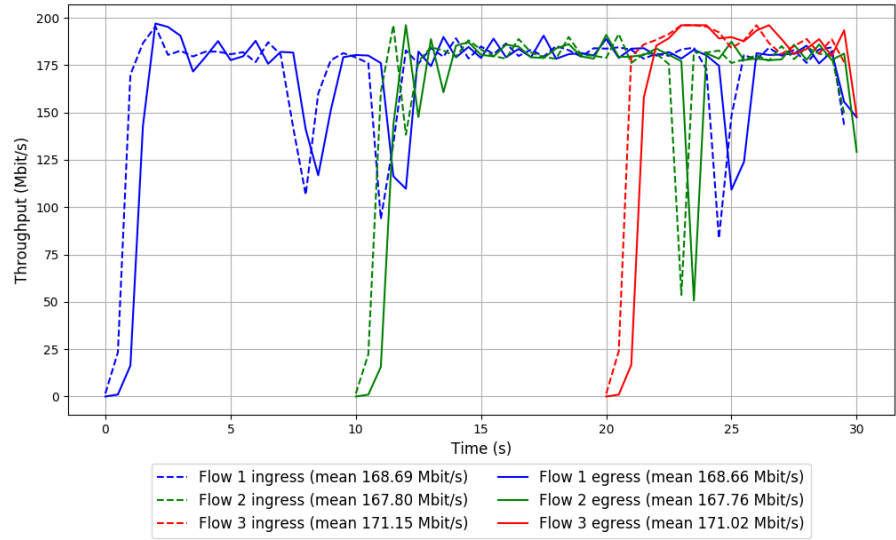


Run 10: Statistics of TCP BBR

Start at: 2018-05-25 18:26:01
End at: 2018-05-25 18:26:31
Local clock offset: -0.086 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-05-25 18:58:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.29 Mbit/s
95th percentile per-packet one-way delay: 71.432 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 168.66 Mbit/s
95th percentile per-packet one-way delay: 69.324 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 167.76 Mbit/s
95th percentile per-packet one-way delay: 71.507 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 72.880 ms
Loss rate: 1.44%

Run 10: Report of TCP BBR — Data Link

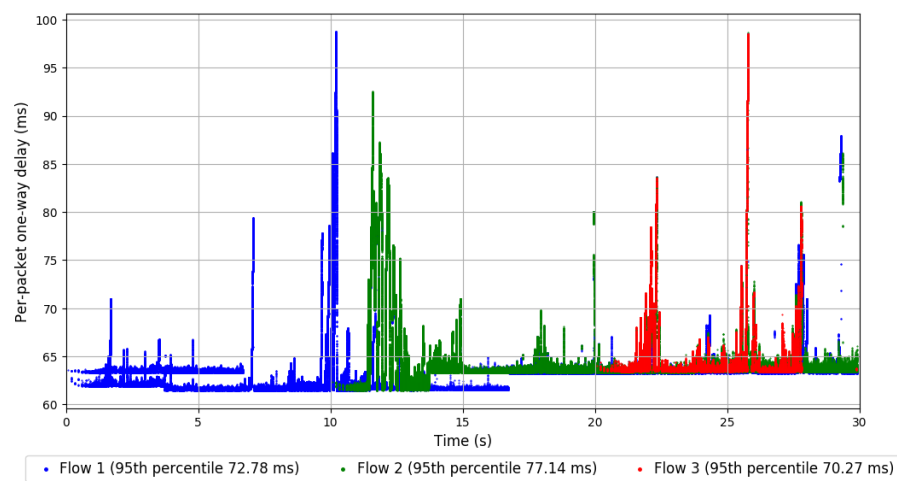
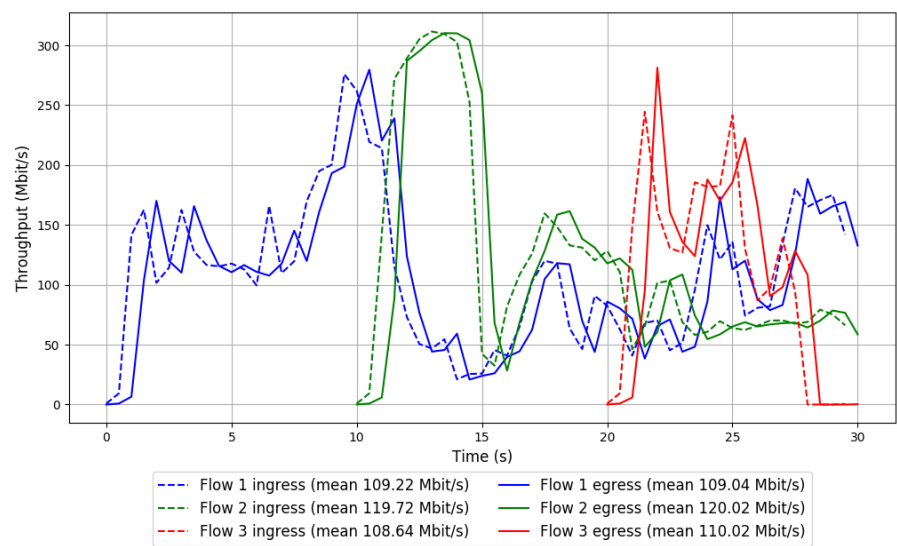


Run 1: Statistics of Copa

Start at: 2018-05-25 14:52:50
End at: 2018-05-25 14:53:20
Local clock offset: 0.016 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-25 19:00:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.04 Mbit/s
95th percentile per-packet one-way delay: 73.818 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 109.04 Mbit/s
95th percentile per-packet one-way delay: 72.780 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 120.02 Mbit/s
95th percentile per-packet one-way delay: 77.135 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 110.02 Mbit/s
95th percentile per-packet one-way delay: 70.271 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 15:16:10

End at: 2018-05-25 15:16:40

Local clock offset: 0.049 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-05-25 19:00:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 75.497 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 103.89 Mbit/s

95th percentile per-packet one-way delay: 73.786 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 112.01 Mbit/s

95th percentile per-packet one-way delay: 77.338 ms

Loss rate: 0.71%

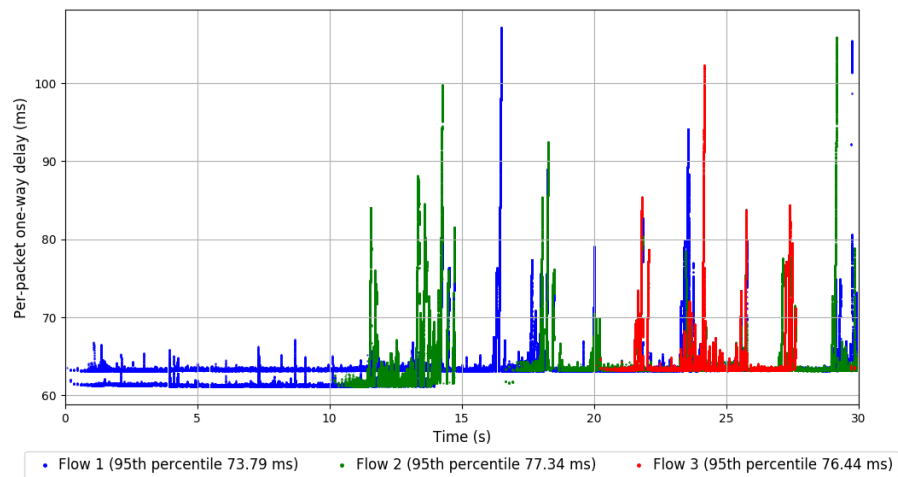
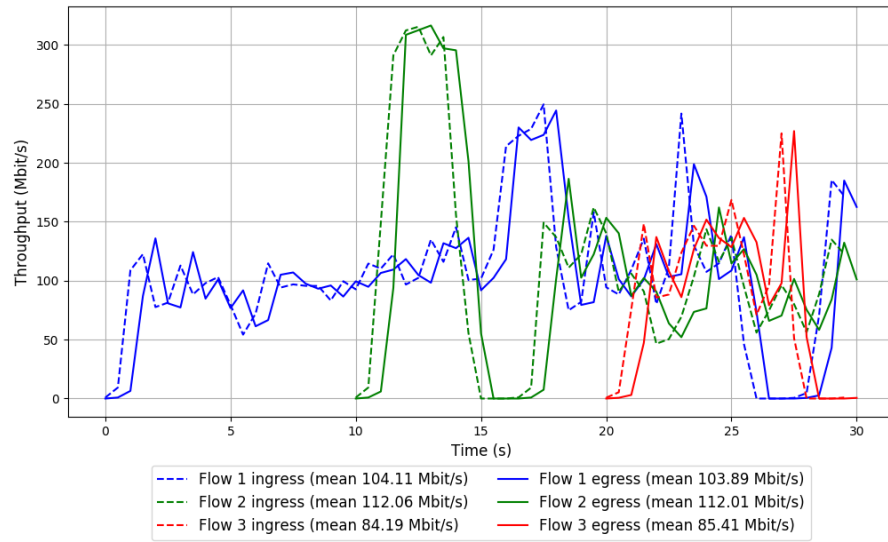
-- Flow 3:

Average throughput: 85.41 Mbit/s

95th percentile per-packet one-way delay: 76.441 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-25 15:39:30

End at: 2018-05-25 15:40:00

Local clock offset: 0.088 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-05-25 19:02:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.20 Mbit/s

95th percentile per-packet one-way delay: 73.578 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 158.56 Mbit/s

95th percentile per-packet one-way delay: 69.634 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 137.22 Mbit/s

95th percentile per-packet one-way delay: 80.871 ms

Loss rate: 0.00%

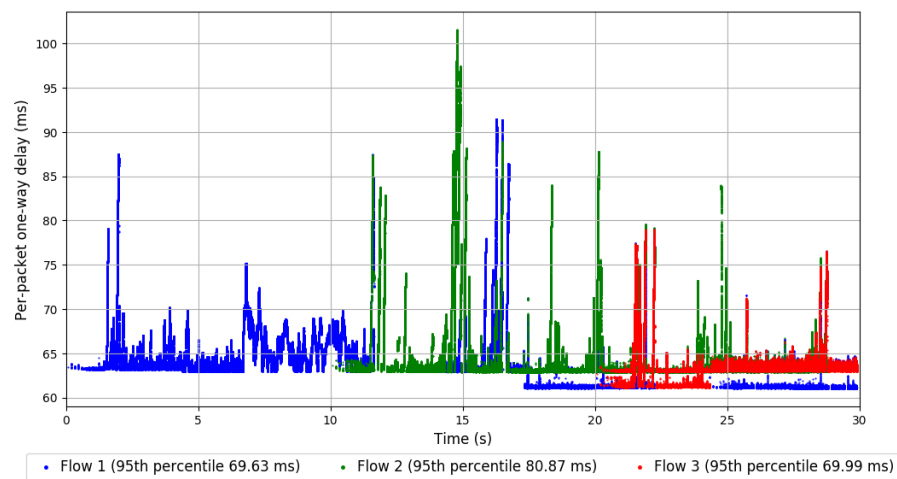
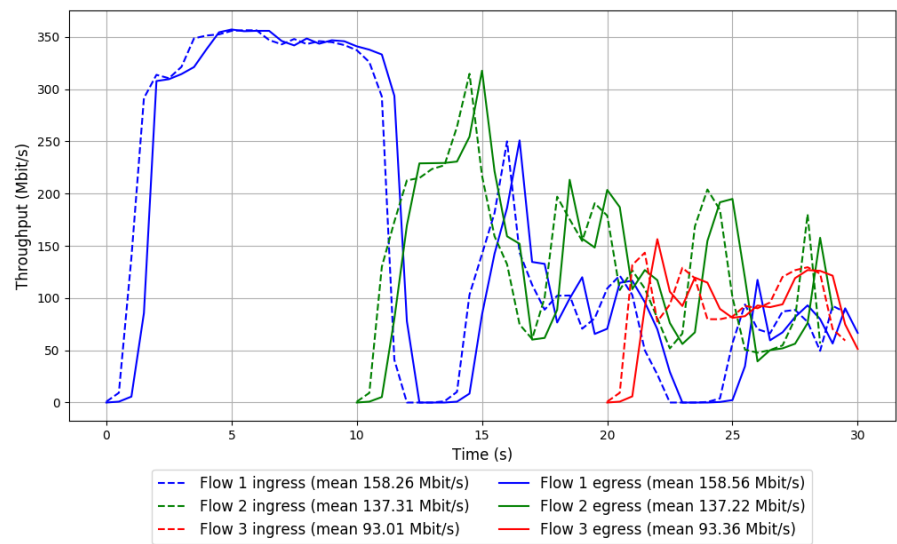
-- Flow 3:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 69.991 ms

Loss rate: 0.88%

Run 3: Report of Copa — Data Link

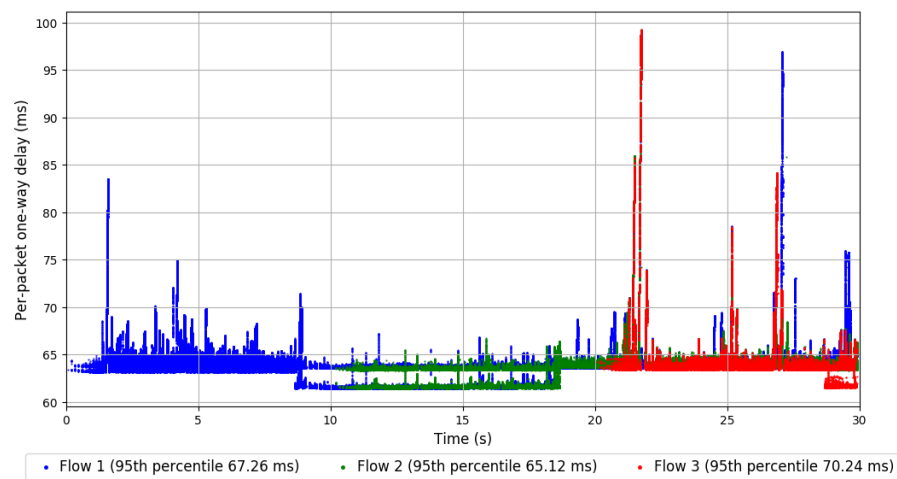
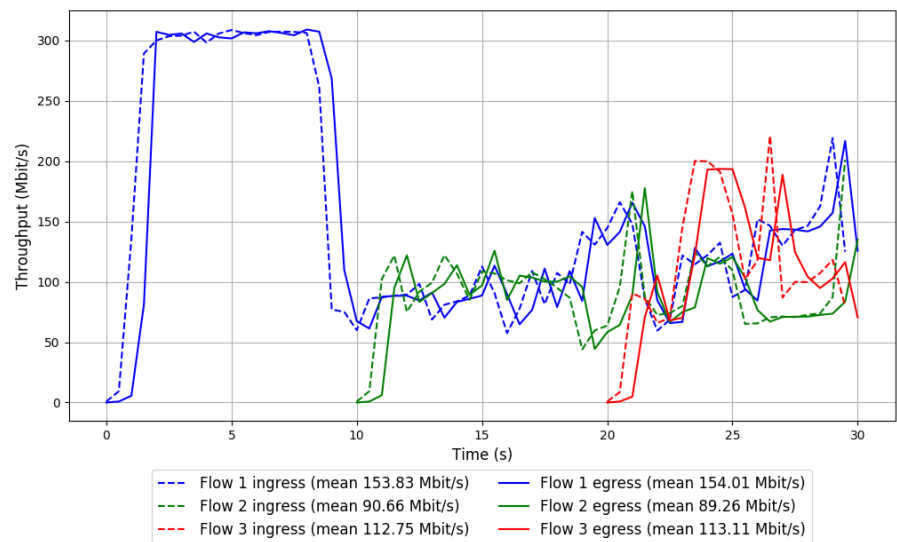


Run 4: Statistics of Copa

Start at: 2018-05-25 16:02:45
End at: 2018-05-25 16:03:15
Local clock offset: 0.111 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-25 19:02:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 250.58 Mbit/s
95th percentile per-packet one-way delay: 67.228 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 154.01 Mbit/s
95th percentile per-packet one-way delay: 67.264 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 65.122 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 113.11 Mbit/s
95th percentile per-packet one-way delay: 70.236 ms
Loss rate: 1.04%

Run 4: Report of Copa — Data Link

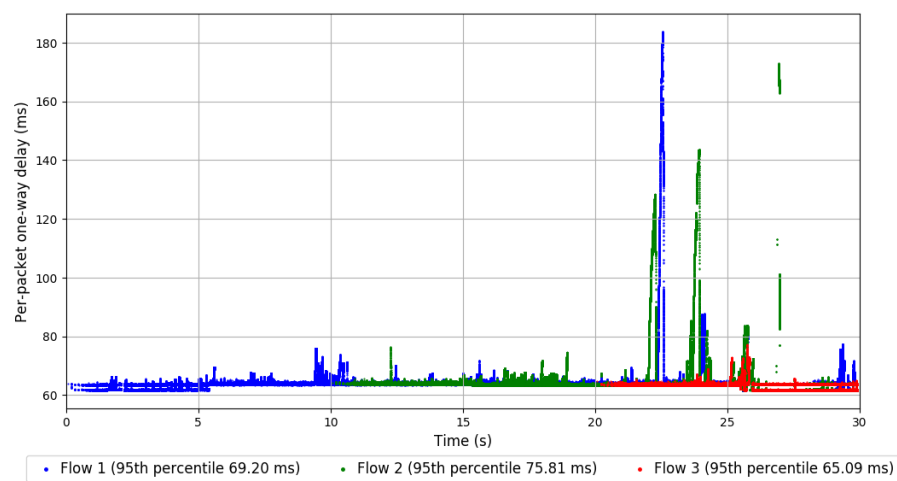
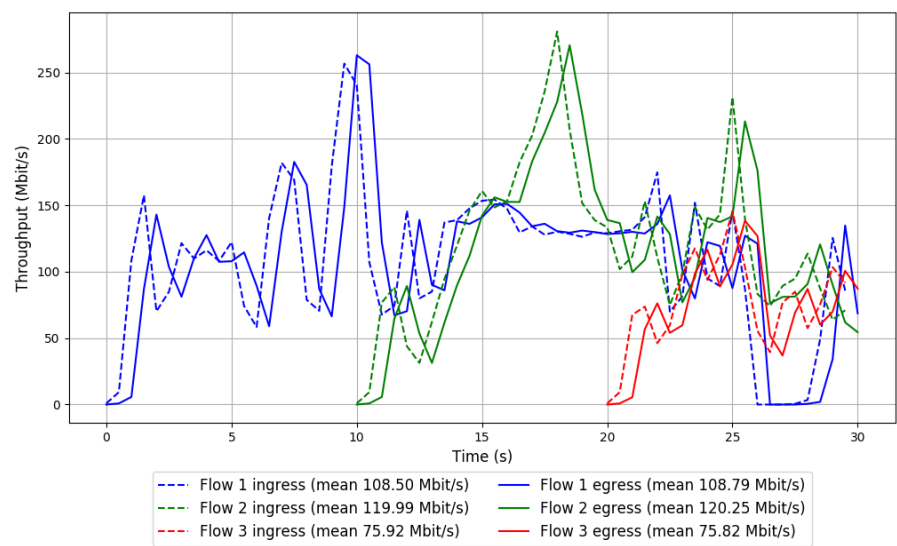


Run 5: Statistics of Copa

Start at: 2018-05-25 16:26:19
End at: 2018-05-25 16:26:49
Local clock offset: -0.027 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-25 19:02:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.27 Mbit/s
95th percentile per-packet one-way delay: 70.300 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 108.79 Mbit/s
95th percentile per-packet one-way delay: 69.199 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 120.25 Mbit/s
95th percentile per-packet one-way delay: 75.810 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 75.82 Mbit/s
95th percentile per-packet one-way delay: 65.092 ms
Loss rate: 1.42%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 16:49:26

End at: 2018-05-25 16:49:56

Local clock offset: -0.018 ms

Remote clock offset: 0.319 ms

Below is generated by plot.py at 2018-05-25 19:02:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.87 Mbit/s

95th percentile per-packet one-way delay: 68.210 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 133.46 Mbit/s

95th percentile per-packet one-way delay: 65.554 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 173.24 Mbit/s

95th percentile per-packet one-way delay: 70.163 ms

Loss rate: 0.25%

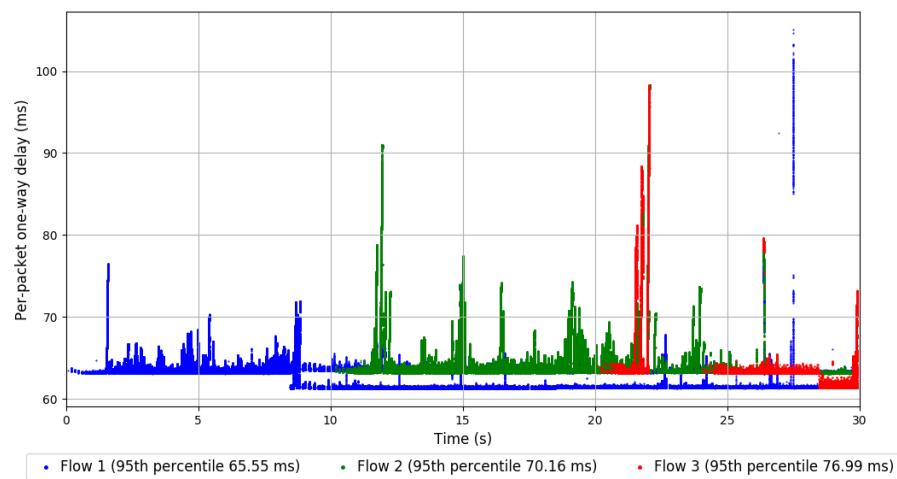
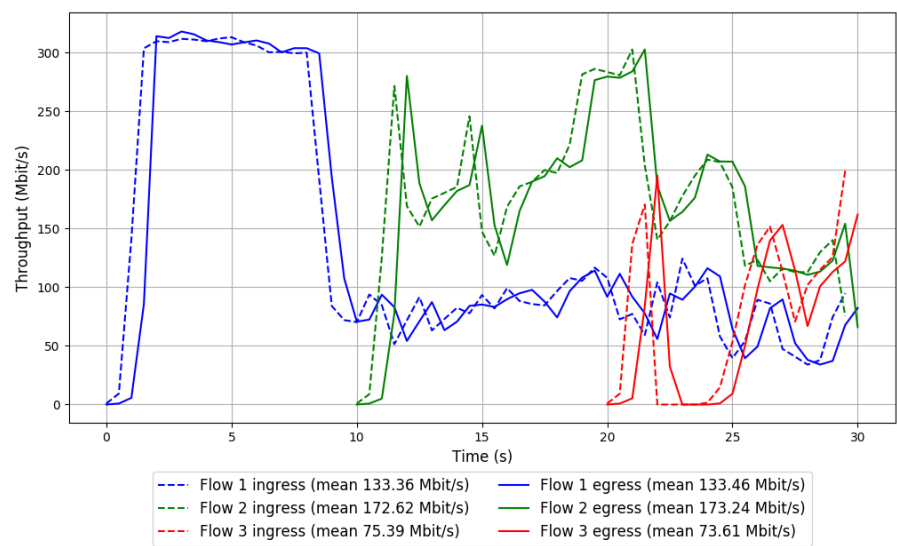
-- Flow 3:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 76.992 ms

Loss rate: 3.62%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 17:12:37

End at: 2018-05-25 17:13:07

Local clock offset: -0.021 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-05-25 19:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.28 Mbit/s

95th percentile per-packet one-way delay: 72.031 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 138.09 Mbit/s

95th percentile per-packet one-way delay: 68.424 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 162.53 Mbit/s

95th percentile per-packet one-way delay: 77.324 ms

Loss rate: 0.33%

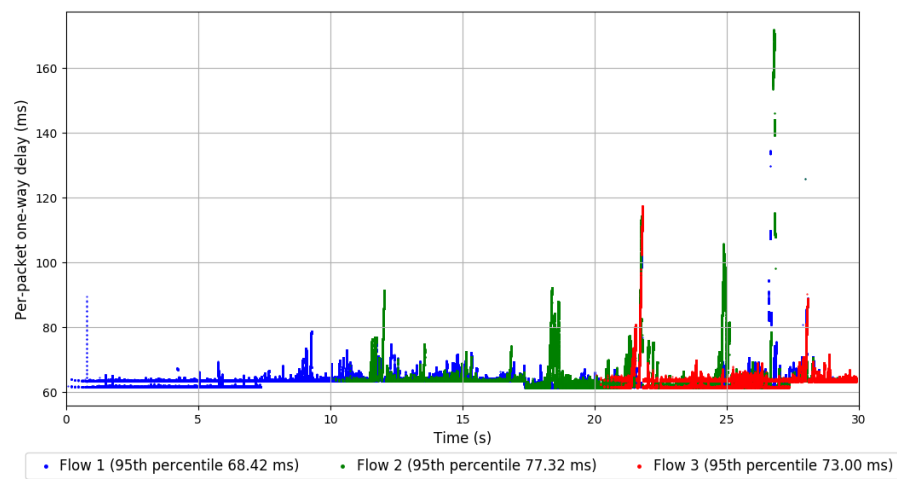
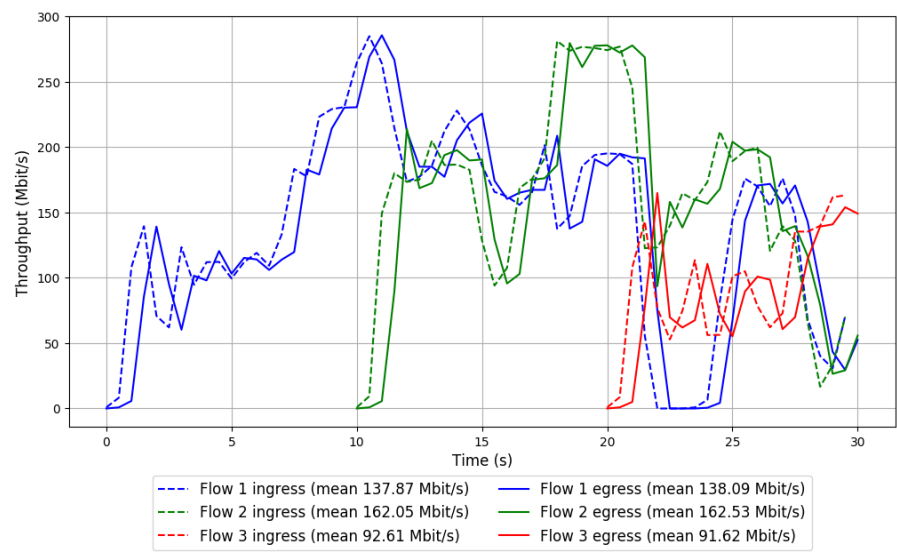
-- Flow 3:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 72.996 ms

Loss rate: 2.33%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 17:35:56

End at: 2018-05-25 17:36:26

Local clock offset: -0.057 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-05-25 19:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.32 Mbit/s

95th percentile per-packet one-way delay: 70.688 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 141.21 Mbit/s

95th percentile per-packet one-way delay: 72.531 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 85.83 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.66%

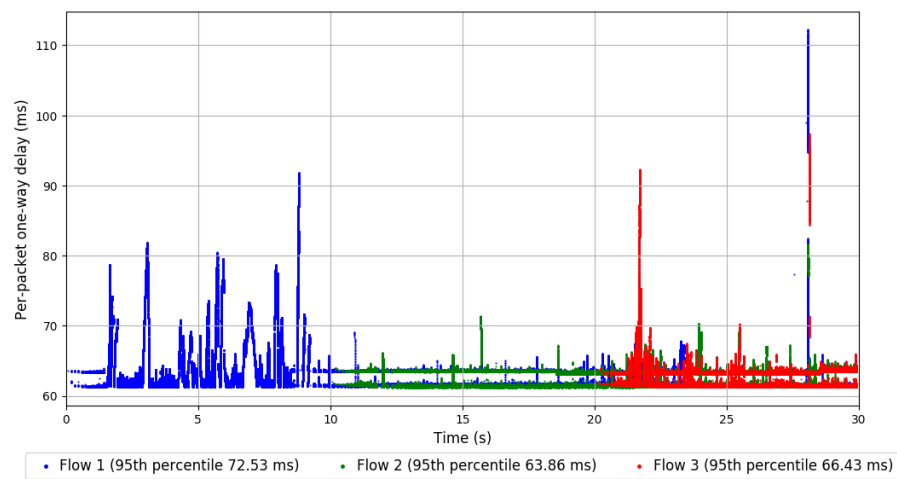
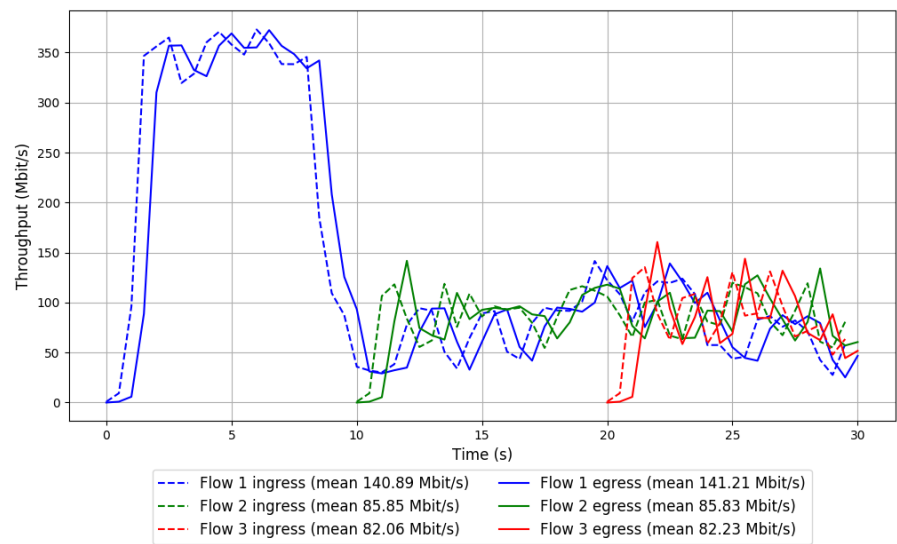
-- Flow 3:

Average throughput: 82.23 Mbit/s

95th percentile per-packet one-way delay: 66.426 ms

Loss rate: 1.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 17:59:34

End at: 2018-05-25 18:00:04

Local clock offset: -0.05 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-05-25 19:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.11 Mbit/s

95th percentile per-packet one-way delay: 69.497 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 99.37 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 110.88 Mbit/s

95th percentile per-packet one-way delay: 75.720 ms

Loss rate: 0.60%

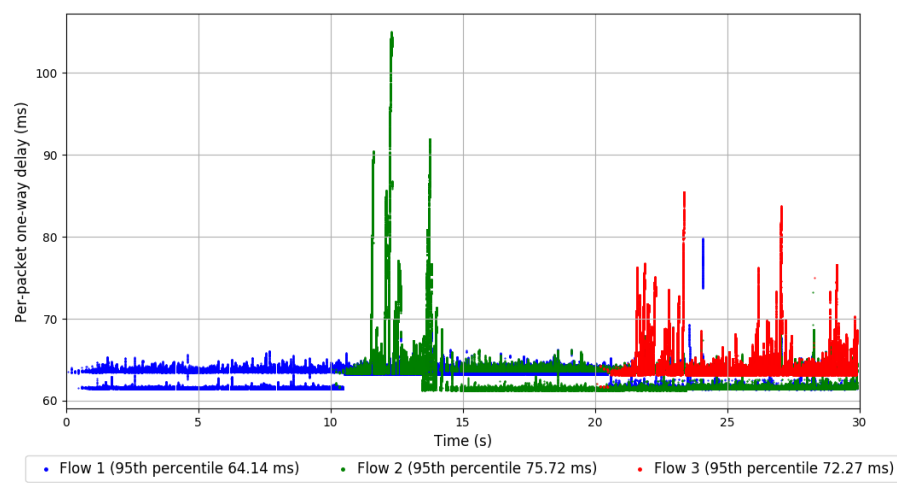
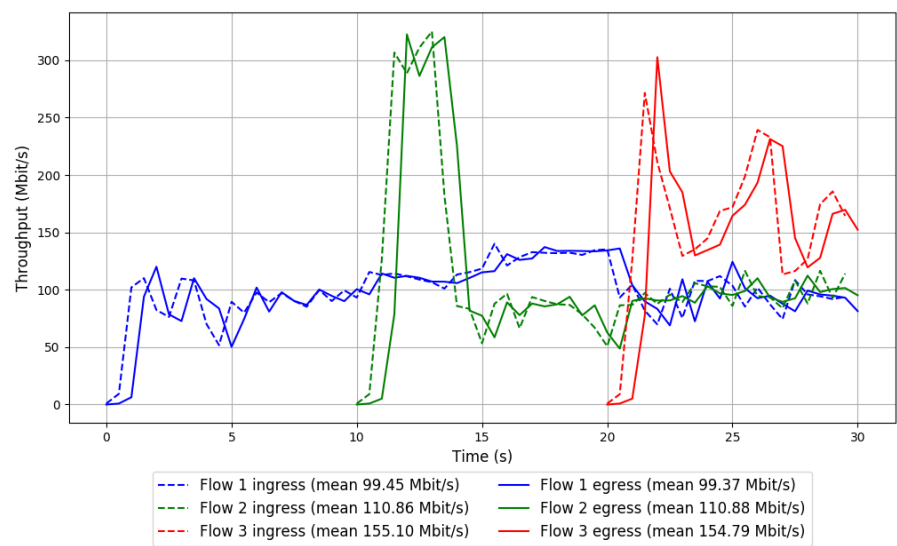
-- Flow 3:

Average throughput: 154.79 Mbit/s

95th percentile per-packet one-way delay: 72.271 ms

Loss rate: 1.46%

Run 9: Report of Copa — Data Link

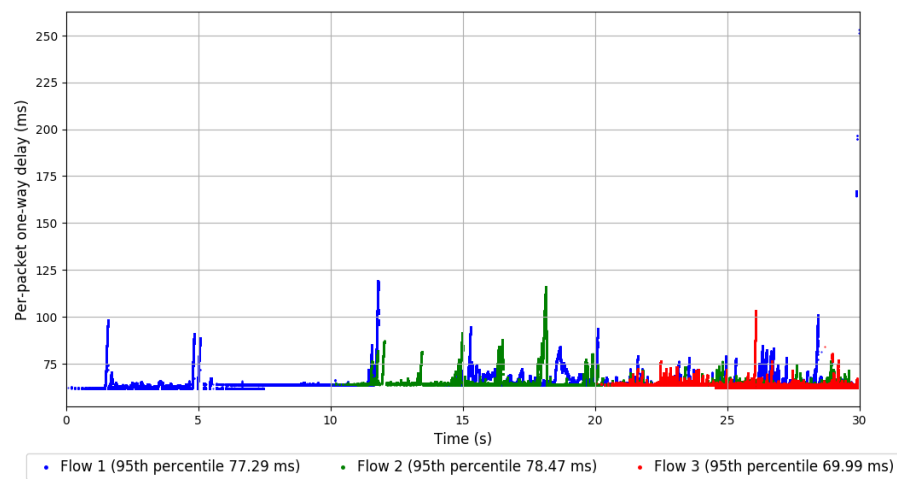
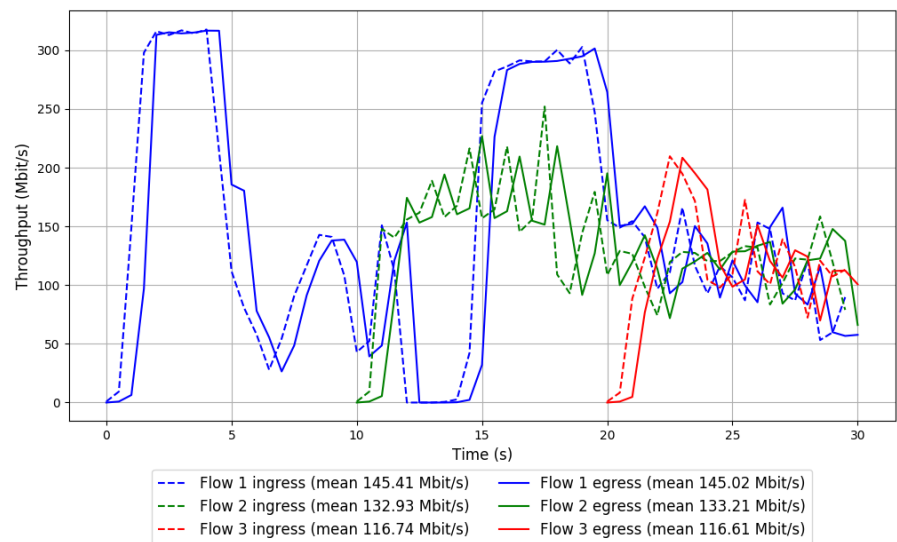


Run 10: Statistics of Copa

Start at: 2018-05-25 18:22:40
End at: 2018-05-25 18:23:10
Local clock offset: -0.05 ms
Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-05-25 19:10:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.56 Mbit/s
95th percentile per-packet one-way delay: 76.434 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 145.02 Mbit/s
95th percentile per-packet one-way delay: 77.287 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 133.21 Mbit/s
95th percentile per-packet one-way delay: 78.465 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 116.61 Mbit/s
95th percentile per-packet one-way delay: 69.993 ms
Loss rate: 1.38%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 14:50:17

End at: 2018-05-25 14:50:47

Local clock offset: 0.016 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-05-25 19:10:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.82 Mbit/s

95th percentile per-packet one-way delay: 72.772 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 182.29 Mbit/s

95th percentile per-packet one-way delay: 72.862 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 38.99 Mbit/s

95th percentile per-packet one-way delay: 72.504 ms

Loss rate: 2.96%

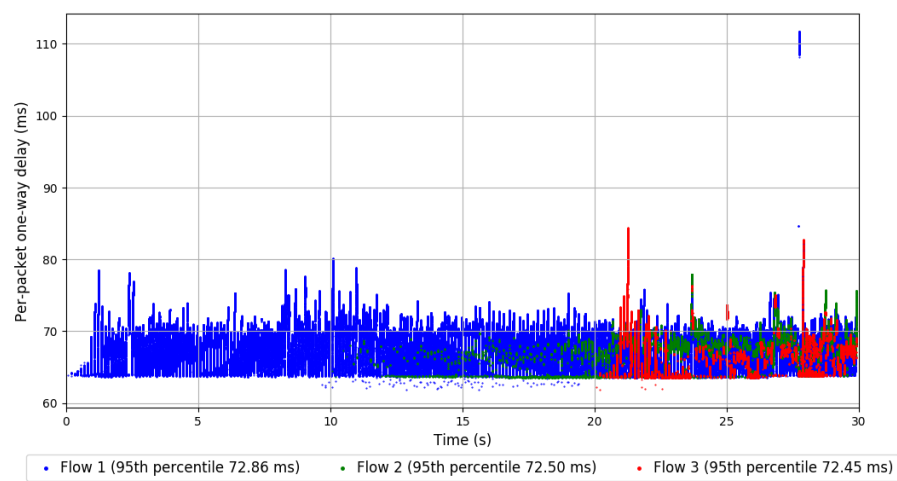
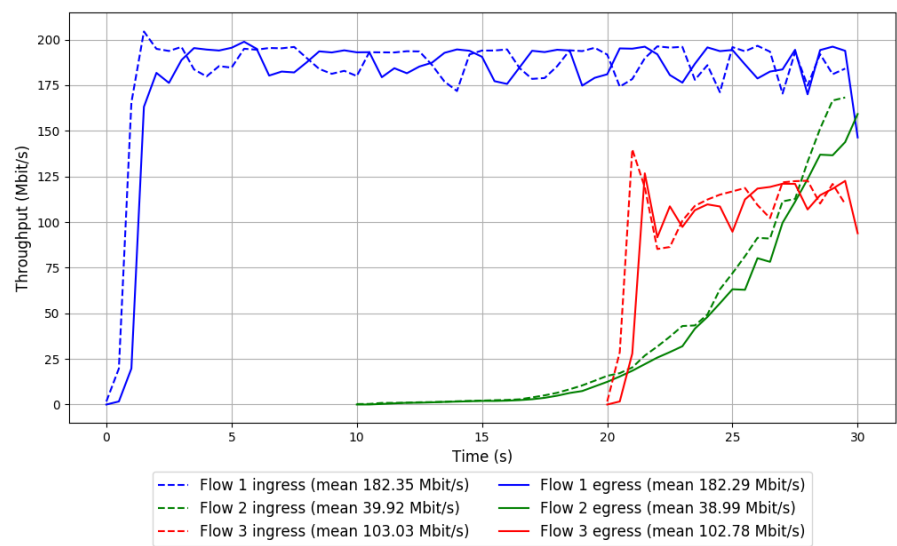
-- Flow 3:

Average throughput: 102.78 Mbit/s

95th percentile per-packet one-way delay: 72.452 ms

Loss rate: 1.51%

Run 1: Report of TCP Cubic — Data Link

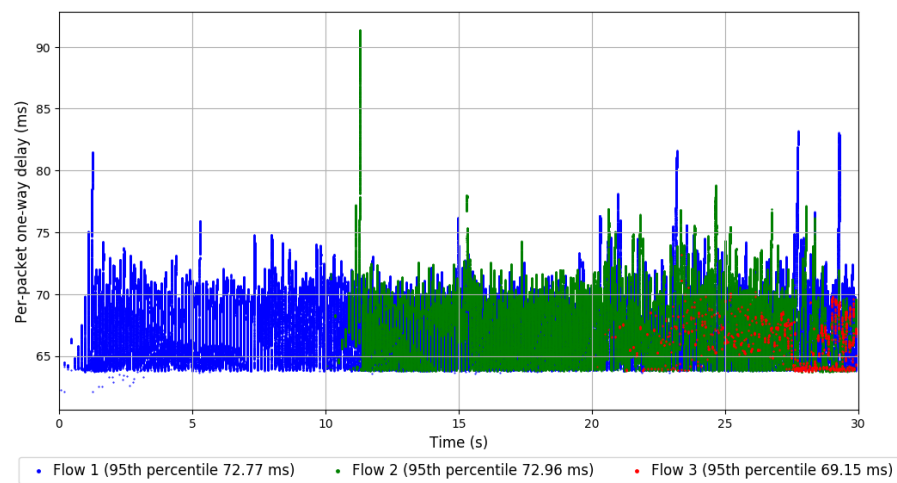
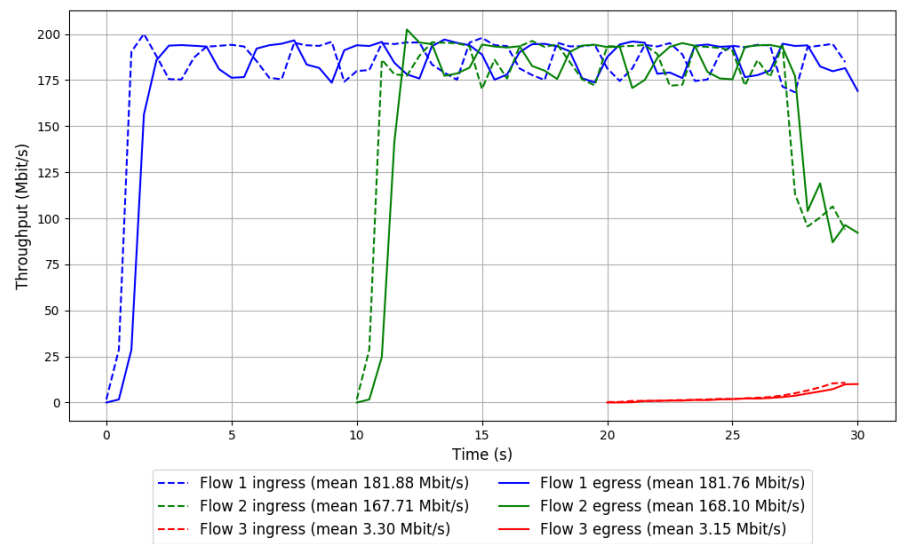


Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 15:13:34
End at: 2018-05-25 15:14:04
Local clock offset: 0.06 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-05-25 19:10:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.45 Mbit/s
95th percentile per-packet one-way delay: 72.825 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 181.76 Mbit/s
95th percentile per-packet one-way delay: 72.770 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 168.10 Mbit/s
95th percentile per-packet one-way delay: 72.956 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 69.151 ms
Loss rate: 5.56%

Run 2: Report of TCP Cubic — Data Link

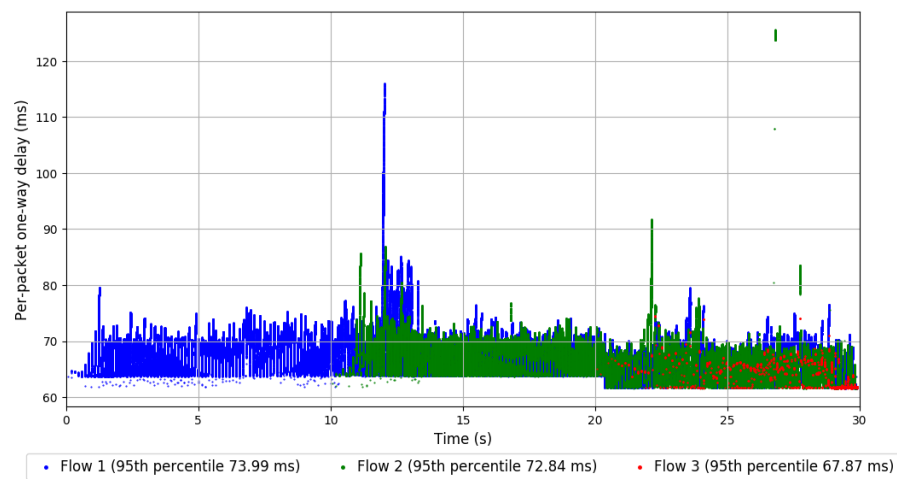
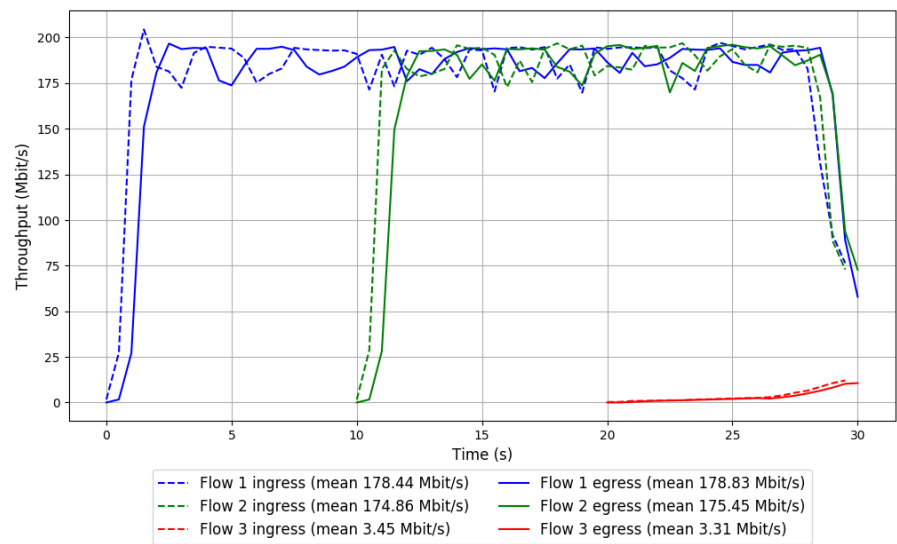


Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 15:36:54
End at: 2018-05-25 15:37:24
Local clock offset: 0.023 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-05-25 19:10:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 296.01 Mbit/s
95th percentile per-packet one-way delay: 73.610 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 178.83 Mbit/s
95th percentile per-packet one-way delay: 73.987 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 175.45 Mbit/s
95th percentile per-packet one-way delay: 72.843 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 67.871 ms
Loss rate: 5.36%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 16:00:12

End at: 2018-05-25 16:00:42

Local clock offset: 0.119 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-05-25 19:10:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.48 Mbit/s

95th percentile per-packet one-way delay: 74.522 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 126.76 Mbit/s

95th percentile per-packet one-way delay: 73.967 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 177.02 Mbit/s

95th percentile per-packet one-way delay: 75.184 ms

Loss rate: 0.74%

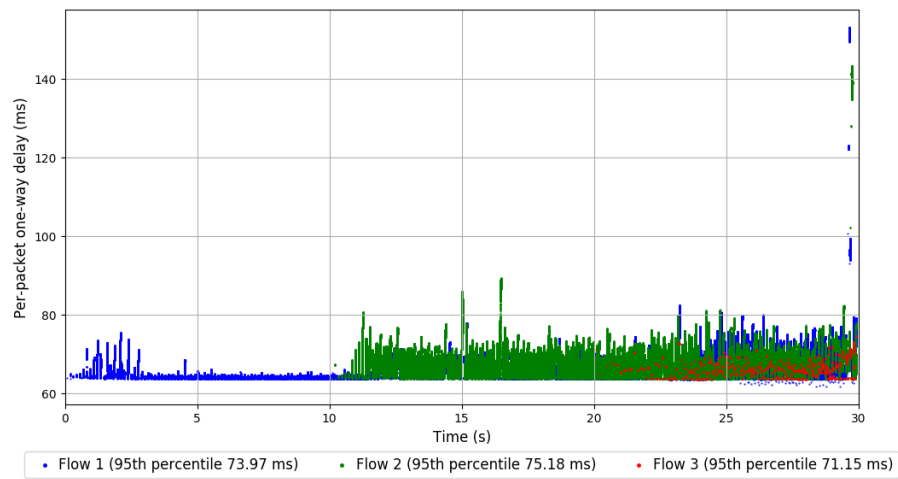
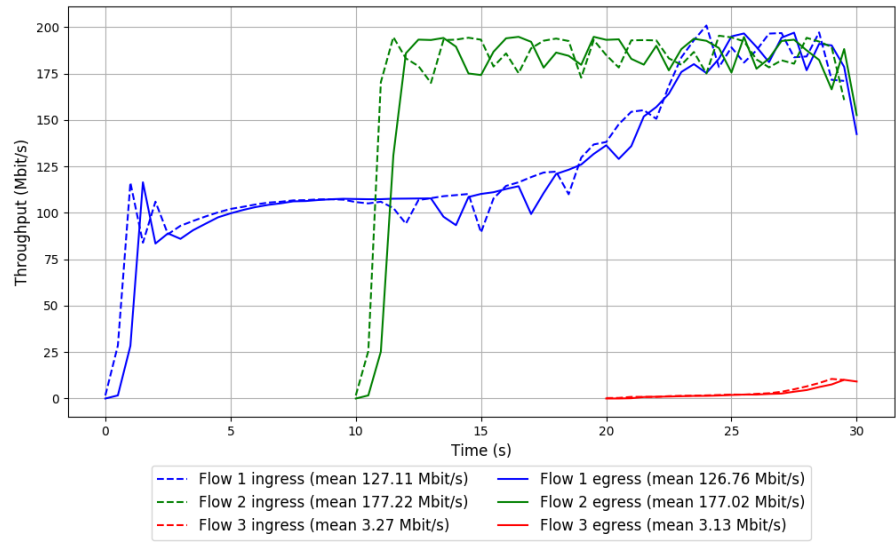
-- Flow 3:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 71.146 ms

Loss rate: 5.54%

Run 4: Report of TCP Cubic — Data Link

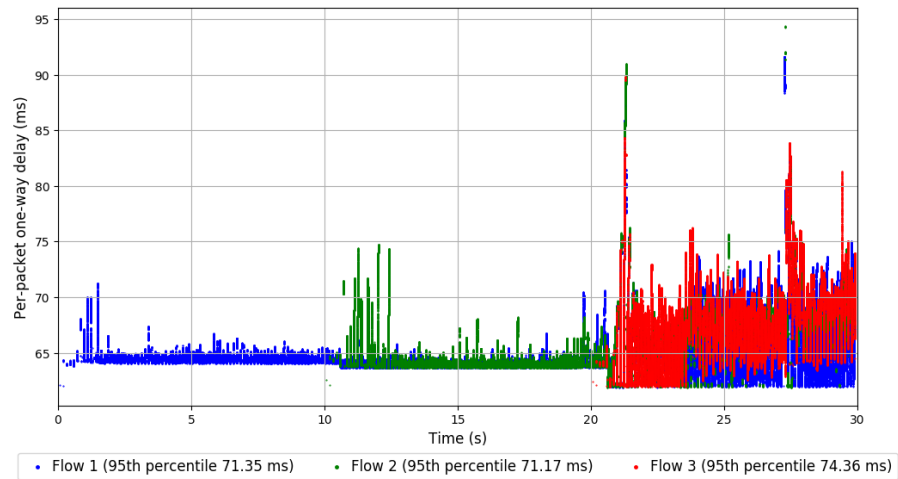
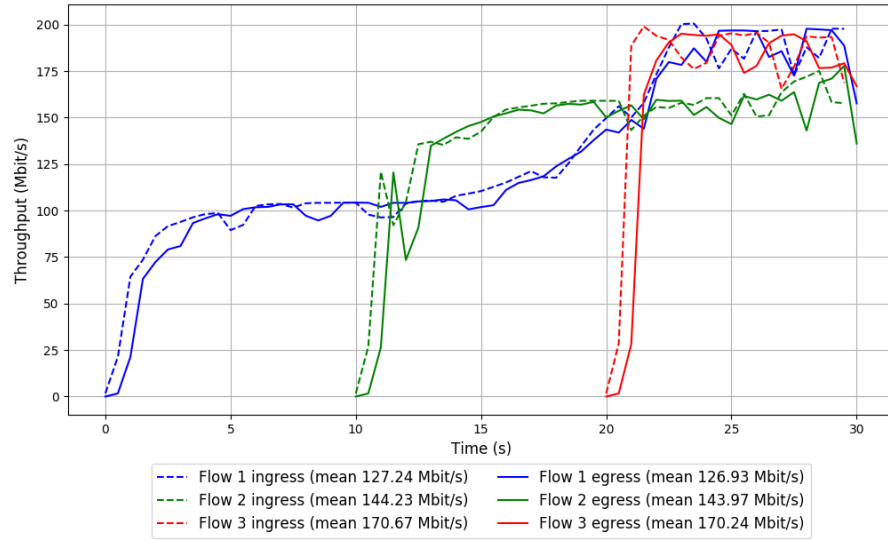


Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 16:23:43
End at: 2018-05-25 16:24:13
Local clock offset: 0.007 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-05-25 19:11:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.53 Mbit/s
95th percentile per-packet one-way delay: 72.192 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 126.93 Mbit/s
95th percentile per-packet one-way delay: 71.346 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 143.97 Mbit/s
95th percentile per-packet one-way delay: 71.175 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 170.24 Mbit/s
95th percentile per-packet one-way delay: 74.361 ms
Loss rate: 1.49%

Run 5: Report of TCP Cubic — Data Link

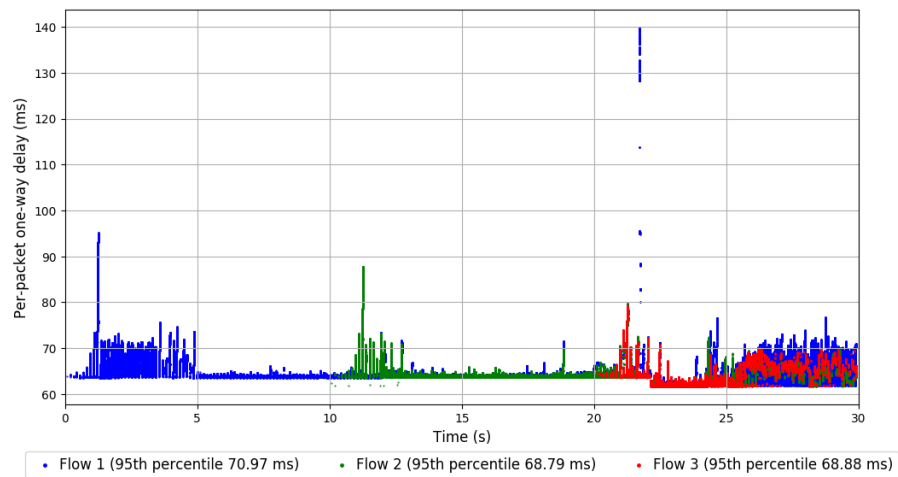
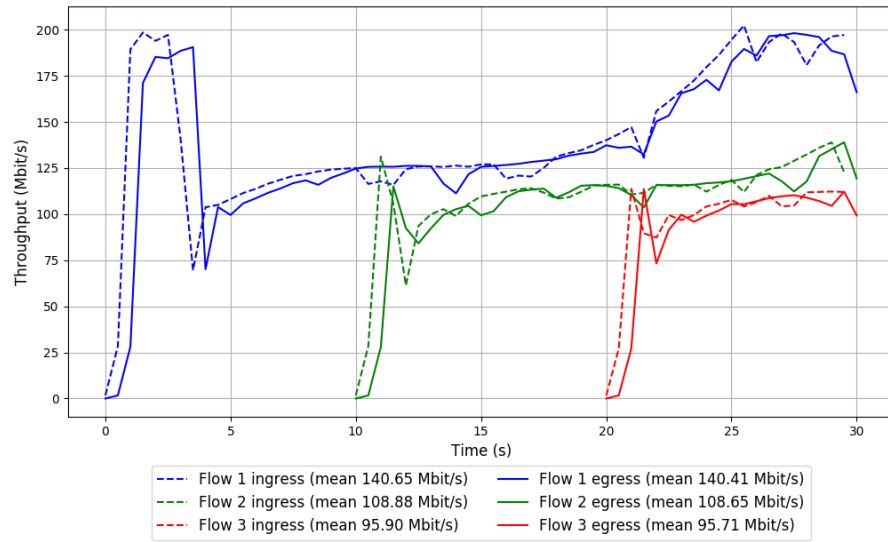


Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 16:46:52
End at: 2018-05-25 16:47:22
Local clock offset: -0.033 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-05-25 19:13:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.05 Mbit/s
95th percentile per-packet one-way delay: 70.528 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 140.41 Mbit/s
95th percentile per-packet one-way delay: 70.969 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 108.65 Mbit/s
95th percentile per-packet one-way delay: 68.789 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 68.880 ms
Loss rate: 1.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 17:10:05

End at: 2018-05-25 17:10:35

Local clock offset: -0.026 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-05-25 19:13:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.85 Mbit/s

95th percentile per-packet one-way delay: 72.950 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 72.659 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 136.47 Mbit/s

95th percentile per-packet one-way delay: 73.476 ms

Loss rate: 0.59%

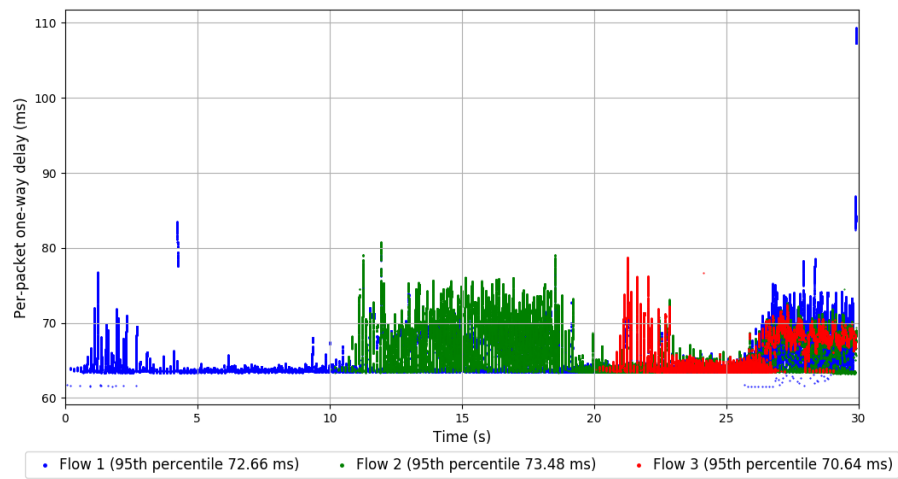
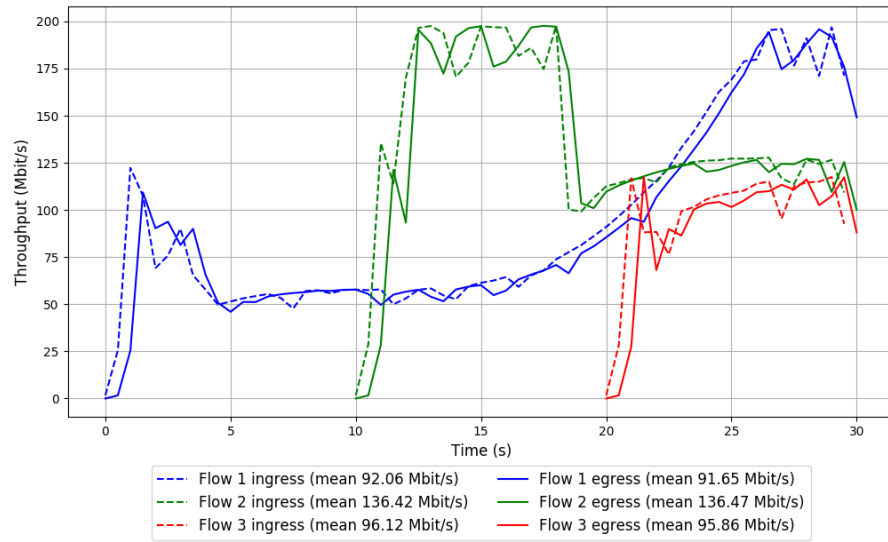
-- Flow 3:

Average throughput: 95.86 Mbit/s

95th percentile per-packet one-way delay: 70.642 ms

Loss rate: 1.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 17:33:23

End at: 2018-05-25 17:33:53

Local clock offset: -0.077 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-05-25 19:13:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.11 Mbit/s

95th percentile per-packet one-way delay: 73.393 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 129.62 Mbit/s

95th percentile per-packet one-way delay: 73.257 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 82.55 Mbit/s

95th percentile per-packet one-way delay: 71.279 ms

Loss rate: 0.73%

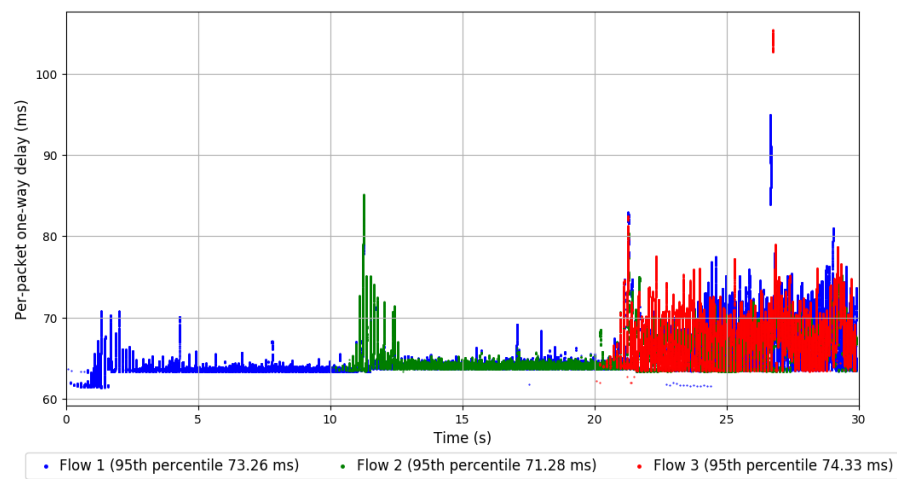
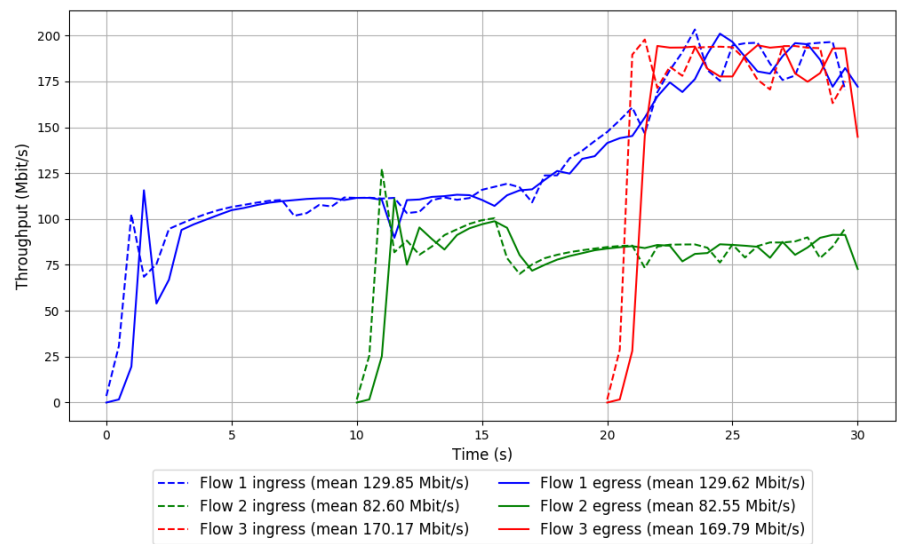
-- Flow 3:

Average throughput: 169.79 Mbit/s

95th percentile per-packet one-way delay: 74.334 ms

Loss rate: 1.45%

Run 8: Report of TCP Cubic — Data Link

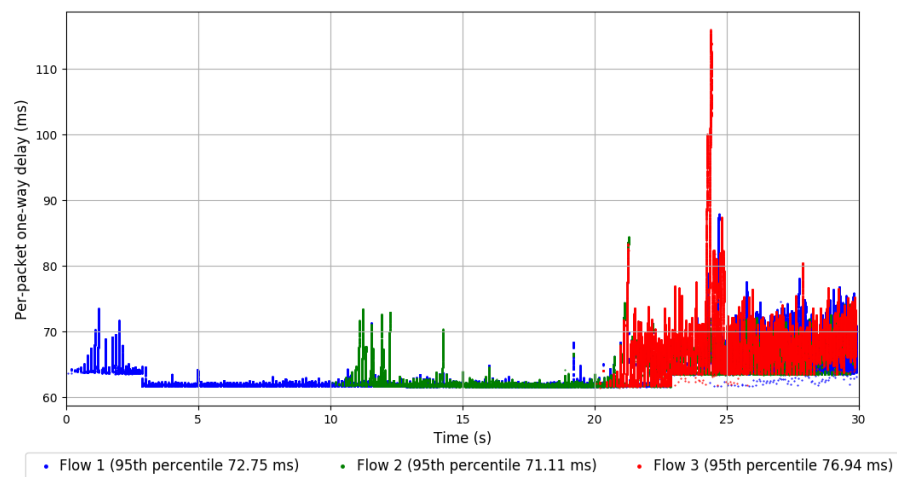
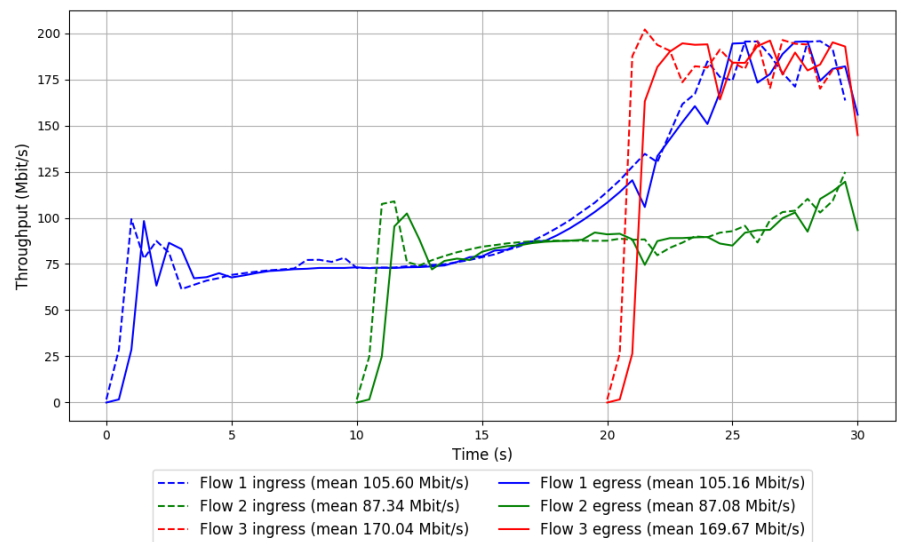


Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 17:57:01
End at: 2018-05-25 17:57:31
Local clock offset: -0.063 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-05-25 19:13:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 218.71 Mbit/s
95th percentile per-packet one-way delay: 73.313 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 105.16 Mbit/s
95th percentile per-packet one-way delay: 72.750 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 71.105 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 169.67 Mbit/s
95th percentile per-packet one-way delay: 76.935 ms
Loss rate: 1.42%

Run 9: Report of TCP Cubic — Data Link

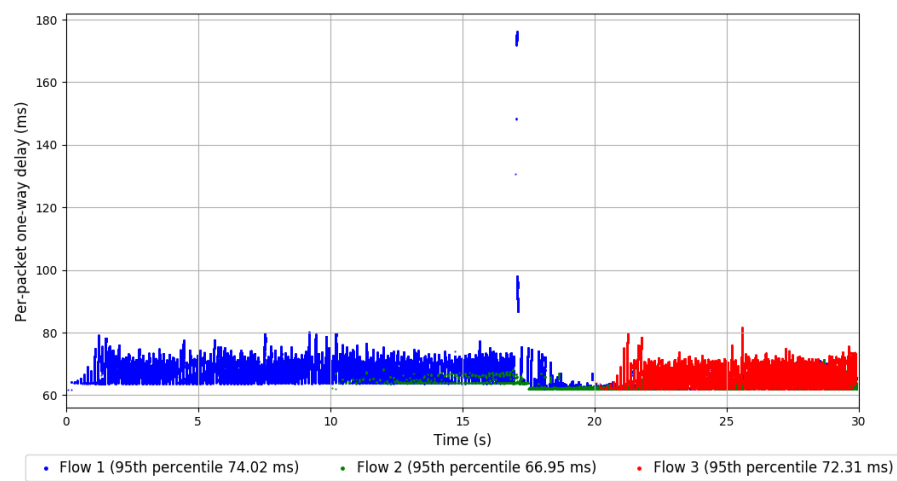
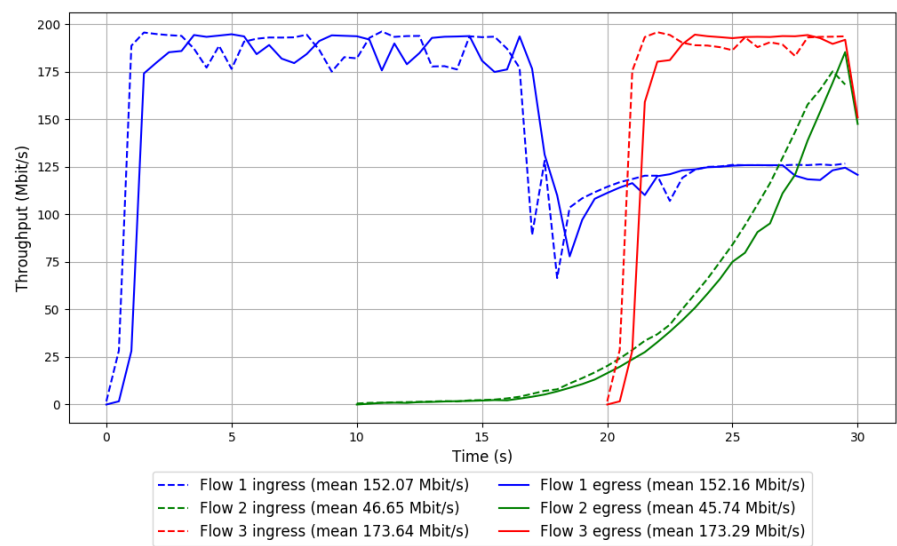


Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 18:20:07
End at: 2018-05-25 18:20:37
Local clock offset: -0.06 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-05-25 19:14:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 239.46 Mbit/s
95th percentile per-packet one-way delay: 73.414 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 152.16 Mbit/s
95th percentile per-packet one-way delay: 74.018 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 66.955 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 173.29 Mbit/s
95th percentile per-packet one-way delay: 72.306 ms
Loss rate: 1.40%

Run 10: Report of TCP Cubic — Data Link

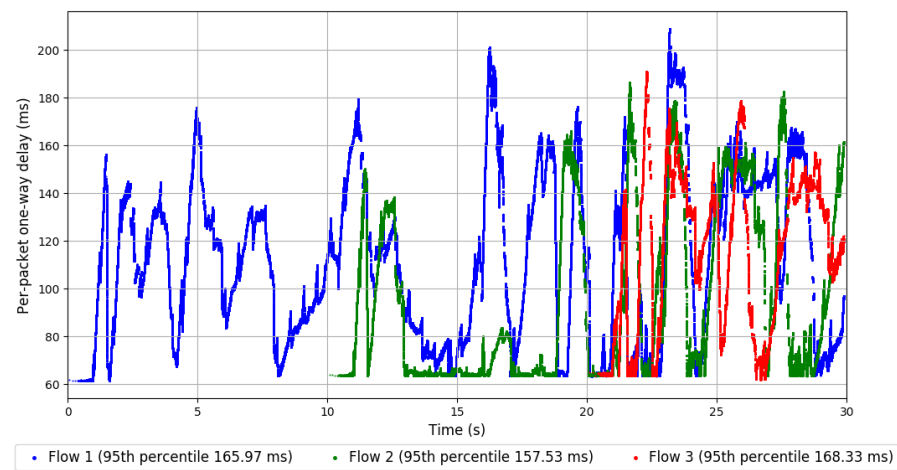
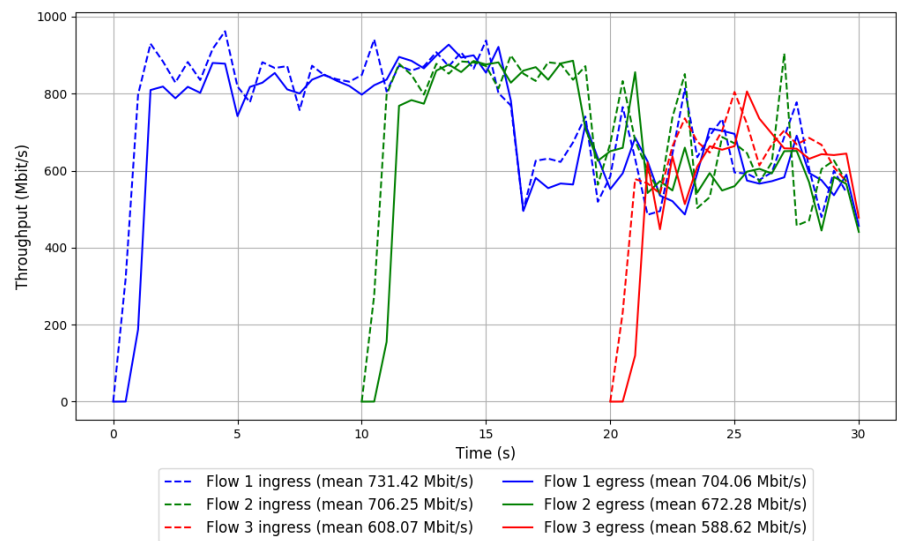


Run 1: Statistics of FillP

Start at: 2018-05-25 14:35:28
End at: 2018-05-25 14:35:58
Local clock offset: 0.015 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-05-25 19:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 1343.65 Mbit/s
95th percentile per-packet one-way delay: 163.957 ms
Loss rate: 4.61%
-- Flow 1:
Average throughput: 704.06 Mbit/s
95th percentile per-packet one-way delay: 165.974 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 672.28 Mbit/s
95th percentile per-packet one-way delay: 157.529 ms
Loss rate: 5.42%
-- Flow 3:
Average throughput: 588.62 Mbit/s
95th percentile per-packet one-way delay: 168.333 ms
Loss rate: 4.44%

Run 1: Report of FillP — Data Link

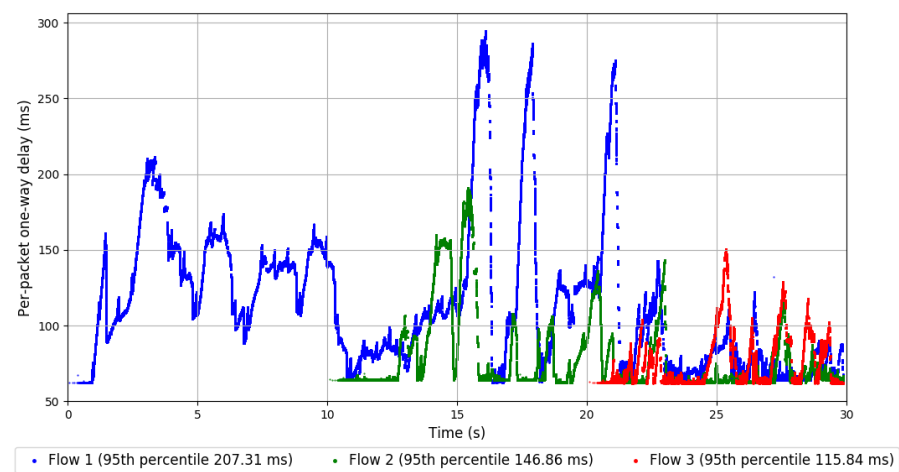
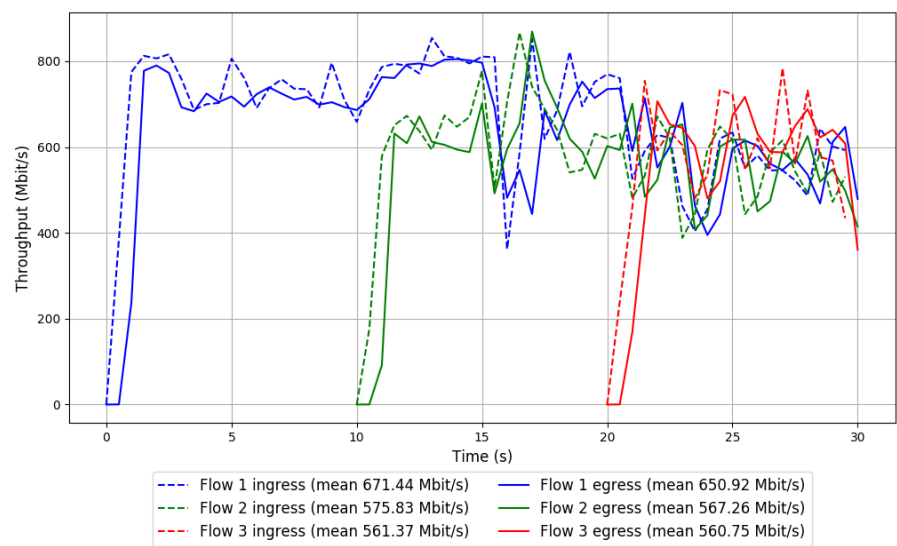


Run 2: Statistics of FillP

Start at: 2018-05-25 14:58:46
End at: 2018-05-25 14:59:16
Local clock offset: 0.012 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-05-25 19:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 1211.82 Mbit/s
95th percentile per-packet one-way delay: 177.648 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 650.92 Mbit/s
95th percentile per-packet one-way delay: 207.313 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 567.26 Mbit/s
95th percentile per-packet one-way delay: 146.861 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 560.75 Mbit/s
95th percentile per-packet one-way delay: 115.838 ms
Loss rate: 1.37%

Run 2: Report of FillP — Data Link

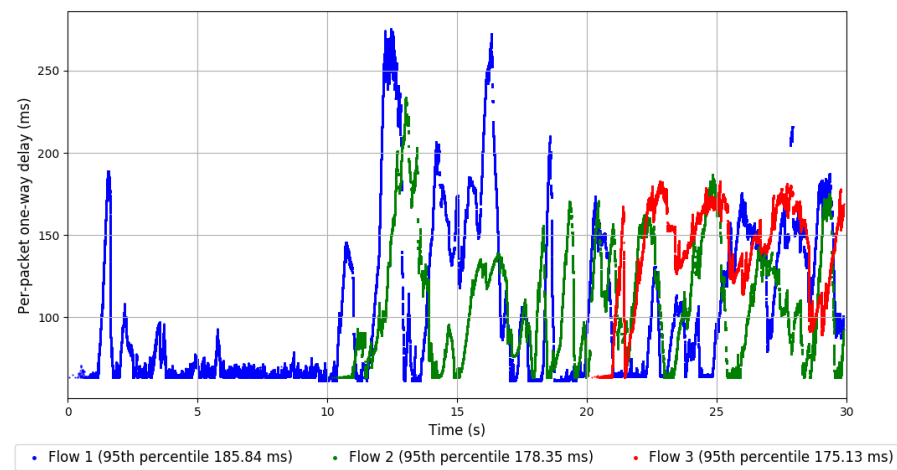
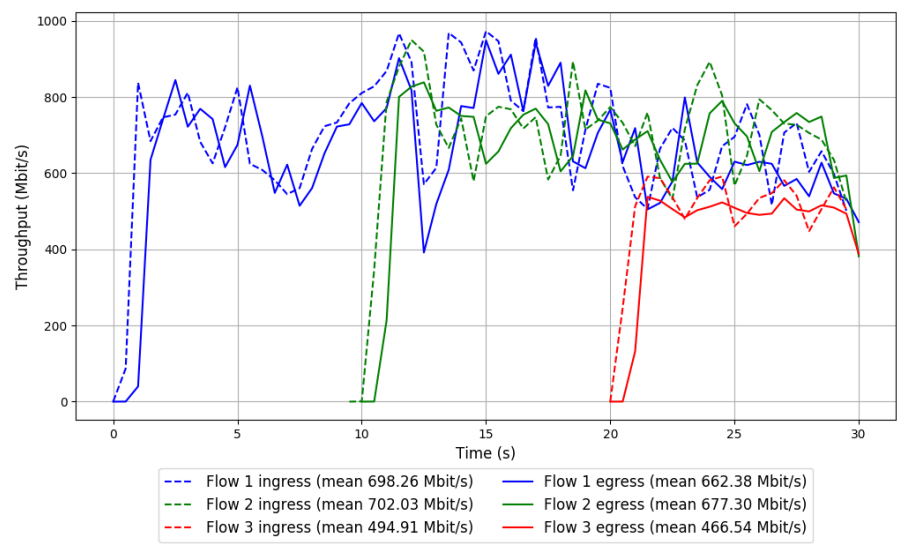


Run 3: Statistics of FillP

Start at: 2018-05-25 15:22:04
End at: 2018-05-25 15:22:34
Local clock offset: 0.073 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-25 19:45:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 1266.16 Mbit/s
95th percentile per-packet one-way delay: 180.103 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 662.38 Mbit/s
95th percentile per-packet one-way delay: 185.838 ms
Loss rate: 5.54%
-- Flow 2:
Average throughput: 677.30 Mbit/s
95th percentile per-packet one-way delay: 178.353 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 466.54 Mbit/s
95th percentile per-packet one-way delay: 175.129 ms
Loss rate: 6.94%

Run 3: Report of FillP — Data Link

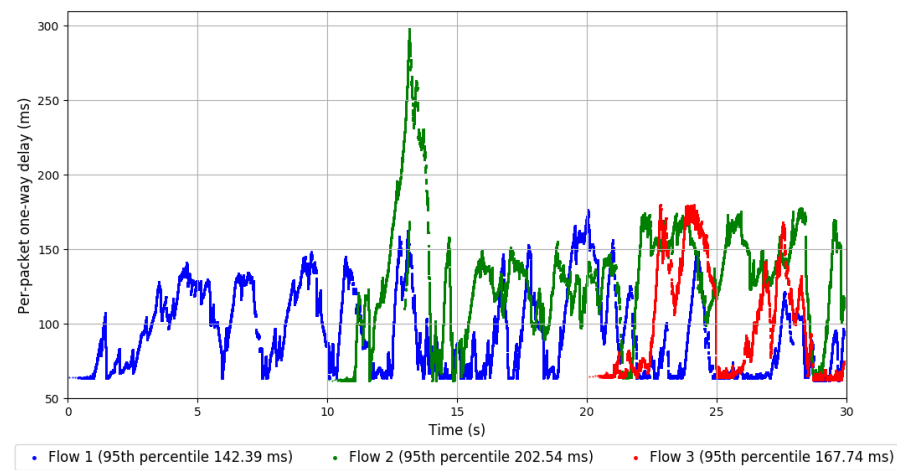
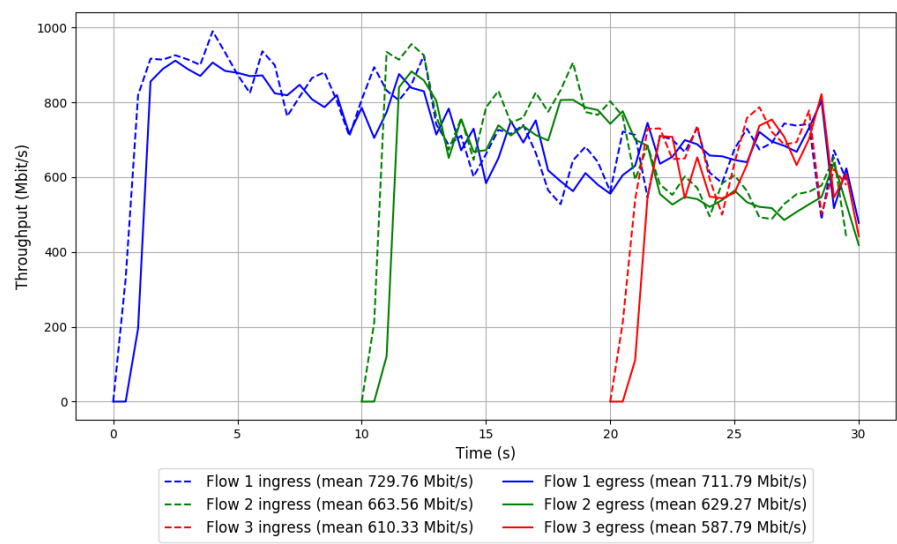


Run 4: Statistics of FillP

Start at: 2018-05-25 15:45:25
End at: 2018-05-25 15:45:55
Local clock offset: 0.078 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-05-25 19:47:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 1322.70 Mbit/s
95th percentile per-packet one-way delay: 166.467 ms
Loss rate: 4.10%
-- Flow 1:
Average throughput: 711.79 Mbit/s
95th percentile per-packet one-way delay: 142.393 ms
Loss rate: 2.87%
-- Flow 2:
Average throughput: 629.27 Mbit/s
95th percentile per-packet one-way delay: 202.542 ms
Loss rate: 5.76%
-- Flow 3:
Average throughput: 587.79 Mbit/s
95th percentile per-packet one-way delay: 167.740 ms
Loss rate: 4.93%

Run 4: Report of FillP — Data Link

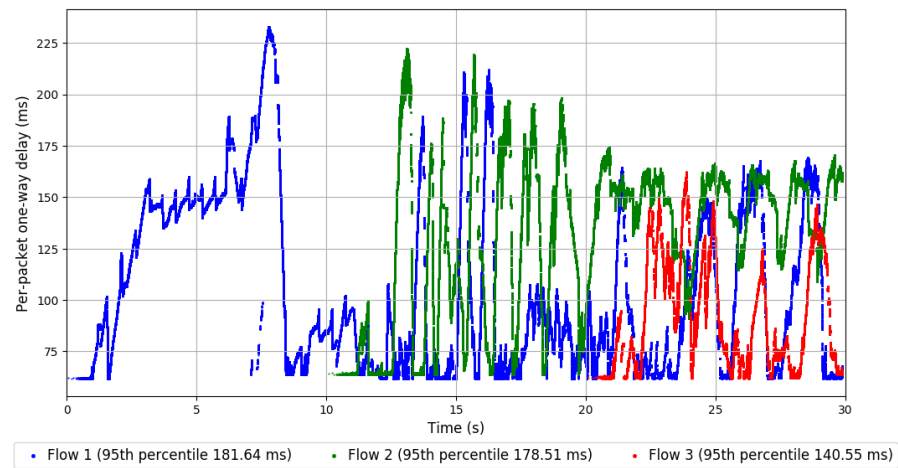
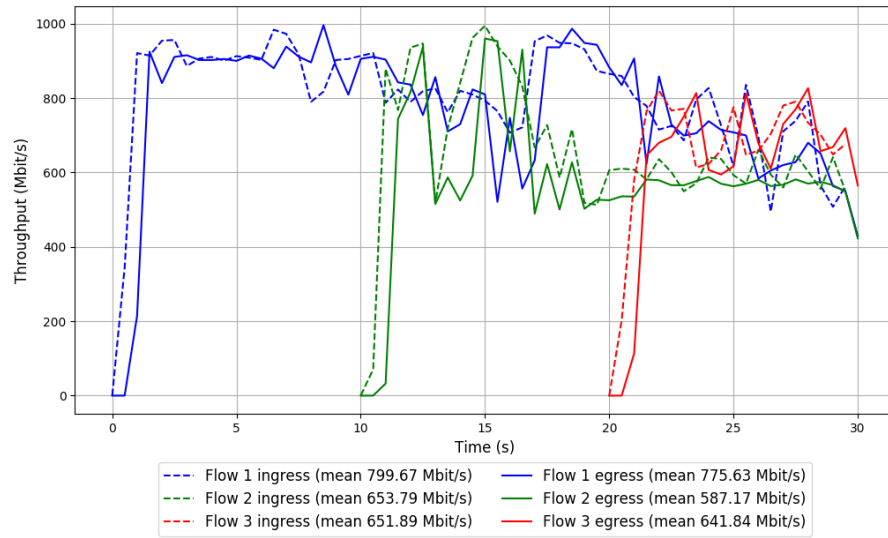


Run 5: Statistics of FillP

Start at: 2018-05-25 16:08:45
End at: 2018-05-25 16:09:15
Local clock offset: 0.091 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-05-25 19:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 1375.95 Mbit/s
95th percentile per-packet one-way delay: 176.356 ms
Loss rate: 5.53%
-- Flow 1:
Average throughput: 775.63 Mbit/s
95th percentile per-packet one-way delay: 181.639 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 587.17 Mbit/s
95th percentile per-packet one-way delay: 178.511 ms
Loss rate: 10.76%
-- Flow 3:
Average throughput: 641.84 Mbit/s
95th percentile per-packet one-way delay: 140.546 ms
Loss rate: 2.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 16:32:07

End at: 2018-05-25 16:32:37

Local clock offset: -0.055 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-05-25 19:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 1335.13 Mbit/s

95th percentile per-packet one-way delay: 175.937 ms

Loss rate: 4.96%

-- Flow 1:

Average throughput: 736.53 Mbit/s

95th percentile per-packet one-way delay: 176.292 ms

Loss rate: 2.48%

-- Flow 2:

Average throughput: 606.86 Mbit/s

95th percentile per-packet one-way delay: 176.157 ms

Loss rate: 8.60%

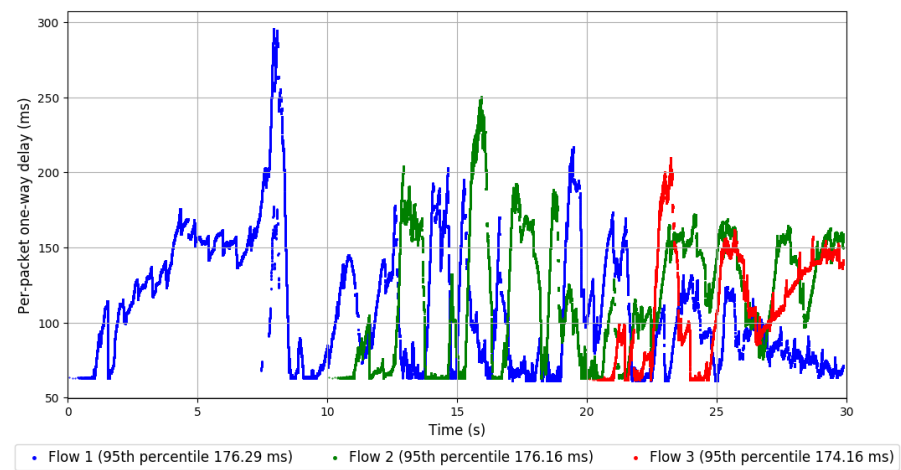
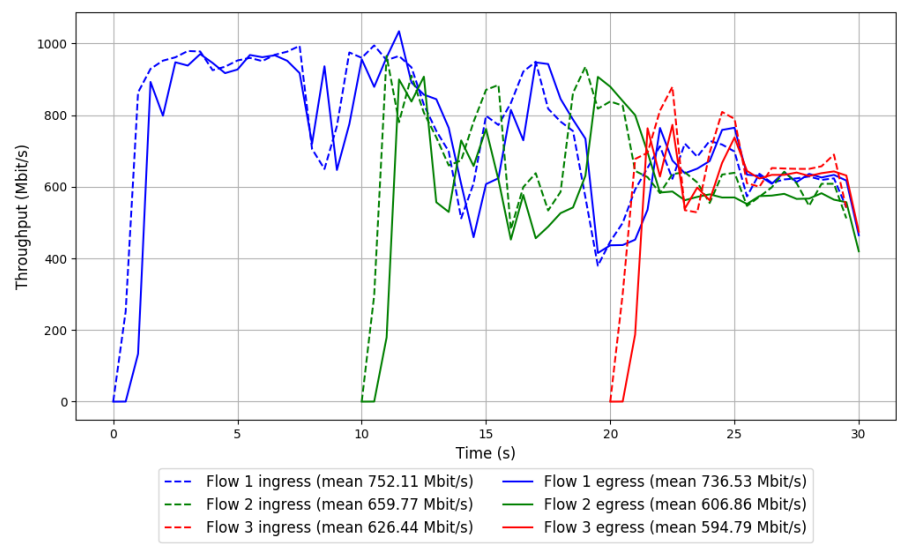
-- Flow 3:

Average throughput: 594.79 Mbit/s

95th percentile per-packet one-way delay: 174.156 ms

Loss rate: 6.25%

Run 6: Report of FillP — Data Link

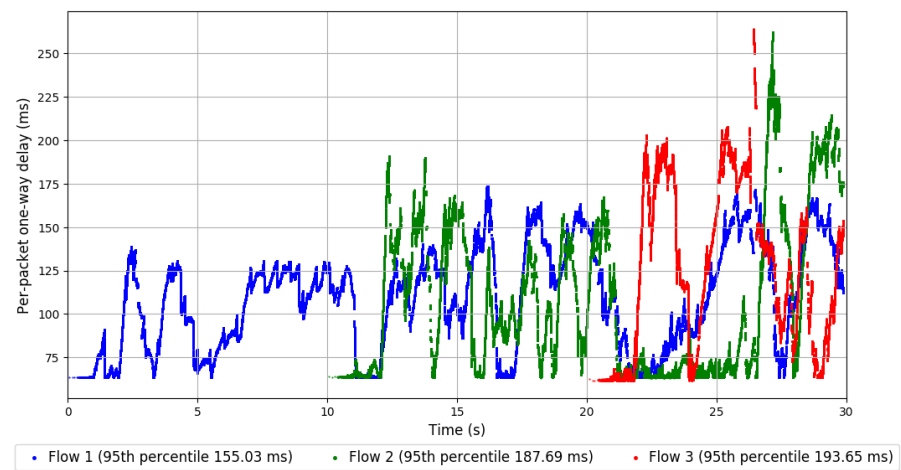
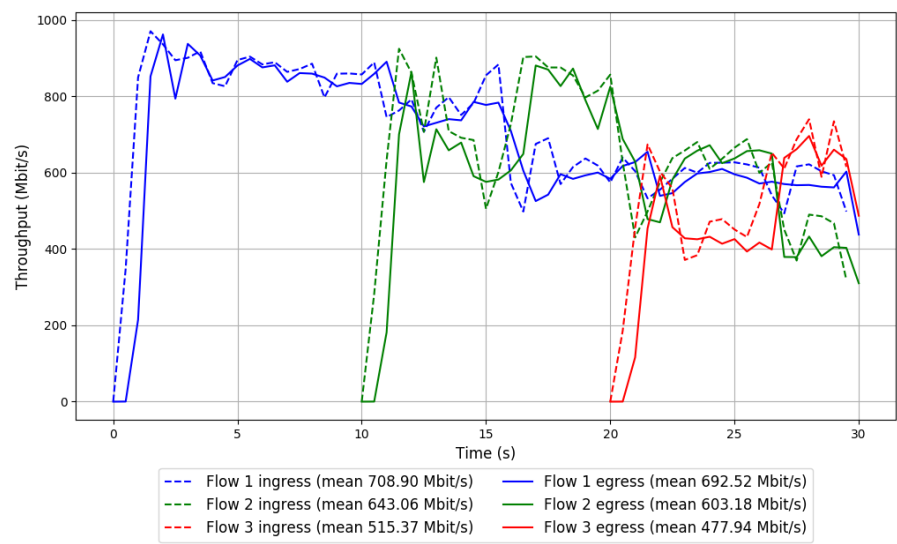


Run 7: Statistics of FillP

Start at: 2018-05-25 16:55:28
End at: 2018-05-25 16:55:58
Local clock offset: -0.044 ms
Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-05-25 19:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 1249.98 Mbit/s
95th percentile per-packet one-way delay: 171.284 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 692.52 Mbit/s
95th percentile per-packet one-way delay: 155.034 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 603.18 Mbit/s
95th percentile per-packet one-way delay: 187.689 ms
Loss rate: 6.79%
-- Flow 3:
Average throughput: 477.94 Mbit/s
95th percentile per-packet one-way delay: 193.648 ms
Loss rate: 8.43%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-25 17:18:38

End at: 2018-05-25 17:19:08

Local clock offset: -0.028 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-05-25 19:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 1273.49 Mbit/s

95th percentile per-packet one-way delay: 161.144 ms

Loss rate: 6.30%

-- Flow 1:

Average throughput: 700.62 Mbit/s

95th percentile per-packet one-way delay: 148.366 ms

Loss rate: 5.64%

-- Flow 2:

Average throughput: 577.50 Mbit/s

95th percentile per-packet one-way delay: 180.756 ms

Loss rate: 8.14%

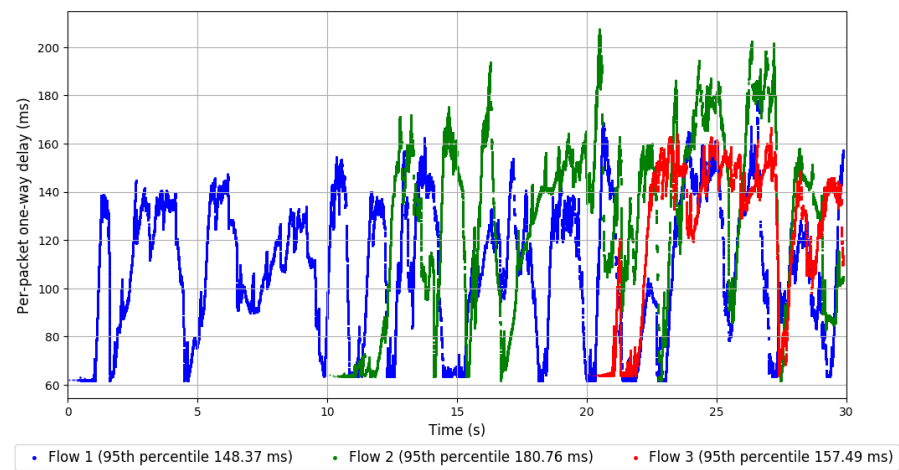
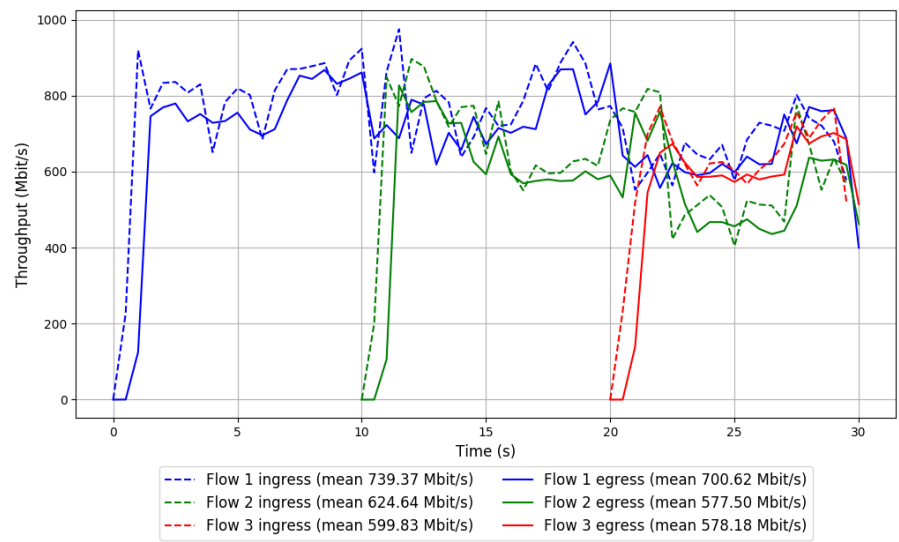
-- Flow 3:

Average throughput: 578.18 Mbit/s

95th percentile per-packet one-way delay: 157.494 ms

Loss rate: 4.86%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 17:41:50

End at: 2018-05-25 17:42:20

Local clock offset: -0.082 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-05-25 20:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 1291.91 Mbit/s

95th percentile per-packet one-way delay: 161.949 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 713.19 Mbit/s

95th percentile per-packet one-way delay: 149.851 ms

Loss rate: 5.65%

-- Flow 2:

Average throughput: 608.58 Mbit/s

95th percentile per-packet one-way delay: 157.359 ms

Loss rate: 4.76%

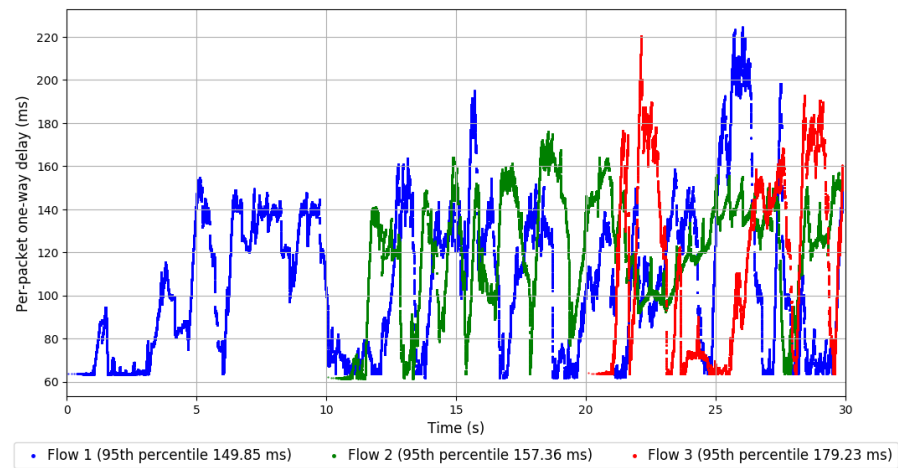
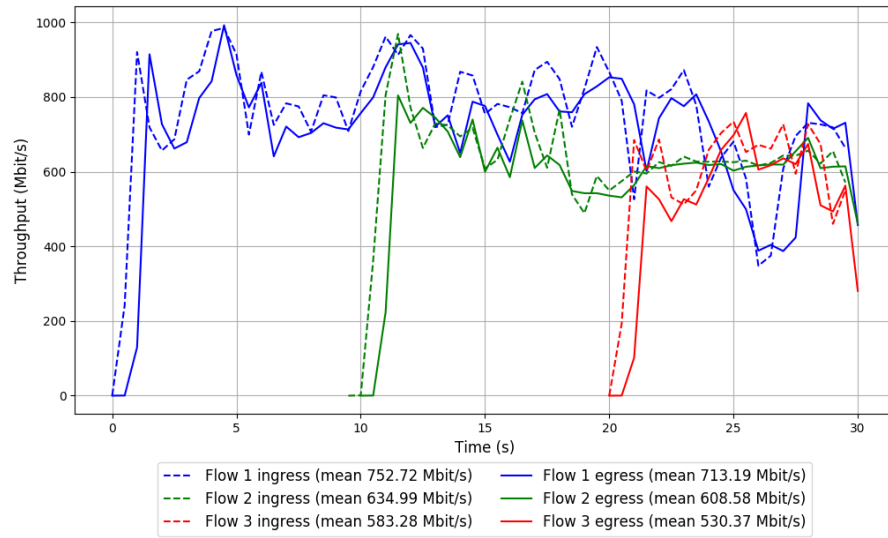
-- Flow 3:

Average throughput: 530.37 Mbit/s

95th percentile per-packet one-way delay: 179.231 ms

Loss rate: 10.24%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-25 18:05:30

End at: 2018-05-25 18:06:00

Local clock offset: -0.054 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 1237.45 Mbit/s

95th percentile per-packet one-way delay: 206.119 ms

Loss rate: 7.08%

-- Flow 1:

Average throughput: 663.48 Mbit/s

95th percentile per-packet one-way delay: 214.327 ms

Loss rate: 7.21%

-- Flow 2:

Average throughput: 632.76 Mbit/s

95th percentile per-packet one-way delay: 166.096 ms

Loss rate: 6.01%

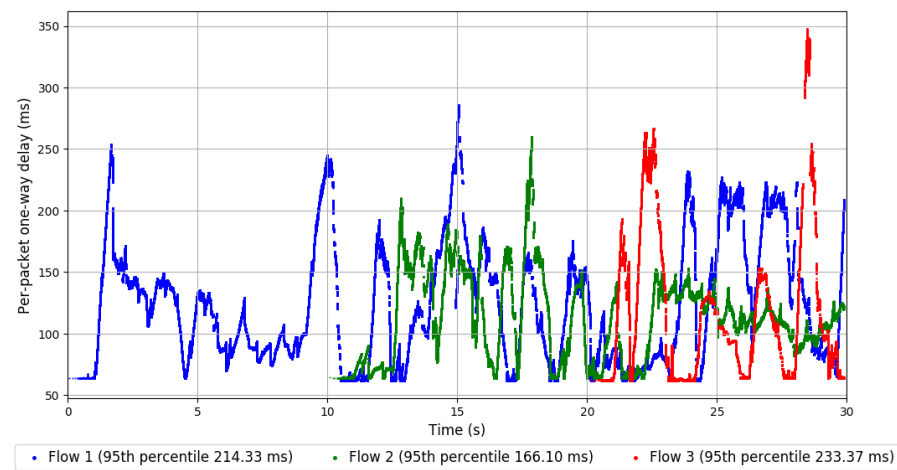
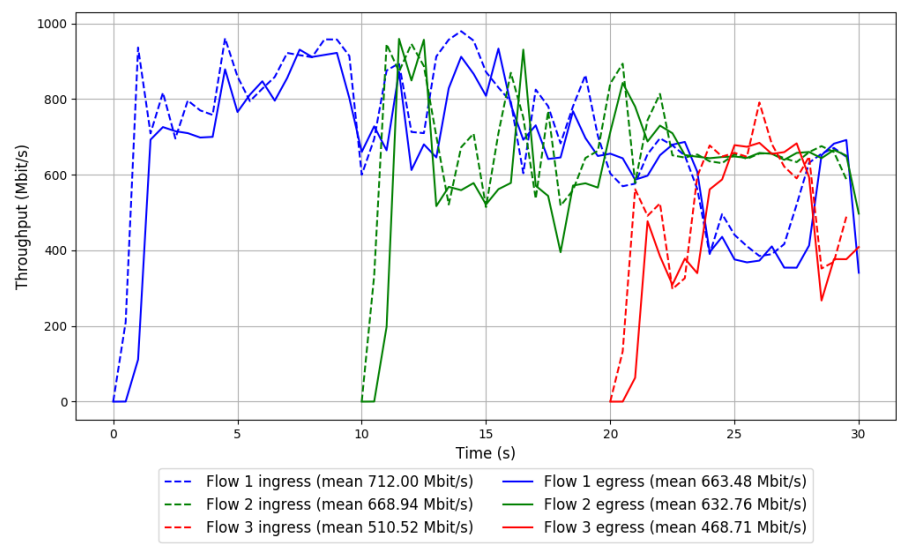
-- Flow 3:

Average throughput: 468.71 Mbit/s

95th percentile per-packet one-way delay: 233.365 ms

Loss rate: 9.35%

Run 10: Report of FillP — Data Link

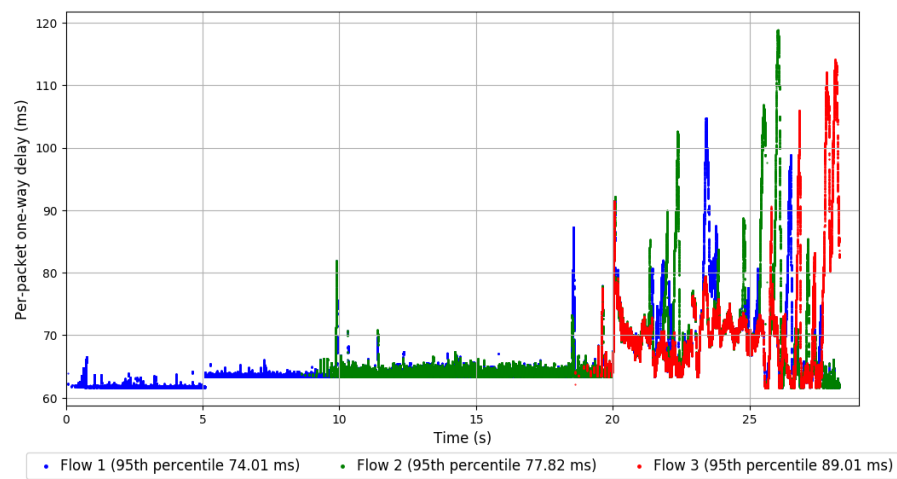
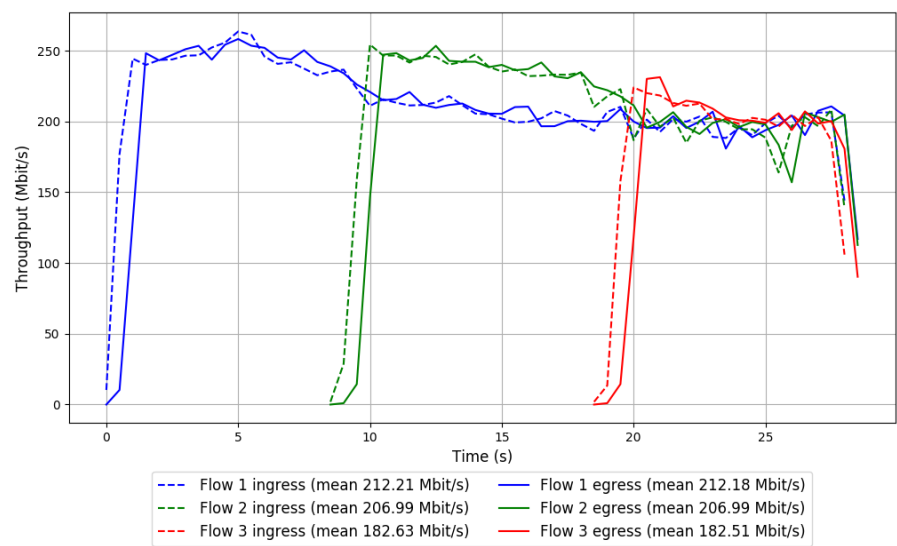


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 14:39:17
End at: 2018-05-25 14:39:47
Local clock offset: 0.006 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-25 20:18:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.87 Mbit/s
95th percentile per-packet one-way delay: 77.171 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 212.18 Mbit/s
95th percentile per-packet one-way delay: 74.008 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 206.99 Mbit/s
95th percentile per-packet one-way delay: 77.817 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 182.51 Mbit/s
95th percentile per-packet one-way delay: 89.013 ms
Loss rate: 1.35%
```


Run 1: Report of Indigo — Data Link

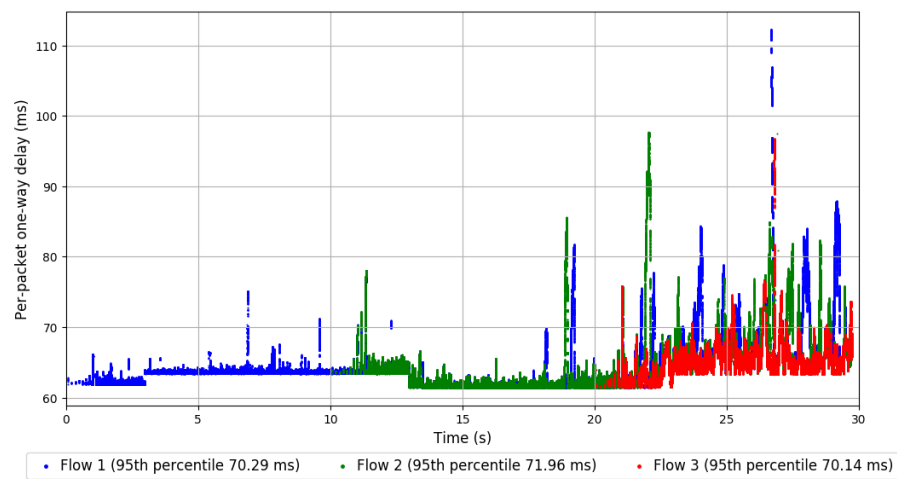
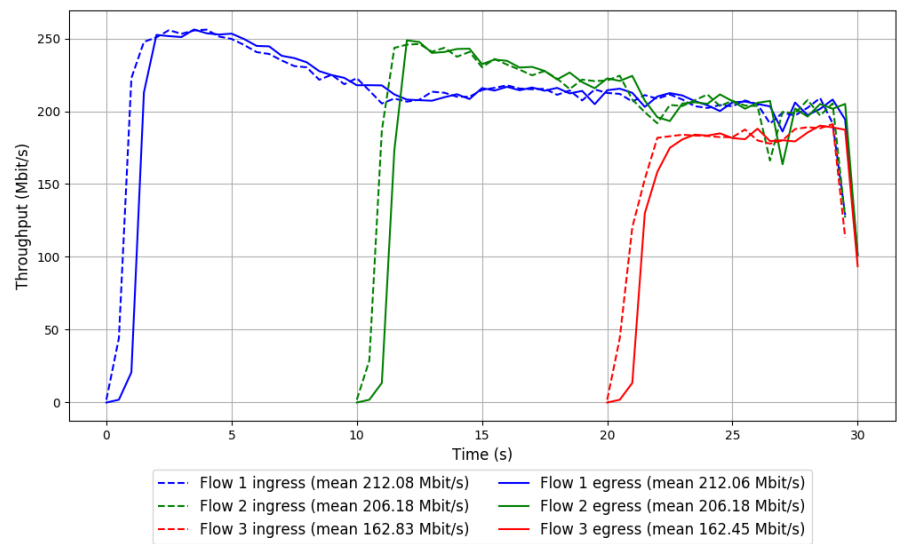


Run 2: Statistics of Indigo

Start at: 2018-05-25 15:02:31
End at: 2018-05-25 15:03:01
Local clock offset: -0.012 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.70 Mbit/s
95th percentile per-packet one-way delay: 70.792 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 212.06 Mbit/s
95th percentile per-packet one-way delay: 70.291 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 206.18 Mbit/s
95th percentile per-packet one-way delay: 71.956 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 162.45 Mbit/s
95th percentile per-packet one-way delay: 70.142 ms
Loss rate: 1.50%

Run 2: Report of Indigo — Data Link

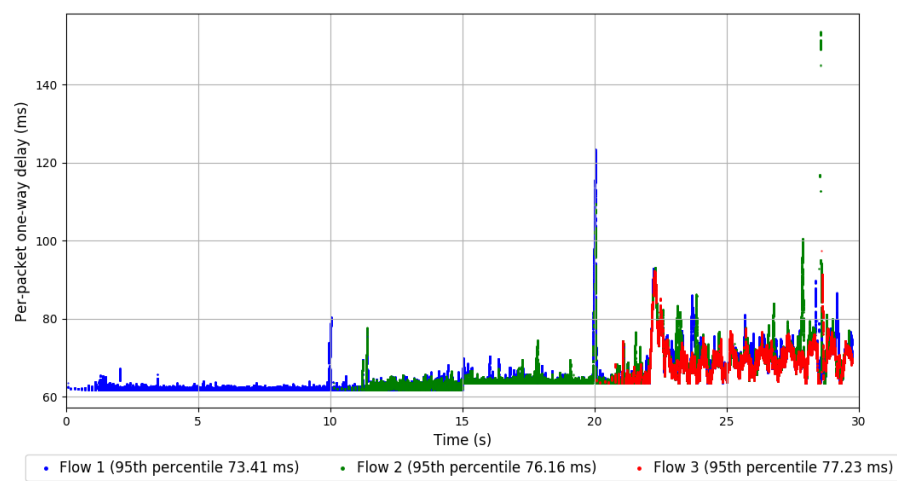
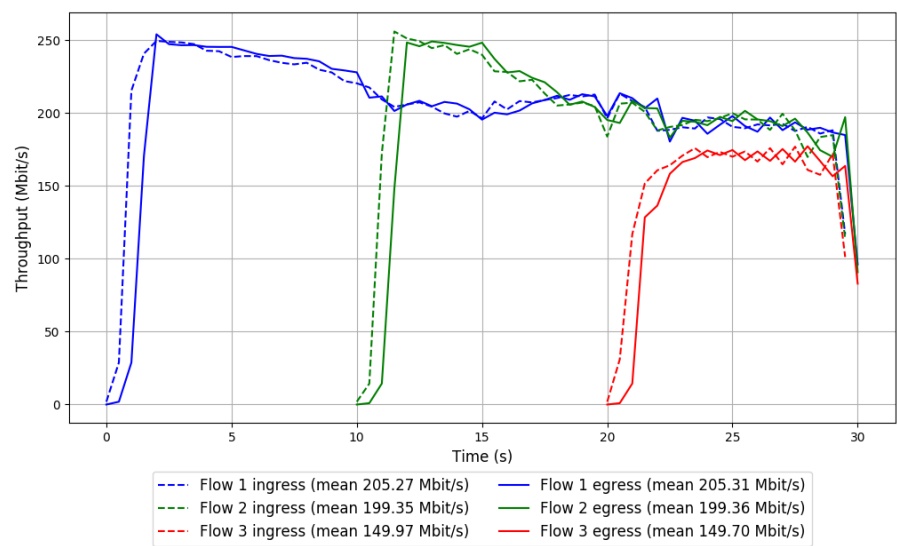


Run 3: Statistics of Indigo

Start at: 2018-05-25 15:25:49
End at: 2018-05-25 15:26:19
Local clock offset: 0.032 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 385.72 Mbit/s
95th percentile per-packet one-way delay: 74.907 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 205.31 Mbit/s
95th percentile per-packet one-way delay: 73.409 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 199.36 Mbit/s
95th percentile per-packet one-way delay: 76.157 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 149.70 Mbit/s
95th percentile per-packet one-way delay: 77.226 ms
Loss rate: 1.48%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 15:49:09

End at: 2018-05-25 15:49:39

Local clock offset: 0.085 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.56 Mbit/s

95th percentile per-packet one-way delay: 76.484 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 213.60 Mbit/s

95th percentile per-packet one-way delay: 73.982 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 206.03 Mbit/s

95th percentile per-packet one-way delay: 75.610 ms

Loss rate: 0.63%

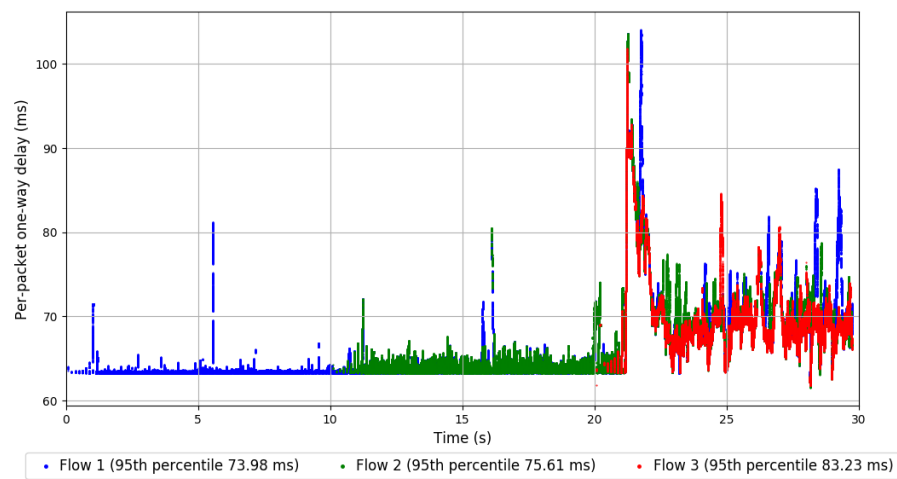
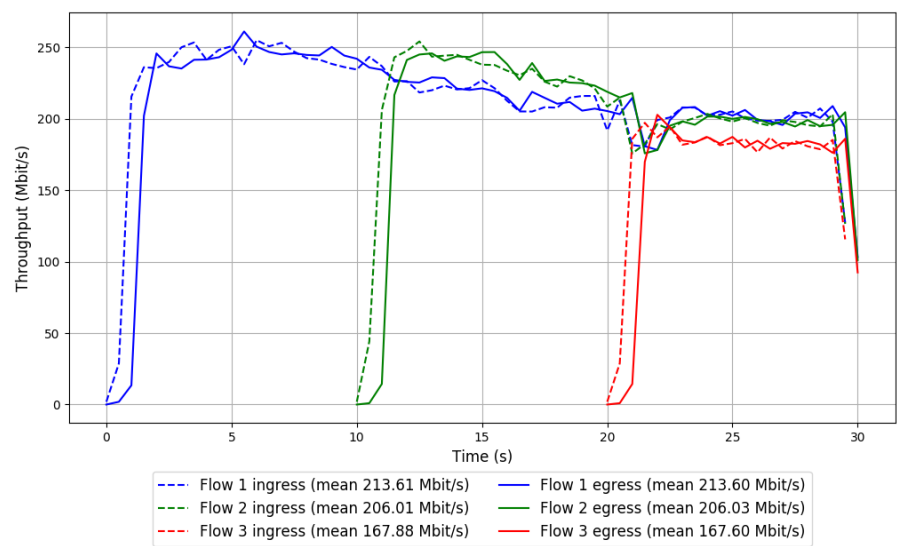
-- Flow 3:

Average throughput: 167.60 Mbit/s

95th percentile per-packet one-way delay: 83.235 ms

Loss rate: 1.46%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 16:12:43

End at: 2018-05-25 16:13:13

Local clock offset: 0.014 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.84 Mbit/s

95th percentile per-packet one-way delay: 75.376 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 206.62 Mbit/s

95th percentile per-packet one-way delay: 71.711 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 204.71 Mbit/s

95th percentile per-packet one-way delay: 78.272 ms

Loss rate: 0.67%

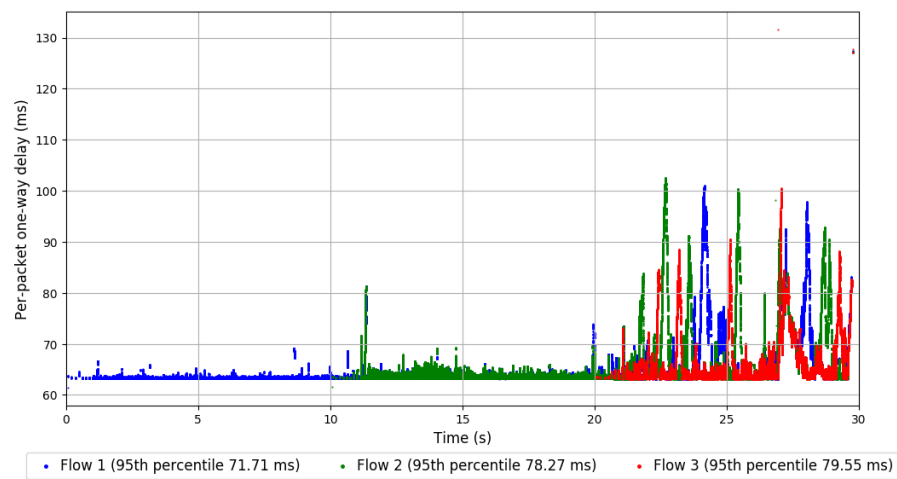
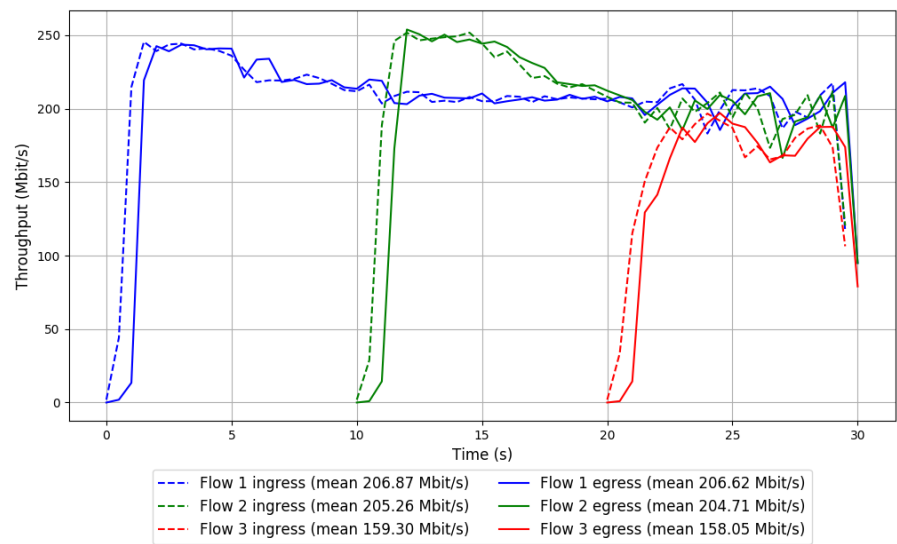
-- Flow 3:

Average throughput: 158.05 Mbit/s

95th percentile per-packet one-way delay: 79.554 ms

Loss rate: 1.61%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 16:35:53

End at: 2018-05-25 16:36:23

Local clock offset: -0.064 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.87 Mbit/s

95th percentile per-packet one-way delay: 72.747 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 209.06 Mbit/s

95th percentile per-packet one-way delay: 70.281 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 207.63 Mbit/s

95th percentile per-packet one-way delay: 72.547 ms

Loss rate: 0.53%

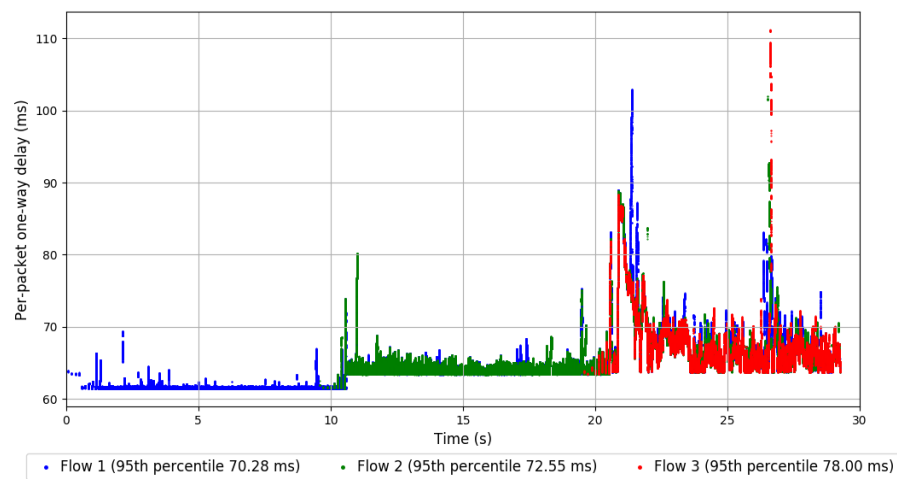
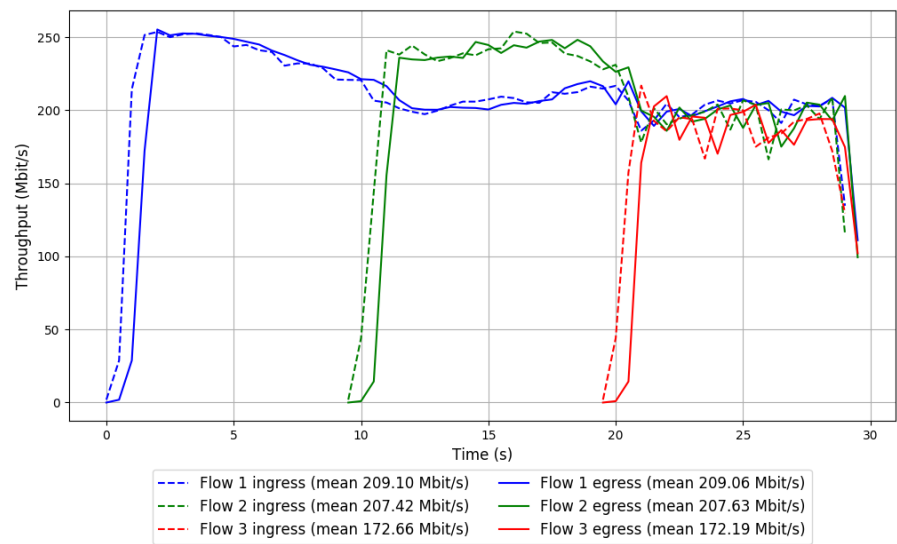
-- Flow 3:

Average throughput: 172.19 Mbit/s

95th percentile per-packet one-way delay: 78.005 ms

Loss rate: 1.56%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 16:59:12

End at: 2018-05-25 16:59:42

Local clock offset: -0.036 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.90 Mbit/s

95th percentile per-packet one-way delay: 72.039 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 208.82 Mbit/s

95th percentile per-packet one-way delay: 70.315 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 198.98 Mbit/s

95th percentile per-packet one-way delay: 73.940 ms

Loss rate: 0.68%

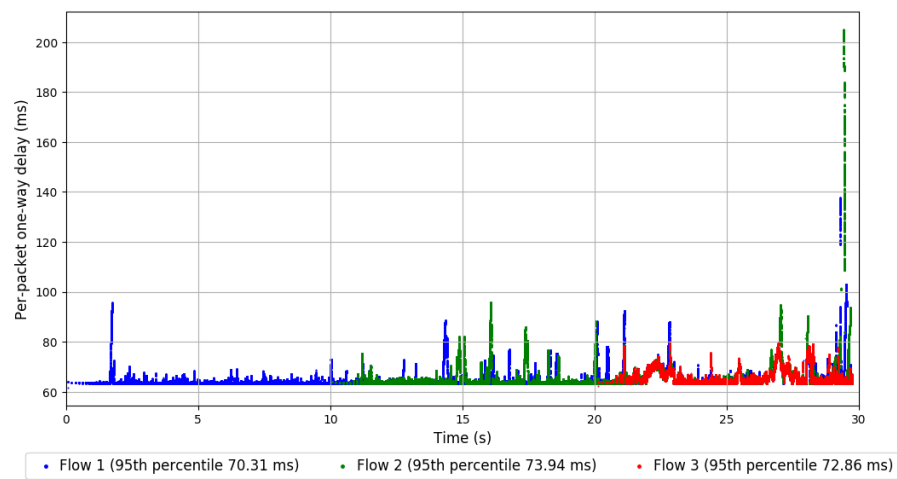
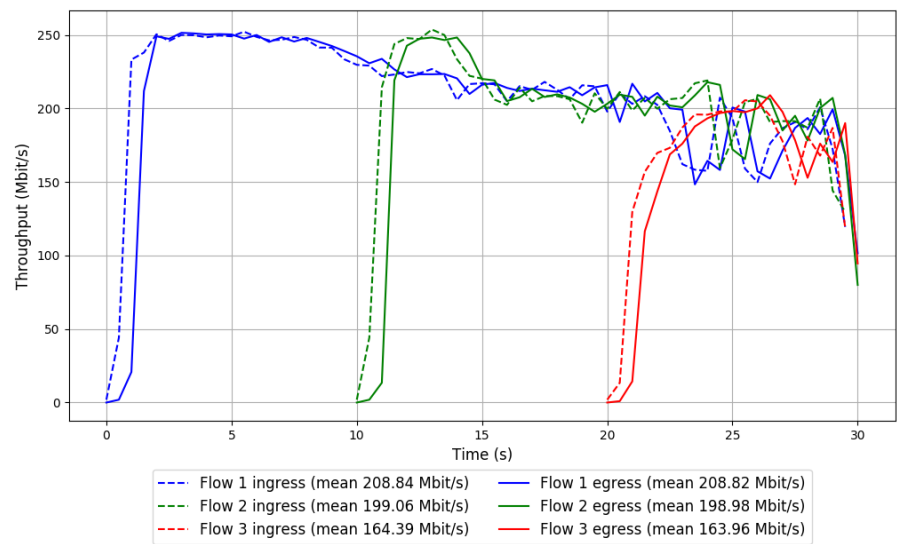
-- Flow 3:

Average throughput: 163.96 Mbit/s

95th percentile per-packet one-way delay: 72.860 ms

Loss rate: 1.53%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 17:22:16

End at: 2018-05-25 17:22:46

Local clock offset: -0.061 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.61 Mbit/s

95th percentile per-packet one-way delay: 69.931 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 209.68 Mbit/s

95th percentile per-packet one-way delay: 69.357 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 209.82 Mbit/s

95th percentile per-packet one-way delay: 69.983 ms

Loss rate: 0.64%

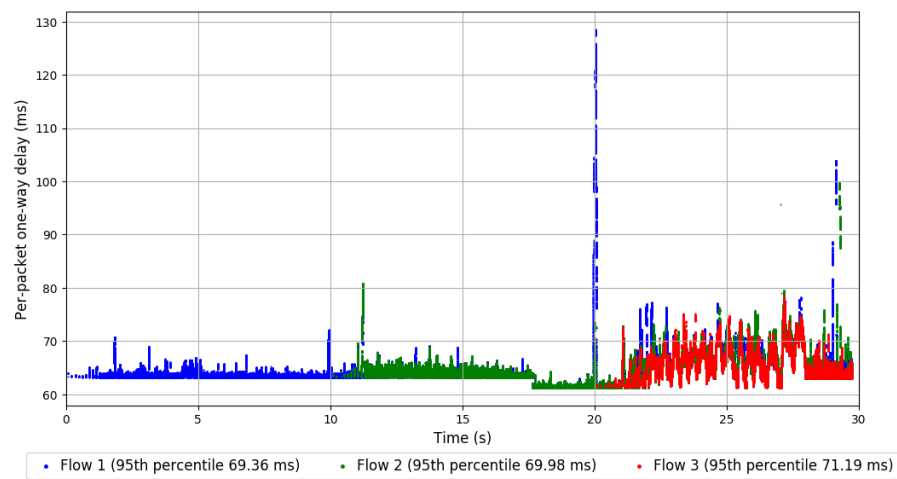
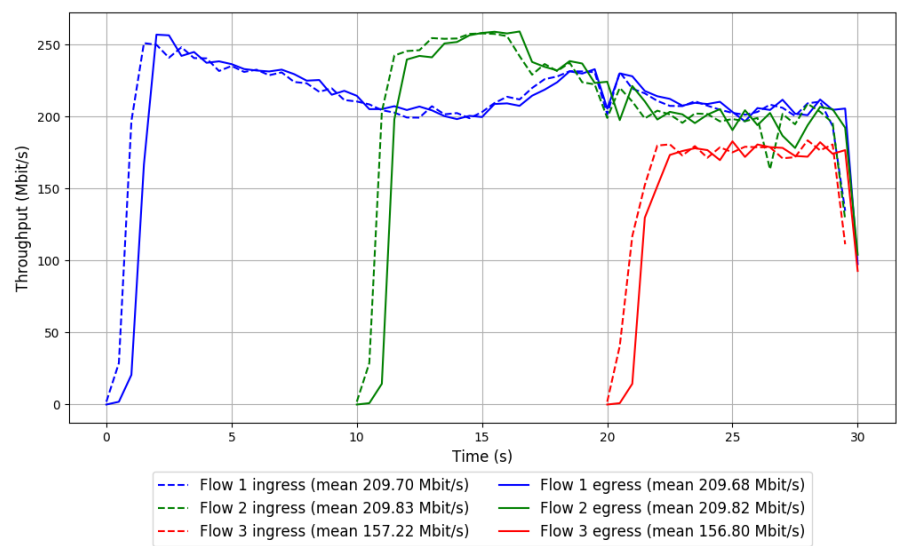
-- Flow 3:

Average throughput: 156.80 Mbit/s

95th percentile per-packet one-way delay: 71.192 ms

Loss rate: 1.55%

Run 8: Report of Indigo — Data Link

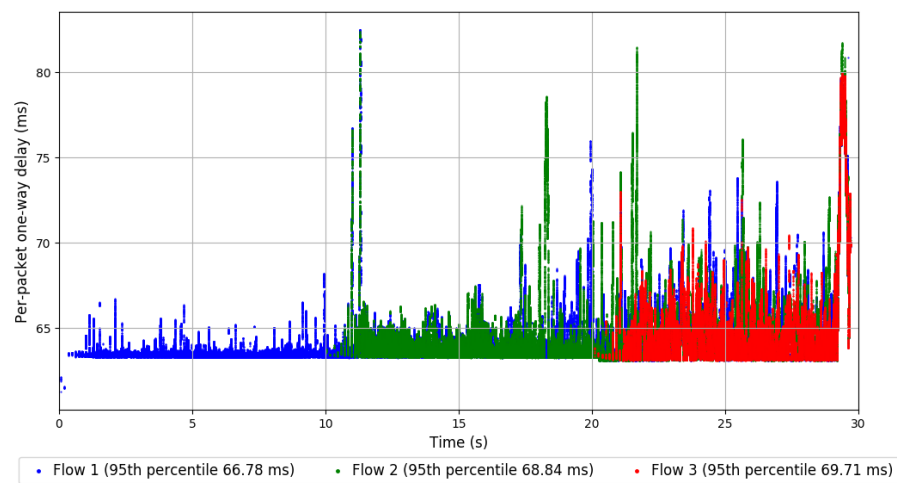
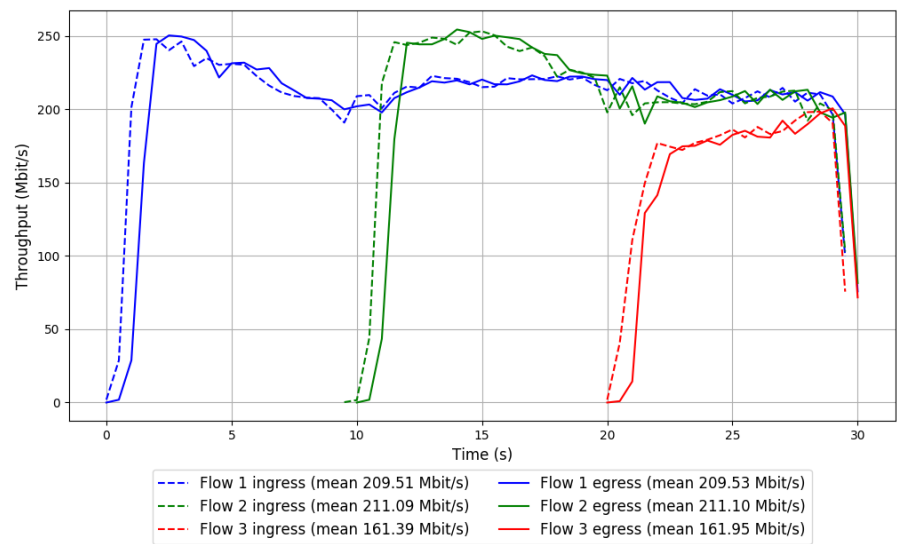


Run 9: Statistics of Indigo

Start at: 2018-05-25 17:45:44
End at: 2018-05-25 17:46:14
Local clock offset: -0.097 ms
Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.11 Mbit/s
95th percentile per-packet one-way delay: 67.938 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 209.53 Mbit/s
95th percentile per-packet one-way delay: 66.784 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 211.10 Mbit/s
95th percentile per-packet one-way delay: 68.838 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 161.95 Mbit/s
95th percentile per-packet one-way delay: 69.713 ms
Loss rate: 0.97%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 18:09:15

End at: 2018-05-25 18:09:45

Local clock offset: -0.05 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 410.71 Mbit/s

95th percentile per-packet one-way delay: 70.994 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 211.20 Mbit/s

95th percentile per-packet one-way delay: 69.197 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 212.28 Mbit/s

95th percentile per-packet one-way delay: 71.267 ms

Loss rate: 0.64%

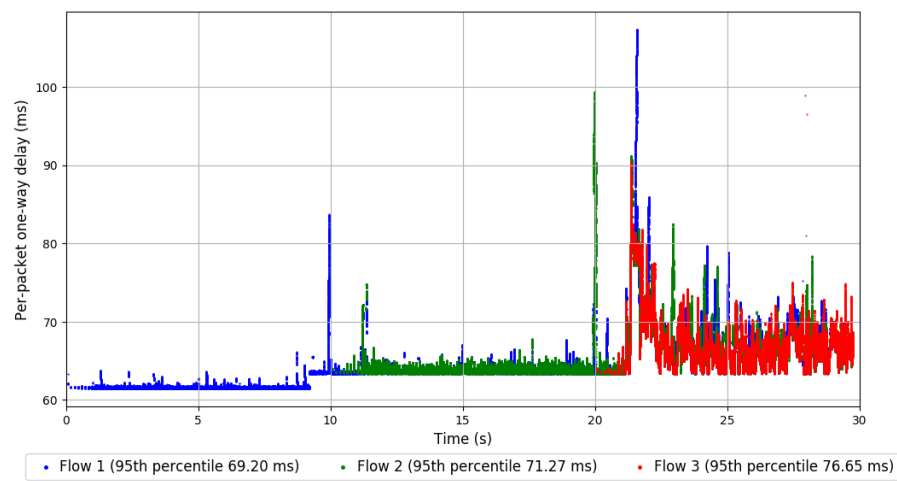
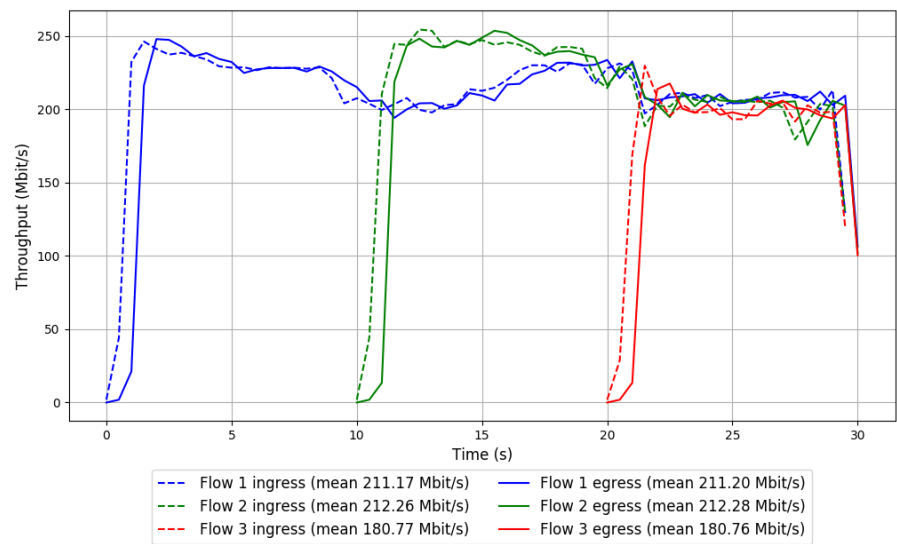
-- Flow 3:

Average throughput: 180.76 Mbit/s

95th percentile per-packet one-way delay: 76.646 ms

Loss rate: 1.31%

Run 10: Report of Indigo — Data Link

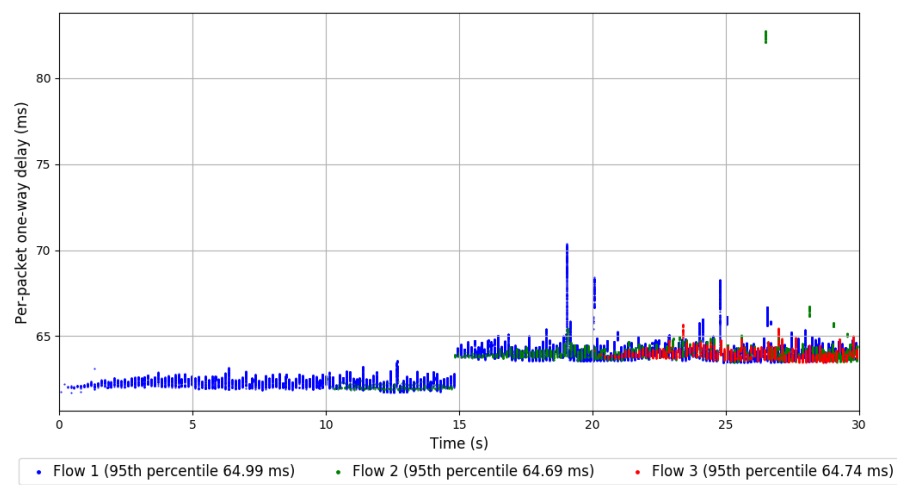
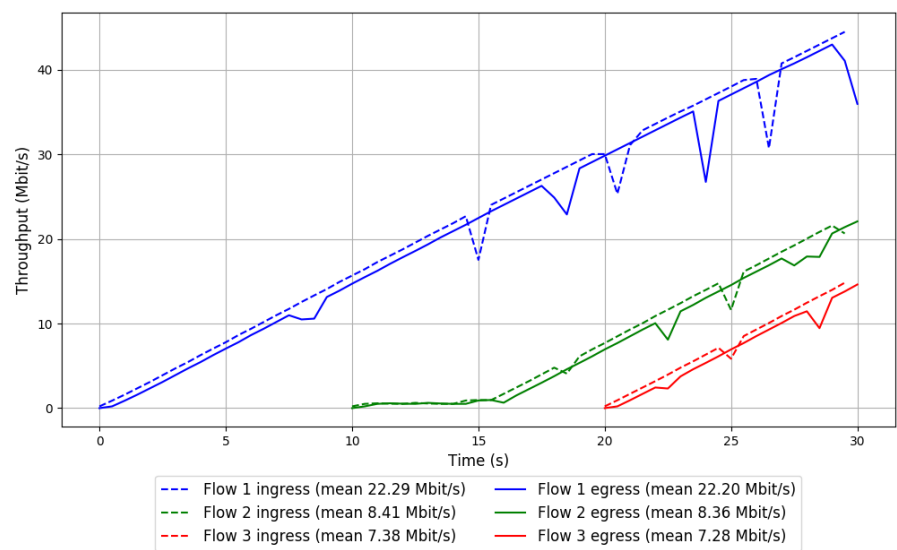


Run 1: Statistics of LEDBAT

Start at: 2018-05-25 14:51:39
End at: 2018-05-25 14:52:09
Local clock offset: -0.014 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 64.873 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 64.987 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 64.690 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 64.739 ms
Loss rate: 2.57%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 15:14:59

End at: 2018-05-25 15:15:29

Local clock offset: 0.063 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 64.456 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 64.429 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 64.591 ms

Loss rate: 1.27%

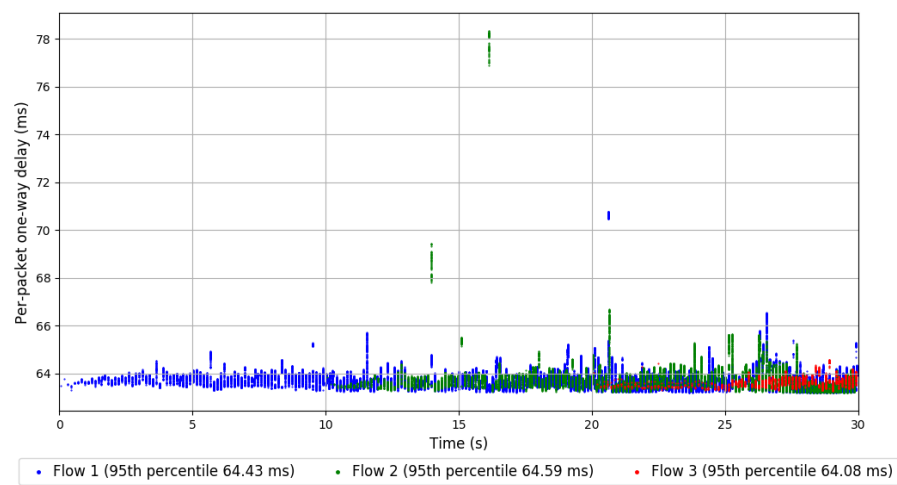
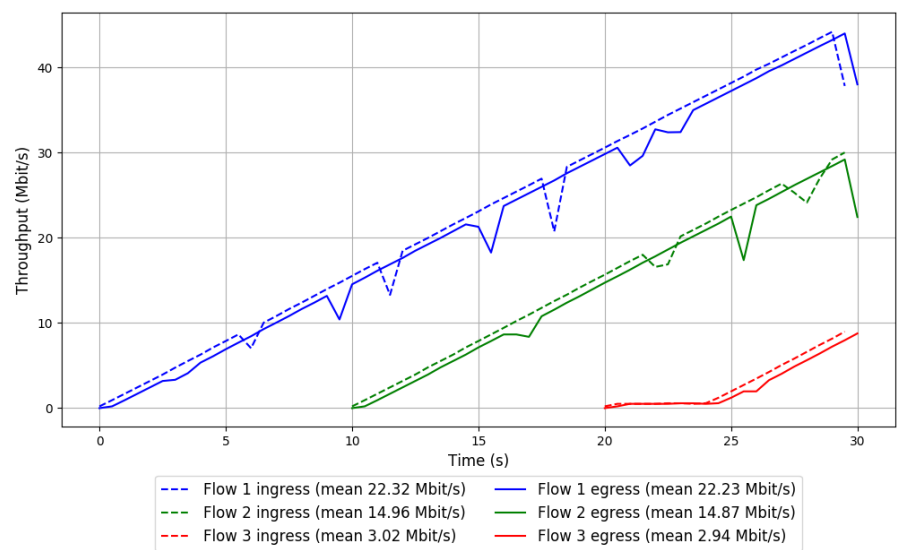
-- Flow 3:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 64.080 ms

Loss rate: 3.86%

Run 2: Report of LEDBAT — Data Link

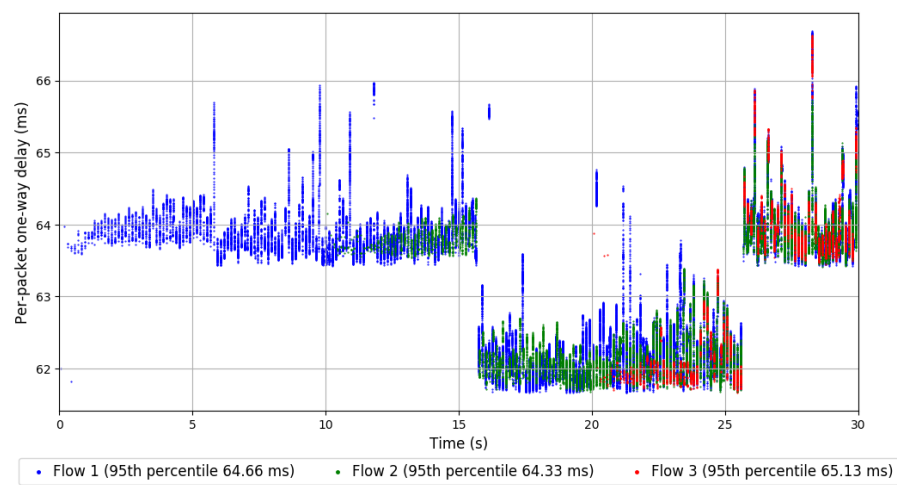
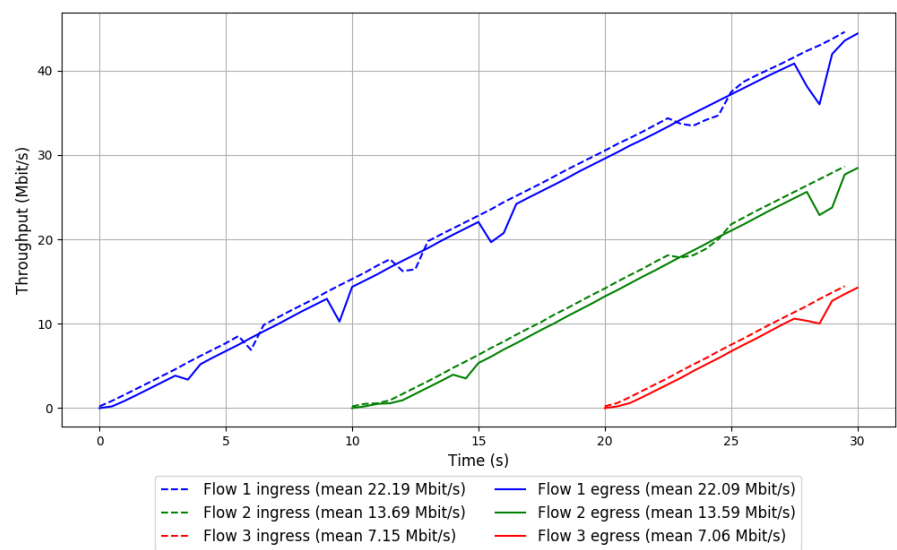


Run 3: Statistics of LEDBAT

Start at: 2018-05-25 15:38:18
End at: 2018-05-25 15:38:48
Local clock offset: 0.087 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 64.654 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 22.09 Mbit/s
95th percentile per-packet one-way delay: 64.658 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 64.328 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 65.132 ms
Loss rate: 2.58%

Run 3: Report of LEDBAT — Data Link

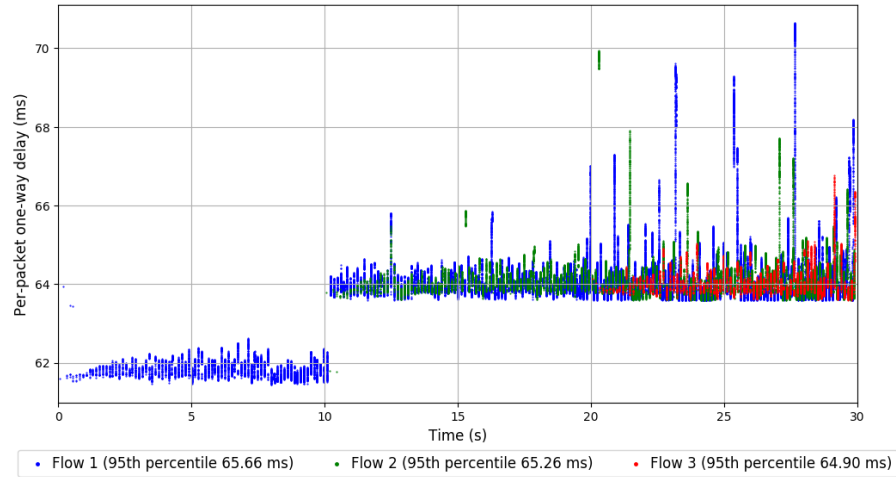
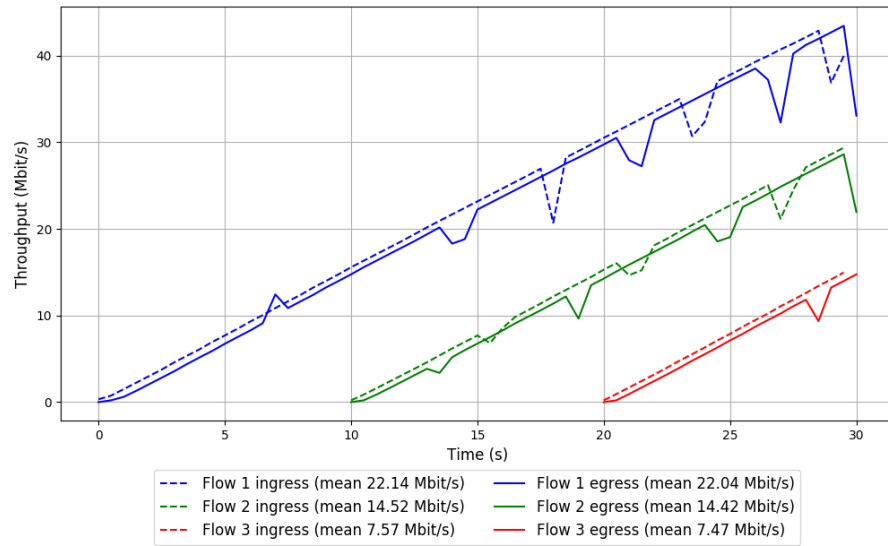


Run 4: Statistics of LEDBAT

Start at: 2018-05-25 16:01:34
End at: 2018-05-25 16:02:04
Local clock offset: 0.099 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 65.465 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 22.04 Mbit/s
95th percentile per-packet one-way delay: 65.661 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 65.256 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 64.901 ms
Loss rate: 2.54%

Run 4: Report of LEDBAT — Data Link

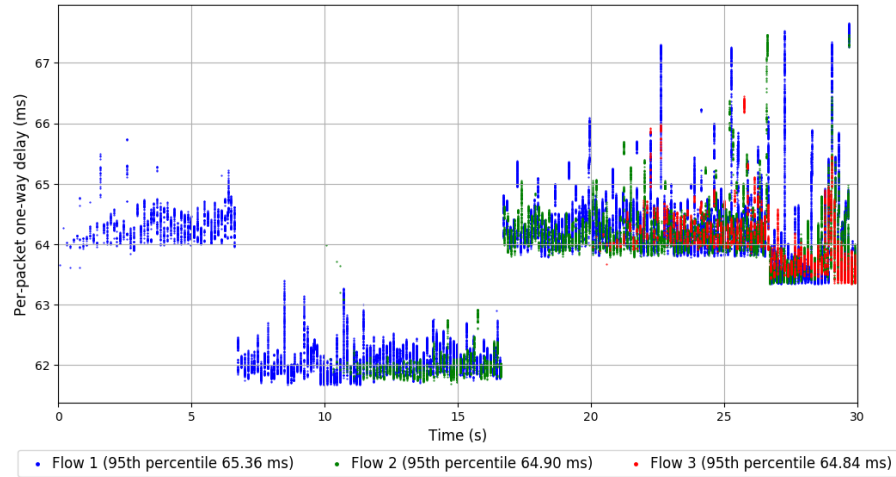
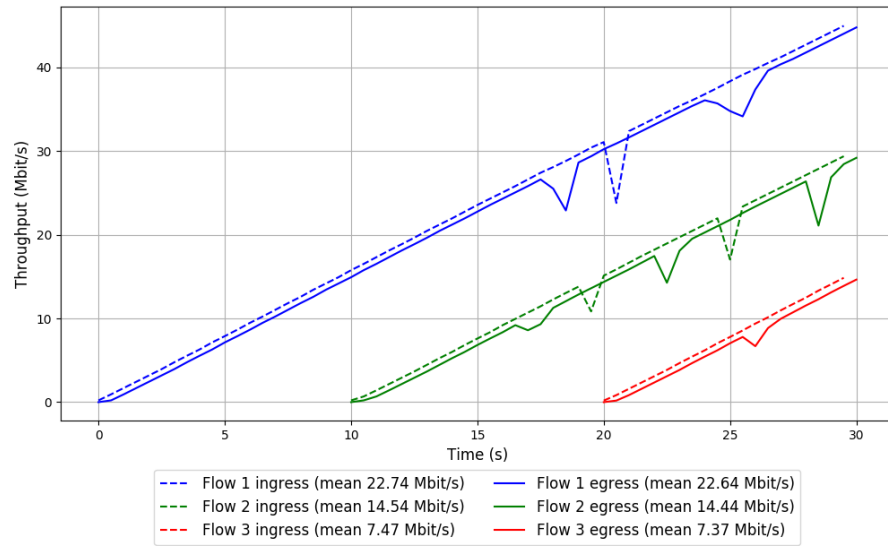


Run 5: Statistics of LEDBAT

Start at: 2018-05-25 16:25:07
End at: 2018-05-25 16:25:37
Local clock offset: -0.024 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 65.216 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.64 Mbit/s
95th percentile per-packet one-way delay: 65.357 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.44 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 64.840 ms
Loss rate: 2.56%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 16:48:14

End at: 2018-05-25 16:48:44

Local clock offset: -0.026 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.49 Mbit/s

95th percentile per-packet one-way delay: 65.648 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 65.715 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 65.533 ms

Loss rate: 1.20%

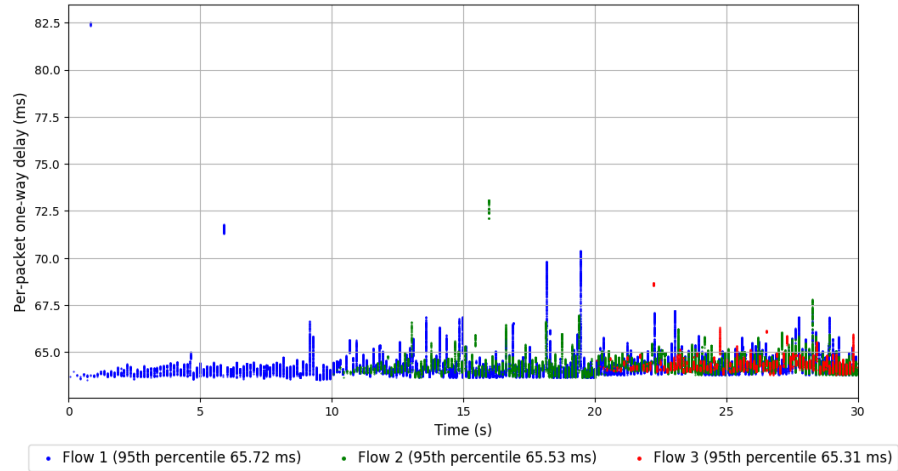
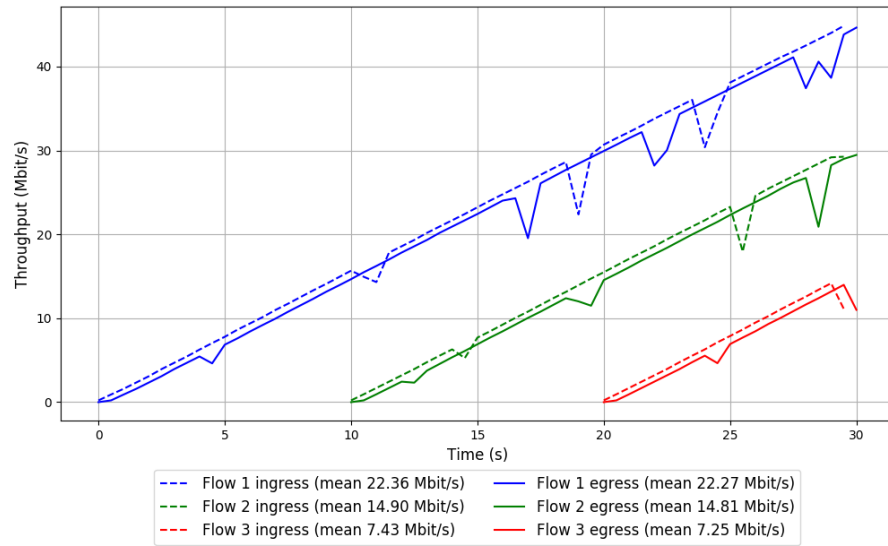
-- Flow 3:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 65.305 ms

Loss rate: 2.55%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 17:11:26

End at: 2018-05-25 17:11:56

Local clock offset: -0.051 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 64.409 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 14.71 Mbit/s

95th percentile per-packet one-way delay: 64.465 ms

Loss rate: 0.95%

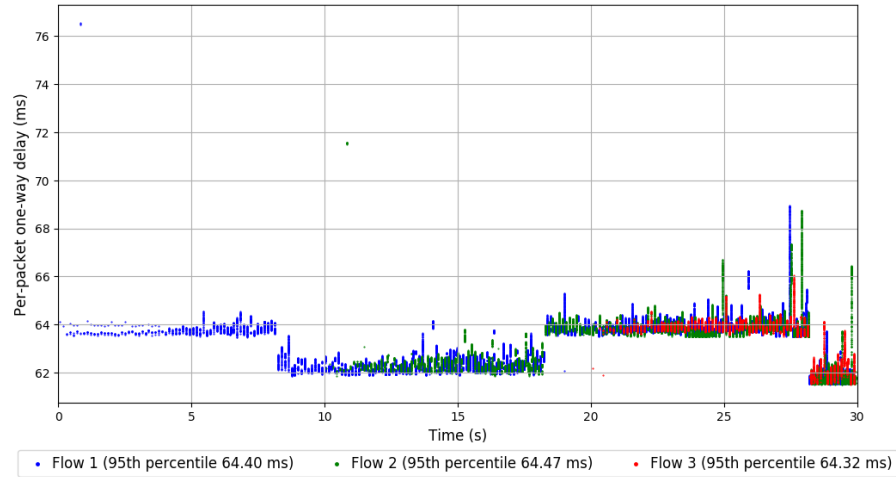
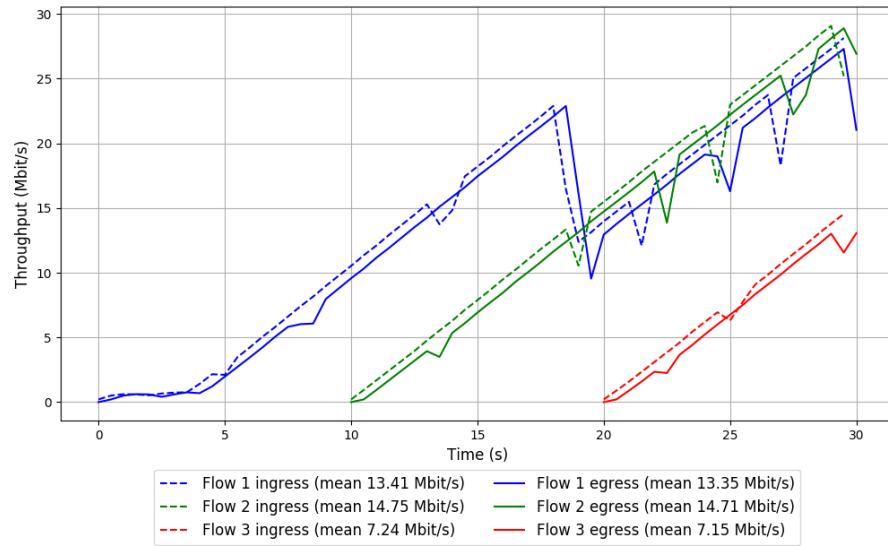
-- Flow 3:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 64.318 ms

Loss rate: 2.58%

Run 7: Report of LEDBAT — Data Link

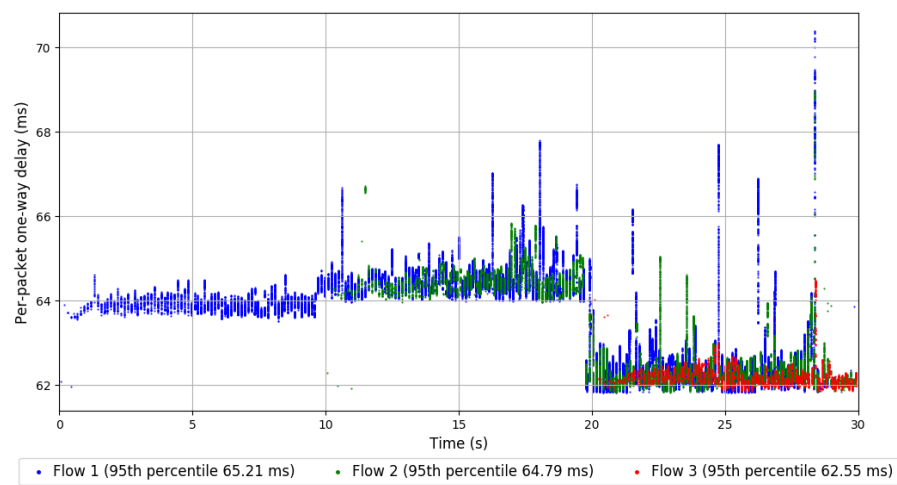
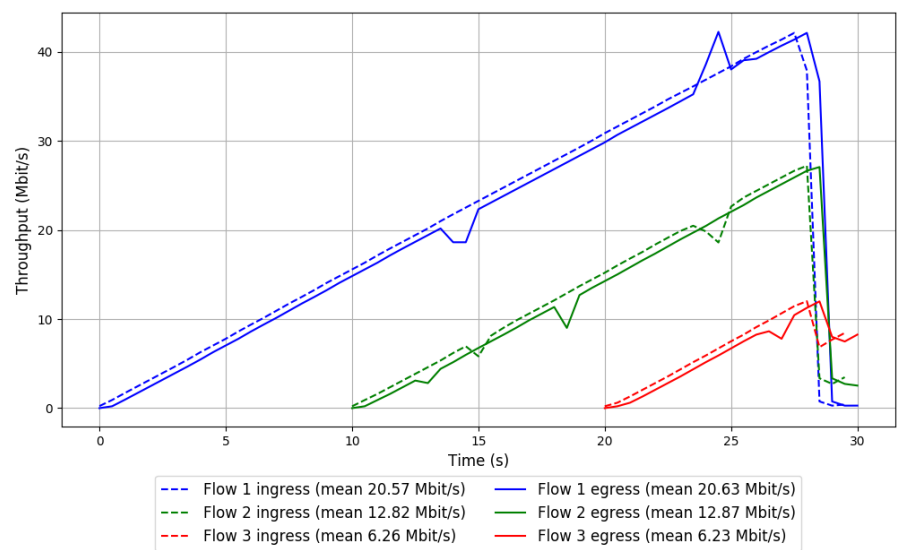


Run 8: Statistics of LEDBAT

Start at: 2018-05-25 17:34:44
End at: 2018-05-25 17:35:14
Local clock offset: -0.081 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 65.043 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 65.208 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 64.794 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 62.546 ms
Loss rate: 1.77%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 17:58:22

End at: 2018-05-25 17:58:52

Local clock offset: -0.064 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.85 Mbit/s

95th percentile per-packet one-way delay: 64.853 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 22.49 Mbit/s

95th percentile per-packet one-way delay: 64.996 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 1.26%

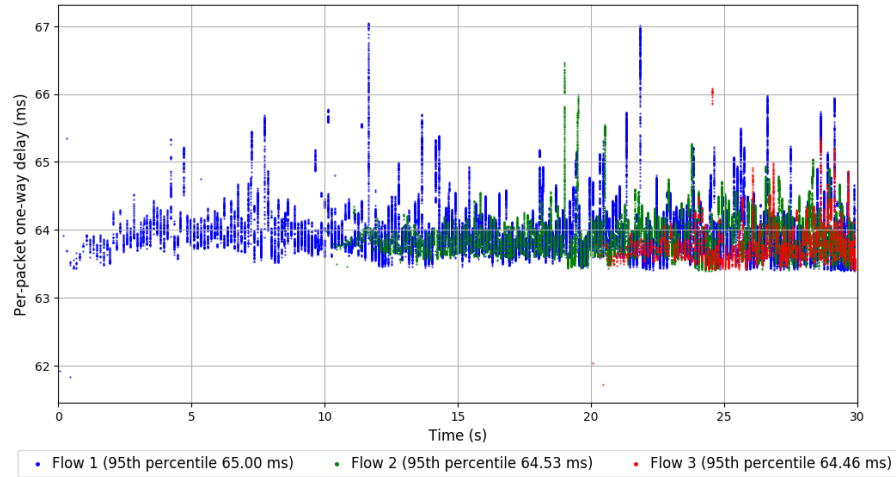
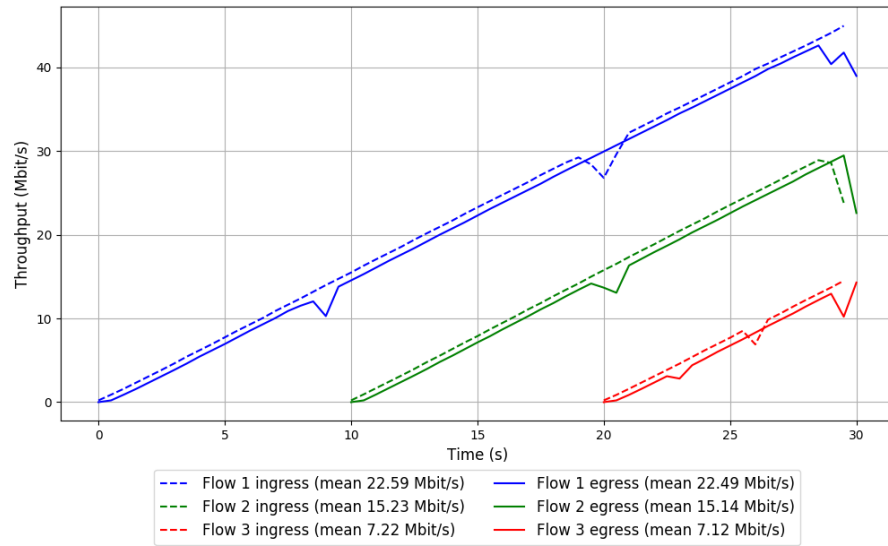
-- Flow 3:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 64.461 ms

Loss rate: 2.58%

Run 9: Report of LEDBAT — Data Link

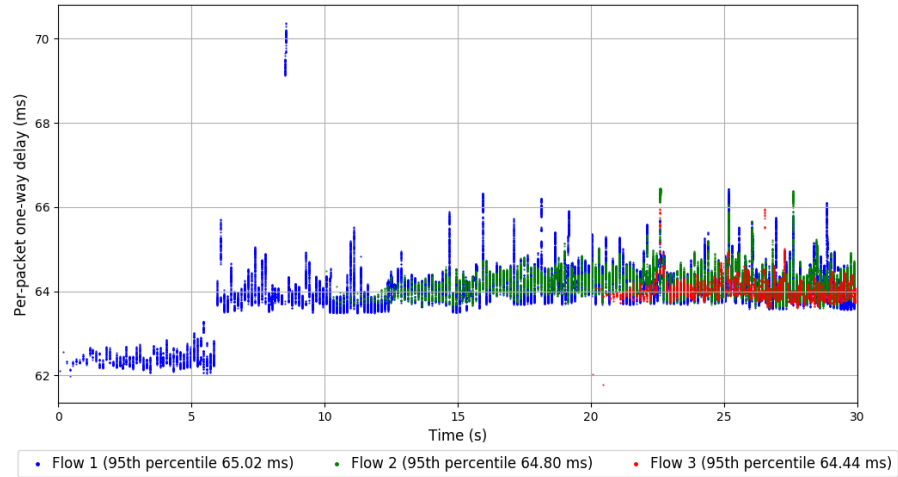
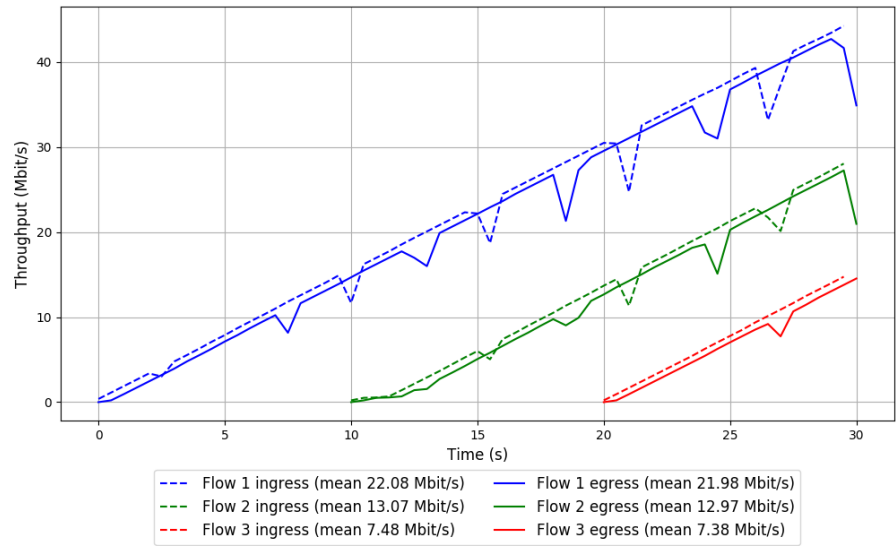


Run 10: Statistics of LEDBAT

Start at: 2018-05-25 18:21:28
End at: 2018-05-25 18:21:58
Local clock offset: -0.069 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 64.930 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.98 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 64.440 ms
Loss rate: 2.54%

Run 10: Report of LEDBAT — Data Link

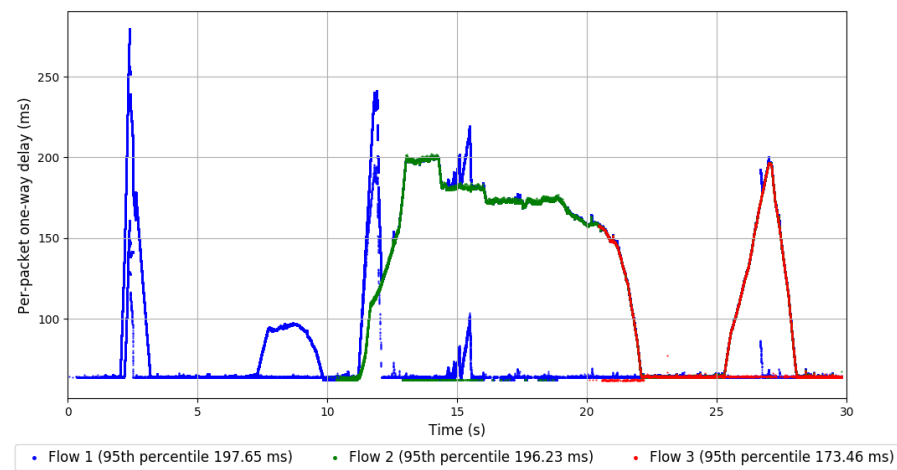
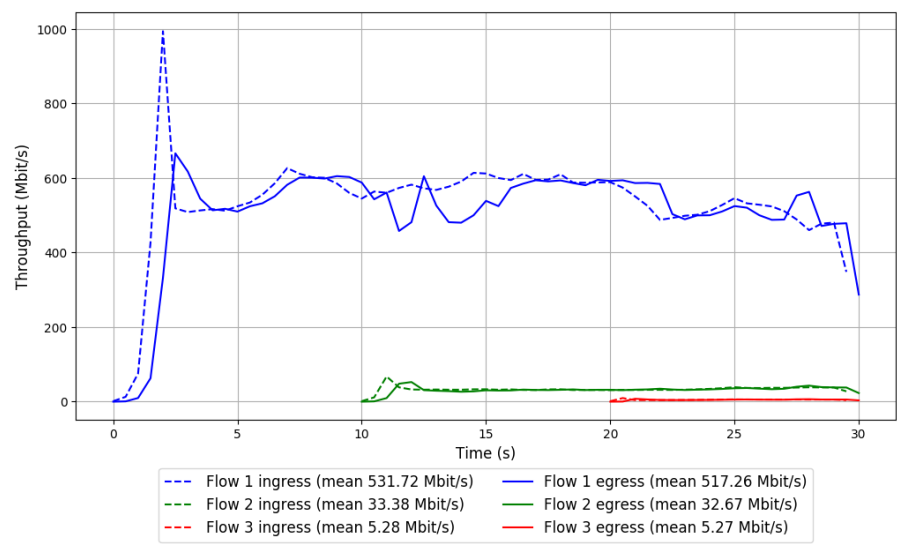


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 14:46:05
End at: 2018-05-25 14:46:35
Local clock offset: -0.023 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 540.62 Mbit/s
95th percentile per-packet one-way delay: 197.595 ms
Loss rate: 3.10%
-- Flow 1:
Average throughput: 517.26 Mbit/s
95th percentile per-packet one-way delay: 197.653 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 196.229 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 173.463 ms
Loss rate: 1.44%

Run 1: Report of PCC-Allegro — Data Link

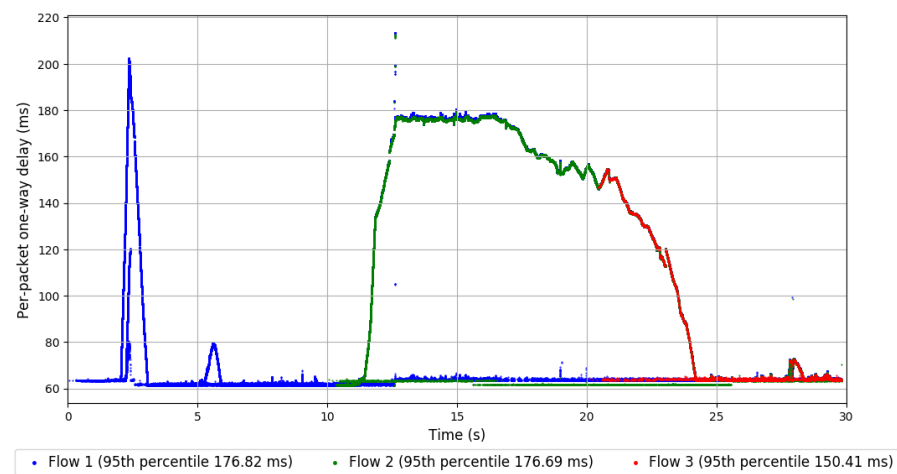
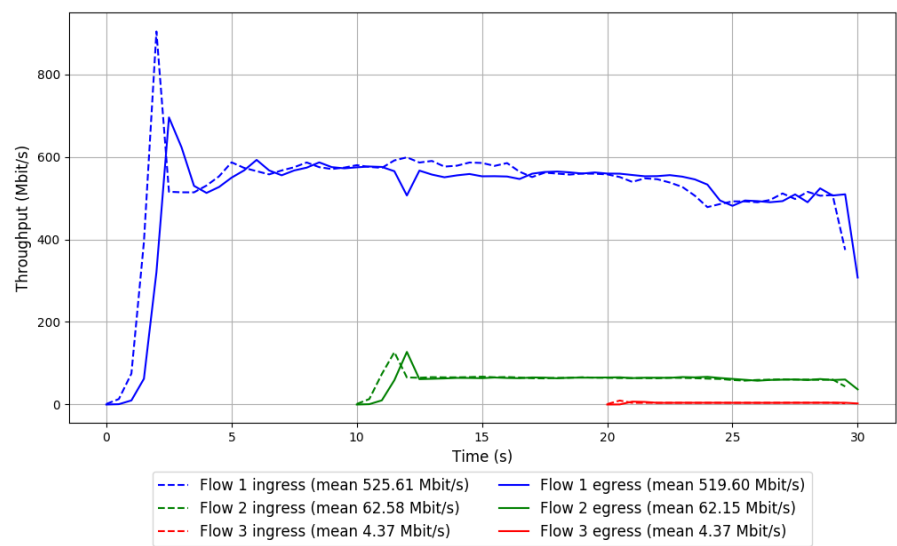


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 15:09:21
End at: 2018-05-25 15:09:51
Local clock offset: 0.031 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 562.13 Mbit/s
95th percentile per-packet one-way delay: 176.808 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 519.60 Mbit/s
95th percentile per-packet one-way delay: 176.825 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 176.695 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 150.409 ms
Loss rate: 1.23%

Run 2: Report of PCC-Allegro — Data Link

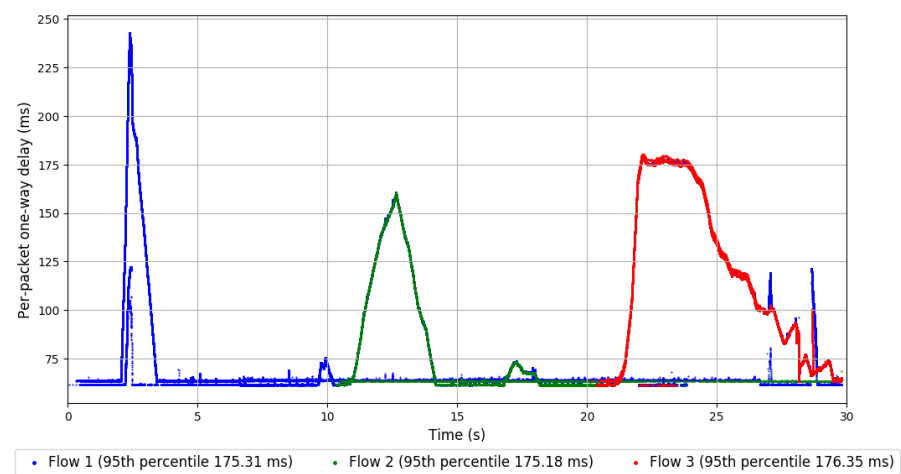
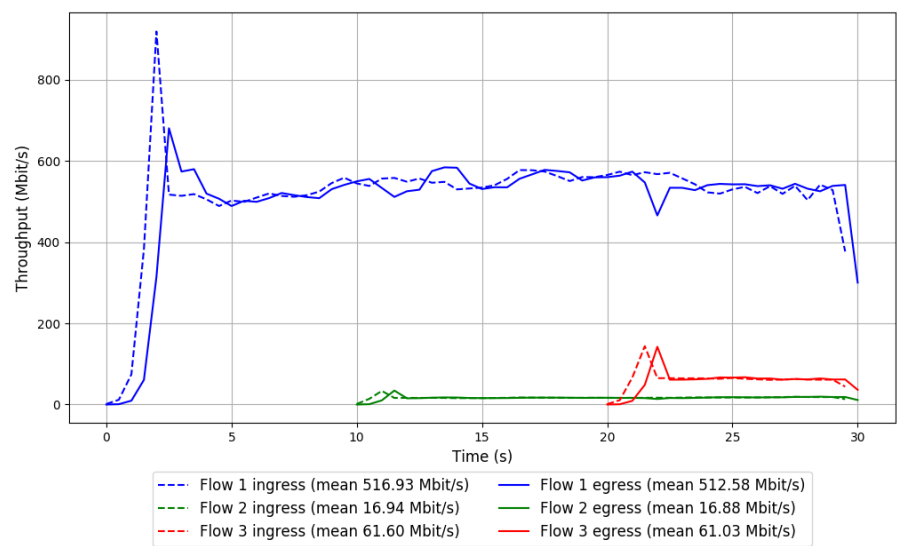


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 15:32:37
End at: 2018-05-25 15:33:07
Local clock offset: 0.064 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-05-25 20:18:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 543.67 Mbit/s
95th percentile per-packet one-way delay: 175.372 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 512.58 Mbit/s
95th percentile per-packet one-way delay: 175.310 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 175.183 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 61.03 Mbit/s
95th percentile per-packet one-way delay: 176.354 ms
Loss rate: 2.15%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 15:55:51

End at: 2018-05-25 15:56:21

Local clock offset: 0.126 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 535.97 Mbit/s

95th percentile per-packet one-way delay: 194.221 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 495.52 Mbit/s

95th percentile per-packet one-way delay: 194.289 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 194.090 ms

Loss rate: 4.95%

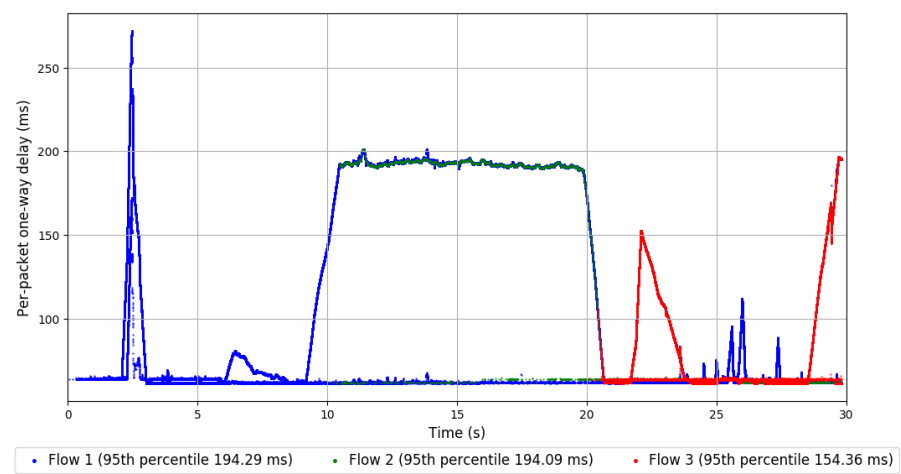
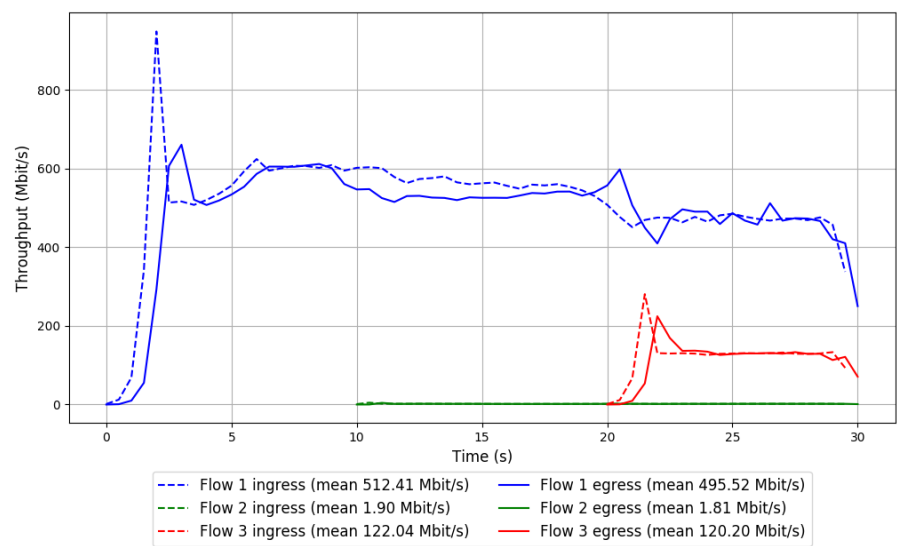
-- Flow 3:

Average throughput: 120.20 Mbit/s

95th percentile per-packet one-way delay: 154.362 ms

Loss rate: 2.79%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 16:19:27

End at: 2018-05-25 16:19:57

Local clock offset: -0.003 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 546.35 Mbit/s

95th percentile per-packet one-way delay: 196.182 ms

Loss rate: 4.28%

-- Flow 1:

Average throughput: 525.58 Mbit/s

95th percentile per-packet one-way delay: 196.514 ms

Loss rate: 4.34%

-- Flow 2:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 192.069 ms

Loss rate: 3.25%

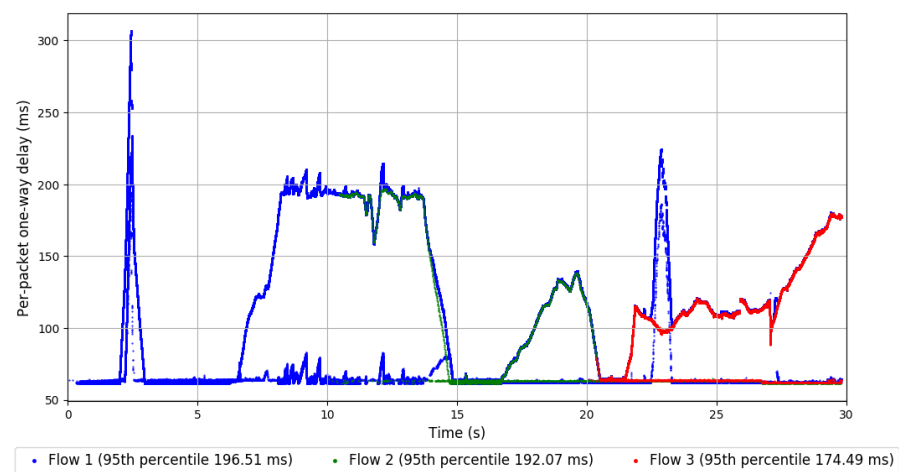
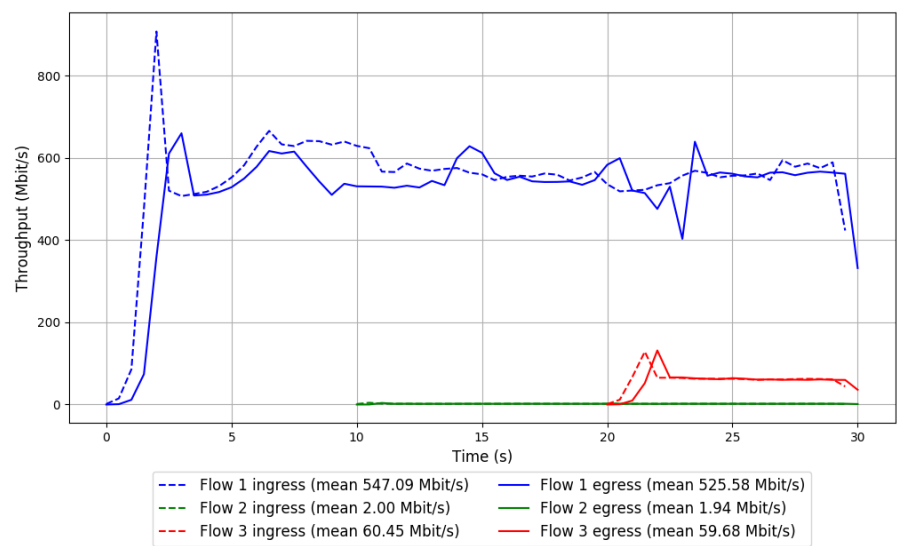
-- Flow 3:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 174.493 ms

Loss rate: 2.54%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 16:42:37

End at: 2018-05-25 16:43:07

Local clock offset: -0.045 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-05-25 20:18:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 545.97 Mbit/s

95th percentile per-packet one-way delay: 155.371 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 522.30 Mbit/s

95th percentile per-packet one-way delay: 155.912 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 148.152 ms

Loss rate: 0.90%

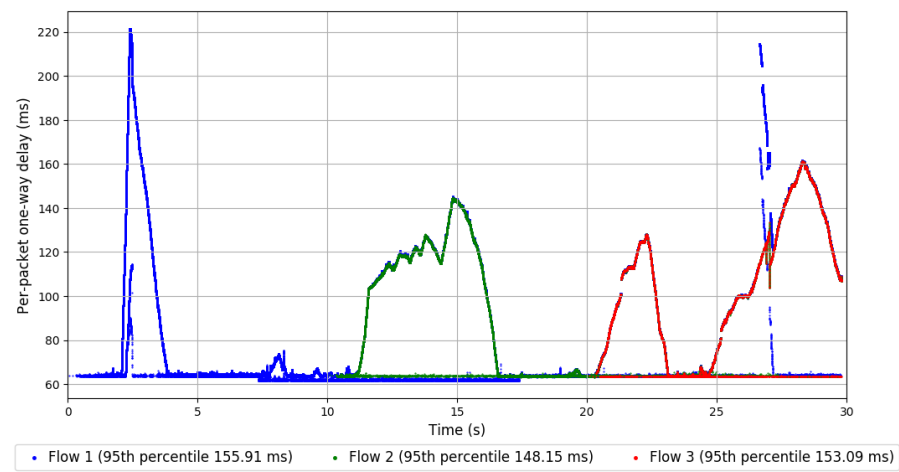
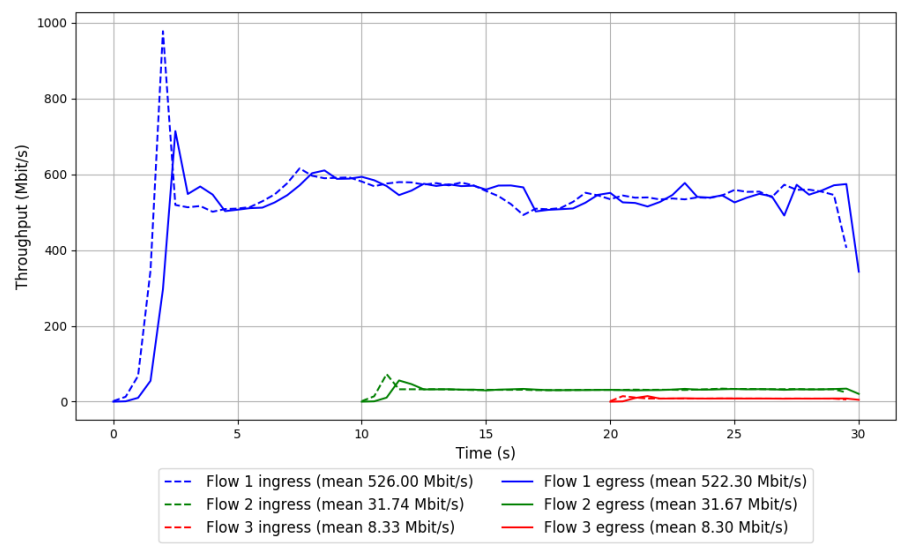
-- Flow 3:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 153.088 ms

Loss rate: 1.60%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 17:05:53

End at: 2018-05-25 17:06:23

Local clock offset: -0.027 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-05-25 20:25:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.71 Mbit/s

95th percentile per-packet one-way delay: 163.091 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 541.22 Mbit/s

95th percentile per-packet one-way delay: 163.161 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 10.46 Mbit/s

95th percentile per-packet one-way delay: 159.515 ms

Loss rate: 1.71%

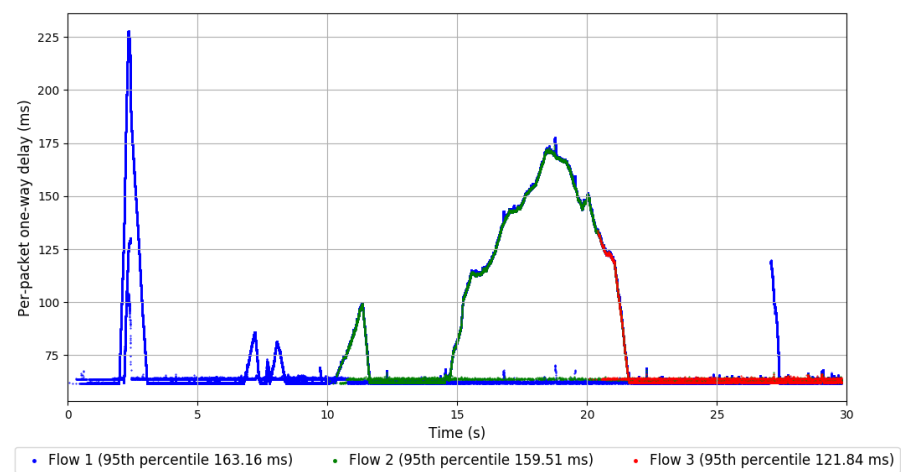
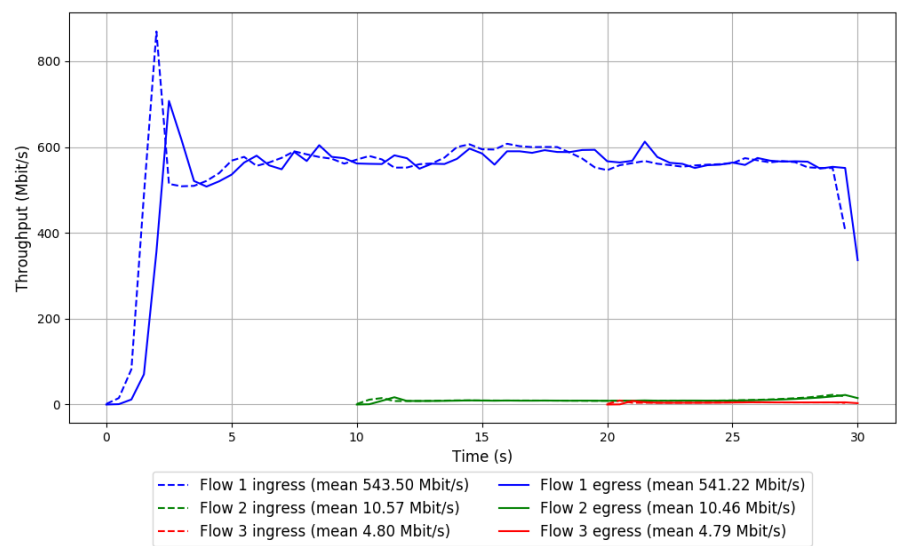
-- Flow 3:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 121.842 ms

Loss rate: 1.40%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 17:29:03

End at: 2018-05-25 17:29:33

Local clock offset: -0.079 ms

Remote clock offset: 0.492 ms

Below is generated by plot.py at 2018-05-25 20:26:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.46 Mbit/s

95th percentile per-packet one-way delay: 237.718 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 488.91 Mbit/s

95th percentile per-packet one-way delay: 239.413 ms

Loss rate: 2.91%

-- Flow 2:

Average throughput: 97.70 Mbit/s

95th percentile per-packet one-way delay: 178.240 ms

Loss rate: 2.76%

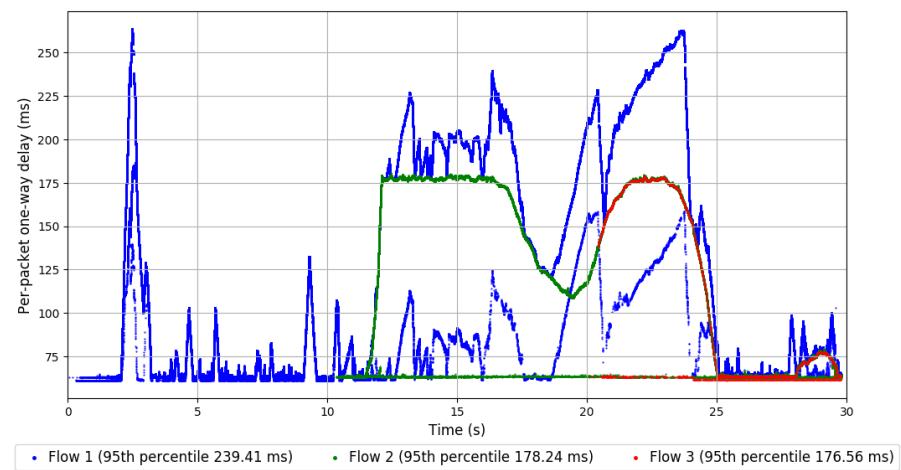
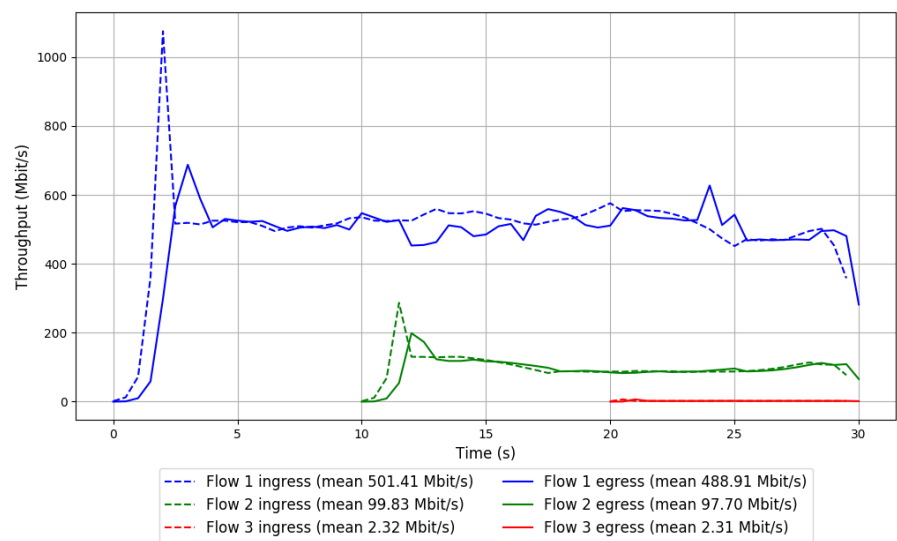
-- Flow 3:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 176.558 ms

Loss rate: 1.69%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 17:52:36

End at: 2018-05-25 17:53:06

Local clock offset: -0.078 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-05-25 20:27:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 588.32 Mbit/s

95th percentile per-packet one-way delay: 212.658 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 584.84 Mbit/s

95th percentile per-packet one-way delay: 213.054 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 176.640 ms

Loss rate: 2.16%

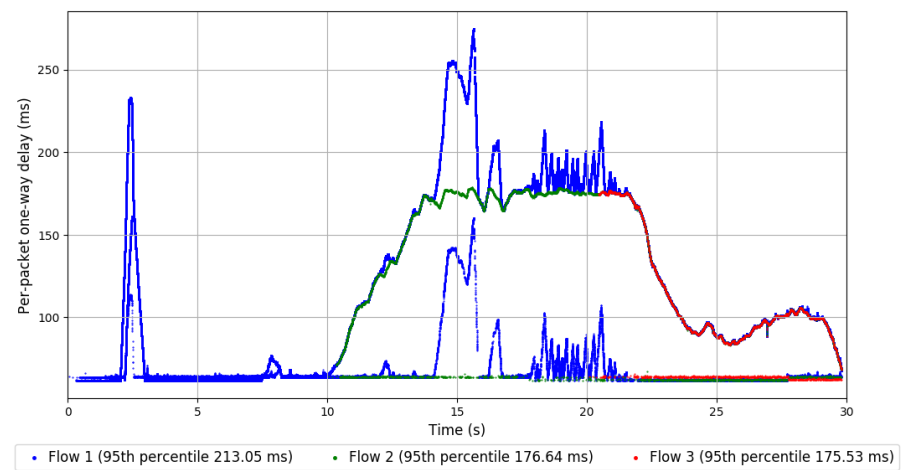
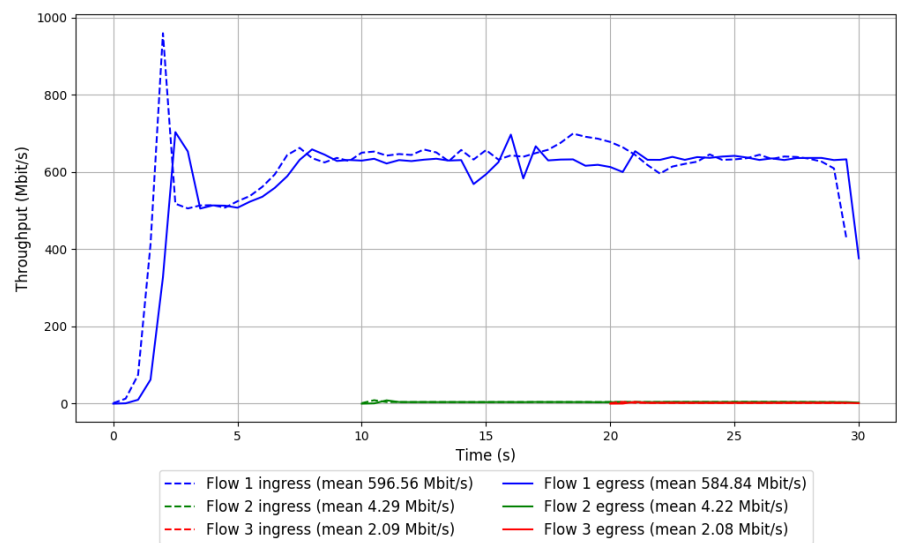
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 175.532 ms

Loss rate: 1.90%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 18:16:10

End at: 2018-05-25 18:16:40

Local clock offset: -0.09 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-05-25 20:27:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.71 Mbit/s

95th percentile per-packet one-way delay: 167.313 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 551.19 Mbit/s

95th percentile per-packet one-way delay: 169.024 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 97.415 ms

Loss rate: 1.02%

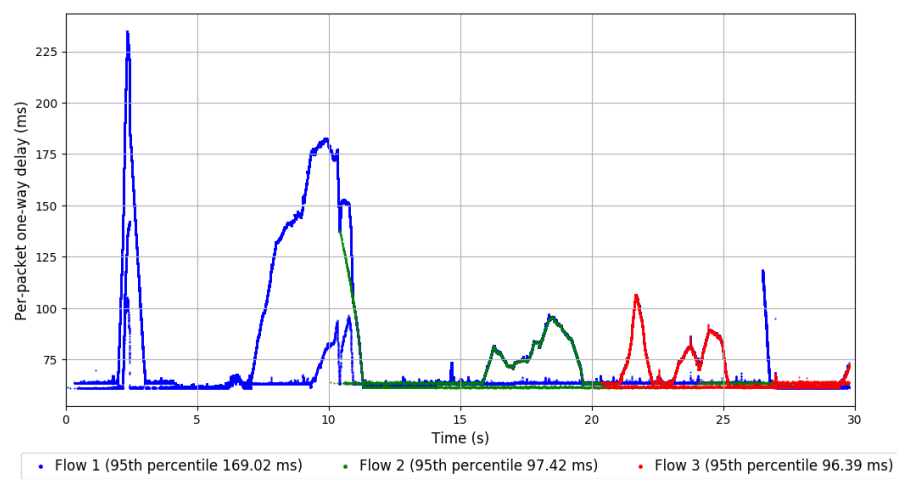
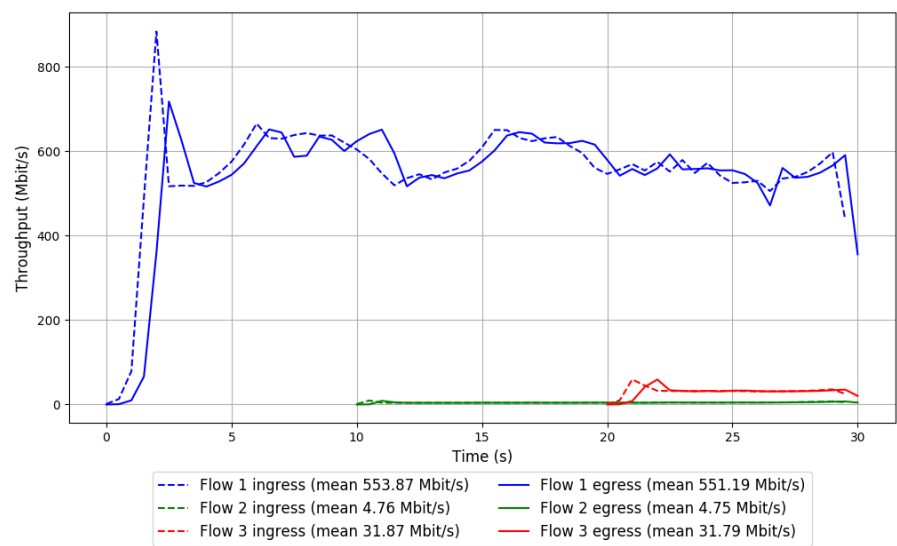
-- Flow 3:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 96.388 ms

Loss rate: 1.52%

Run 10: Report of PCC-Allegro — Data Link

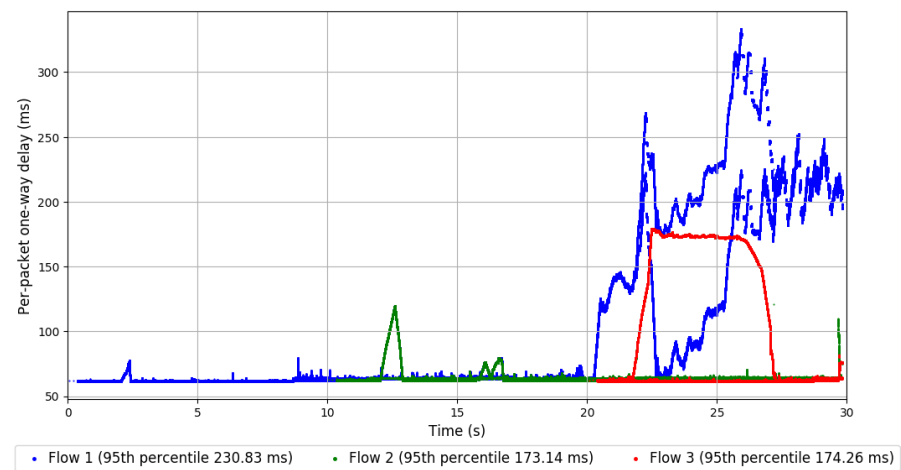
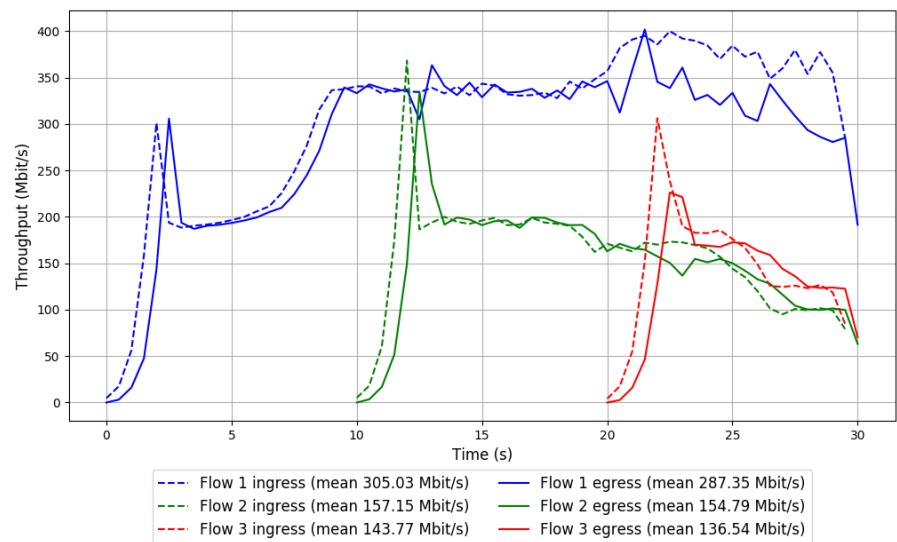


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 14:37:35
End at: 2018-05-25 14:38:05
Local clock offset: 0.011 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-25 20:34:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.75 Mbit/s
95th percentile per-packet one-way delay: 223.444 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 287.35 Mbit/s
95th percentile per-packet one-way delay: 230.831 ms
Loss rate: 6.19%
-- Flow 2:
Average throughput: 154.79 Mbit/s
95th percentile per-packet one-way delay: 173.138 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 136.54 Mbit/s
95th percentile per-packet one-way delay: 174.265 ms
Loss rate: 6.23%
```

Run 1: Report of PCC-Expr — Data Link

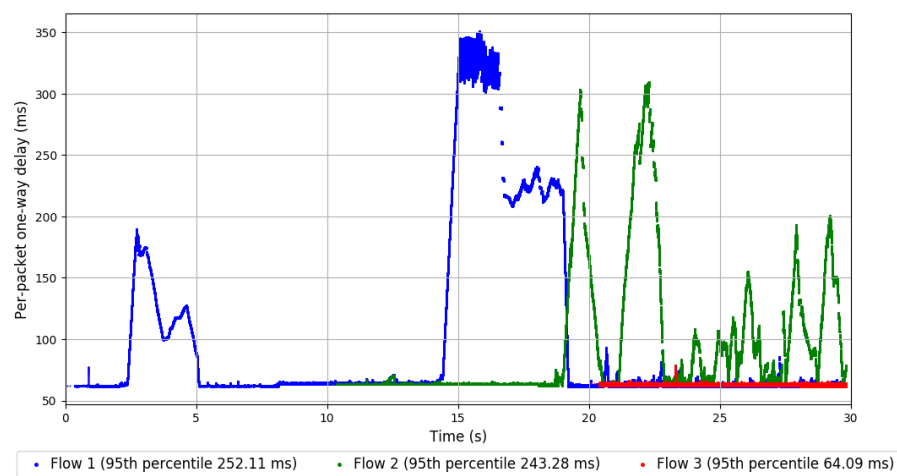
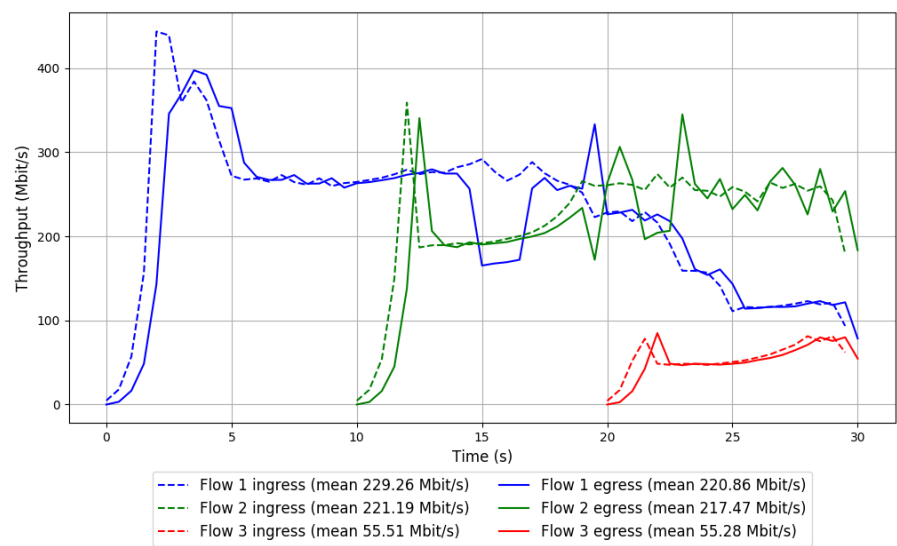


Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 15:00:46
End at: 2018-05-25 15:01:16
Local clock offset: 0.019 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-05-25 20:34:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.26 Mbit/s
95th percentile per-packet one-way delay: 239.043 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 220.86 Mbit/s
95th percentile per-packet one-way delay: 252.106 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 243.276 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 55.28 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 1.69%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 15:24:08

End at: 2018-05-25 15:24:38

Local clock offset: 0.033 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-25 20:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.52 Mbit/s

95th percentile per-packet one-way delay: 100.390 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 87.780 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 193.73 Mbit/s

95th percentile per-packet one-way delay: 80.244 ms

Loss rate: 0.75%

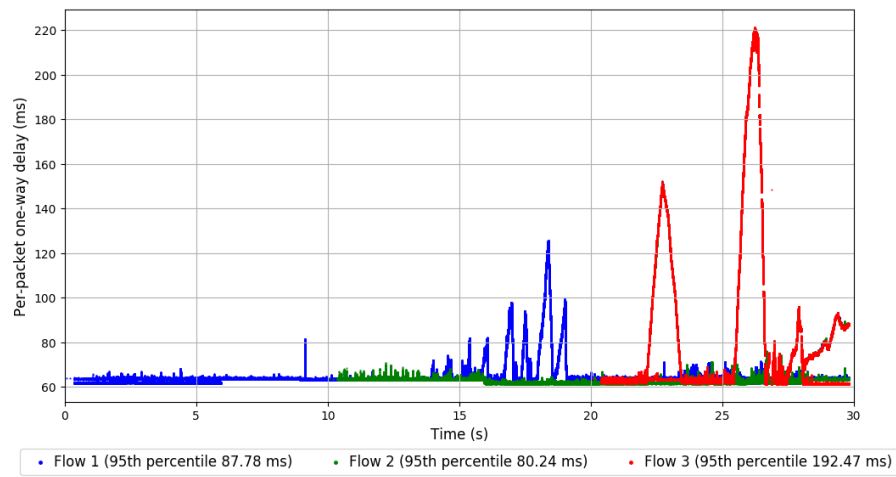
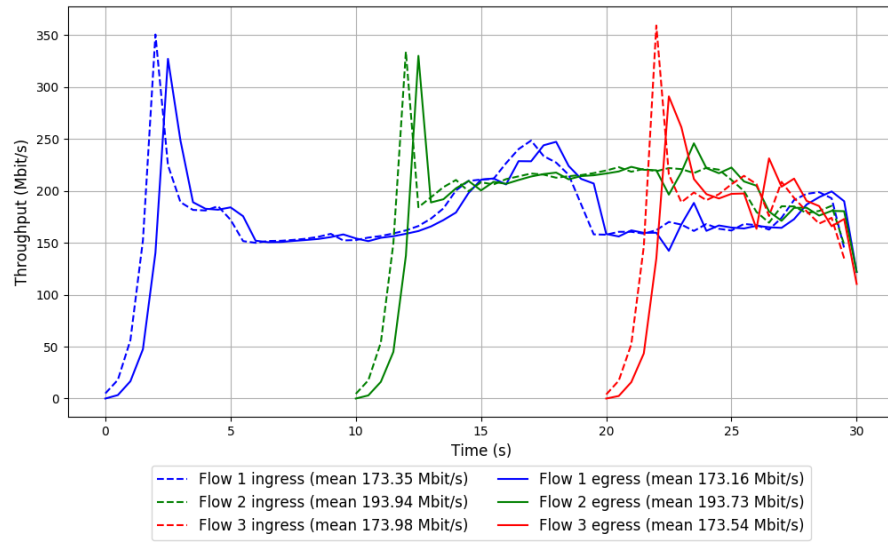
-- Flow 3:

Average throughput: 173.54 Mbit/s

95th percentile per-packet one-way delay: 192.472 ms

Loss rate: 1.55%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 15:47:31

End at: 2018-05-25 15:48:01

Local clock offset: 0.095 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-05-25 20:34:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.61 Mbit/s

95th percentile per-packet one-way delay: 64.723 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 158.10 Mbit/s

95th percentile per-packet one-way delay: 65.233 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 196.23 Mbit/s

95th percentile per-packet one-way delay: 64.476 ms

Loss rate: 0.77%

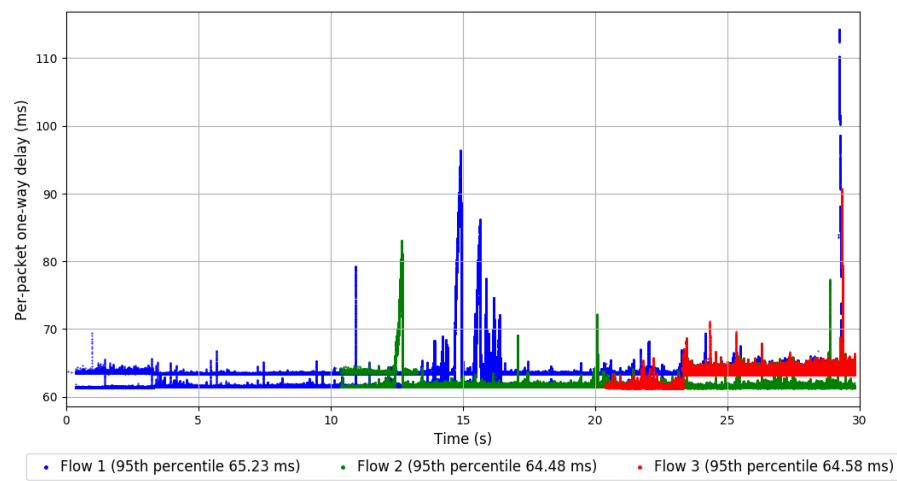
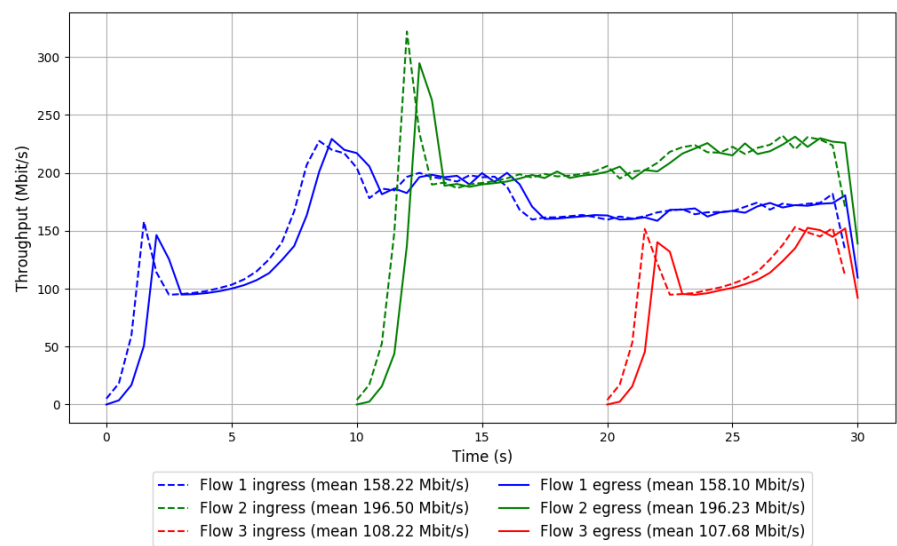
-- Flow 3:

Average throughput: 107.68 Mbit/s

95th percentile per-packet one-way delay: 64.575 ms

Loss rate: 1.75%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 16:10:54

End at: 2018-05-25 16:11:24

Local clock offset: 0.029 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-05-25 20:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.93 Mbit/s

95th percentile per-packet one-way delay: 203.917 ms

Loss rate: 11.26%

-- Flow 1:

Average throughput: 338.43 Mbit/s

95th percentile per-packet one-way delay: 212.216 ms

Loss rate: 10.38%

-- Flow 2:

Average throughput: 240.14 Mbit/s

95th percentile per-packet one-way delay: 198.757 ms

Loss rate: 13.06%

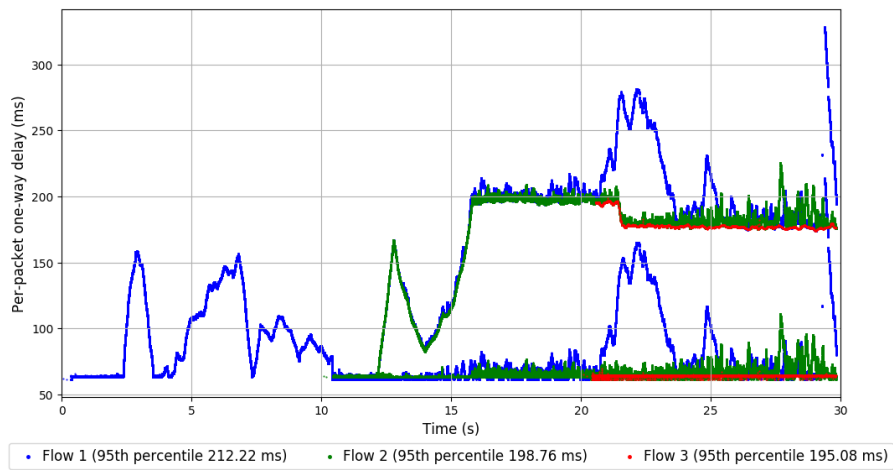
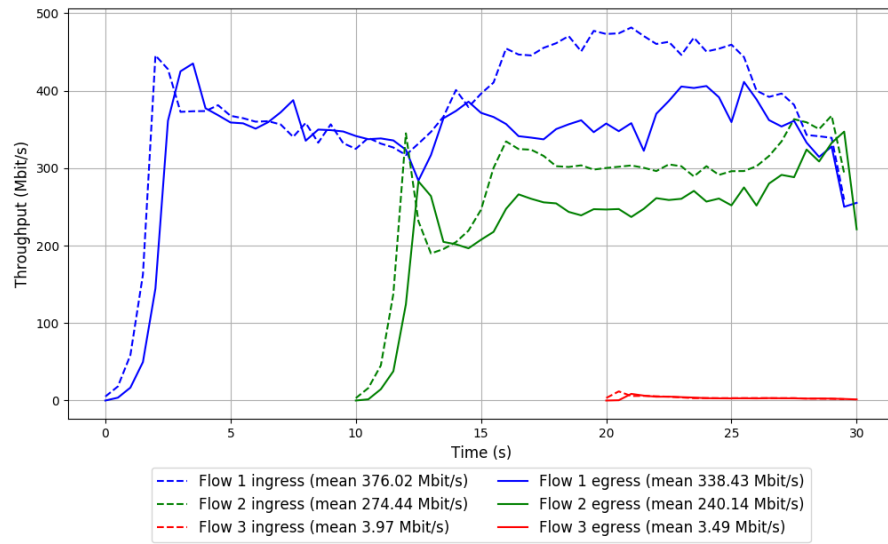
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 195.082 ms

Loss rate: 13.32%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 16:34:13

End at: 2018-05-25 16:34:43

Local clock offset: -0.041 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2018-05-25 20:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.21 Mbit/s

95th percentile per-packet one-way delay: 326.725 ms

Loss rate: 13.05%

-- Flow 1:

Average throughput: 317.70 Mbit/s

95th percentile per-packet one-way delay: 330.484 ms

Loss rate: 14.99%

-- Flow 2:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 194.205 ms

Loss rate: 1.34%

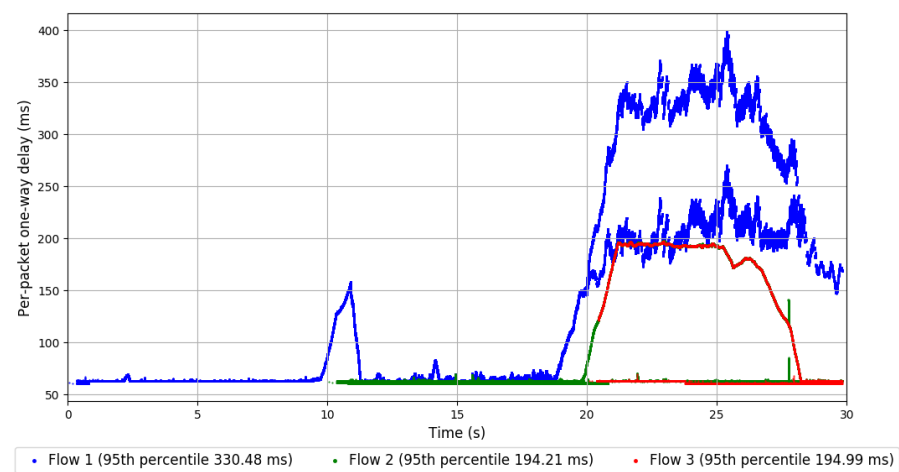
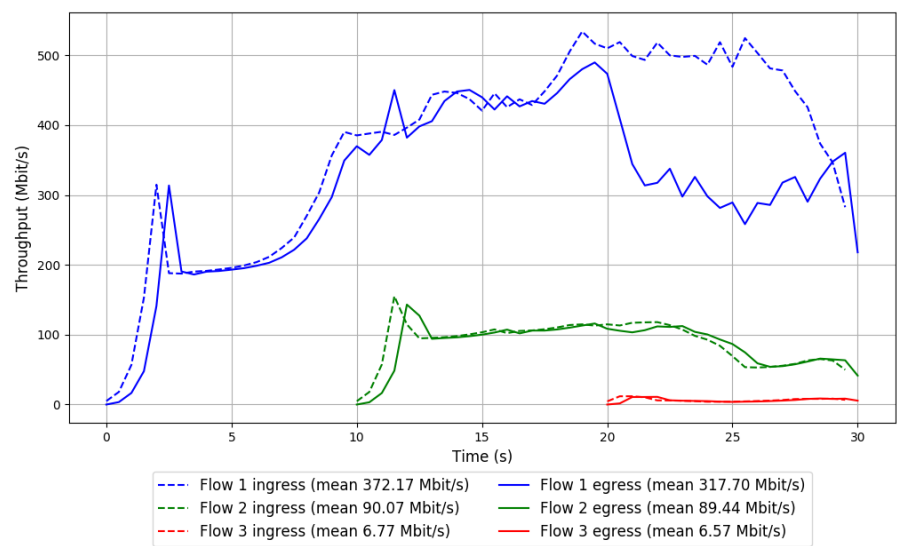
-- Flow 3:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 194.988 ms

Loss rate: 4.16%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 16:57:30

End at: 2018-05-25 16:58:00

Local clock offset: -0.045 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-25 20:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 348.25 Mbit/s

95th percentile per-packet one-way delay: 133.694 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 200.82 Mbit/s

95th percentile per-packet one-way delay: 72.151 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 174.80 Mbit/s

95th percentile per-packet one-way delay: 191.409 ms

Loss rate: 0.65%

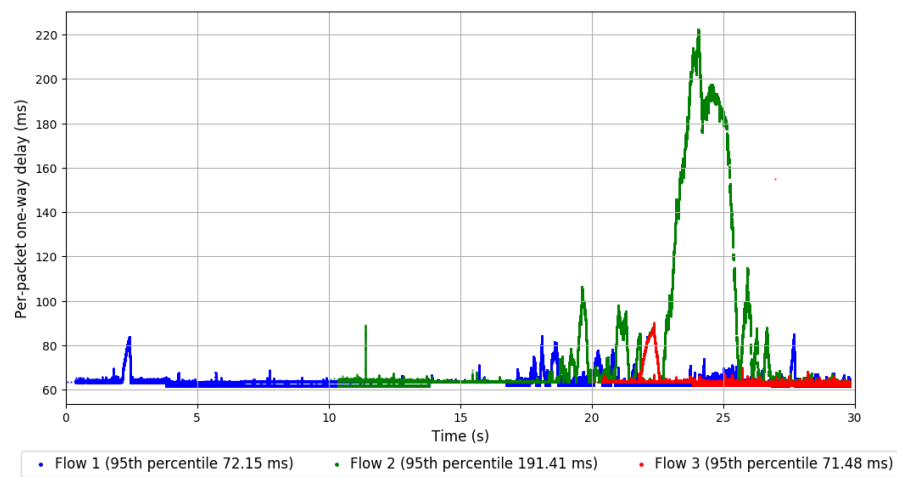
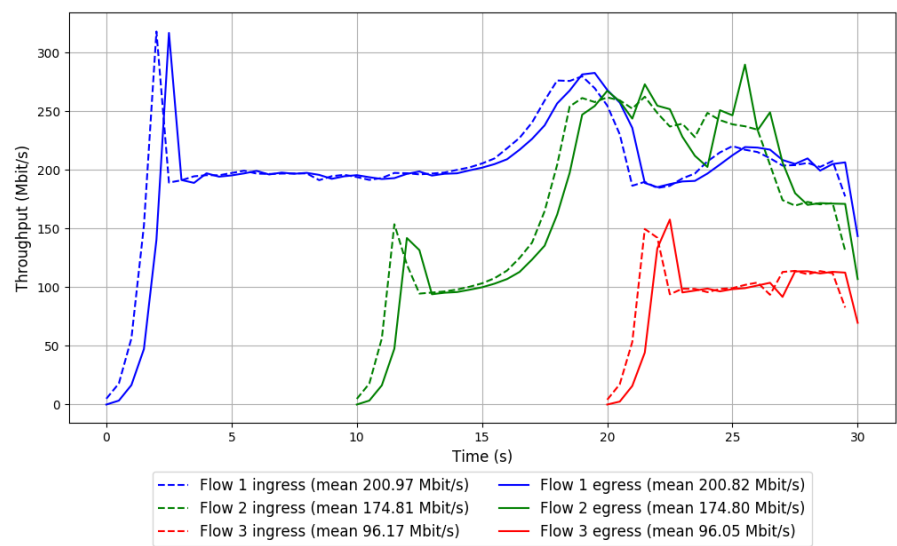
-- Flow 3:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 71.483 ms

Loss rate: 1.43%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 17:20:42

End at: 2018-05-25 17:21:12

Local clock offset: -0.063 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-05-25 20:48:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.63 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 189.13 Mbit/s

95th percentile per-packet one-way delay: 68.830 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 1.02%

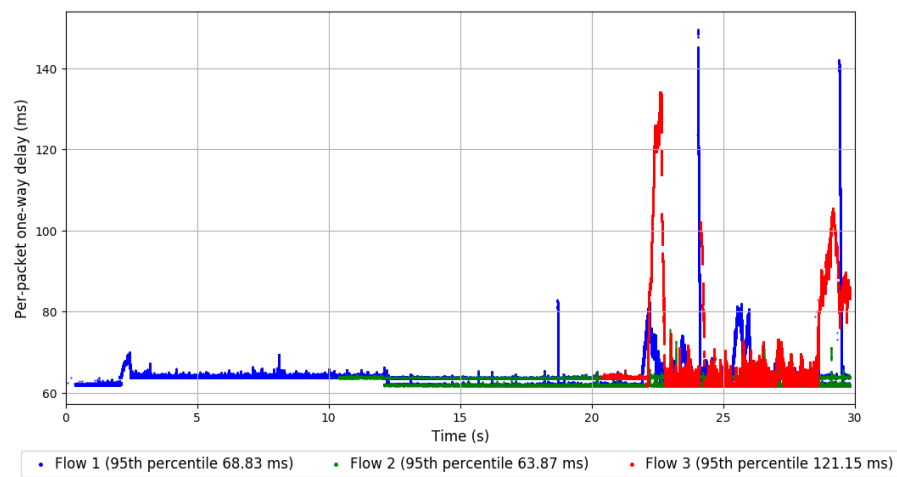
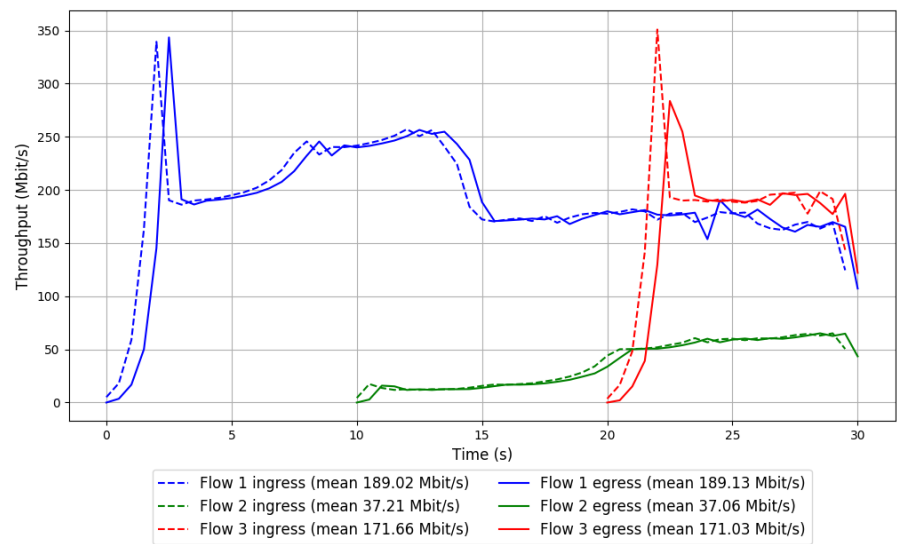
-- Flow 3:

Average throughput: 171.03 Mbit/s

95th percentile per-packet one-way delay: 121.148 ms

Loss rate: 1.64%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 17:43:56

End at: 2018-05-25 17:44:26

Local clock offset: -0.061 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 413.73 Mbit/s

95th percentile per-packet one-way delay: 184.046 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 251.82 Mbit/s

95th percentile per-packet one-way delay: 197.580 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 195.40 Mbit/s

95th percentile per-packet one-way delay: 68.389 ms

Loss rate: 0.71%

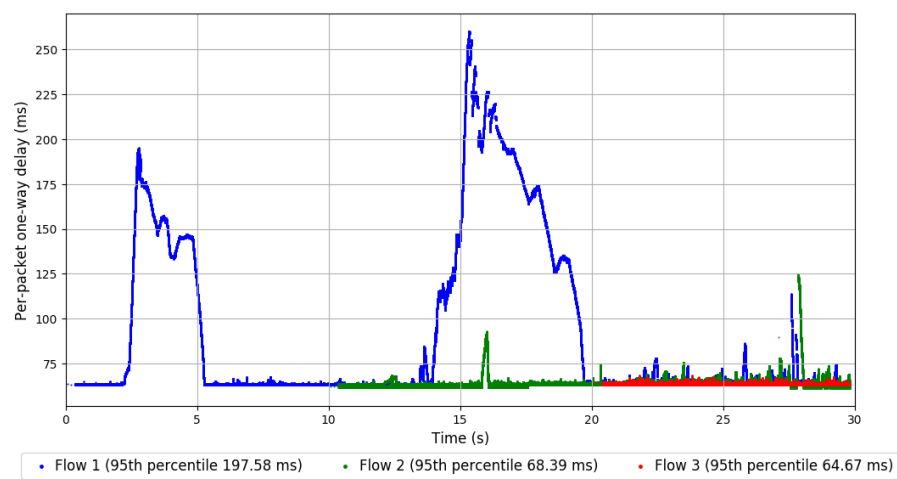
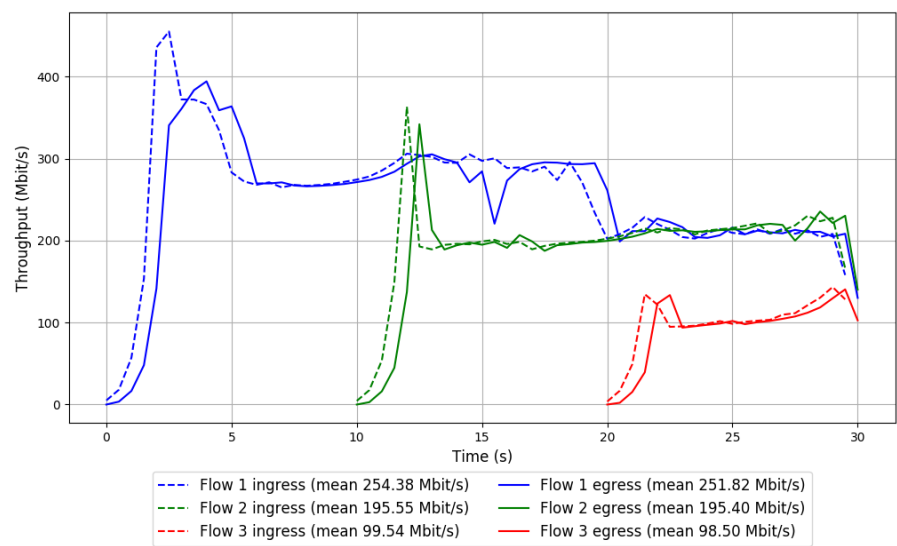
-- Flow 3:

Average throughput: 98.50 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 2.31%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 18:07:32

End at: 2018-05-25 18:08:02

Local clock offset: -0.087 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.43 Mbit/s

95th percentile per-packet one-way delay: 202.700 ms

Loss rate: 2.68%

-- Flow 1:

Average throughput: 230.55 Mbit/s

95th percentile per-packet one-way delay: 206.265 ms

Loss rate: 3.38%

-- Flow 2:

Average throughput: 113.41 Mbit/s

95th percentile per-packet one-way delay: 64.998 ms

Loss rate: 0.82%

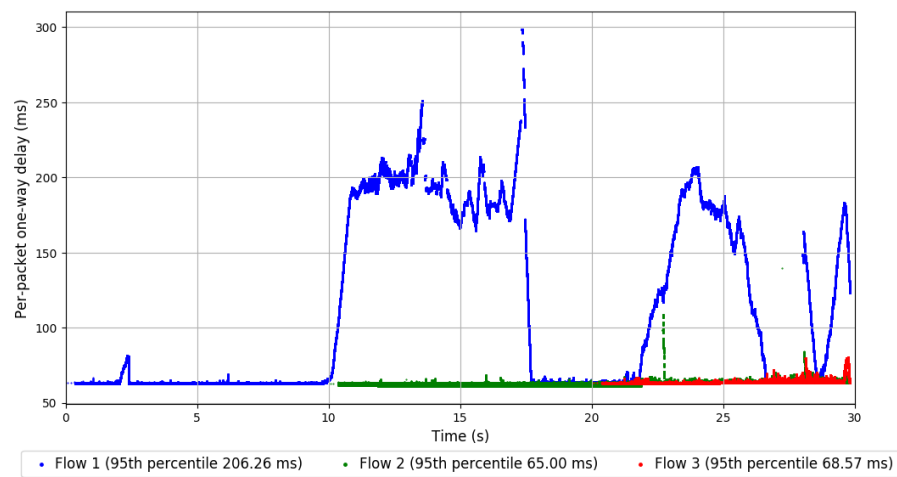
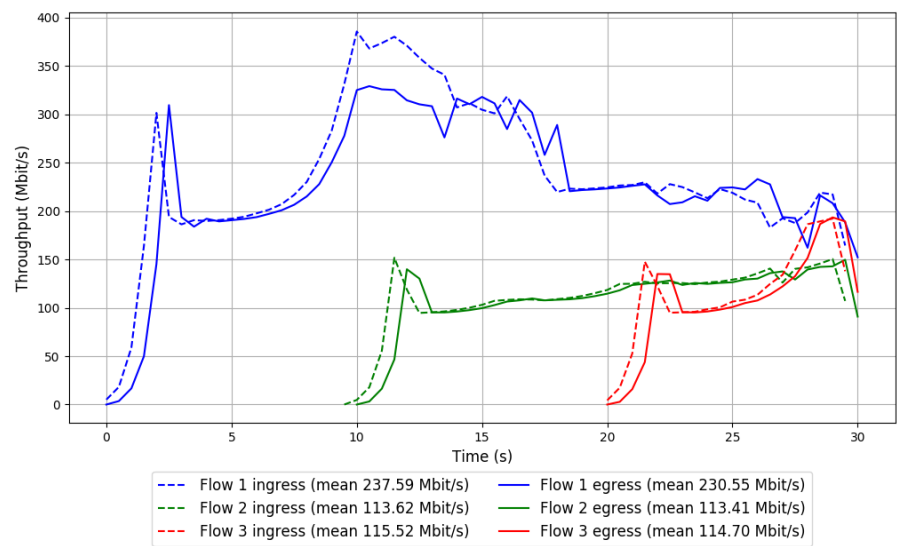
-- Flow 3:

Average throughput: 114.70 Mbit/s

95th percentile per-packet one-way delay: 68.568 ms

Loss rate: 1.99%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 14:57:33

End at: 2018-05-25 14:58:03

Local clock offset: 0.004 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 63.536 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 43.17 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 63.406 ms

Loss rate: 1.82%

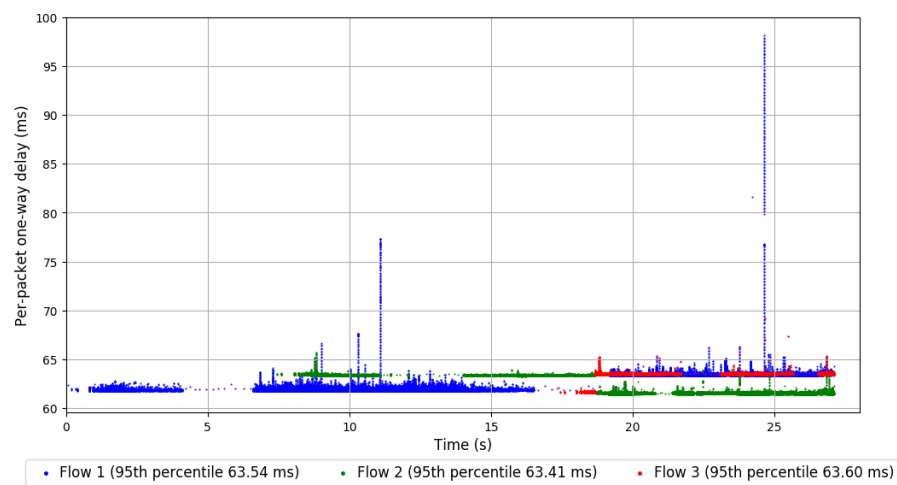
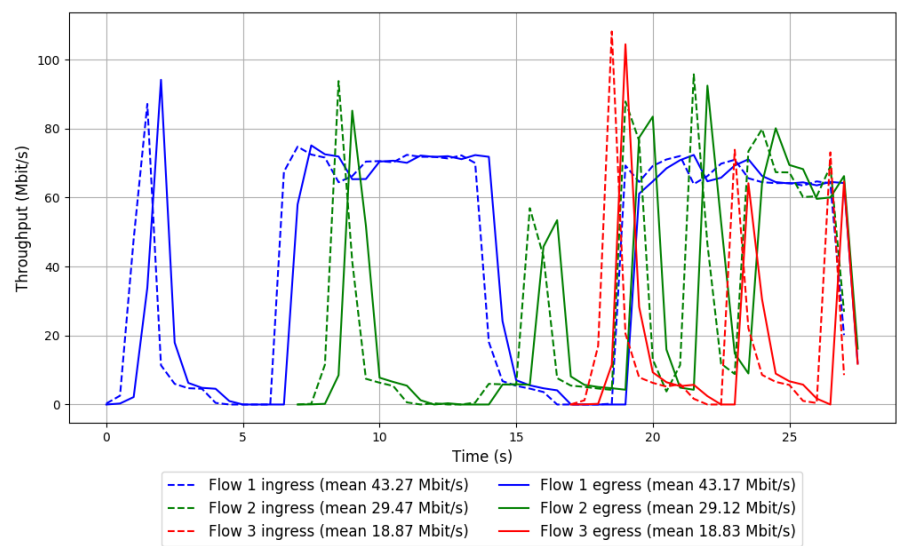
-- Flow 3:

Average throughput: 18.83 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 1.51%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 15:20:51

End at: 2018-05-25 15:21:21

Local clock offset: 0.037 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.36 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 63.364 ms

Loss rate: 1.19%

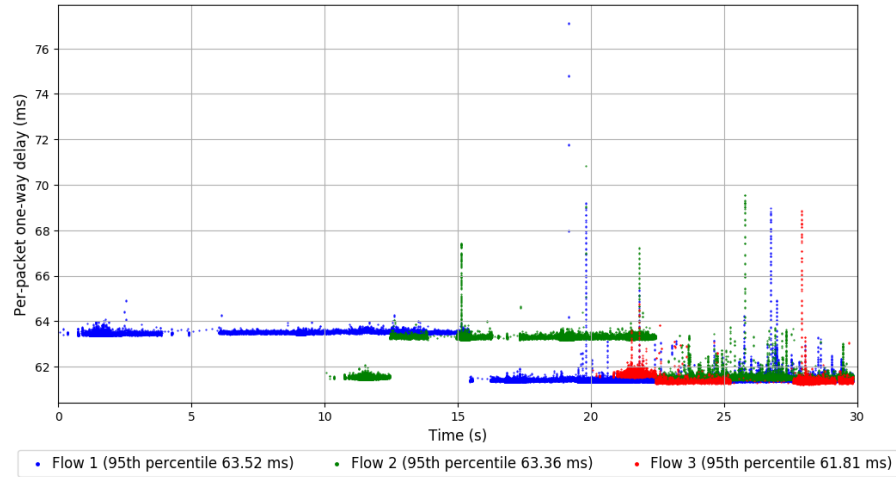
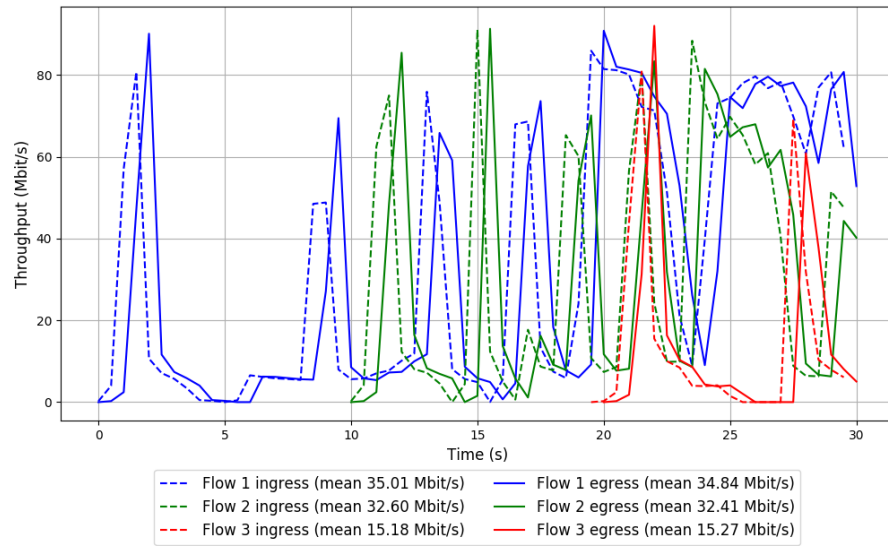
-- Flow 3:

Average throughput: 15.27 Mbit/s

95th percentile per-packet one-way delay: 61.809 ms

Loss rate: 0.66%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 15:44:13

End at: 2018-05-25 15:44:43

Local clock offset: 0.096 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.89 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 47.22 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 22.92 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 2.09%

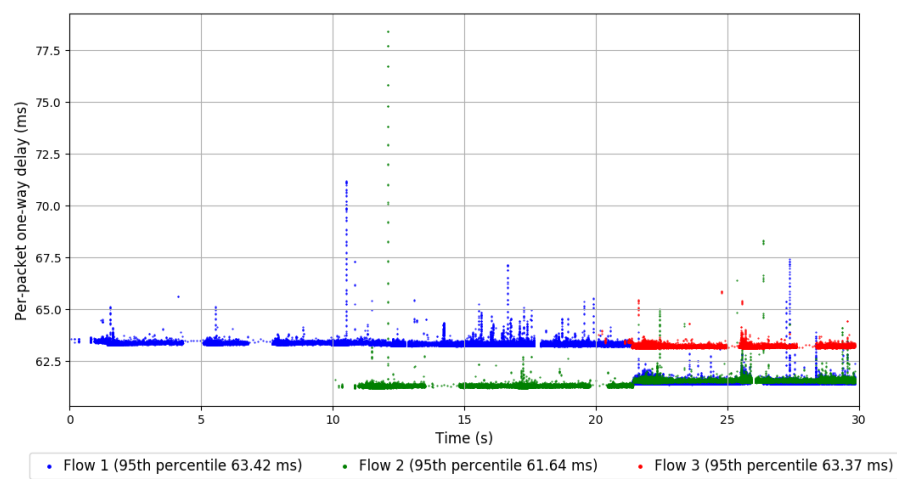
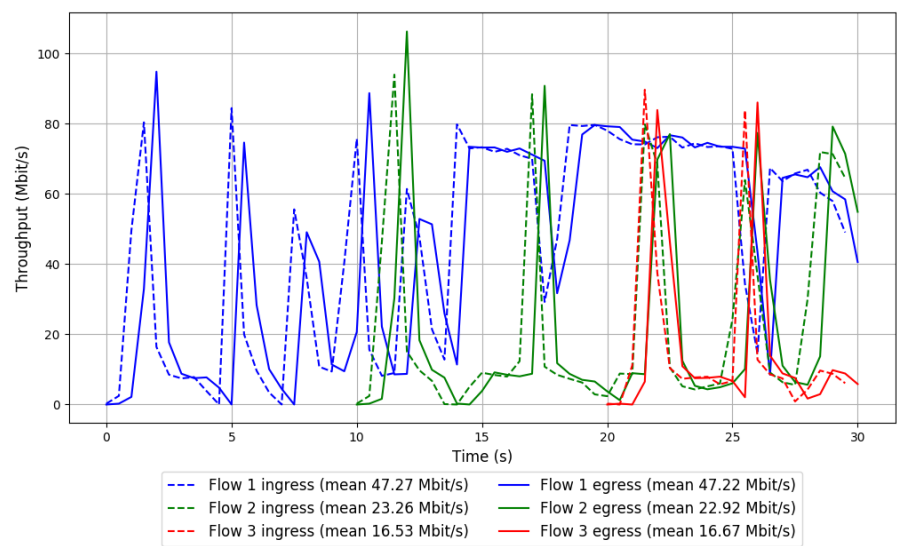
-- Flow 3:

Average throughput: 16.67 Mbit/s

95th percentile per-packet one-way delay: 63.368 ms

Loss rate: 0.42%

Run 3: Report of QUIC Cubic — Data Link

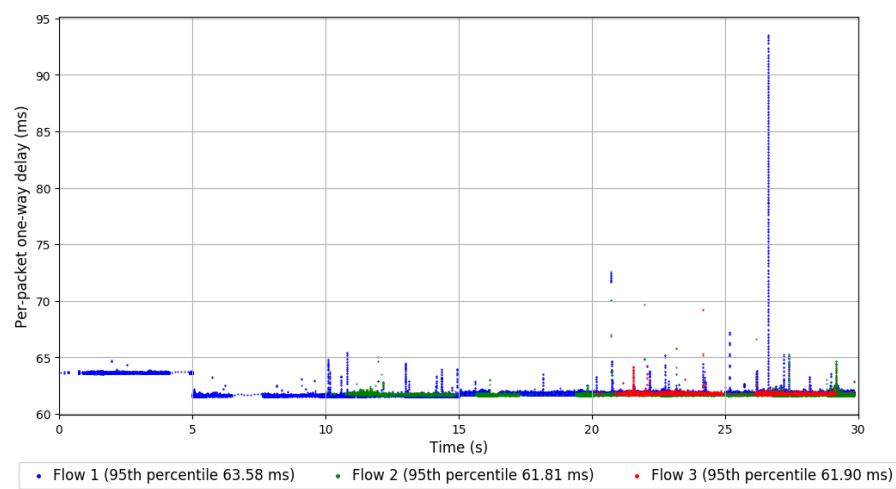
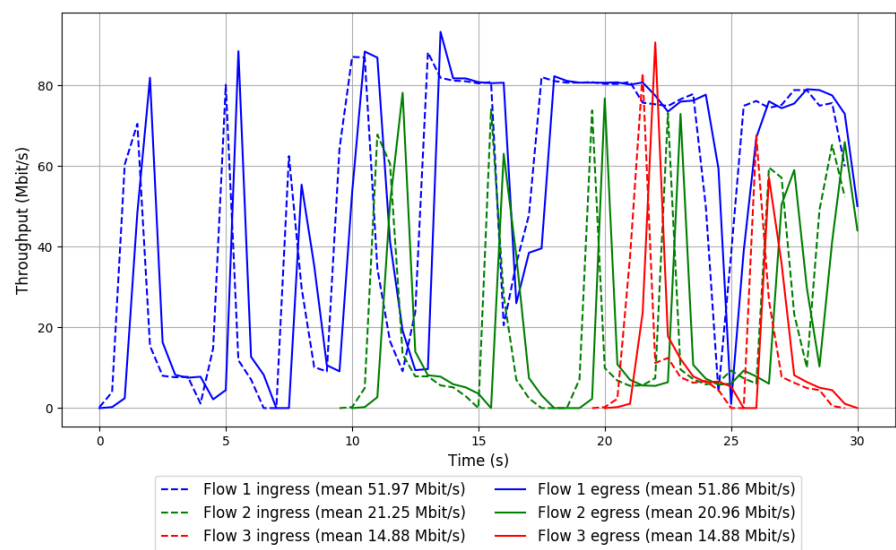


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 16:07:32
End at: 2018-05-25 16:08:02
Local clock offset: 0.09 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-05-25 20:49:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.65 Mbit/s
95th percentile per-packet one-way delay: 62.070 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 51.86 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 61.807 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 61.895 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 16:30:53

End at: 2018-05-25 16:31:23

Local clock offset: -0.02 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 44.39 Mbit/s

95th percentile per-packet one-way delay: 63.727 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 31.78 Mbit/s

95th percentile per-packet one-way delay: 63.296 ms

Loss rate: 0.25%

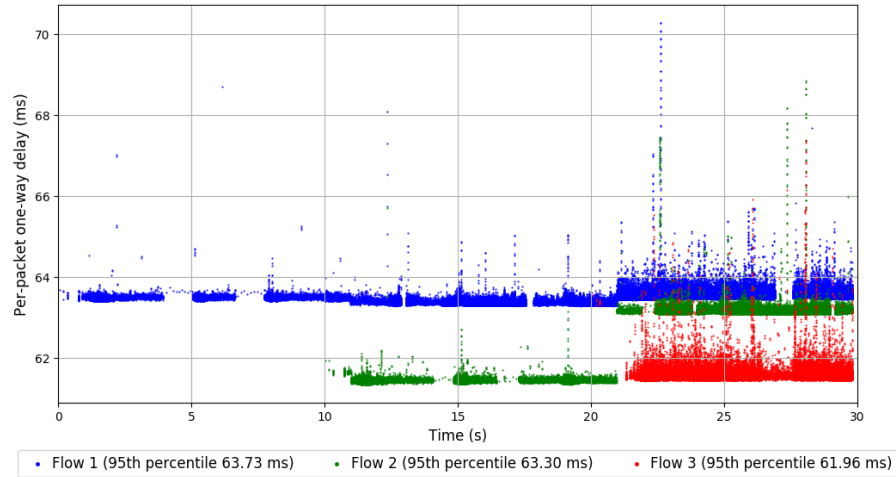
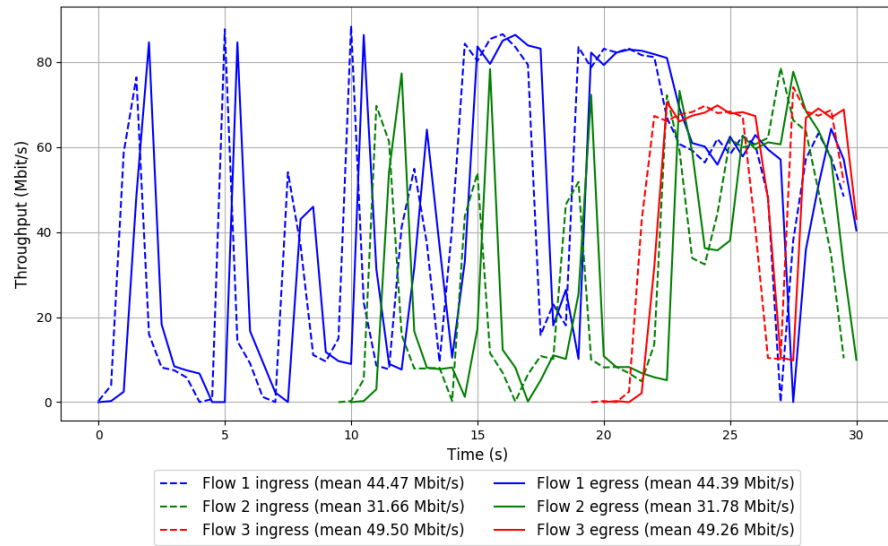
-- Flow 3:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 61.957 ms

Loss rate: 1.75%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 16:54:15

End at: 2018-05-25 16:54:45

Local clock offset: -0.037 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.66 Mbit/s

95th percentile per-packet one-way delay: 63.698 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 46.23 Mbit/s

95th percentile per-packet one-way delay: 63.742 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 21.82 Mbit/s

95th percentile per-packet one-way delay: 63.535 ms

Loss rate: 1.93%

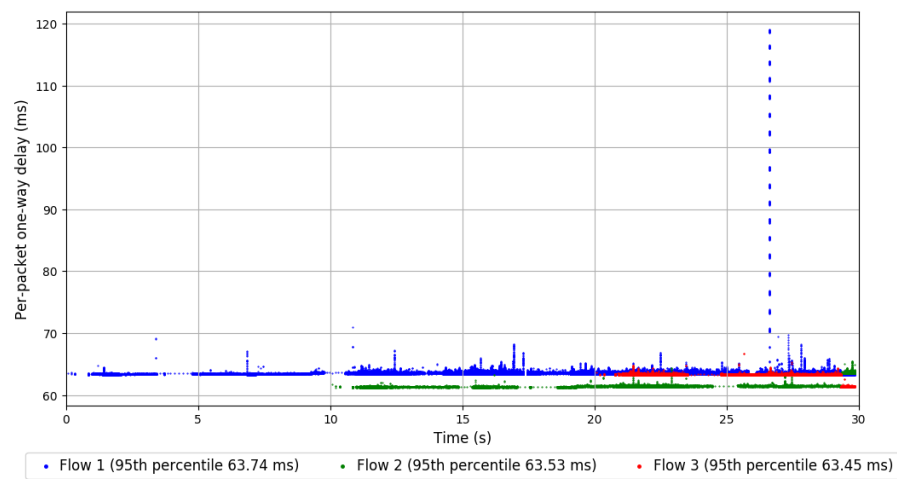
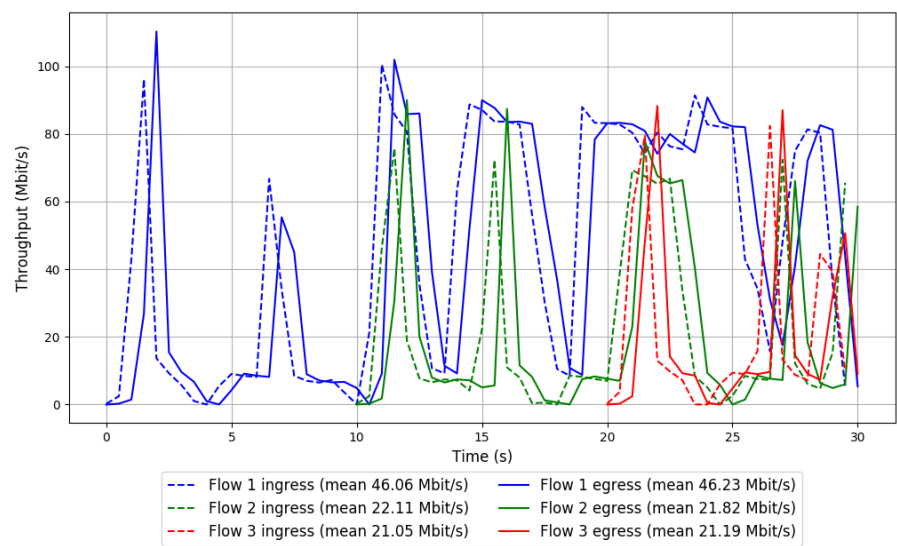
-- Flow 3:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 0.62%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 17:17:24

End at: 2018-05-25 17:17:54

Local clock offset: -0.058 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.01 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 63.686 ms

Loss rate: 1.70%

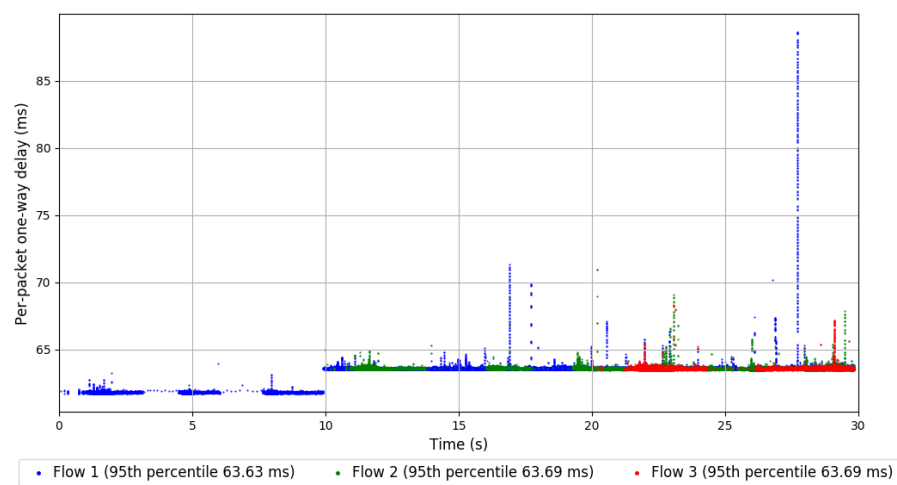
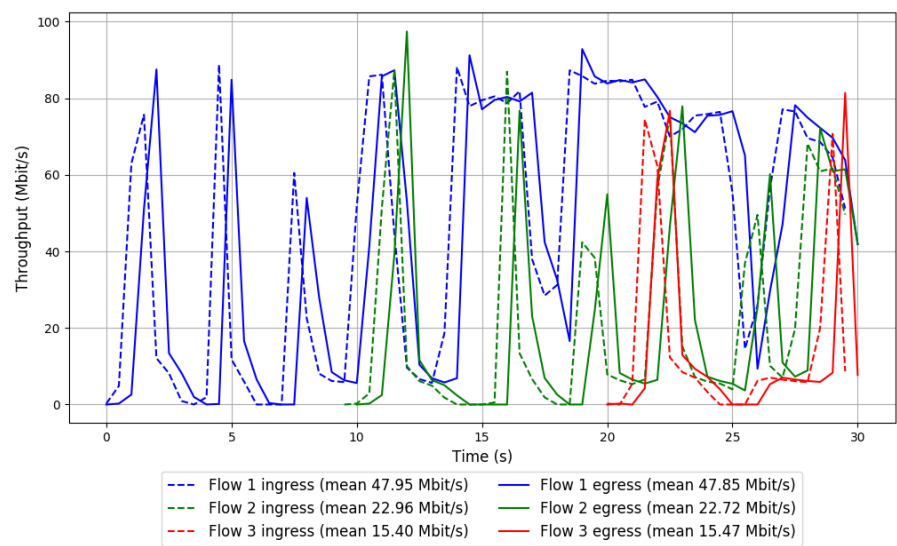
-- Flow 3:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.88%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 17:40:37

End at: 2018-05-25 17:41:07

Local clock offset: -0.073 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 63.640 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 63.832 ms

Loss rate: 1.45%

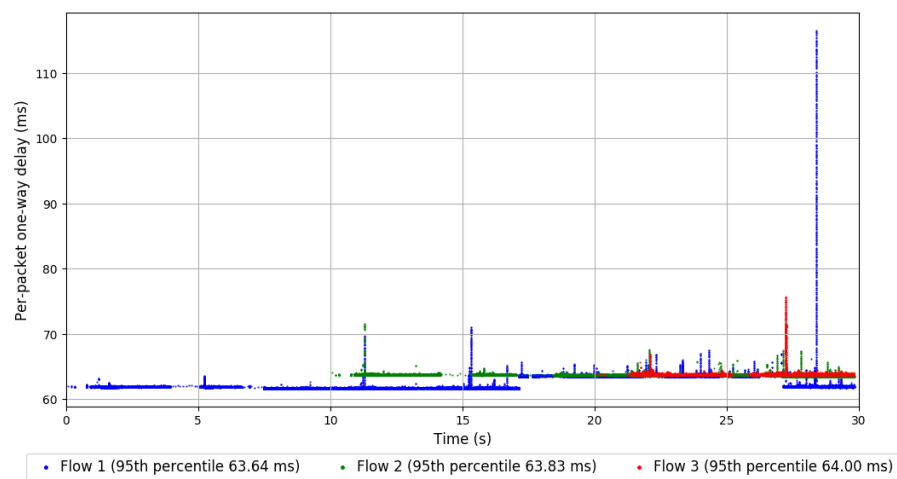
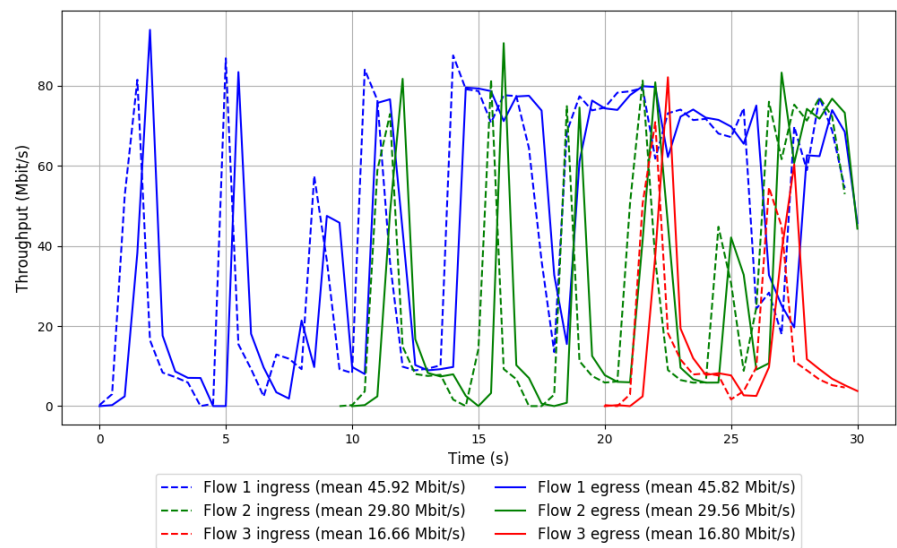
-- Flow 3:

Average throughput: 16.80 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.48%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 18:04:17

End at: 2018-05-25 18:04:47

Local clock offset: -0.063 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 47.41 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 63.566 ms

Loss rate: 0.33%

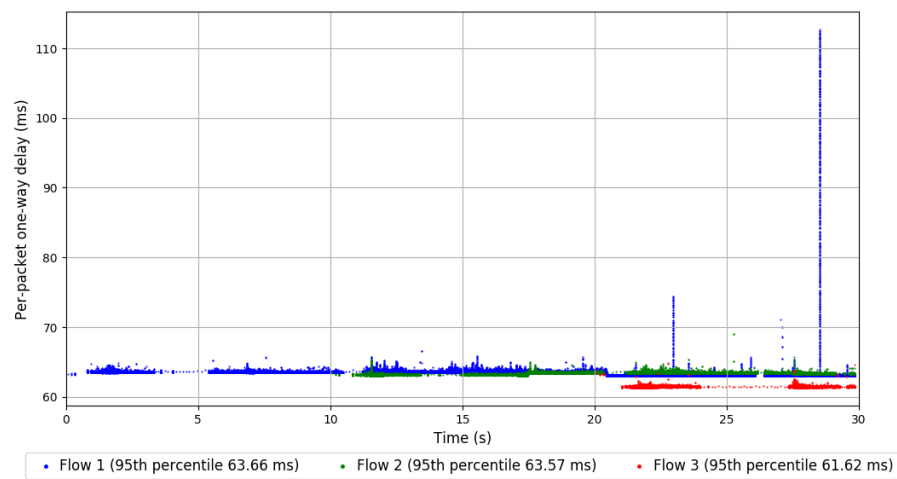
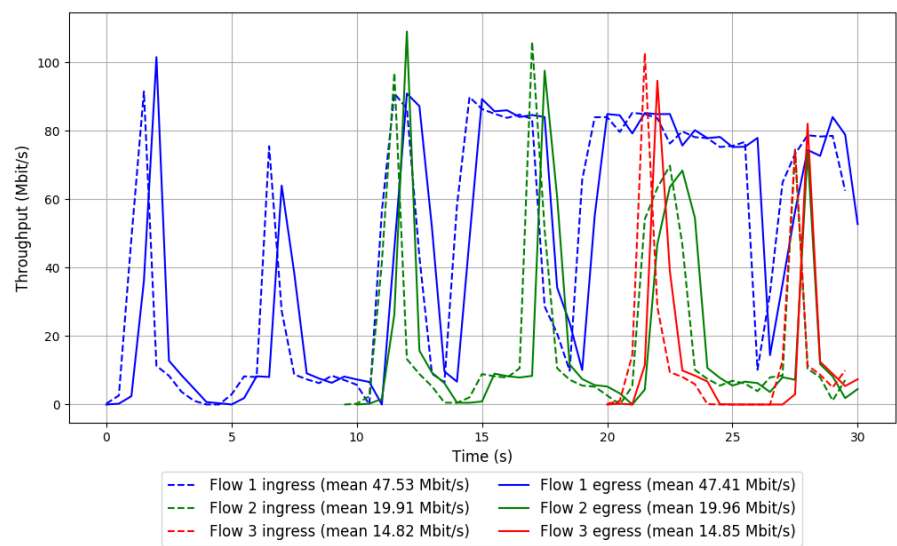
-- Flow 3:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 61.625 ms

Loss rate: 1.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 18:27:30

End at: 2018-05-25 18:28:00

Local clock offset: -0.104 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-05-25 20:49:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.65 Mbit/s

95th percentile per-packet one-way delay: 63.287 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 47.30 Mbit/s

95th percentile per-packet one-way delay: 63.303 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 18.72 Mbit/s

95th percentile per-packet one-way delay: 61.753 ms

Loss rate: 1.98%

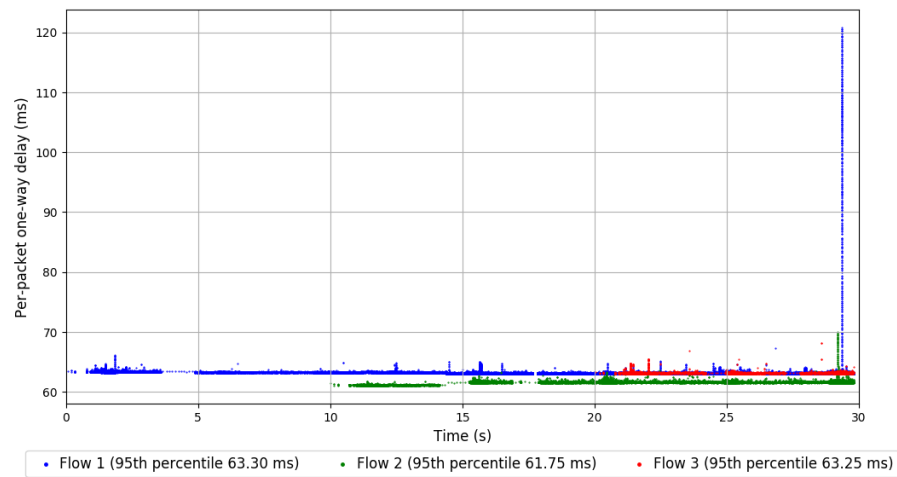
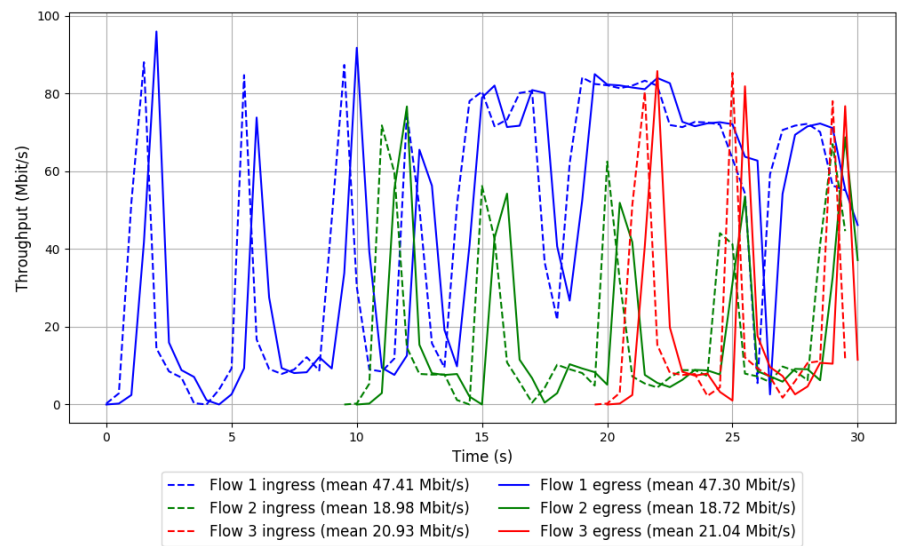
-- Flow 3:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 63.247 ms

Loss rate: 0.79%

Run 10: Report of QUIC Cubic — Data Link

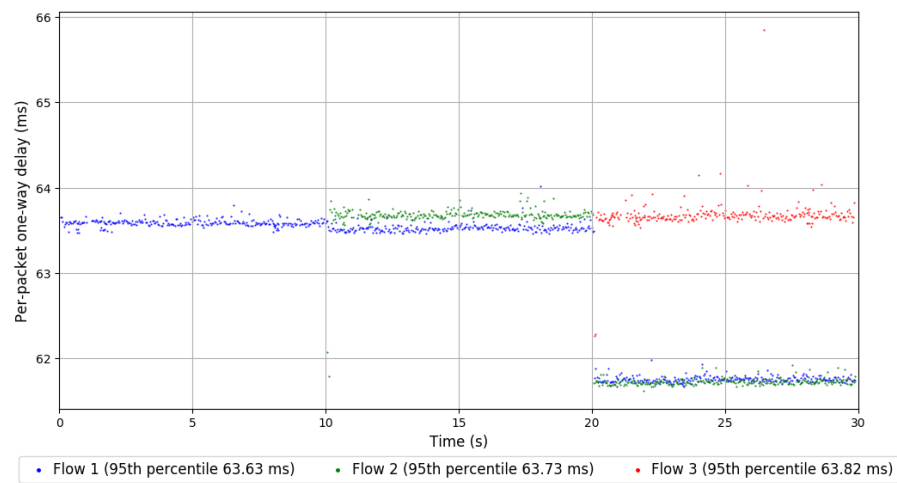
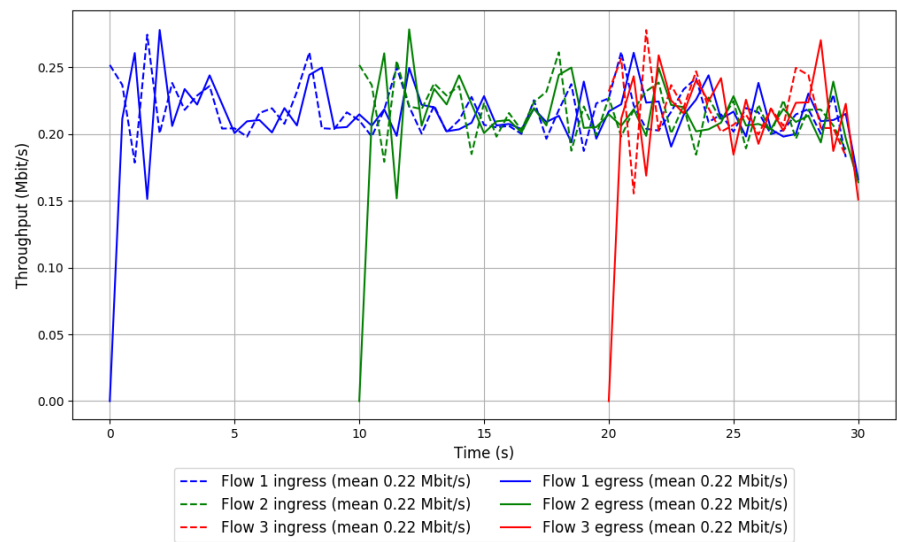


```
Run 1: Statistics of SReAM

Start at: 2018-05-25 14:43:24
End at: 2018-05-25 14:43:54
Local clock offset: -0.015 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.725 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.633 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.734 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.822 ms
Loss rate: 1.10%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-25 15:06:39

End at: 2018-05-25 15:07:09

Local clock offset: 0.045 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 64.044 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.077 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.61%

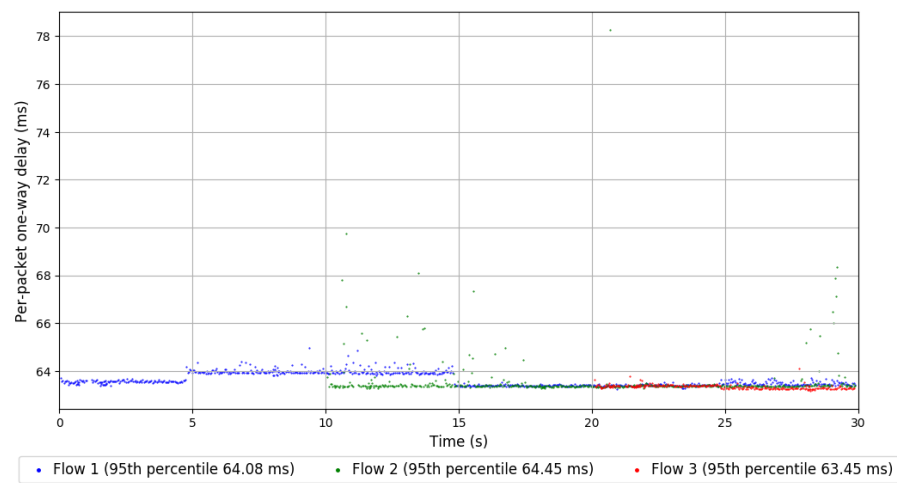
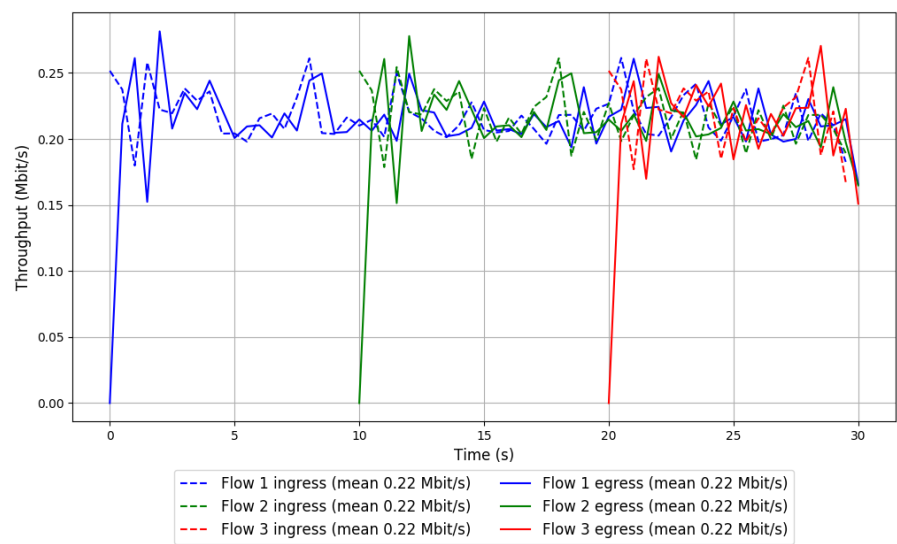
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 1.10%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-25 15:29:56

End at: 2018-05-25 15:30:26

Local clock offset: 0.037 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.697 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.61%

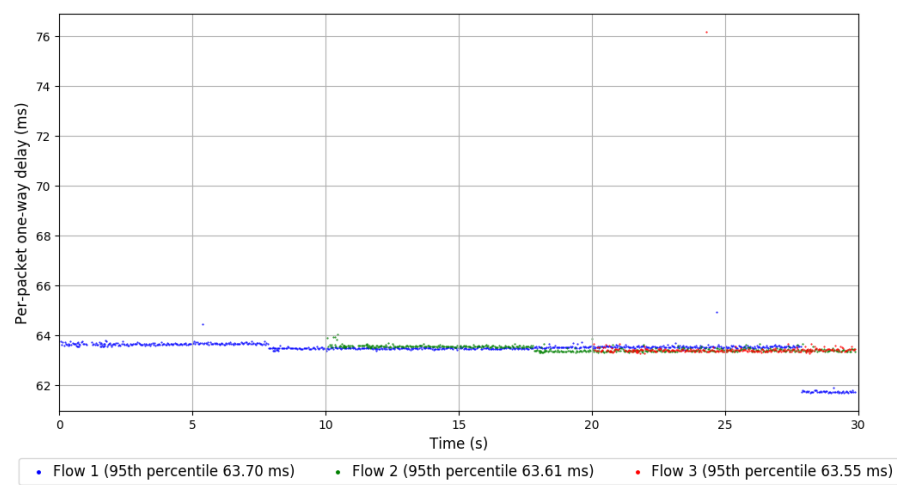
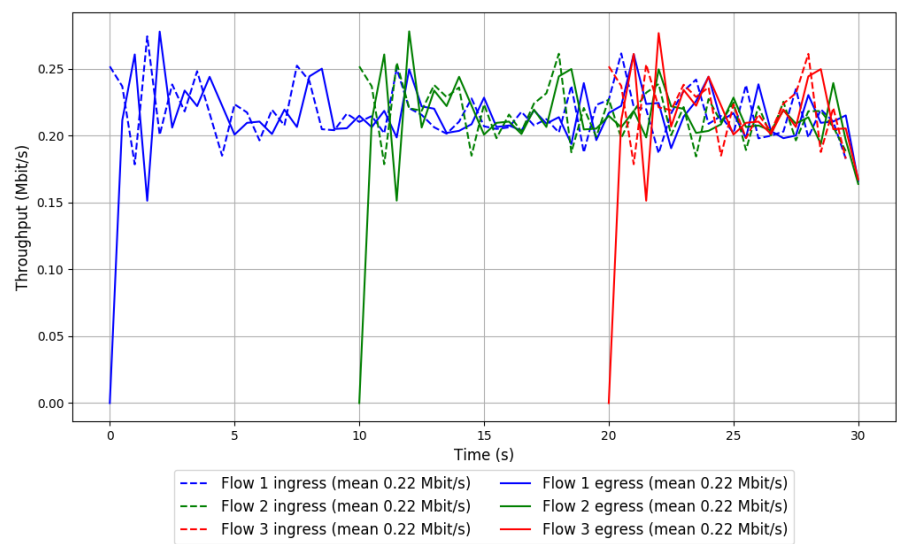
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.553 ms

Loss rate: 1.08%

Run 3: Report of SReAM — Data Link

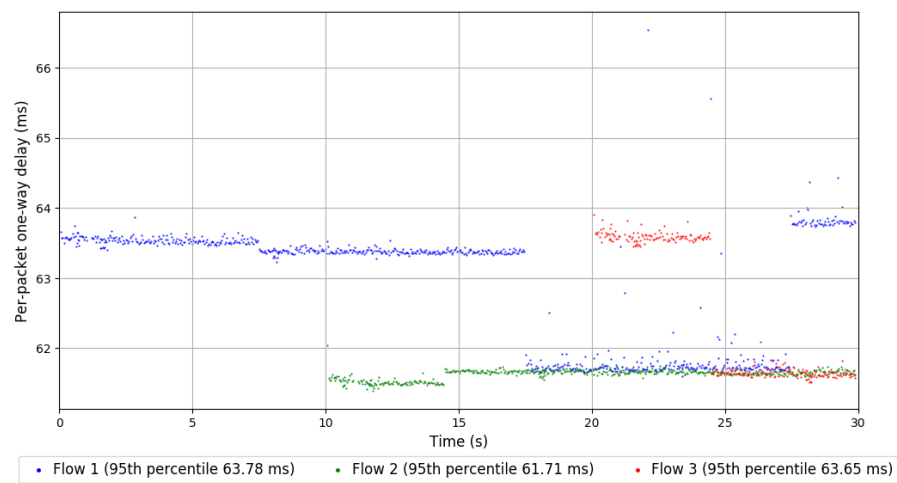
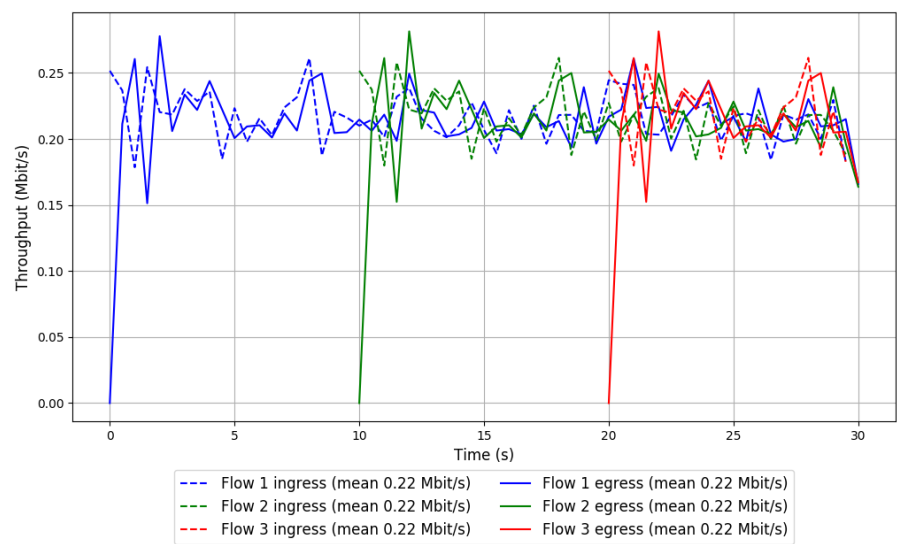


Run 4: Statistics of SReAM

Start at: 2018-05-25 15:53:10
End at: 2018-05-25 15:53:40
Local clock offset: 0.088 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-25 20:49:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.667 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.708 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 1.08%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-25 16:16:47

End at: 2018-05-25 16:17:17

Local clock offset: 0.042 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.570 ms

Loss rate: 0.61%

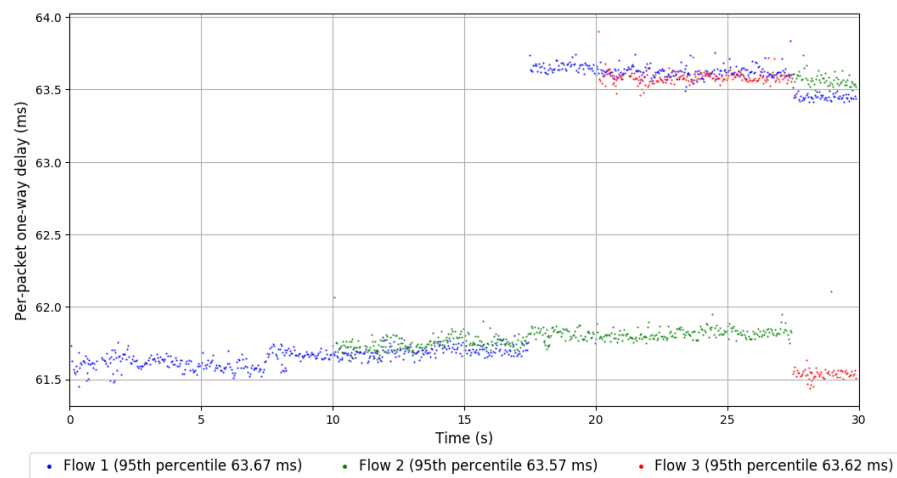
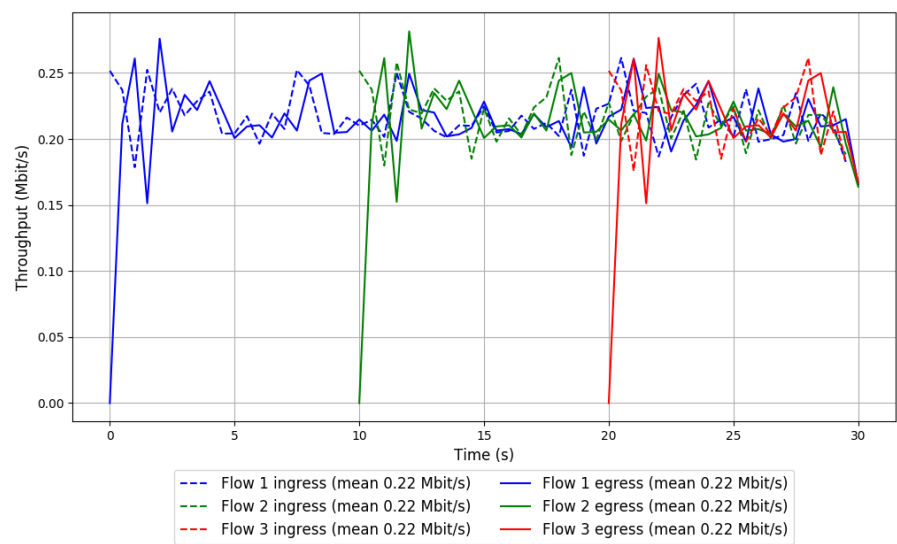
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.625 ms

Loss rate: 1.08%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-25 16:39:54

End at: 2018-05-25 16:40:24

Local clock offset: -0.006 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.746 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.61%

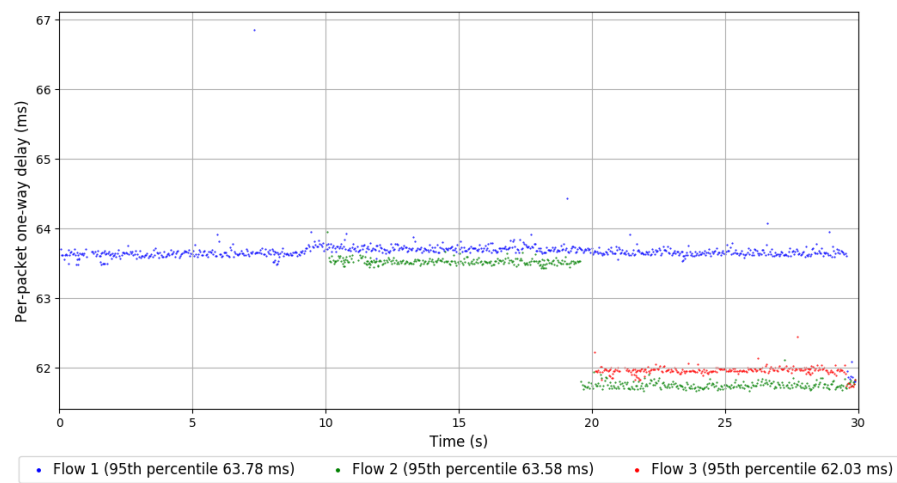
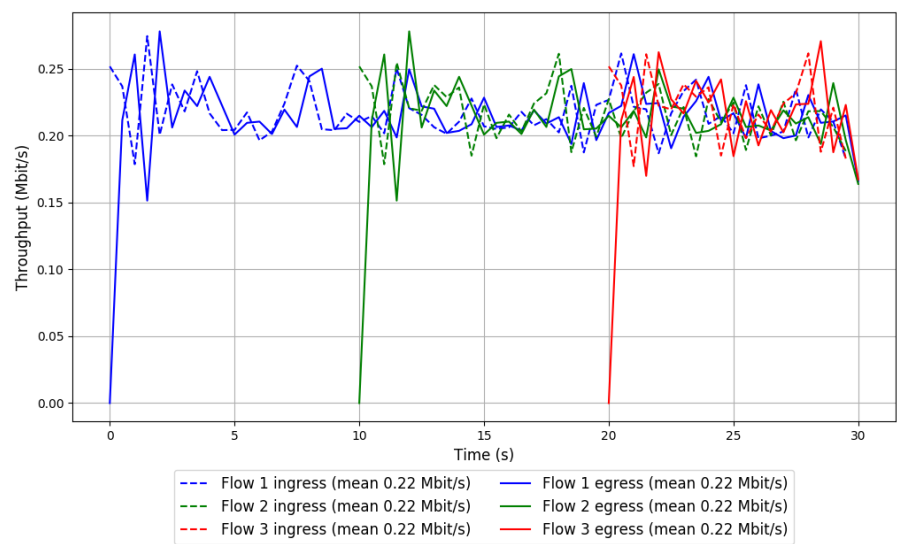
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.028 ms

Loss rate: 1.08%

Run 6: Report of SReAM — Data Link

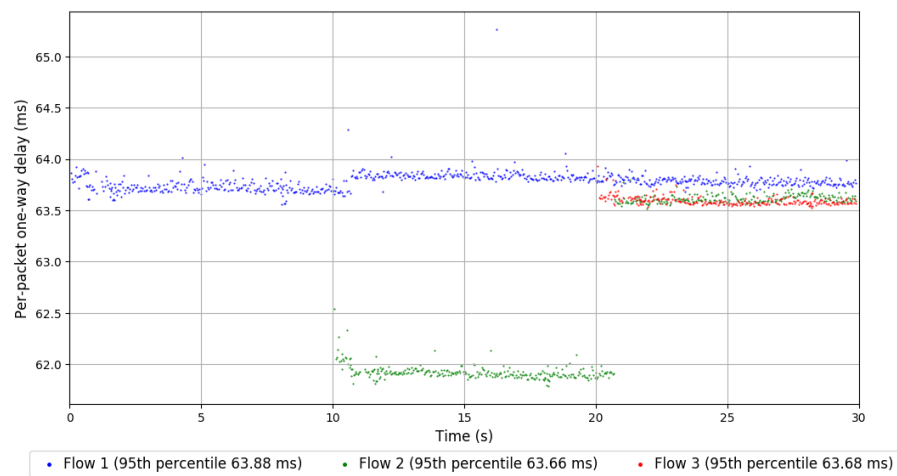
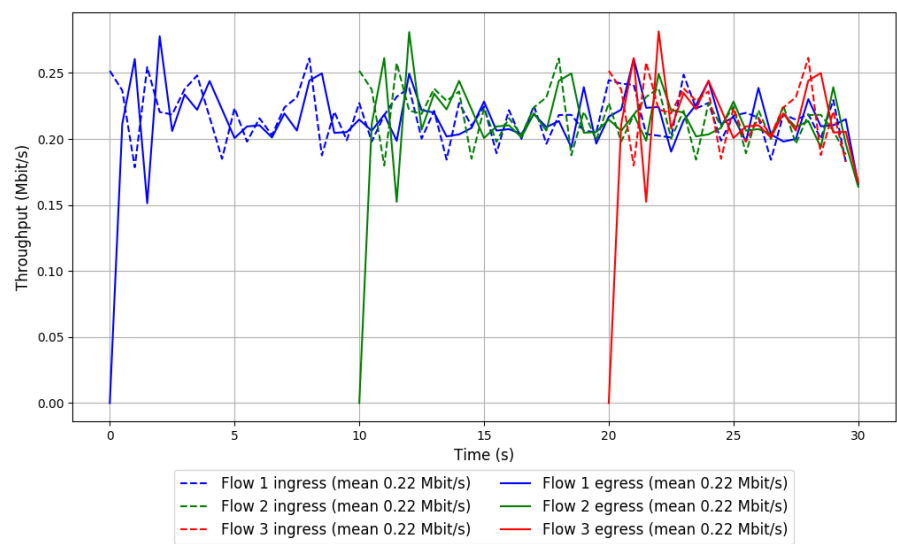


Run 7: Statistics of SReAM

Start at: 2018-05-25 17:03:13
End at: 2018-05-25 17:03:43
Local clock offset: -0.044 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-05-25 20:49:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.862 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.663 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 1.08%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-25 17:26:19

End at: 2018-05-25 17:26:49

Local clock offset: -0.028 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.713 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.61%

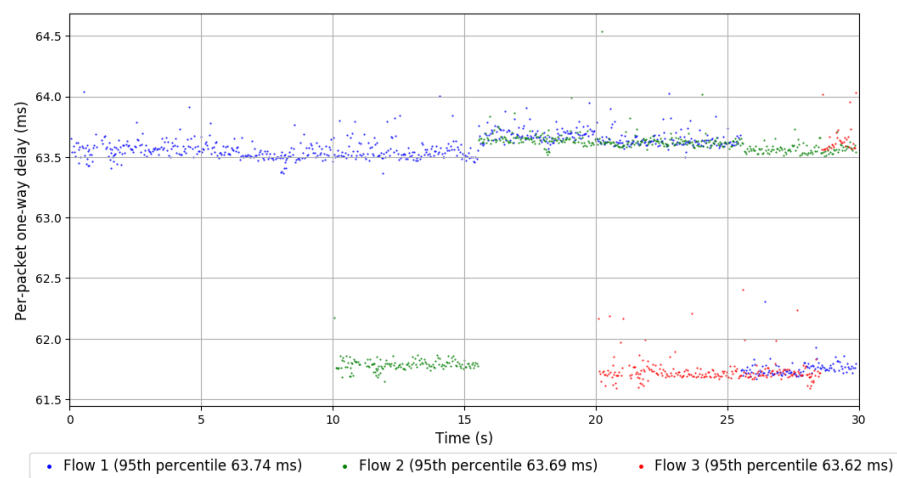
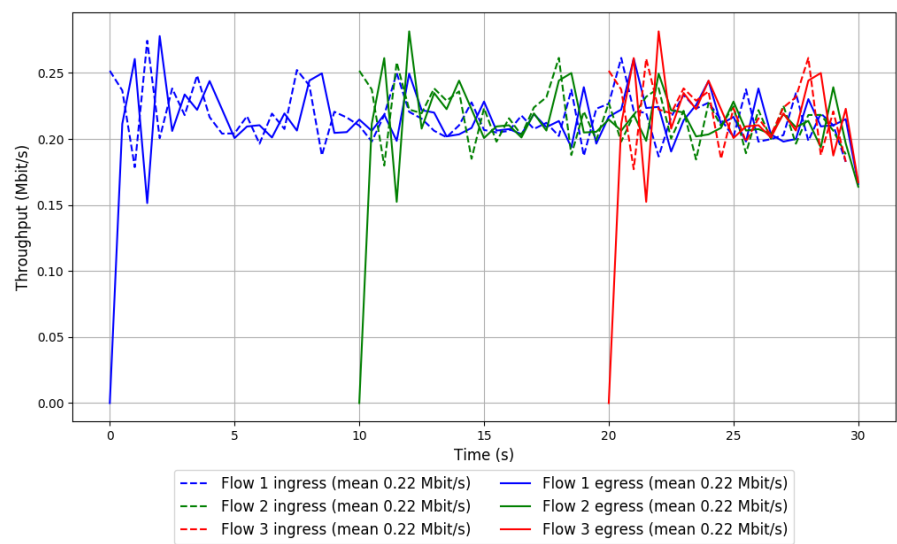
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 1.08%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-25 17:49:52

End at: 2018-05-25 17:50:22

Local clock offset: -0.069 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.350 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.318 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.378 ms

Loss rate: 0.61%

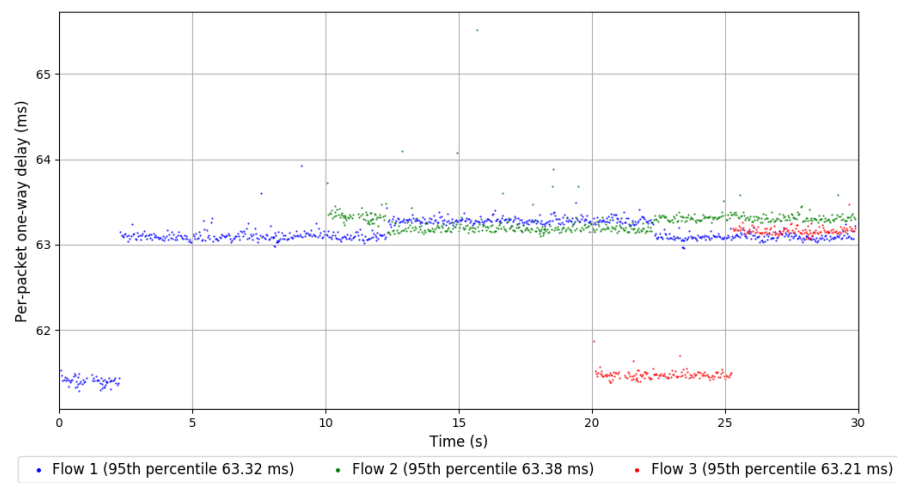
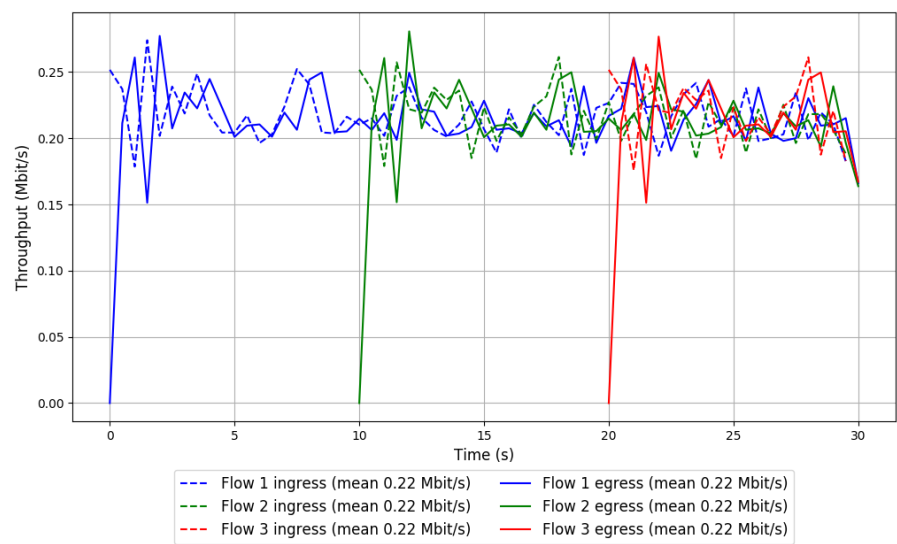
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.210 ms

Loss rate: 1.08%

Run 9: Report of SCSReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-25 18:13:26

End at: 2018-05-25 18:13:56

Local clock offset: -0.081 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.61%

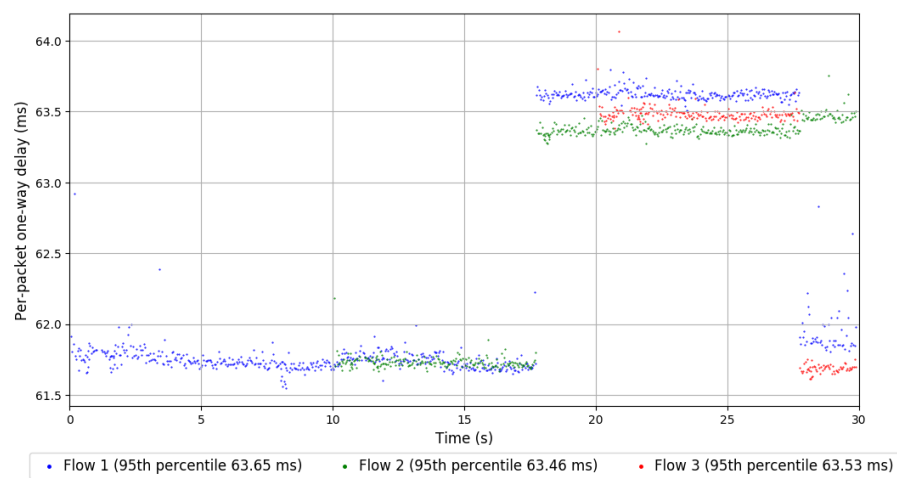
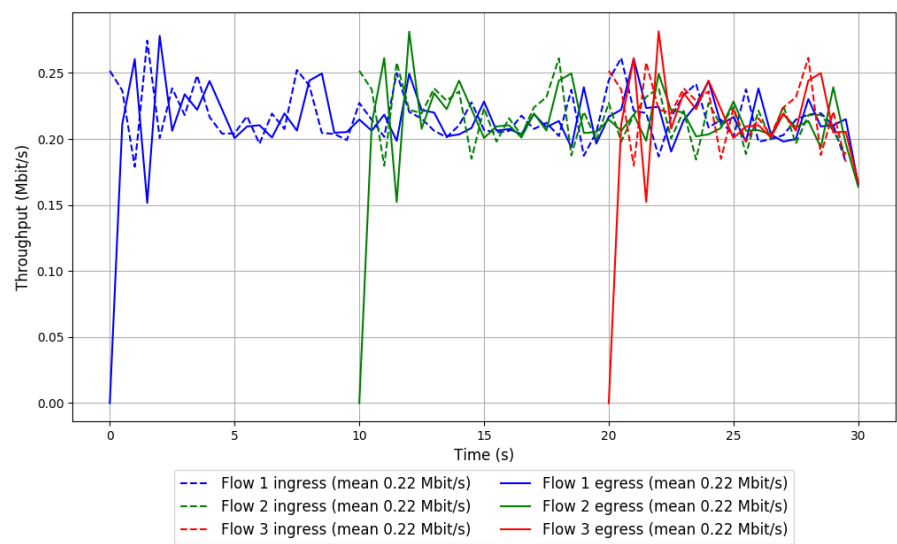
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.534 ms

Loss rate: 1.08%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 14:42:15

End at: 2018-05-25 14:42:45

Local clock offset: 0.001 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 64.177 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.10%

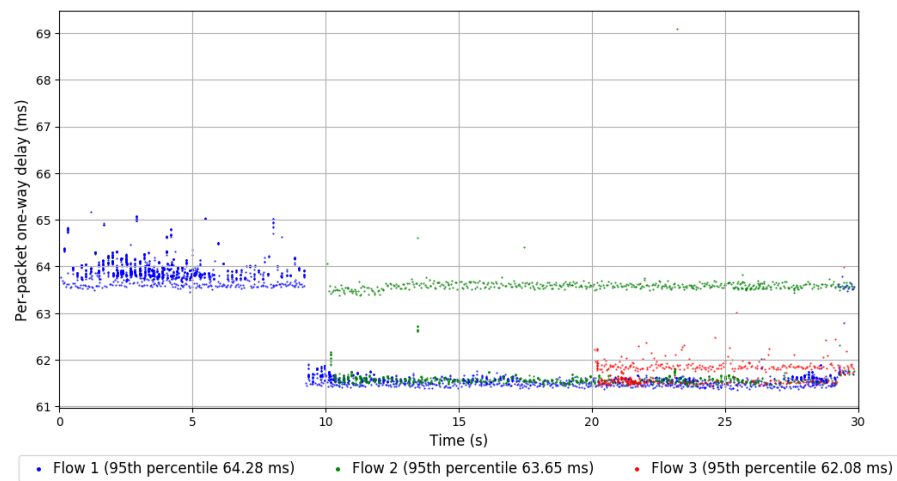
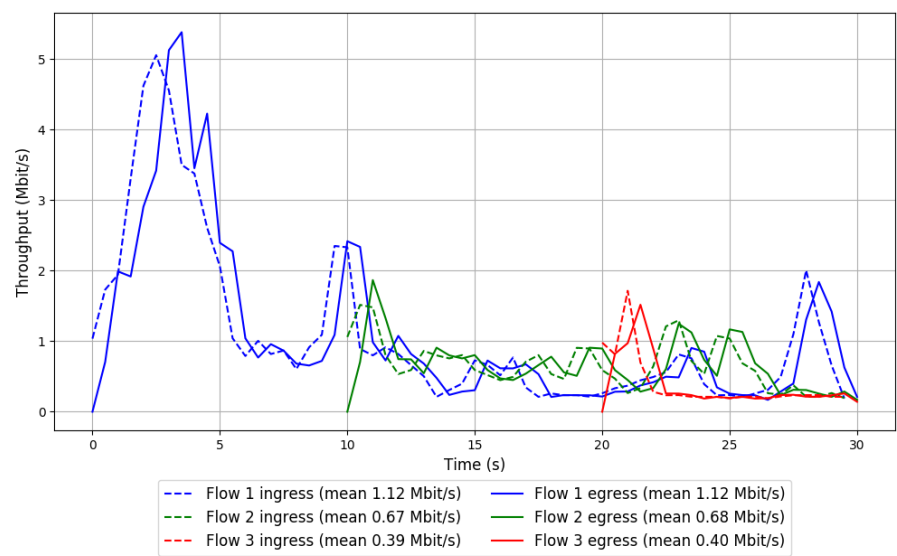
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 62.081 ms

Loss rate: 0.91%

Run 1: Report of Sprout — Data Link

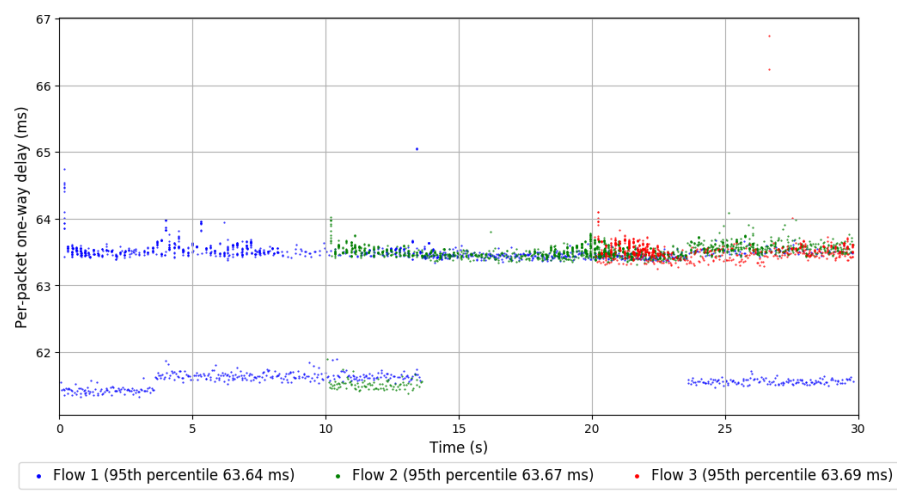
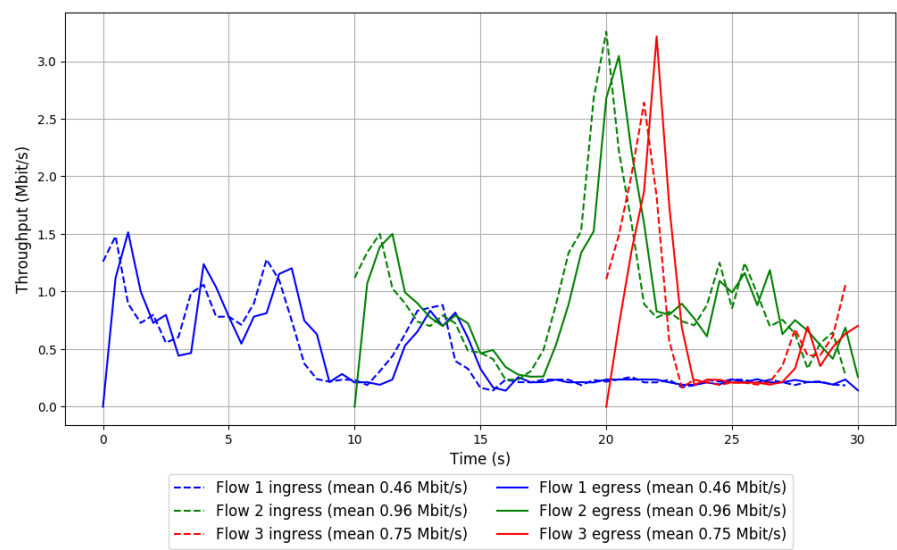


Run 2: Statistics of Sprout

Start at: 2018-05-25 15:05:30
End at: 2018-05-25 15:06:00
Local clock offset: 0.012 ms
Remote clock offset: 0.086 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 63.669 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 63.642 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 63.690 ms
Loss rate: 2.39%
```

Run 2: Report of Sprout — Data Link

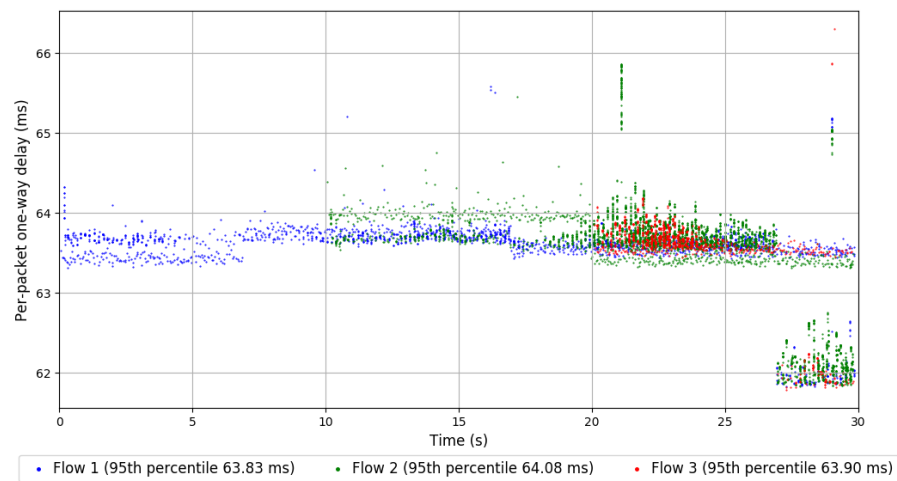
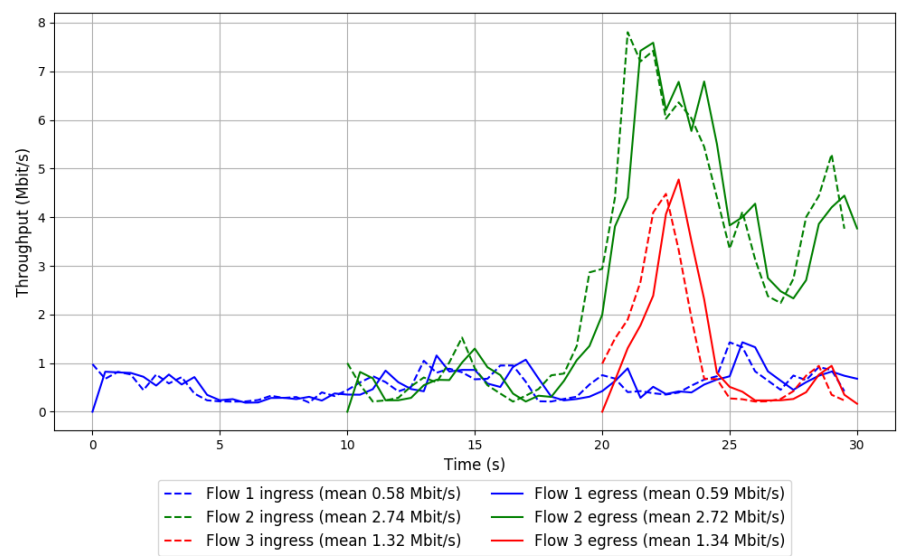


Run 3: Statistics of Sprout

Start at: 2018-05-25 15:28:47
End at: 2018-05-25 15:29:17
Local clock offset: 0.08 ms
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 64.006 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 63.828 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 64.077 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 63.901 ms
Loss rate: 0.27%
```

Run 3: Report of Sprout — Data Link

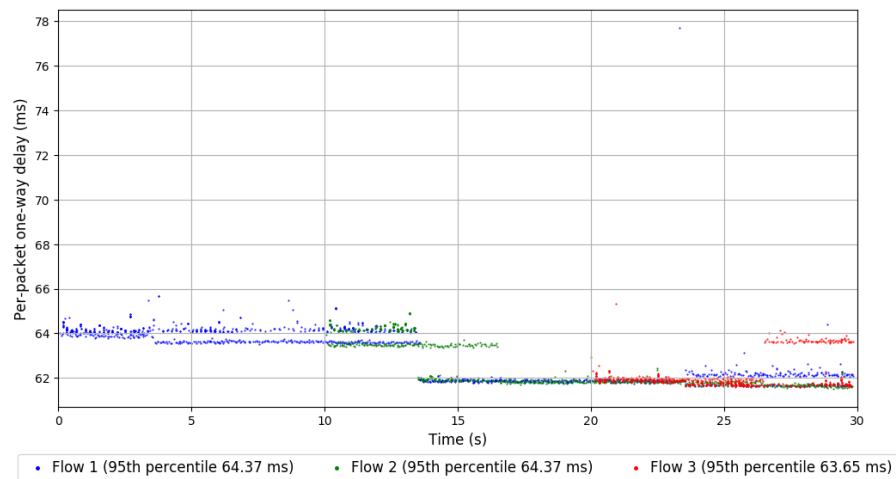
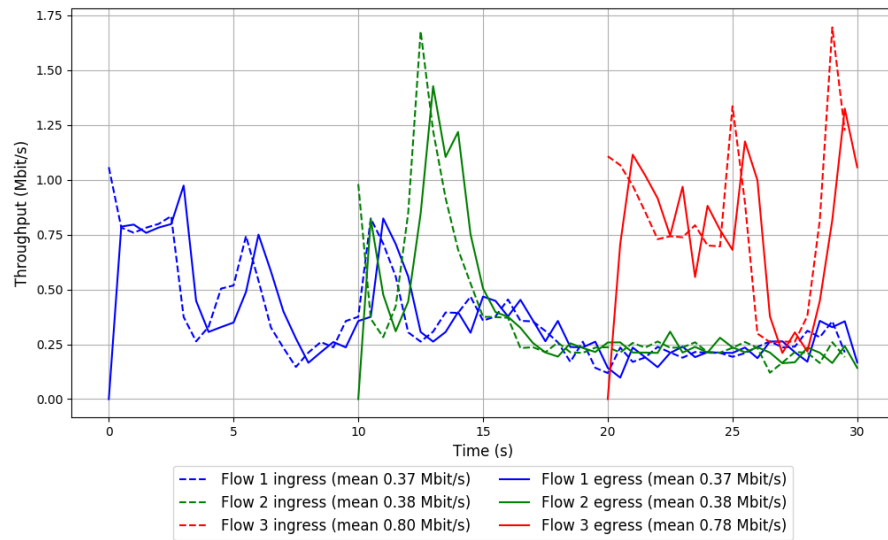


Run 4: Statistics of Sprout

Start at: 2018-05-25 15:52:00
End at: 2018-05-25 15:52:30
Local clock offset: 0.099 ms
Remote clock offset: -0.135 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 64.303 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 64.366 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 64.370 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 63.646 ms
Loss rate: 3.40%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-25 16:15:37

End at: 2018-05-25 16:16:07

Local clock offset: 0.012 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 63.916 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 63.896 ms

Loss rate: 0.33%

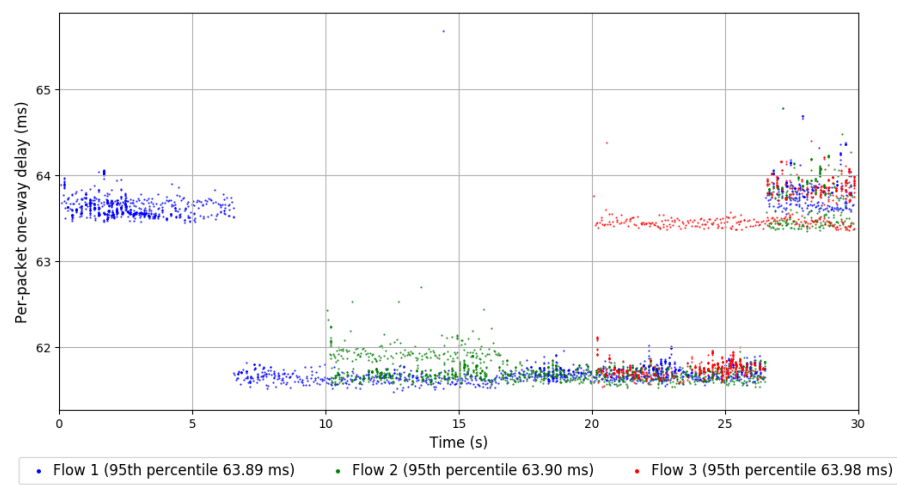
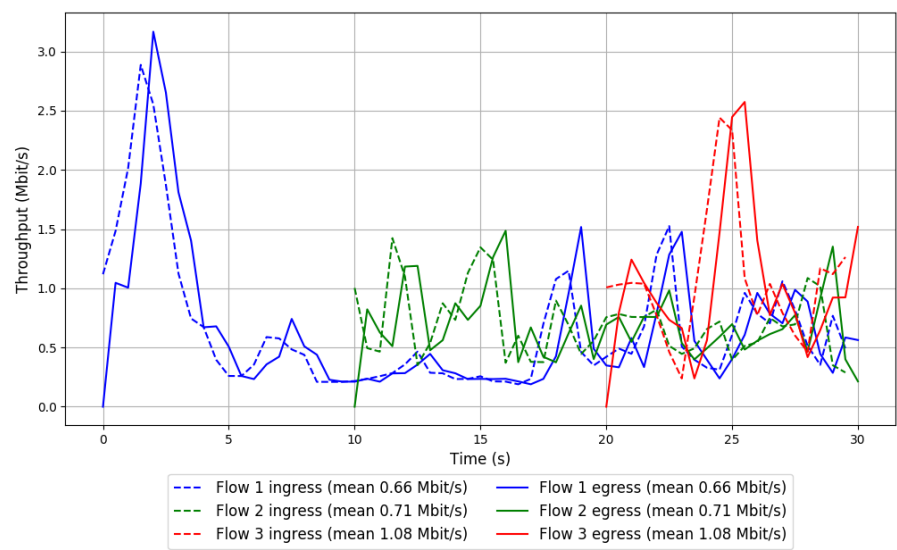
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 63.977 ms

Loss rate: 0.90%

Run 5: Report of Sprout — Data Link

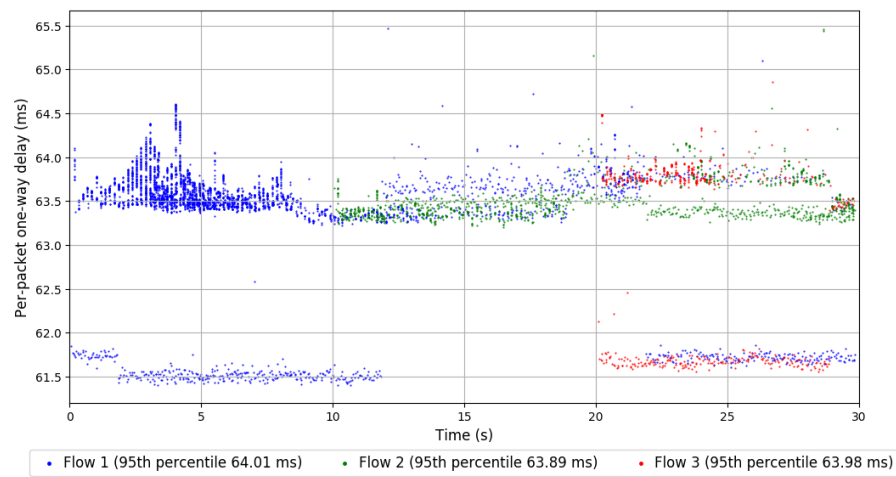
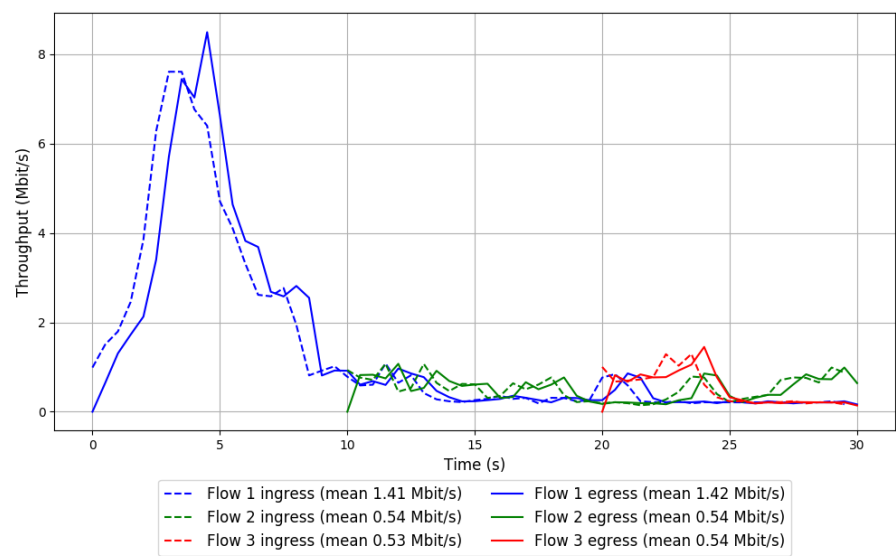


Run 6: Statistics of Sprout

Start at: 2018-05-25 16:38:45
End at: 2018-05-25 16:39:15
Local clock offset: -0.064 ms
Remote clock offset: 0.154 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 63.983 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 63.890 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 63.978 ms
Loss rate: 0.72%
```

Run 6: Report of Sprout — Data Link

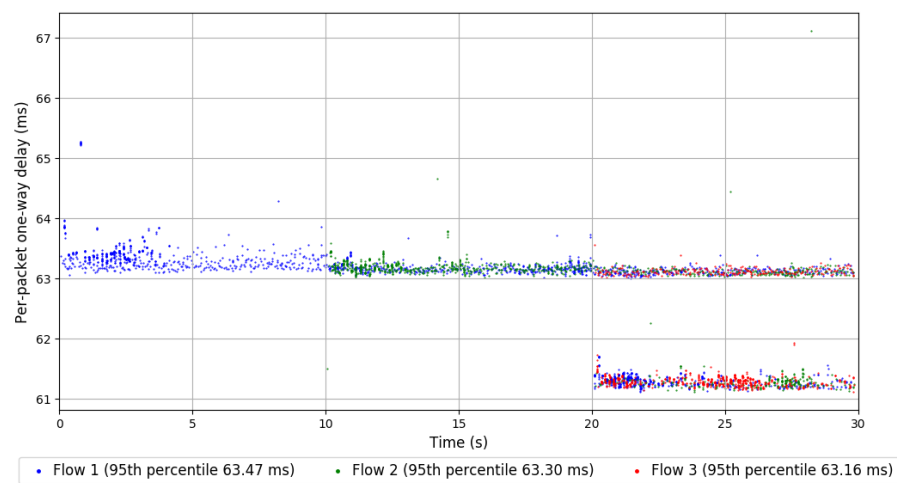
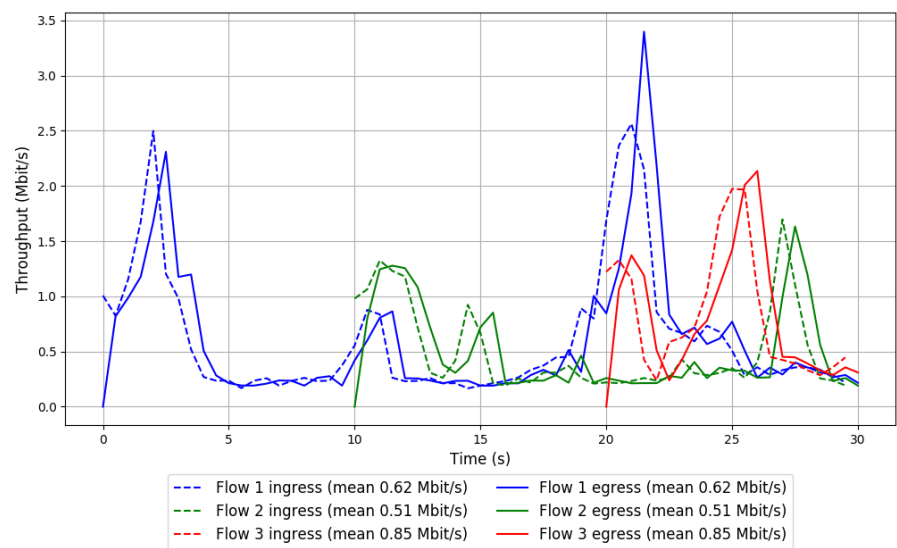


Run 7: Statistics of Sprout

Start at: 2018-05-25 17:02:04
End at: 2018-05-25 17:02:34
Local clock offset: -0.053 ms
Remote clock offset: 0.578 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 63.427 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 63.465 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 63.165 ms
Loss rate: 0.82%
```

Run 7: Report of Sprout — Data Link

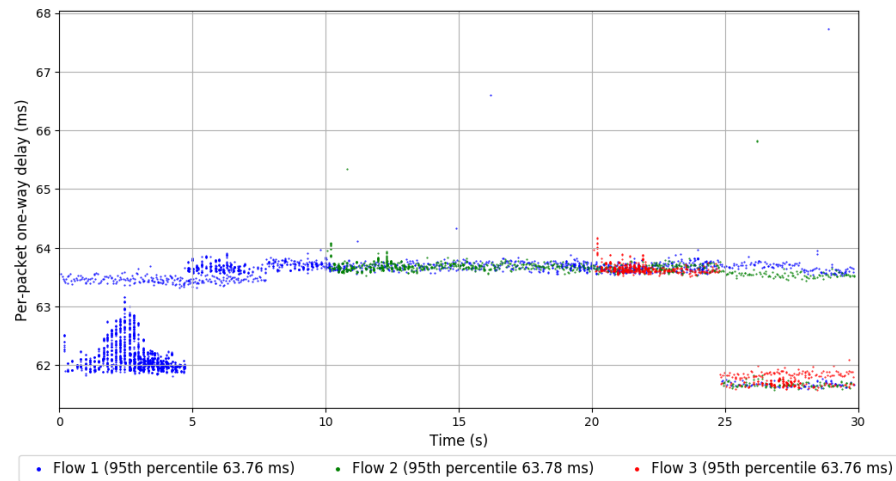
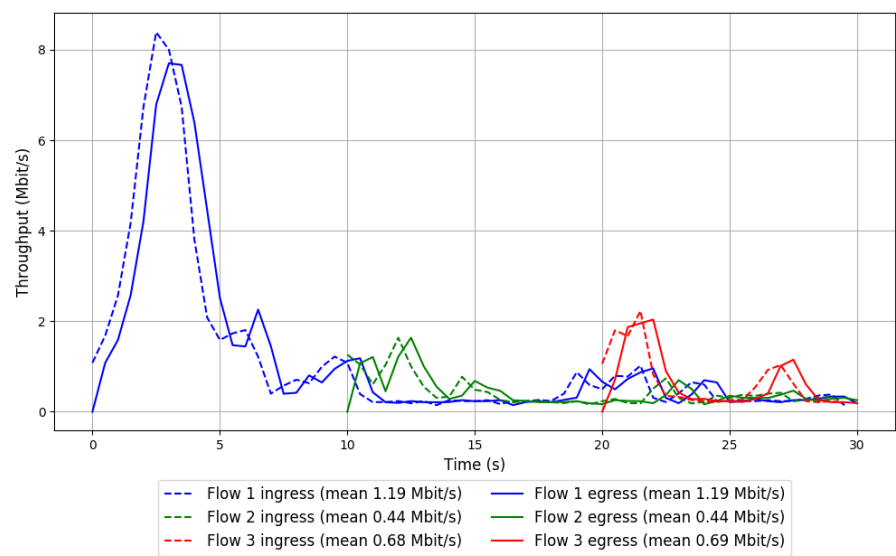


Run 8: Statistics of Sprout

Start at: 2018-05-25 17:25:09
End at: 2018-05-25 17:25:39
Local clock offset: -0.127 ms
Remote clock offset: 0.035 ms

```
# Below is generated by plot.py at 2018-05-25 20:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 63.756 ms
Loss rate: 0.20%
```

Run 8: Report of Sprout — Data Link

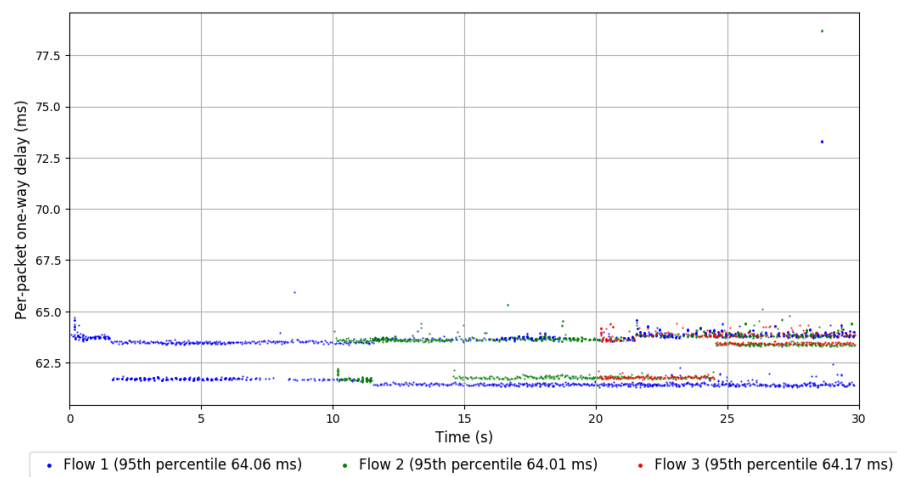
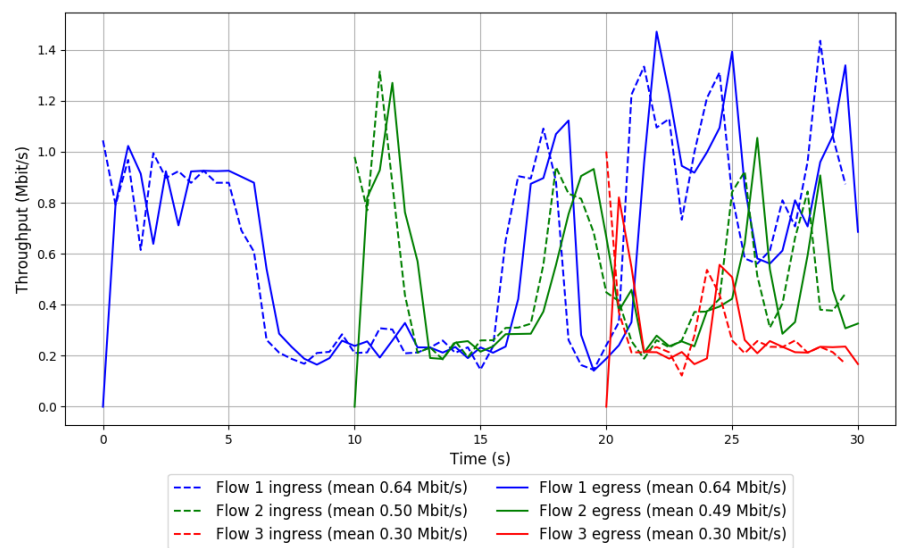


Run 9: Statistics of Sprout

Start at: 2018-05-25 17:48:42
End at: 2018-05-25 17:49:12
Local clock offset: -0.049 ms
Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-05-25 20:49:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 64.056 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 64.013 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 64.169 ms
Loss rate: 0.45%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 18:12:17

End at: 2018-05-25 18:12:47

Local clock offset: -0.071 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-05-25 20:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.18%

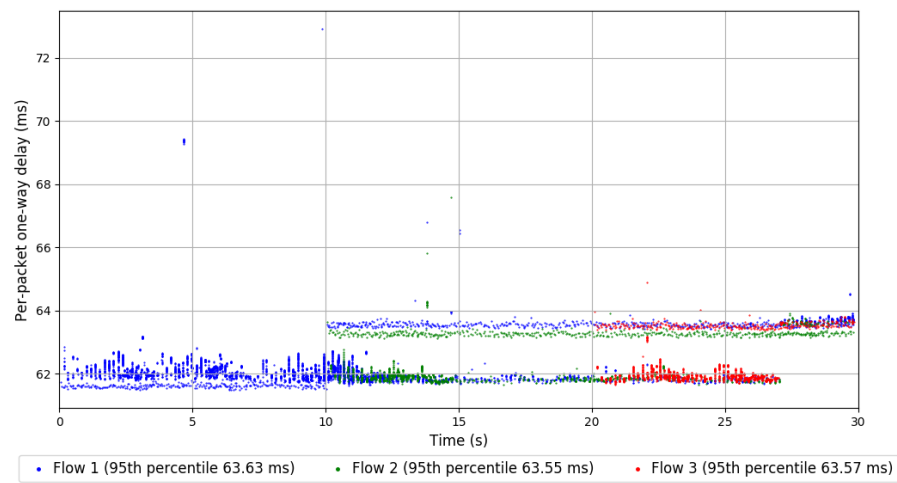
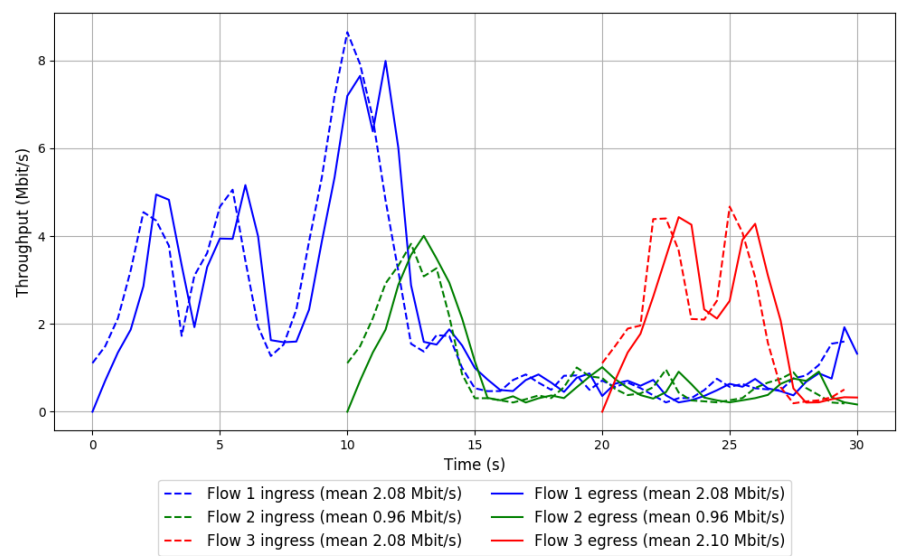
-- Flow 3:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.50%

Run 10: Report of Sprout — Data Link

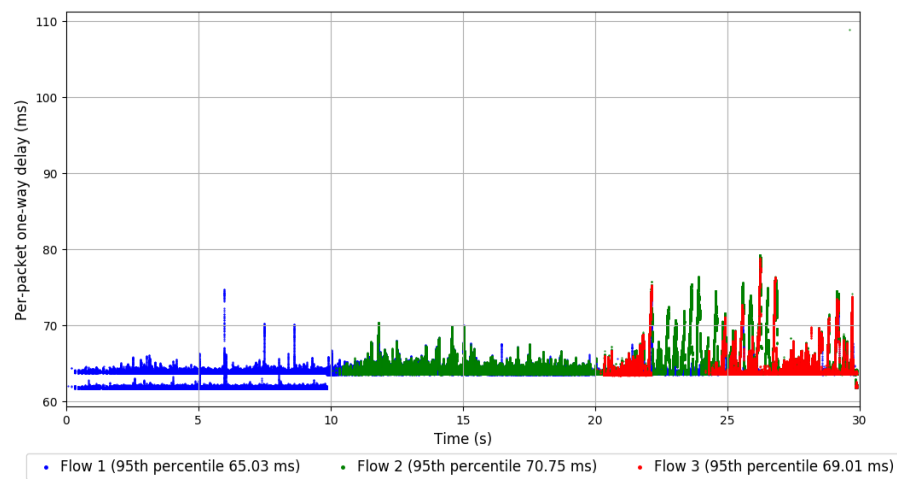
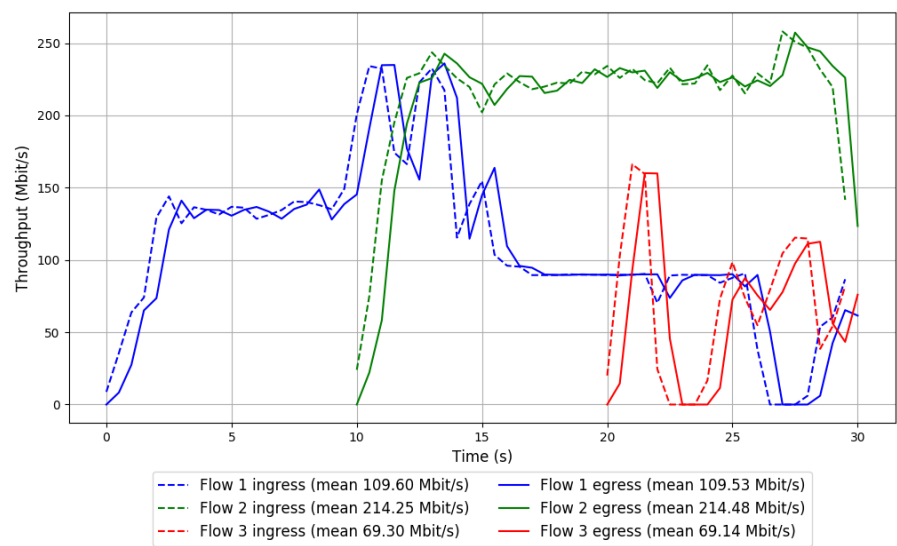


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 14:47:34
End at: 2018-05-25 14:48:04
Local clock offset: -0.013 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-05-25 20:53:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 274.84 Mbit/s
95th percentile per-packet one-way delay: 68.645 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 109.53 Mbit/s
95th percentile per-packet one-way delay: 65.034 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 214.48 Mbit/s
95th percentile per-packet one-way delay: 70.748 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 69.14 Mbit/s
95th percentile per-packet one-way delay: 69.012 ms
Loss rate: 1.35%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 15:10:53

End at: 2018-05-25 15:11:23

Local clock offset: 0.048 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-25 20:53:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.75 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 149.60 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 66.266 ms

Loss rate: 0.73%

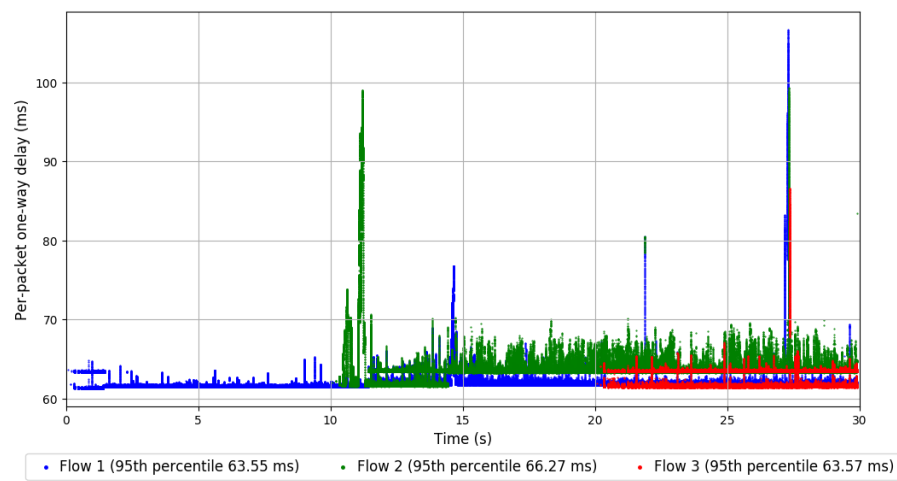
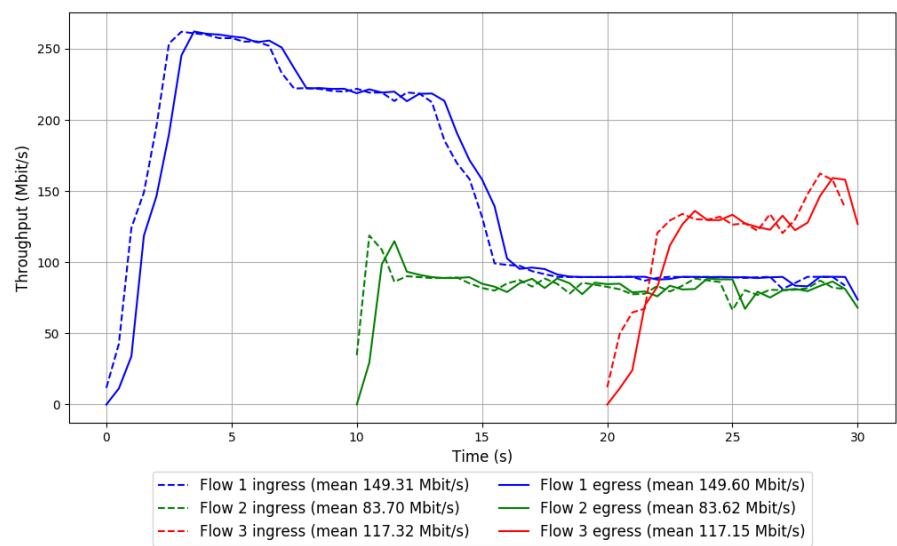
-- Flow 3:

Average throughput: 117.15 Mbit/s

95th percentile per-packet one-way delay: 63.566 ms

Loss rate: 1.41%

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

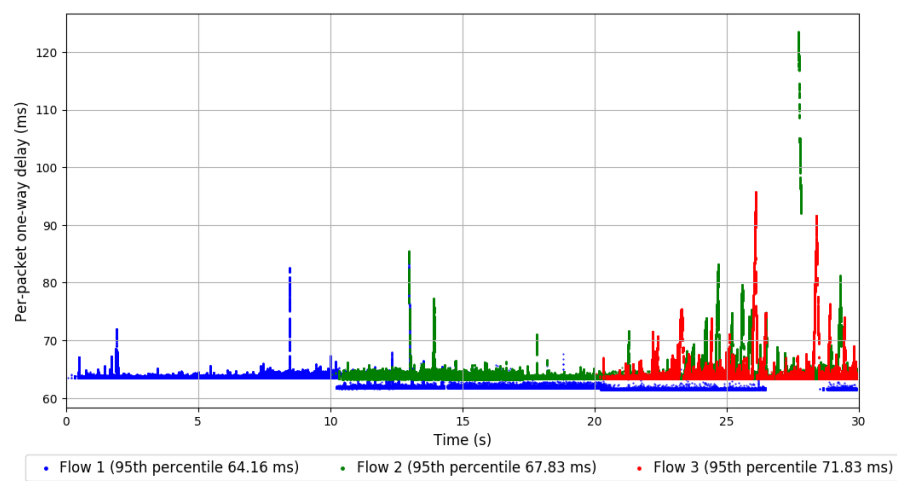
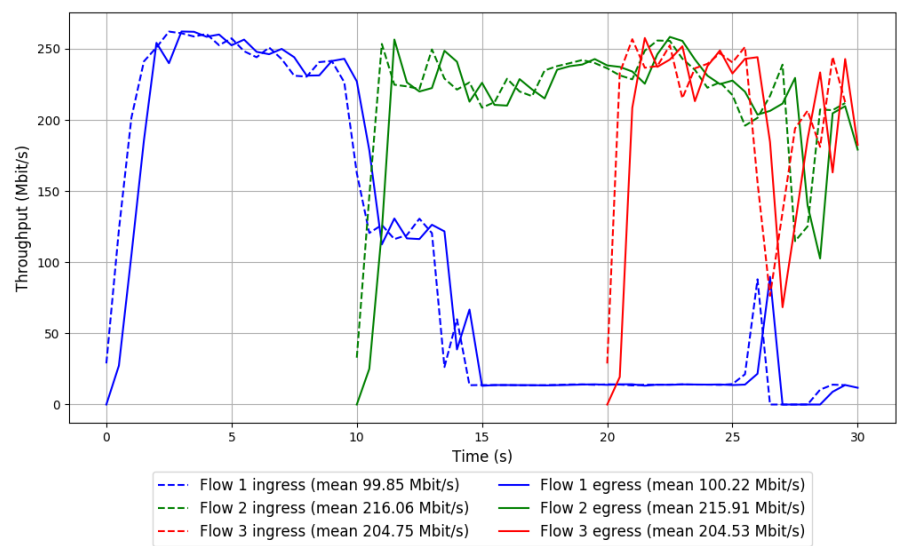


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 15:34:07
End at: 2018-05-25 15:34:37
Local clock offset: -0.007 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-05-25 20:55:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.15 Mbit/s
95th percentile per-packet one-way delay: 67.090 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 100.22 Mbit/s
95th percentile per-packet one-way delay: 64.156 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 215.91 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 204.53 Mbit/s
95th percentile per-packet one-way delay: 71.831 ms
Loss rate: 1.40%

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

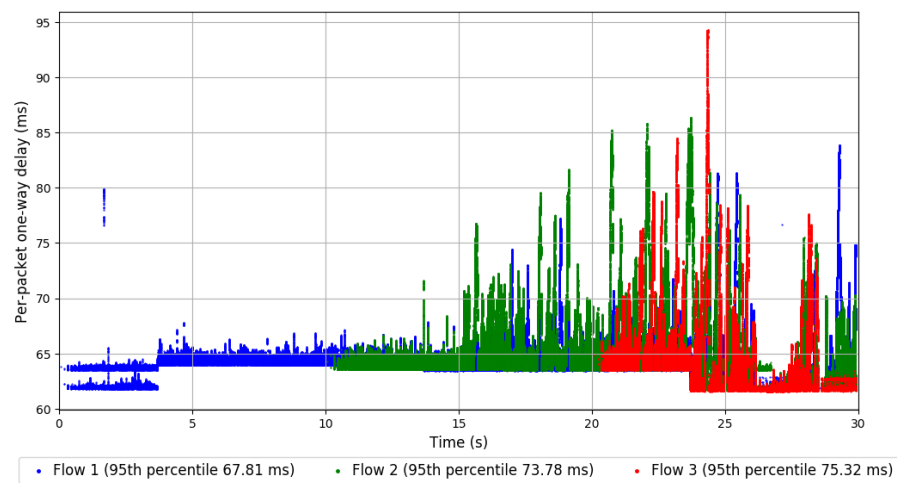
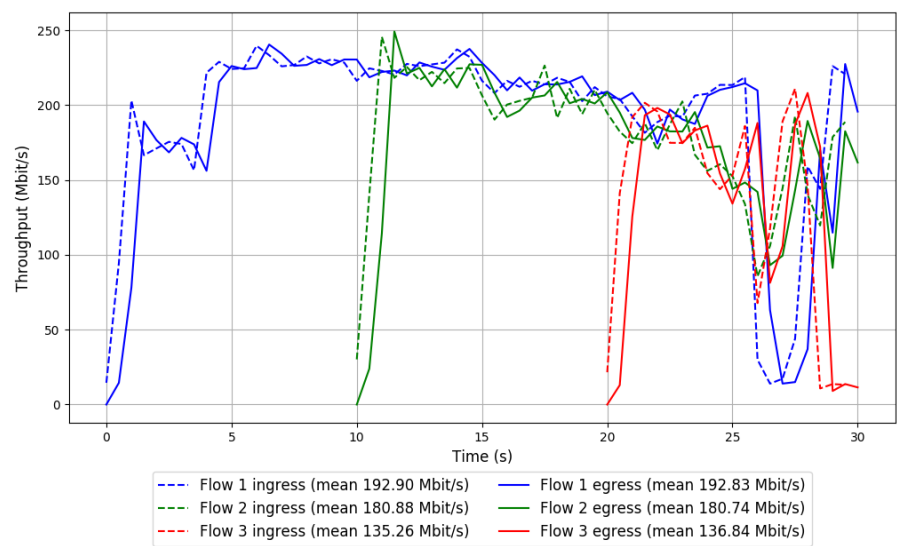


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 15:57:20
End at: 2018-05-25 15:57:50
Local clock offset: 0.13 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-25 20:57:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.03 Mbit/s
95th percentile per-packet one-way delay: 70.942 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 192.83 Mbit/s
95th percentile per-packet one-way delay: 67.815 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 180.74 Mbit/s
95th percentile per-packet one-way delay: 73.782 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 136.84 Mbit/s
95th percentile per-packet one-way delay: 75.320 ms
Loss rate: 0.13%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 16:20:57

End at: 2018-05-25 16:21:27

Local clock offset: -0.024 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-25 20:57:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.38 Mbit/s

95th percentile per-packet one-way delay: 66.229 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 66.055 ms

Loss rate: 0.33%

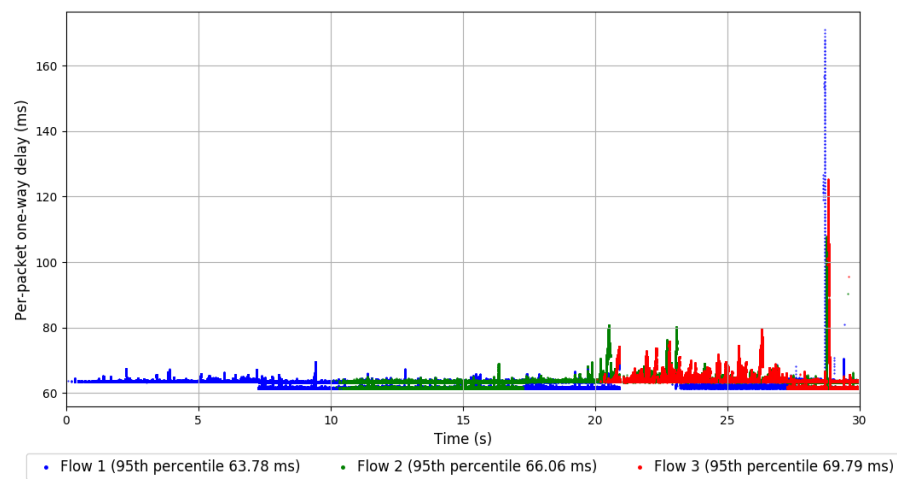
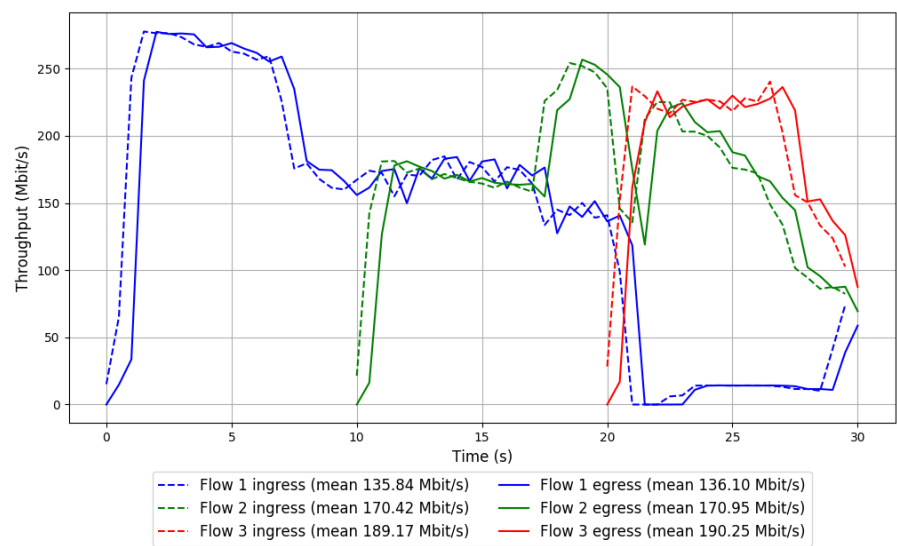
-- Flow 3:

Average throughput: 190.25 Mbit/s

95th percentile per-packet one-way delay: 69.793 ms

Loss rate: 0.73%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 16:44:06

End at: 2018-05-25 16:44:36

Local clock offset: -0.03 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-05-25 21:00:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.36 Mbit/s

95th percentile per-packet one-way delay: 75.272 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 161.53 Mbit/s

95th percentile per-packet one-way delay: 74.865 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 136.50 Mbit/s

95th percentile per-packet one-way delay: 72.232 ms

Loss rate: 0.38%

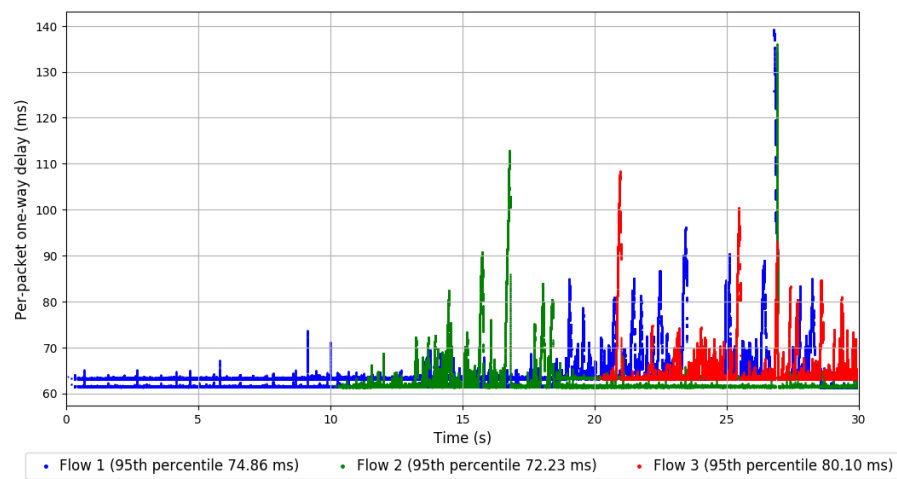
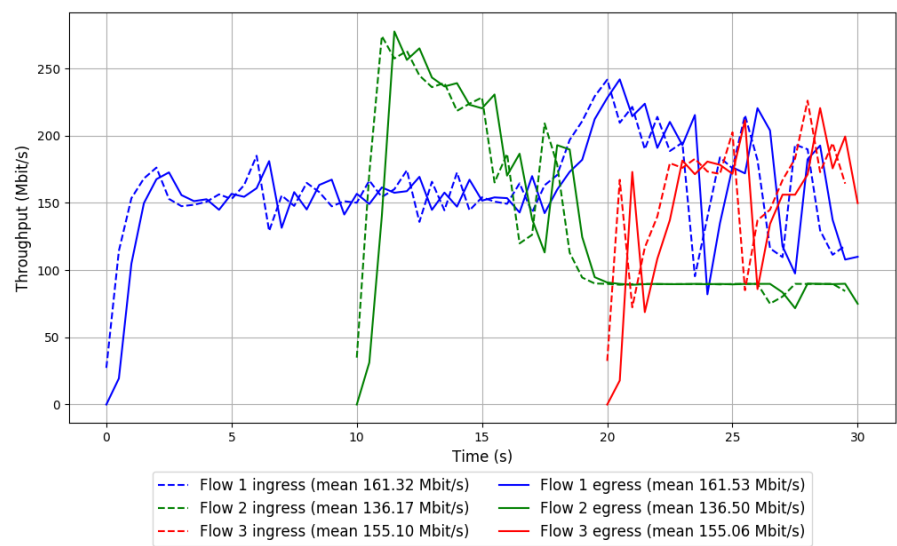
-- Flow 3:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 80.098 ms

Loss rate: 1.29%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 17:07:23

End at: 2018-05-25 17:07:53

Local clock offset: -0.025 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-05-25 21:00:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.07 Mbit/s

95th percentile per-packet one-way delay: 81.238 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 117.39 Mbit/s

95th percentile per-packet one-way delay: 81.192 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 143.09 Mbit/s

95th percentile per-packet one-way delay: 84.410 ms

Loss rate: 0.92%

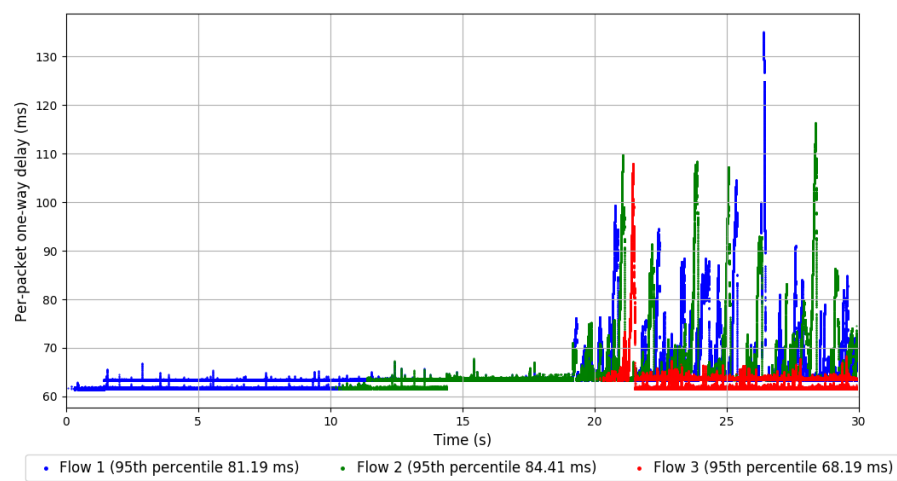
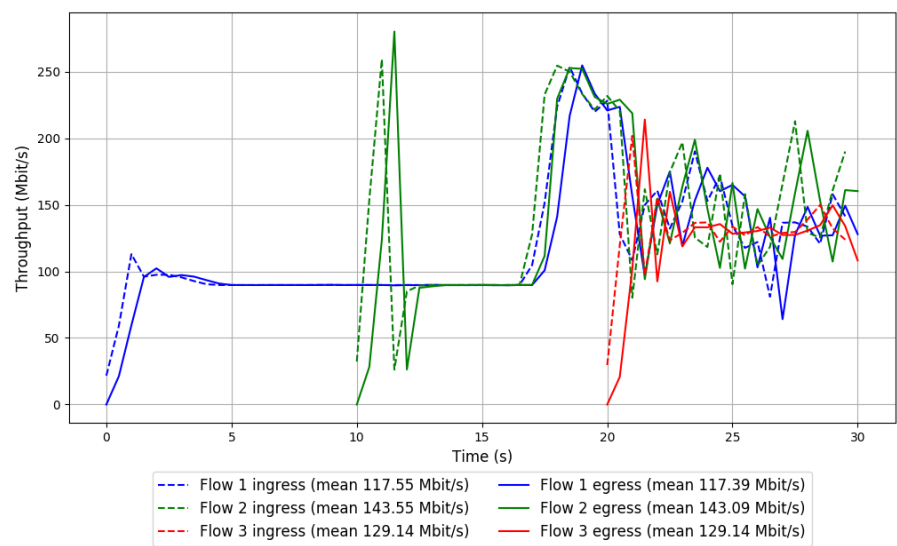
-- Flow 3:

Average throughput: 129.14 Mbit/s

95th percentile per-packet one-way delay: 68.189 ms

Loss rate: 1.29%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 17:30:33

End at: 2018-05-25 17:31:03

Local clock offset: -0.072 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-05-25 21:04:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.48 Mbit/s

95th percentile per-packet one-way delay: 81.414 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 71.724 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 171.64 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.37%

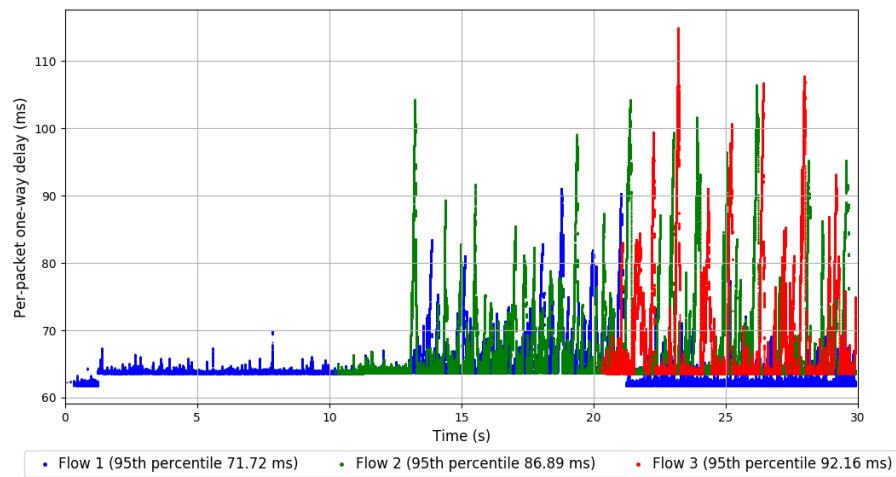
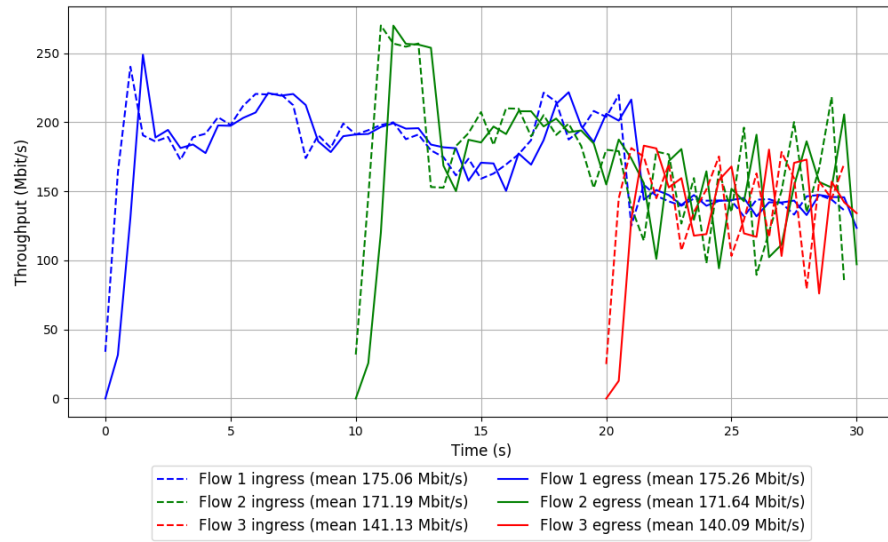
-- Flow 3:

Average throughput: 140.09 Mbit/s

95th percentile per-packet one-way delay: 92.157 ms

Loss rate: 2.01%

Run 8: Report of TaoVA-100x — Data Link

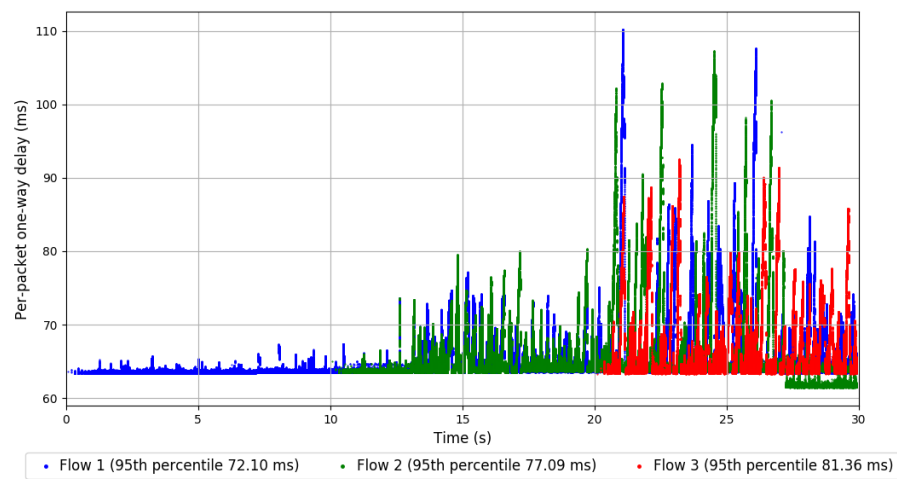
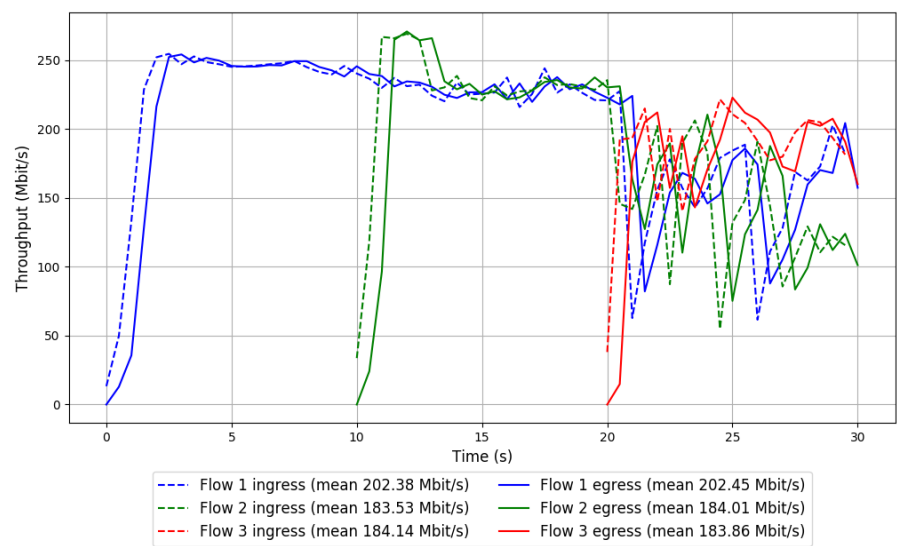


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 17:54:07
End at: 2018-05-25 17:54:37
Local clock offset: -0.15 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 385.28 Mbit/s
95th percentile per-packet one-way delay: 75.475 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 202.45 Mbit/s
95th percentile per-packet one-way delay: 72.102 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 184.01 Mbit/s
95th percentile per-packet one-way delay: 77.094 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 183.86 Mbit/s
95th percentile per-packet one-way delay: 81.358 ms
Loss rate: 1.43%

Run 9: Report of TaoVA-100x — Data Link

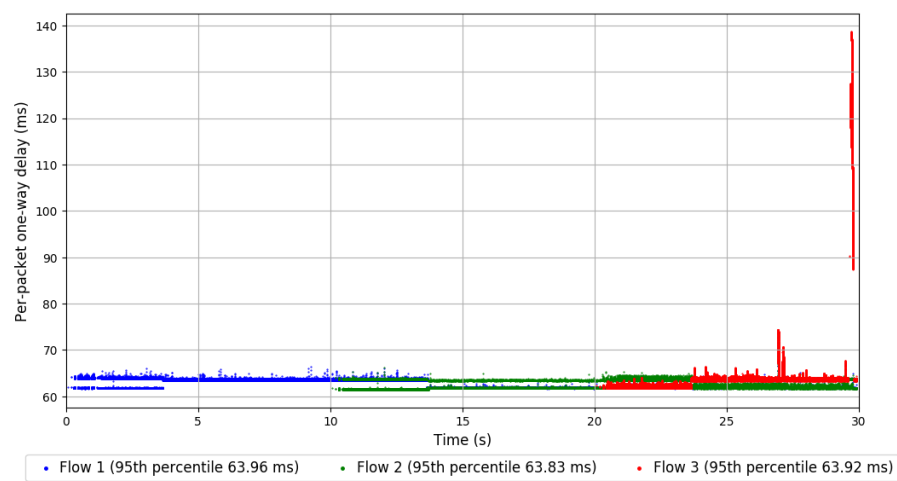
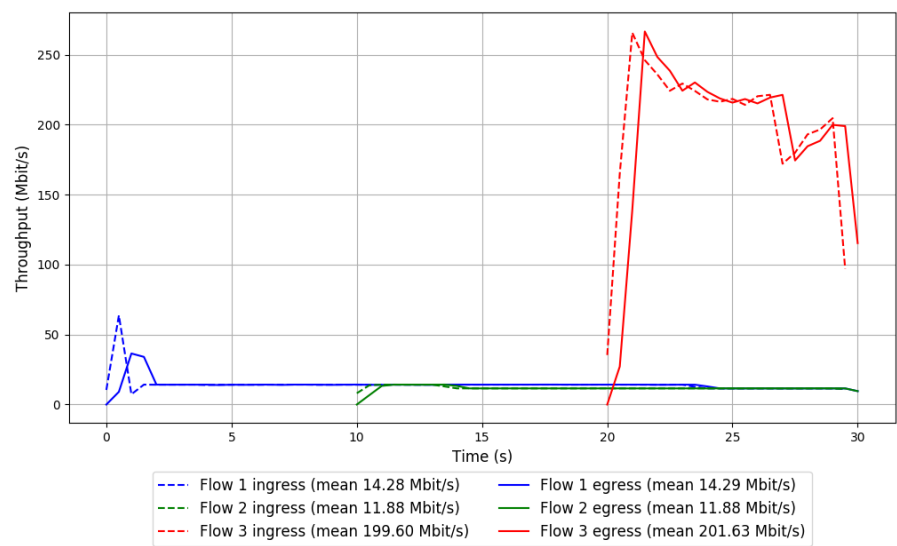


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 18:17:40
End at: 2018-05-25 18:18:10
Local clock offset: -0.074 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 63.924 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 63.831 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 201.63 Mbit/s
95th percentile per-packet one-way delay: 63.922 ms
Loss rate: 0.25%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 14:40:54

End at: 2018-05-25 14:41:24

Local clock offset: 0.002 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-05-25 21:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.12 Mbit/s

95th percentile per-packet one-way delay: 72.509 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 182.59 Mbit/s

95th percentile per-packet one-way delay: 72.364 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 68.947 ms

Loss rate: 1.40%

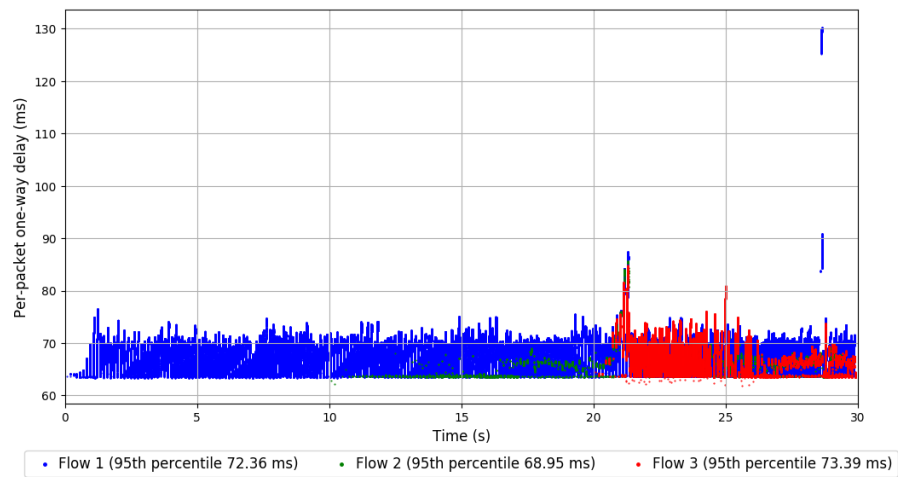
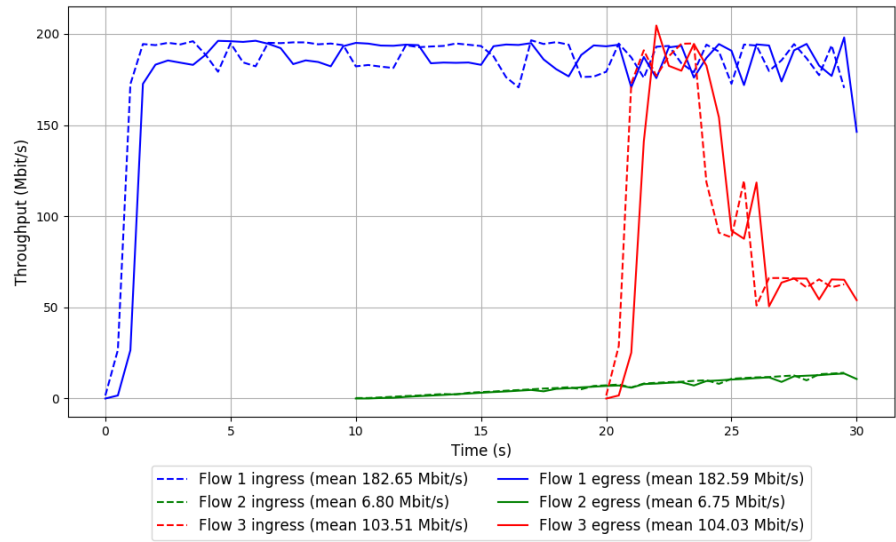
-- Flow 3:

Average throughput: 104.03 Mbit/s

95th percentile per-packet one-way delay: 73.390 ms

Loss rate: 0.79%

Run 1: Report of TCP Vegas — Data Link

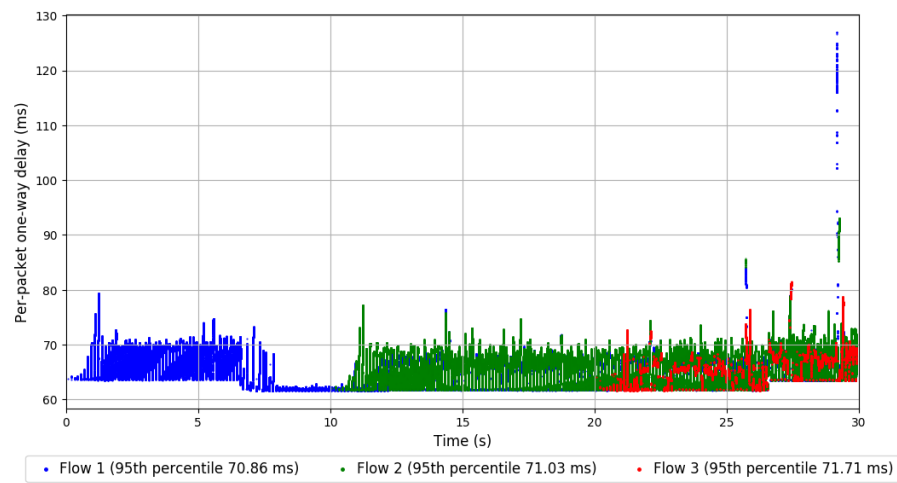
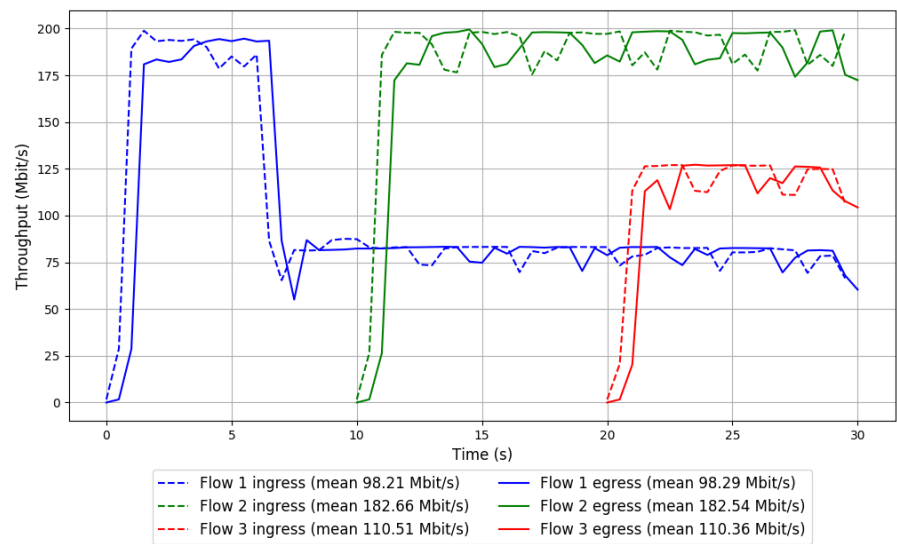


Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 15:04:07
End at: 2018-05-25 15:04:37
Local clock offset: 0.023 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.97 Mbit/s
95th percentile per-packet one-way delay: 71.003 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 98.29 Mbit/s
95th percentile per-packet one-way delay: 70.865 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 182.54 Mbit/s
95th percentile per-packet one-way delay: 71.032 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 110.36 Mbit/s
95th percentile per-packet one-way delay: 71.714 ms
Loss rate: 1.41%

Run 2: Report of TCP Vegas — Data Link

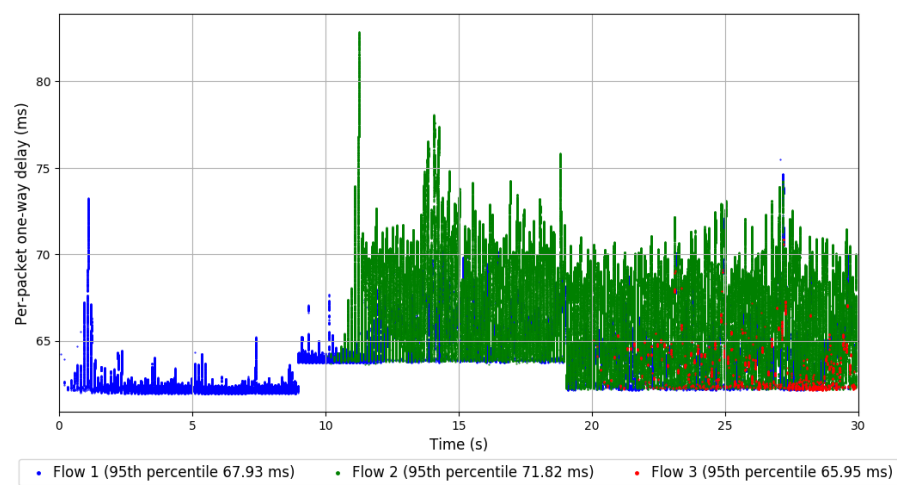
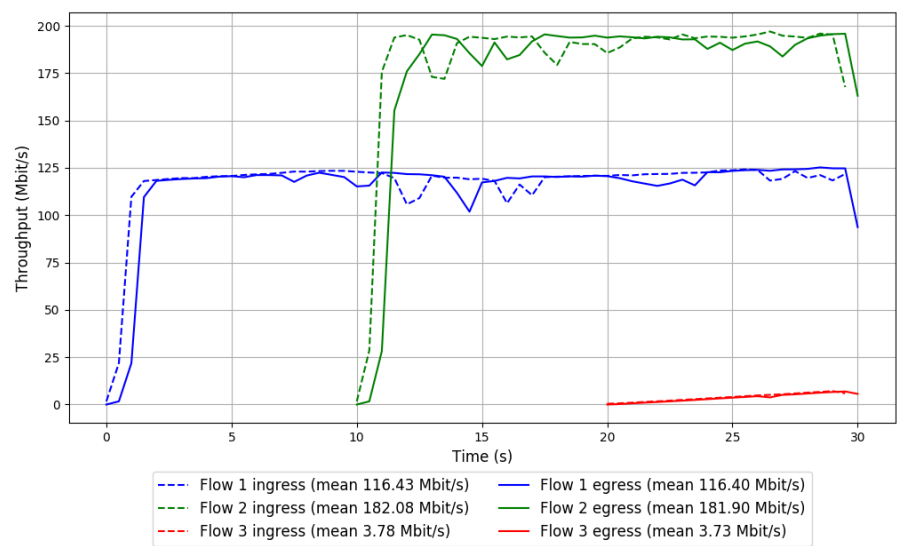


Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 15:27:25
End at: 2018-05-25 15:27:55
Local clock offset: 0.083 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 238.53 Mbit/s
95th percentile per-packet one-way delay: 71.011 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 116.40 Mbit/s
95th percentile per-packet one-way delay: 67.928 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 181.90 Mbit/s
95th percentile per-packet one-way delay: 71.817 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 65.946 ms
Loss rate: 2.75%

Run 3: Report of TCP Vegas — Data Link

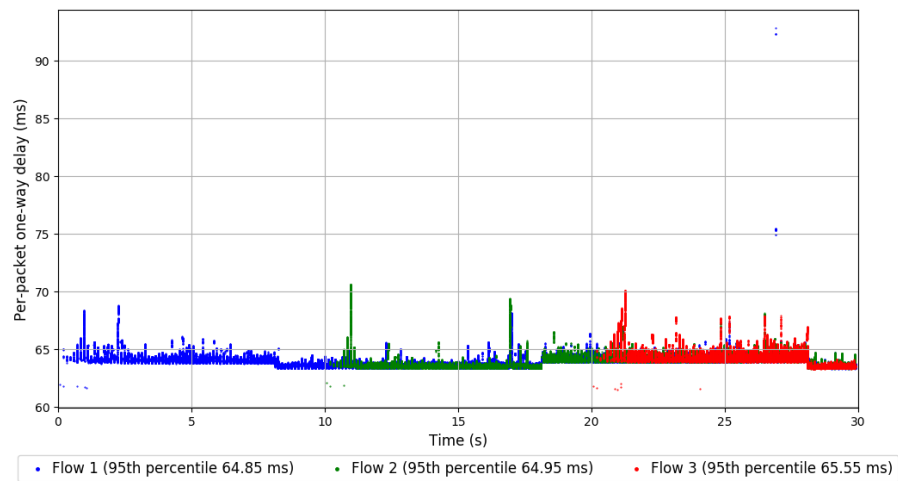
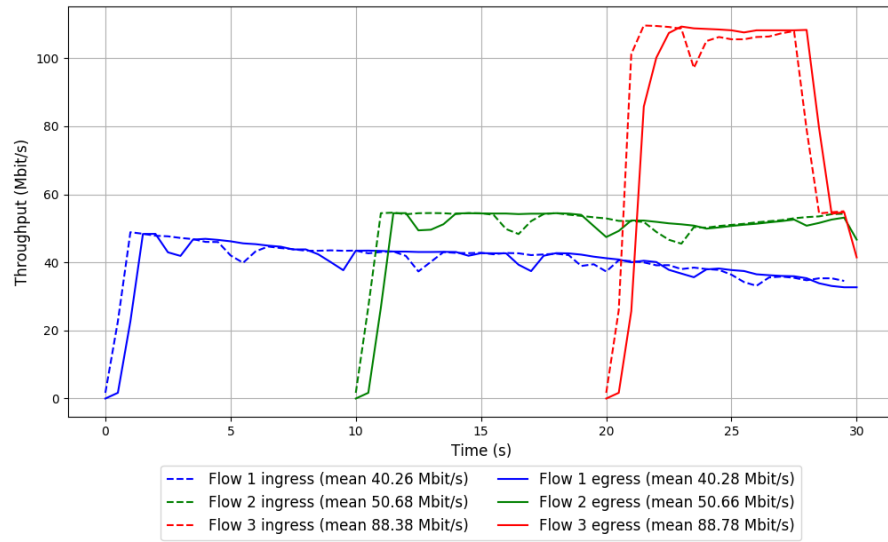


Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 15:50:46
End at: 2018-05-25 15:51:16
Local clock offset: 0.11 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 103.11 Mbit/s
95th percentile per-packet one-way delay: 65.091 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 64.851 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 64.946 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 65.550 ms
Loss rate: 0.79%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 16:14:20

End at: 2018-05-25 16:14:50

Local clock offset: 0.036 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-05-25 21:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.88 Mbit/s

95th percentile per-packet one-way delay: 70.482 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 43.27 Mbit/s

95th percentile per-packet one-way delay: 66.162 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 180.06 Mbit/s

95th percentile per-packet one-way delay: 70.939 ms

Loss rate: 0.67%

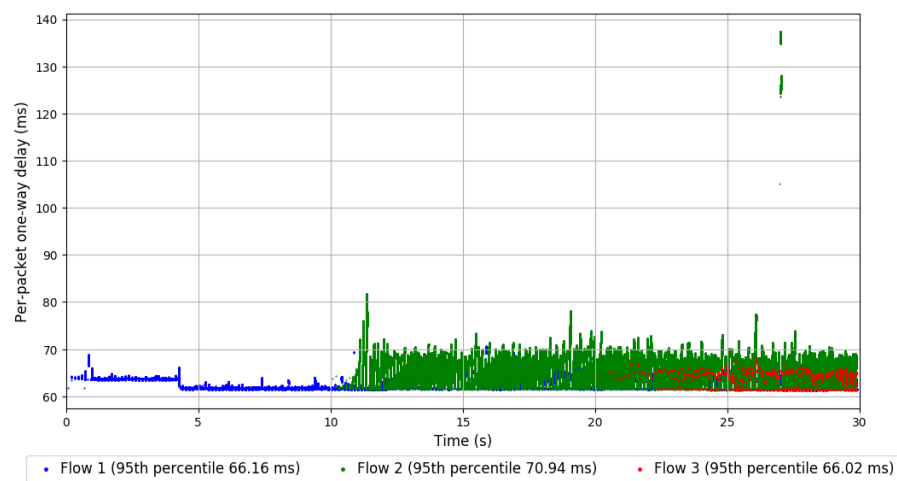
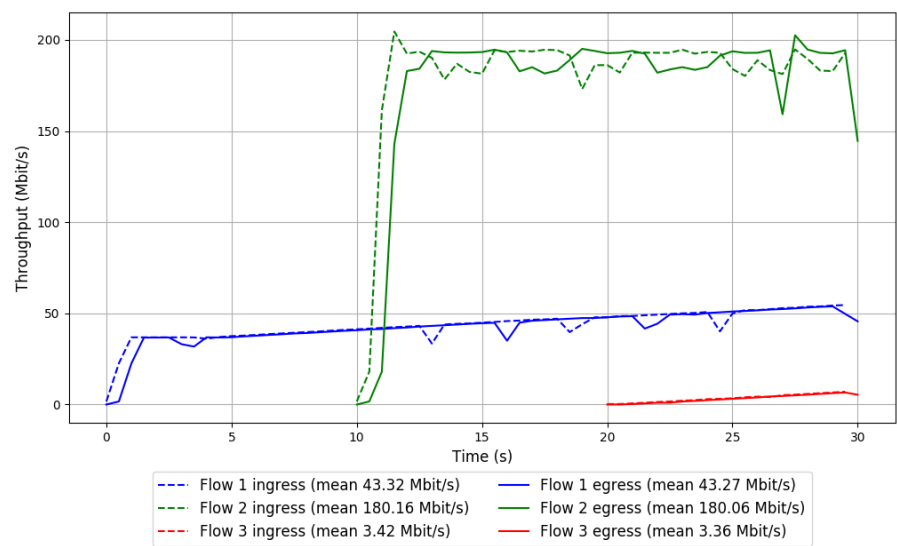
-- Flow 3:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 66.024 ms

Loss rate: 3.00%

Run 5: Report of TCP Vegas — Data Link

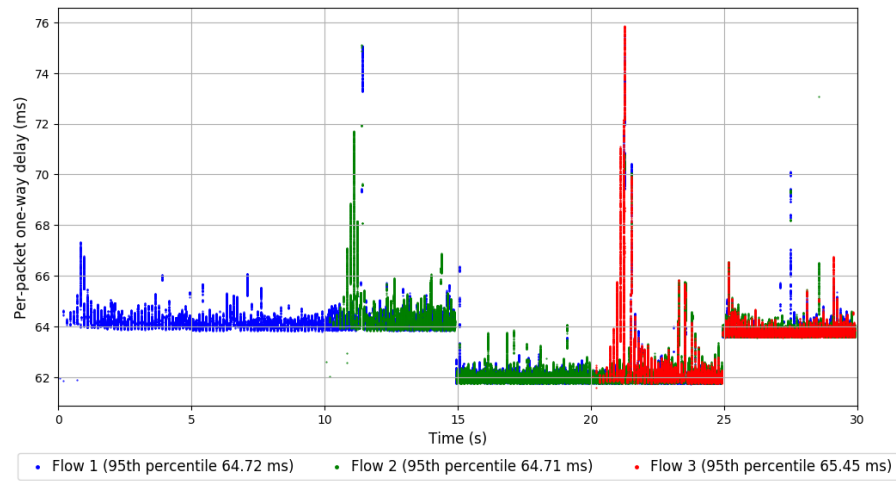
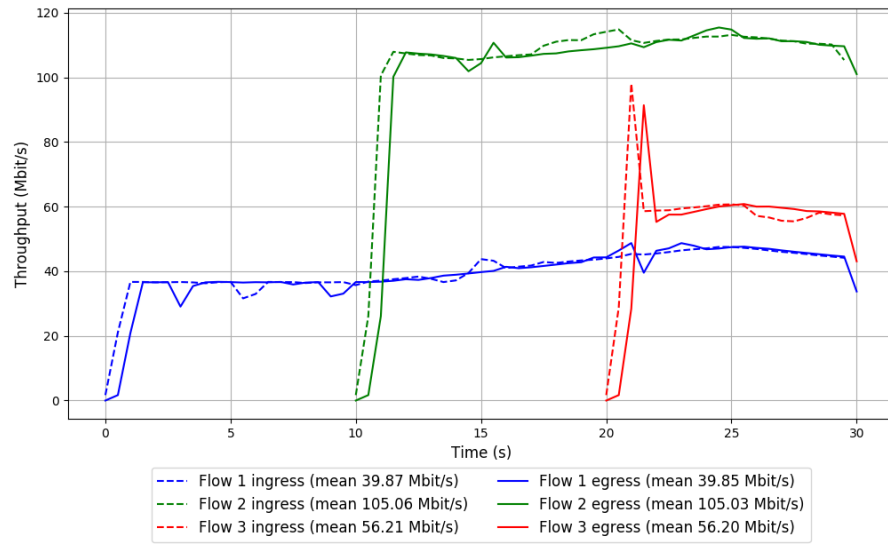


Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 16:37:29
End at: 2018-05-25 16:37:59
Local clock offset: -0.083 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 128.18 Mbit/s
95th percentile per-packet one-way delay: 64.767 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 64.725 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 105.03 Mbit/s
95th percentile per-packet one-way delay: 64.714 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 65.452 ms
Loss rate: 1.28%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 17:00:47

End at: 2018-05-25 17:01:17

Local clock offset: -0.078 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-25 21:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.67 Mbit/s

95th percentile per-packet one-way delay: 69.103 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 65.239 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 65.407 ms

Loss rate: 0.66%

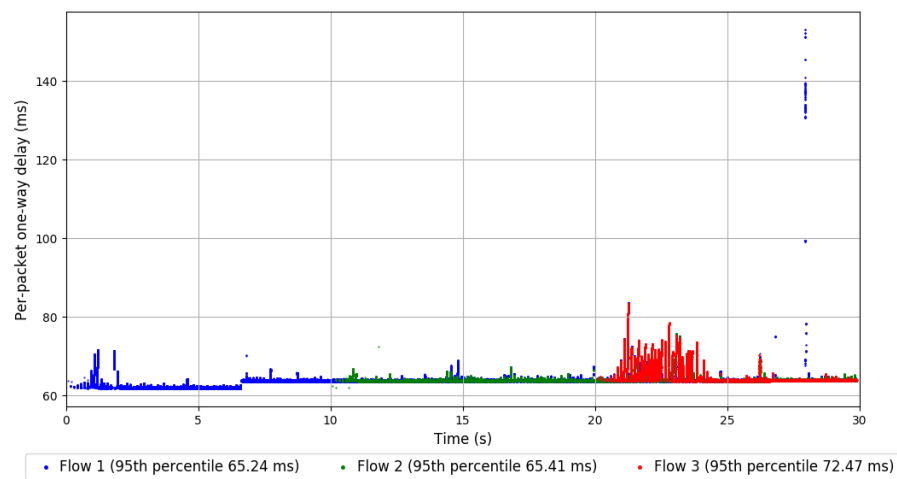
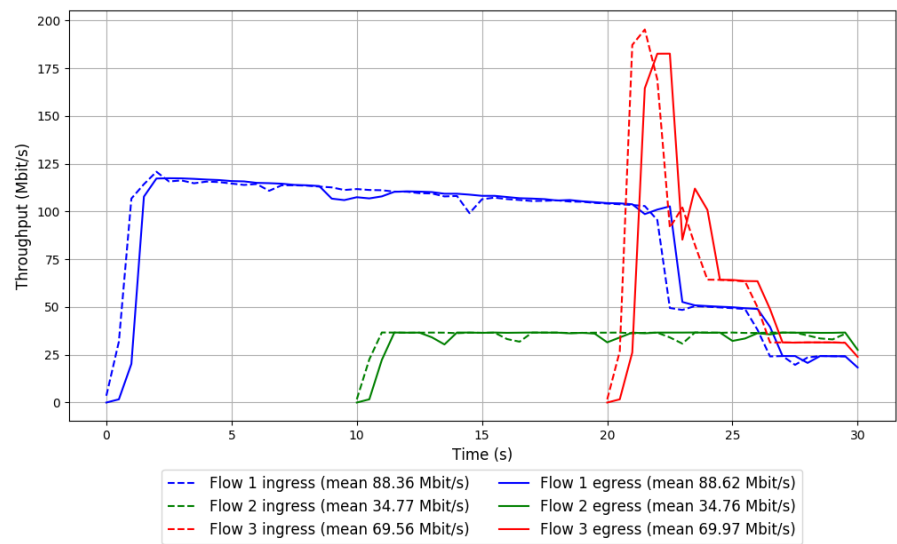
-- Flow 3:

Average throughput: 69.97 Mbit/s

95th percentile per-packet one-way delay: 72.468 ms

Loss rate: 0.68%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 17:23:53

End at: 2018-05-25 17:24:23

Local clock offset: -0.04 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-05-25 21:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.55 Mbit/s

95th percentile per-packet one-way delay: 71.937 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 75.93 Mbit/s

95th percentile per-packet one-way delay: 67.996 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 68.934 ms

Loss rate: 1.14%

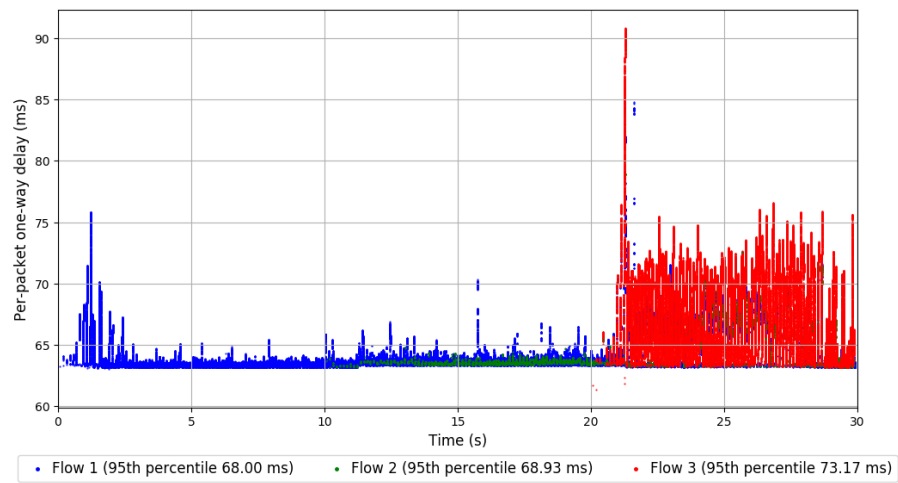
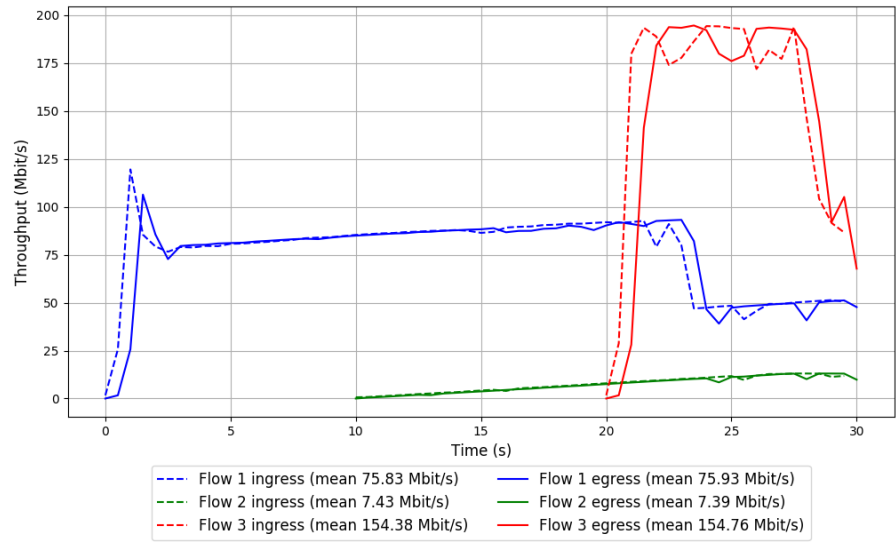
-- Flow 3:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 73.175 ms

Loss rate: 1.02%

Run 8: Report of TCP Vegas — Data Link

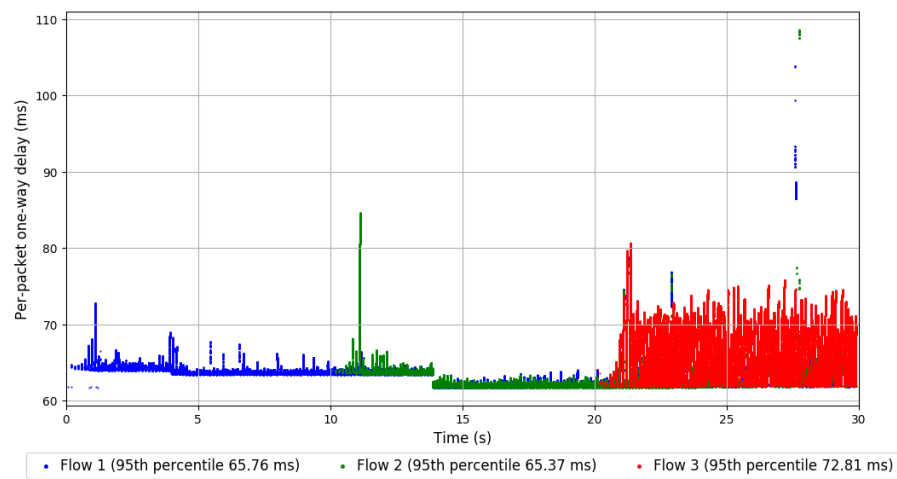
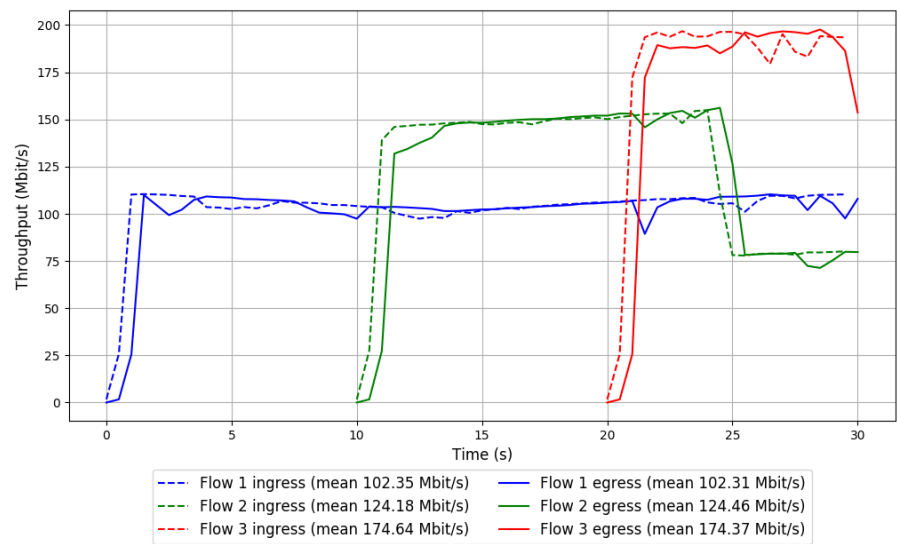


Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 17:47:20
End at: 2018-05-25 17:47:50
Local clock offset: -0.062 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-25 21:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.34 Mbit/s
95th percentile per-packet one-way delay: 70.865 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 102.31 Mbit/s
95th percentile per-packet one-way delay: 65.761 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 124.46 Mbit/s
95th percentile per-packet one-way delay: 65.367 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 174.37 Mbit/s
95th percentile per-packet one-way delay: 72.807 ms
Loss rate: 1.37%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 18:10:52

End at: 2018-05-25 18:11:22

Local clock offset: -0.052 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-05-25 21:09:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.38 Mbit/s

95th percentile per-packet one-way delay: 72.364 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 181.22 Mbit/s

95th percentile per-packet one-way delay: 72.991 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 68.450 ms

Loss rate: 0.65%

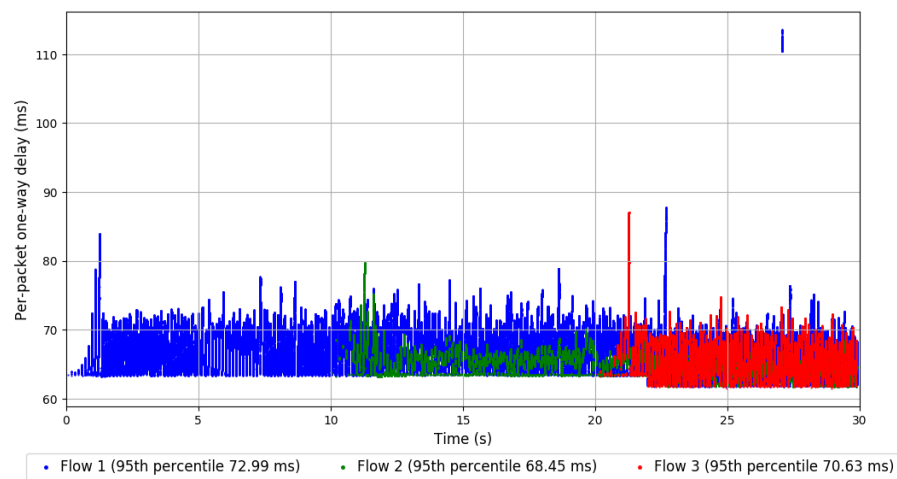
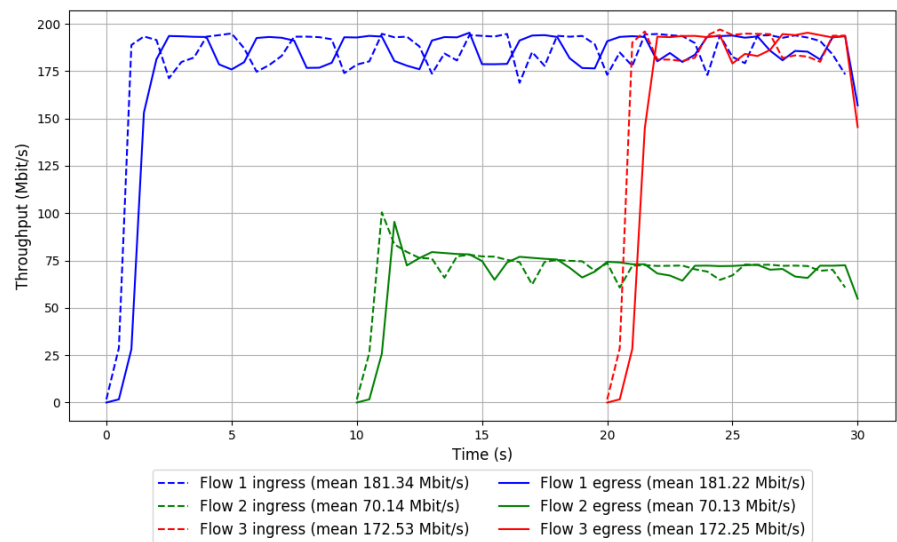
-- Flow 3:

Average throughput: 172.25 Mbit/s

95th percentile per-packet one-way delay: 70.627 ms

Loss rate: 1.41%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 14:44:33

End at: 2018-05-25 14:45:03

Local clock offset: -0.027 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-05-25 21:10:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.14 Mbit/s

95th percentile per-packet one-way delay: 225.627 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 236.374 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 84.31 Mbit/s

95th percentile per-packet one-way delay: 189.180 ms

Loss rate: 1.38%

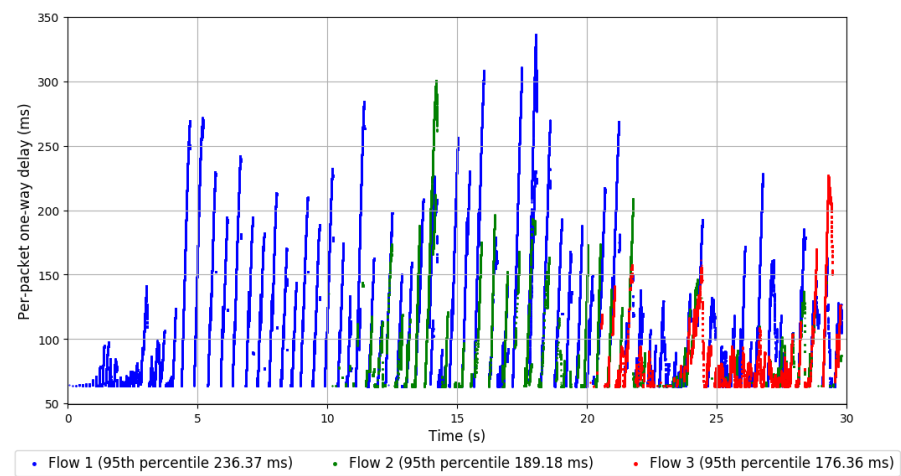
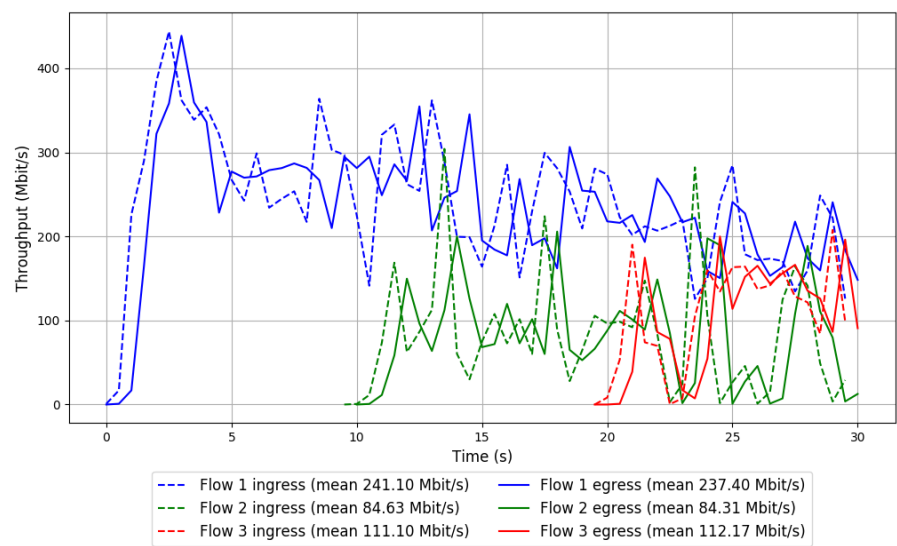
-- Flow 3:

Average throughput: 112.17 Mbit/s

95th percentile per-packet one-way delay: 176.356 ms

Loss rate: 0.89%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 15:07:48

End at: 2018-05-25 15:08:18

Local clock offset: 0.045 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-25 21:11:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.62 Mbit/s

95th percentile per-packet one-way delay: 166.766 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 192.41 Mbit/s

95th percentile per-packet one-way delay: 157.364 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 167.12 Mbit/s

95th percentile per-packet one-way delay: 123.171 ms

Loss rate: 0.40%

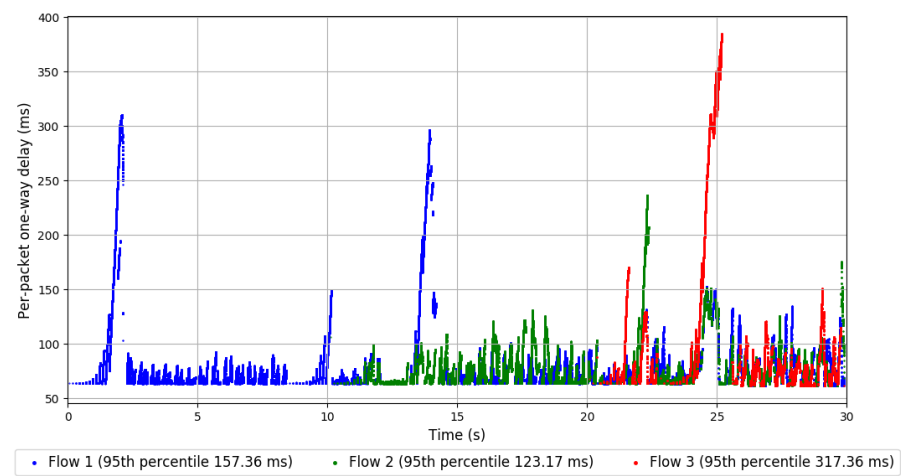
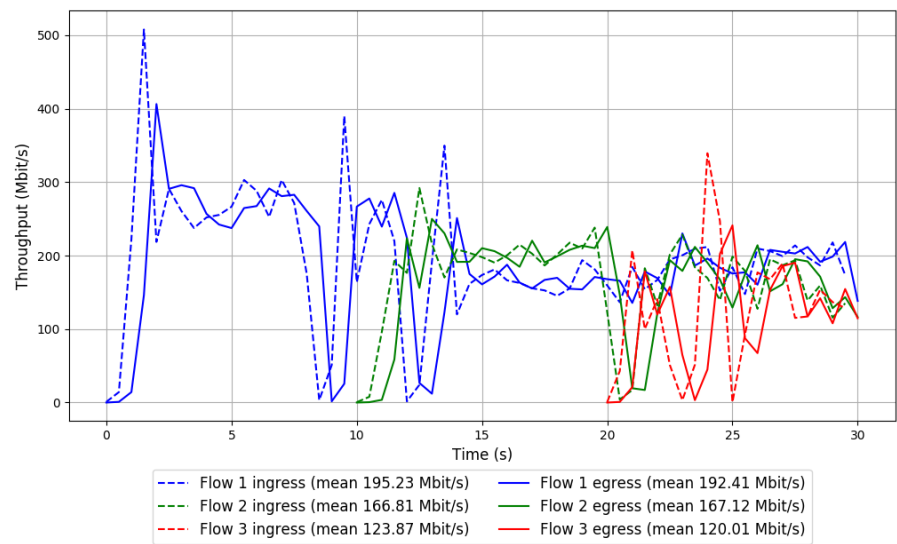
-- Flow 3:

Average throughput: 120.01 Mbit/s

95th percentile per-packet one-way delay: 317.357 ms

Loss rate: 4.38%

Run 2: Report of Verus — Data Link

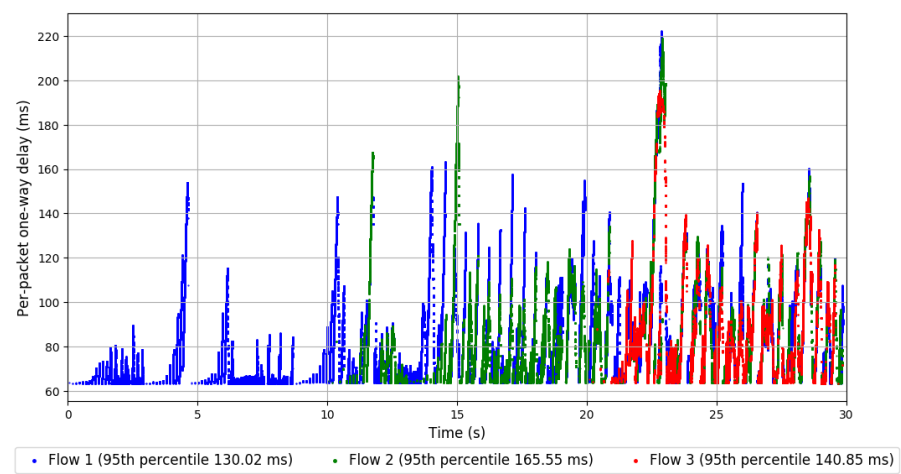
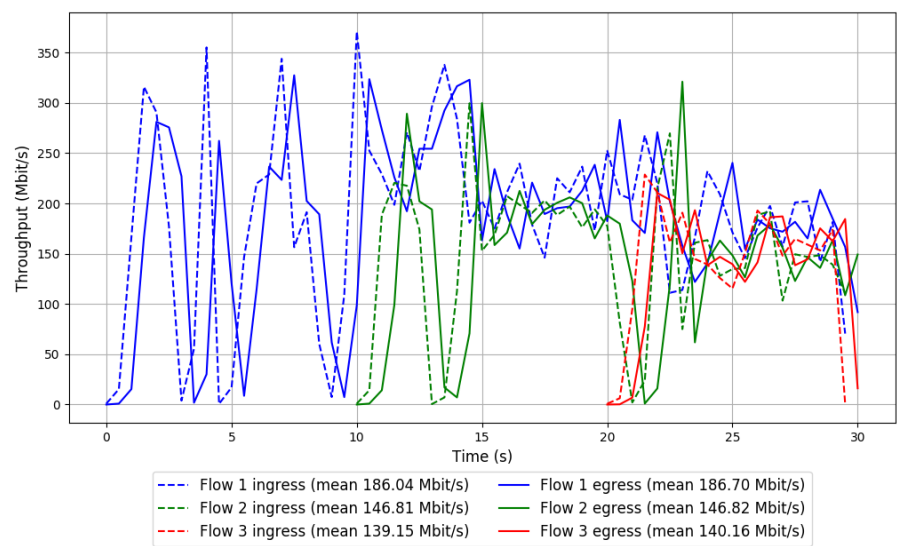


Run 3: Statistics of Verus

Start at: 2018-05-25 15:31:05
End at: 2018-05-25 15:31:35
Local clock offset: 0.072 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-25 21:11:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.80 Mbit/s
95th percentile per-packet one-way delay: 138.973 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 186.70 Mbit/s
95th percentile per-packet one-way delay: 130.016 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 146.82 Mbit/s
95th percentile per-packet one-way delay: 165.552 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 140.16 Mbit/s
95th percentile per-packet one-way delay: 140.846 ms
Loss rate: 0.59%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 15:54:18

End at: 2018-05-25 15:54:48

Local clock offset: 0.119 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-25 21:11:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.62 Mbit/s

95th percentile per-packet one-way delay: 192.219 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 218.74 Mbit/s

95th percentile per-packet one-way delay: 145.311 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 103.34 Mbit/s

95th percentile per-packet one-way delay: 273.134 ms

Loss rate: 2.25%

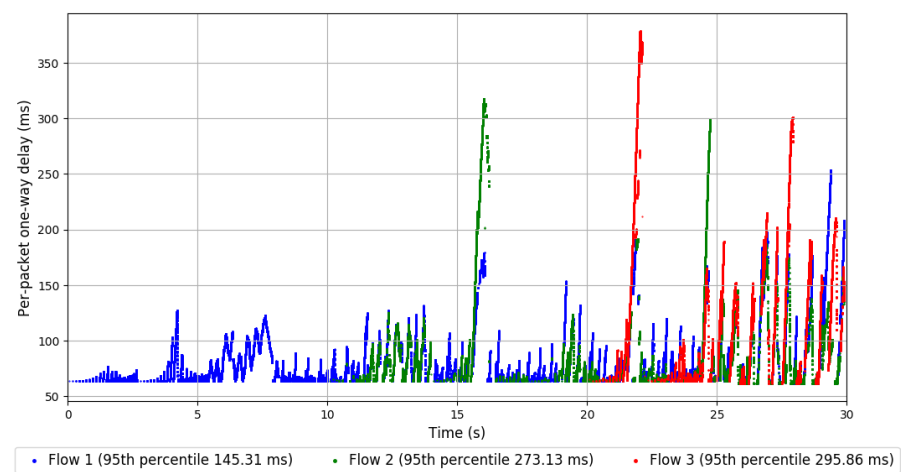
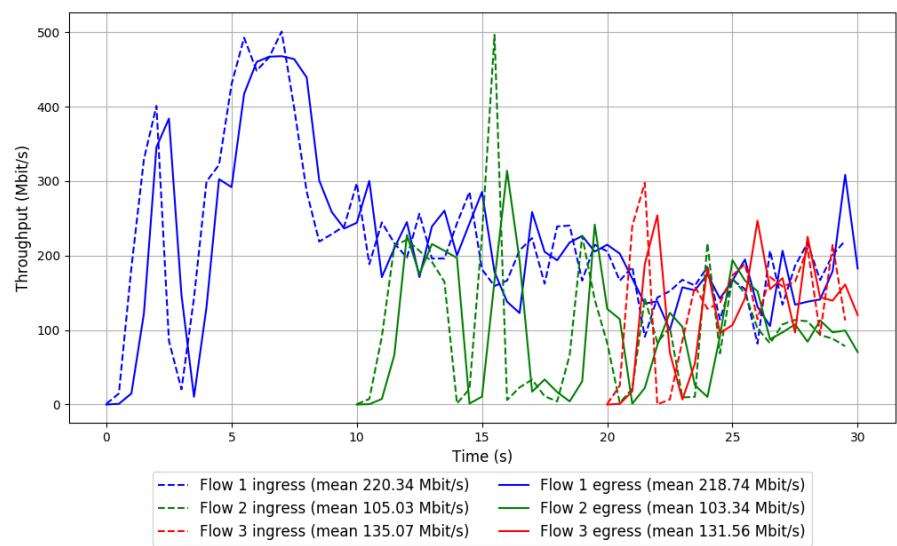
-- Flow 3:

Average throughput: 131.56 Mbit/s

95th percentile per-packet one-way delay: 295.859 ms

Loss rate: 3.83%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 16:17:56

End at: 2018-05-25 16:18:26

Local clock offset: -0.004 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-05-25 21:11:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.38 Mbit/s

95th percentile per-packet one-way delay: 189.210 ms

Loss rate: 3.39%

-- Flow 1:

Average throughput: 189.50 Mbit/s

95th percentile per-packet one-way delay: 156.651 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 306.420 ms

Loss rate: 6.28%

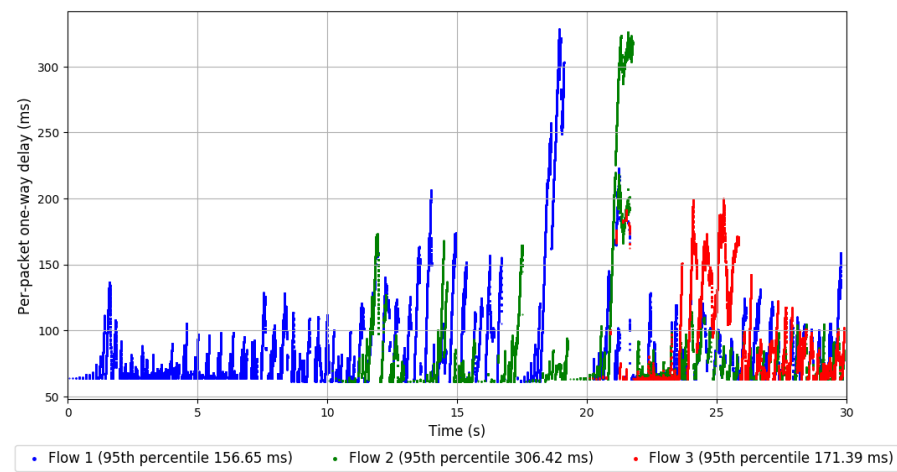
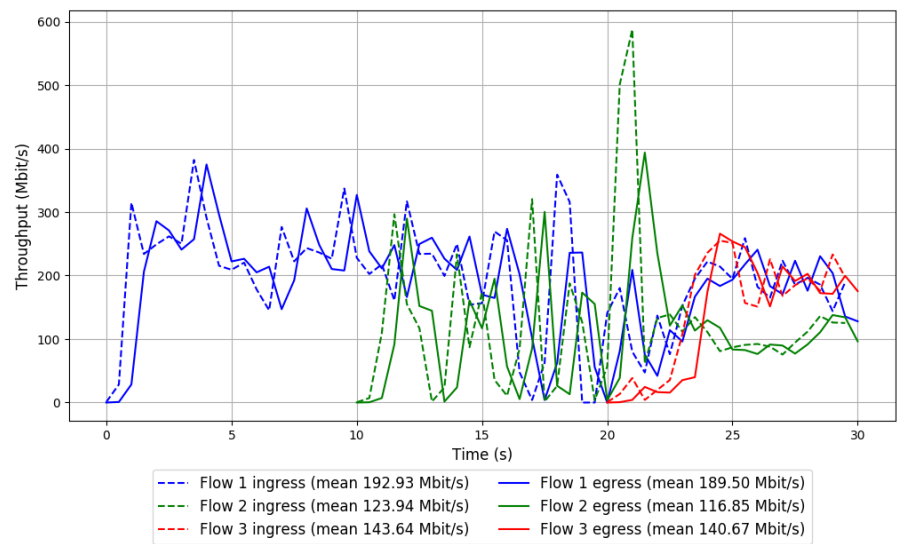
-- Flow 3:

Average throughput: 140.67 Mbit/s

95th percentile per-packet one-way delay: 171.390 ms

Loss rate: 3.27%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 16:41:03

End at: 2018-05-25 16:41:33

Local clock offset: -0.01 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-05-25 21:15:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 339.99 Mbit/s

95th percentile per-packet one-way delay: 232.570 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 211.75 Mbit/s

95th percentile per-packet one-way delay: 177.285 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 157.01 Mbit/s

95th percentile per-packet one-way delay: 267.490 ms

Loss rate: 4.72%

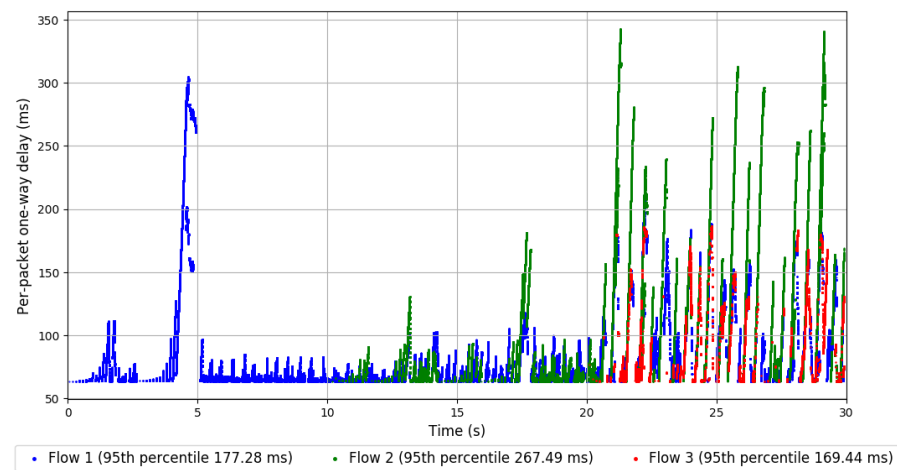
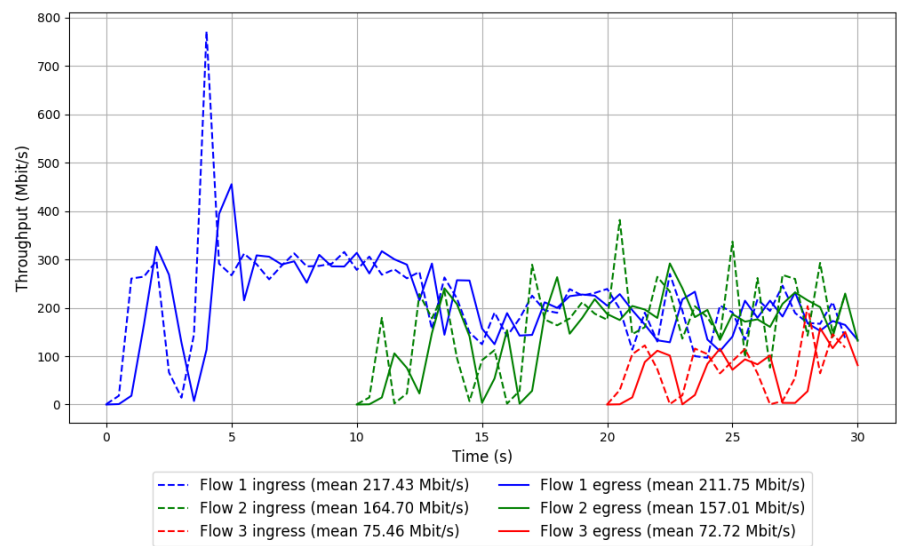
-- Flow 3:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 169.445 ms

Loss rate: 4.77%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-25 17:04:22

End at: 2018-05-25 17:04:52

Local clock offset: 0.006 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-05-25 21:15:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.72 Mbit/s

95th percentile per-packet one-way delay: 160.929 ms

Loss rate: 3.65%

-- Flow 1:

Average throughput: 189.77 Mbit/s

95th percentile per-packet one-way delay: 107.588 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 119.54 Mbit/s

95th percentile per-packet one-way delay: 189.801 ms

Loss rate: 2.58%

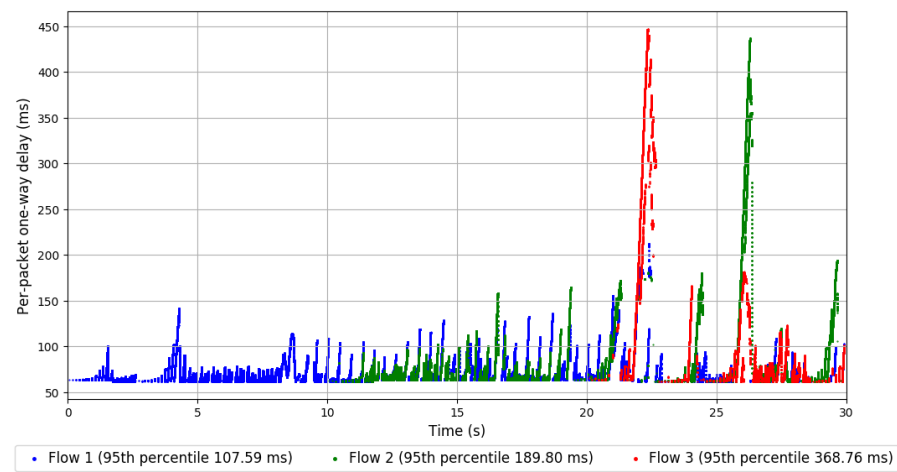
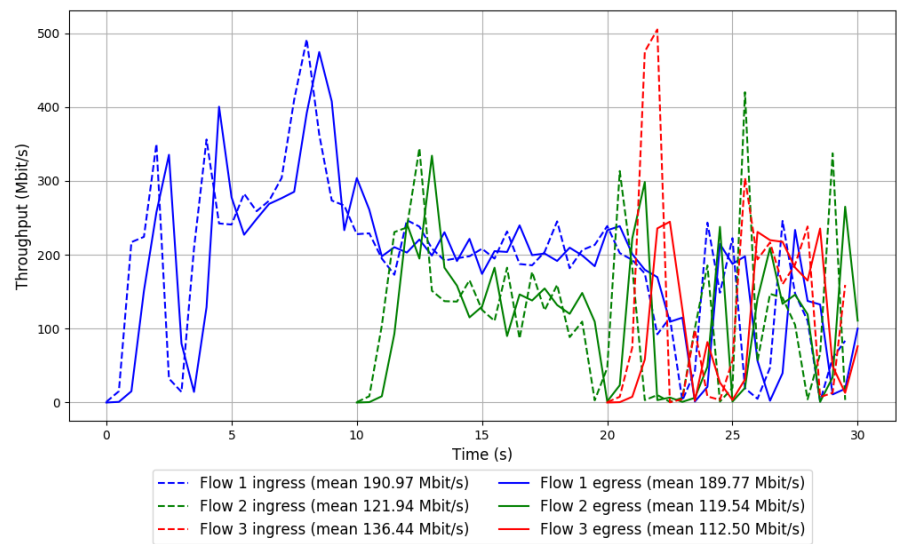
-- Flow 3:

Average throughput: 112.50 Mbit/s

95th percentile per-packet one-way delay: 368.759 ms

Loss rate: 18.60%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 17:27:27

End at: 2018-05-25 17:27:57

Local clock offset: -0.045 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-05-25 21:17:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.94 Mbit/s

95th percentile per-packet one-way delay: 132.026 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 214.39 Mbit/s

95th percentile per-packet one-way delay: 122.065 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 143.944 ms

Loss rate: 0.93%

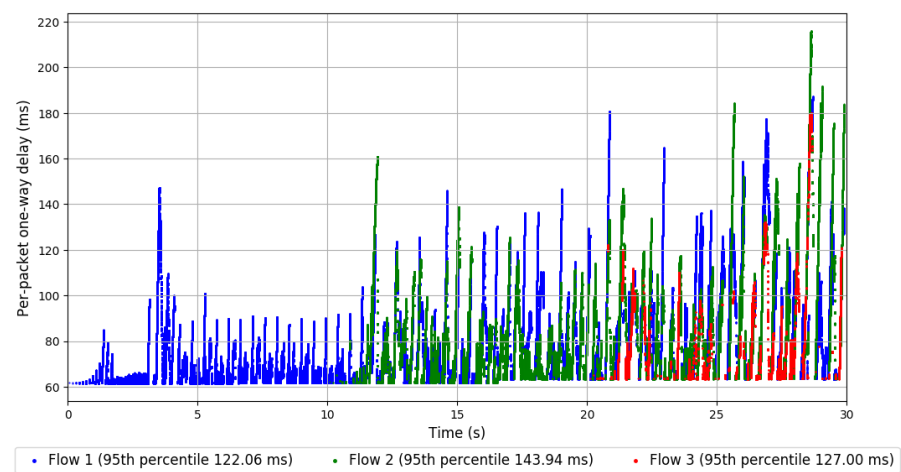
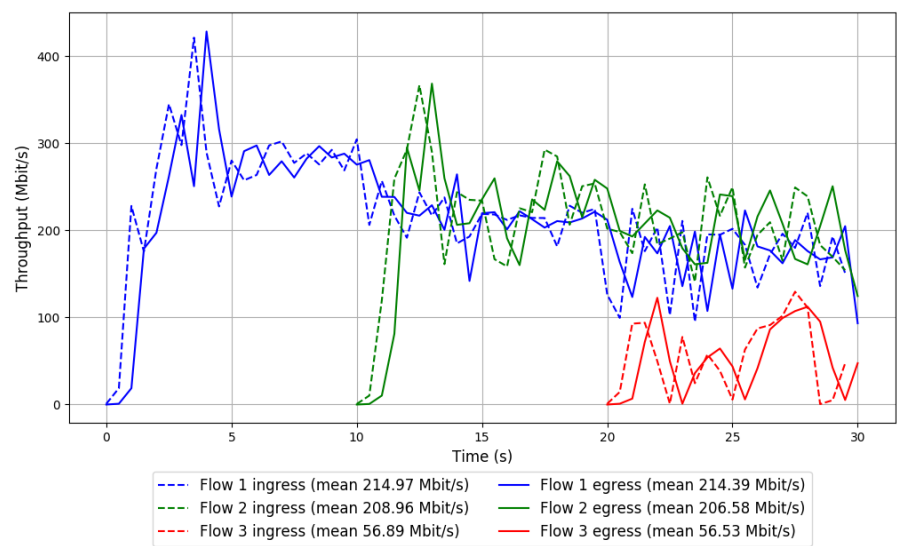
-- Flow 3:

Average throughput: 56.53 Mbit/s

95th percentile per-packet one-way delay: 126.998 ms

Loss rate: 0.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 17:51:01

End at: 2018-05-25 17:51:31

Local clock offset: -0.08 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-25 21:18:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 379.50 Mbit/s

95th percentile per-packet one-way delay: 139.900 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 231.99 Mbit/s

95th percentile per-packet one-way delay: 130.814 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 170.72 Mbit/s

95th percentile per-packet one-way delay: 158.979 ms

Loss rate: 1.36%

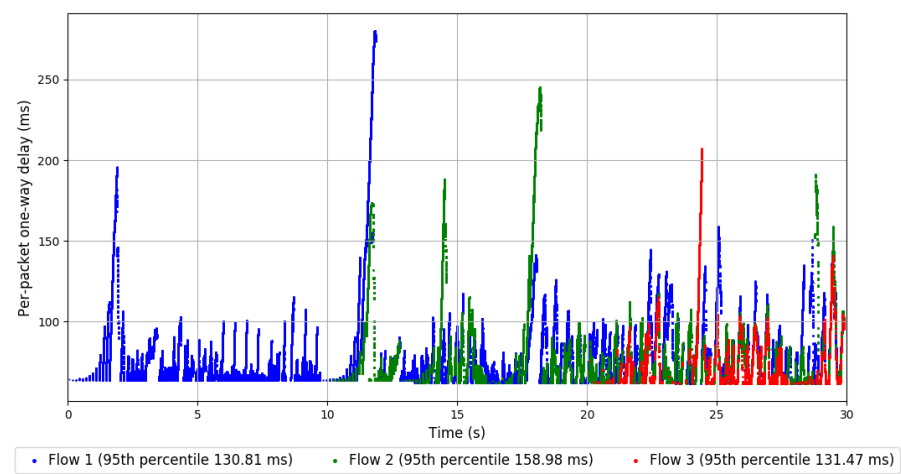
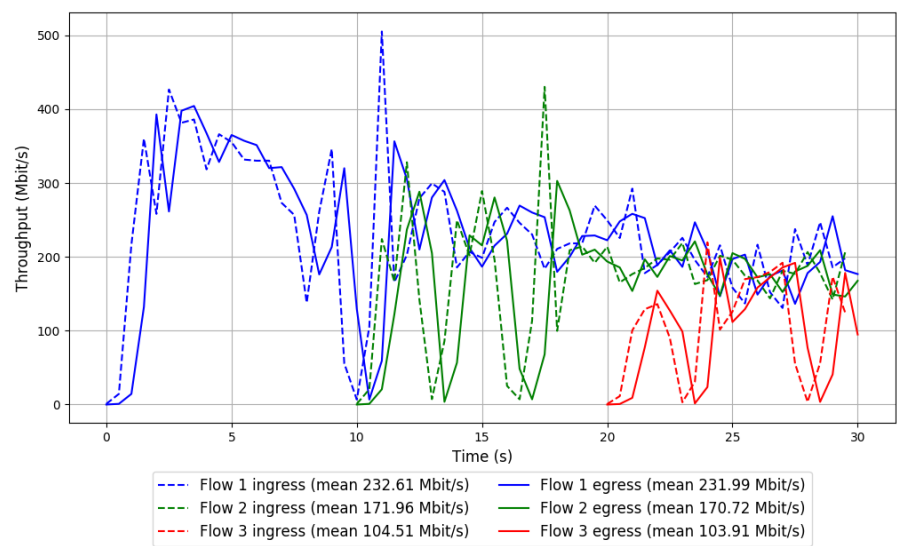
-- Flow 3:

Average throughput: 103.91 Mbit/s

95th percentile per-packet one-way delay: 131.468 ms

Loss rate: 1.94%

Run 9: Report of Verus — Data Link

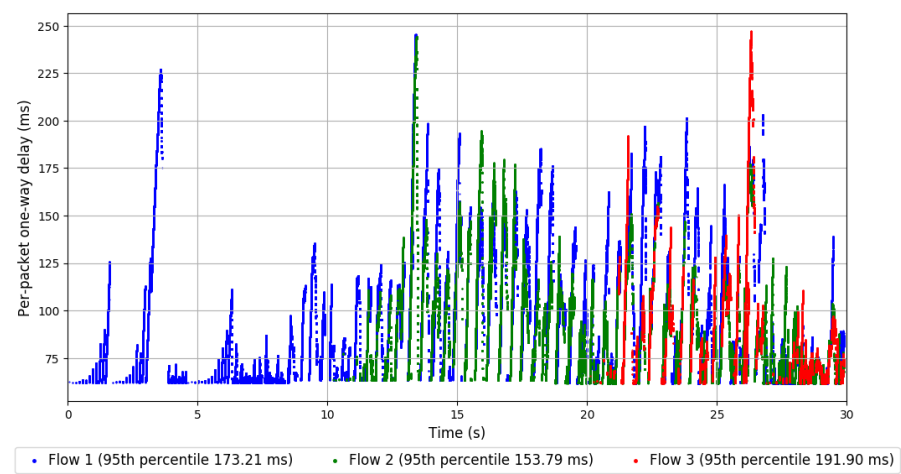
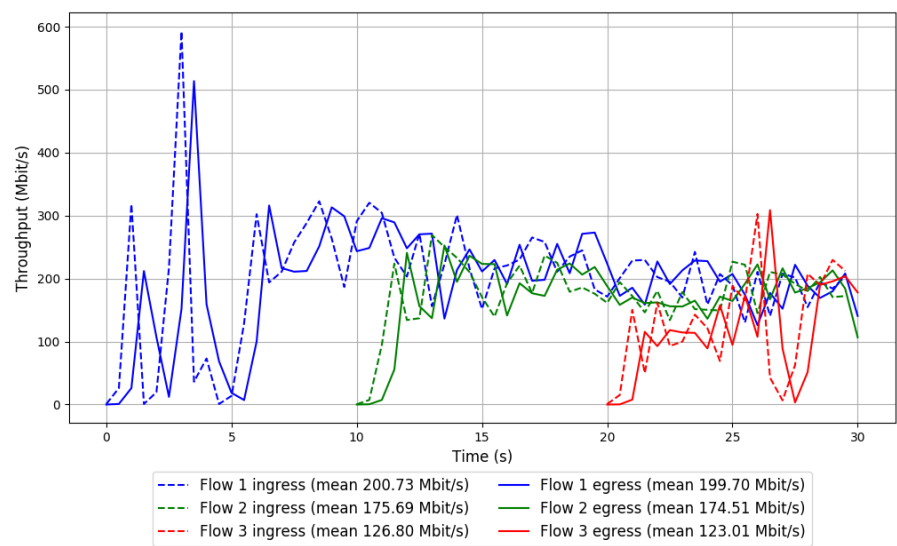


Run 10: Statistics of Verus

Start at: 2018-05-25 18:14:35
End at: 2018-05-25 18:15:05
Local clock offset: -0.079 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-05-25 21:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 355.93 Mbit/s
95th percentile per-packet one-way delay: 169.321 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 199.70 Mbit/s
95th percentile per-packet one-way delay: 173.205 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 174.51 Mbit/s
95th percentile per-packet one-way delay: 153.794 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 123.01 Mbit/s
95th percentile per-packet one-way delay: 191.897 ms
Loss rate: 4.28%

Run 10: Report of Verus — Data Link

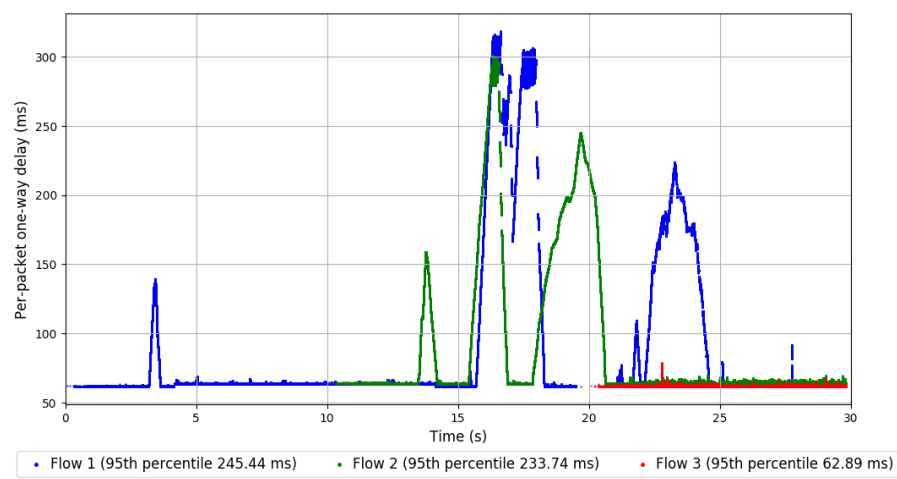
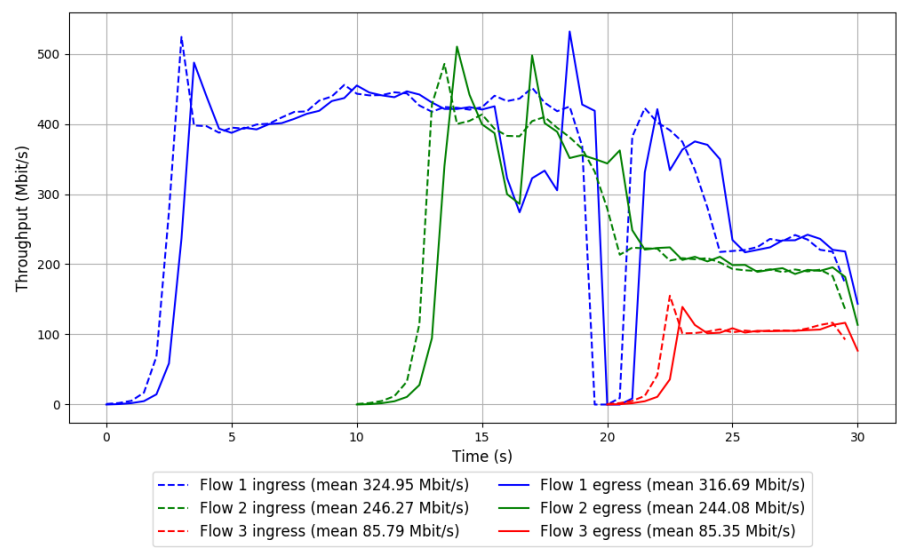


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 14:54:20
End at: 2018-05-25 14:54:50
Local clock offset: -0.028 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-05-25 21:23:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 506.52 Mbit/s
95th percentile per-packet one-way delay: 233.580 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 316.69 Mbit/s
95th percentile per-packet one-way delay: 245.436 ms
Loss rate: 2.95%
-- Flow 2:
Average throughput: 244.08 Mbit/s
95th percentile per-packet one-way delay: 233.738 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 85.35 Mbit/s
95th percentile per-packet one-way delay: 62.888 ms
Loss rate: 1.78%

Run 1: Report of PCC-Vivace — Data Link

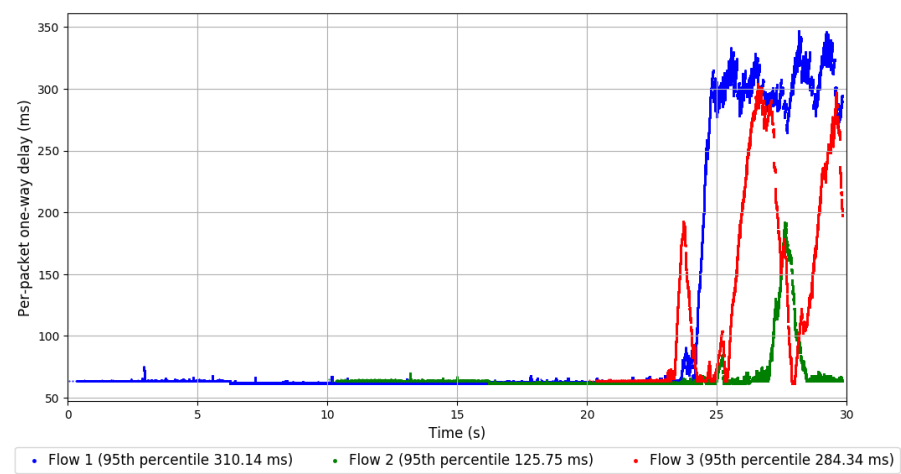
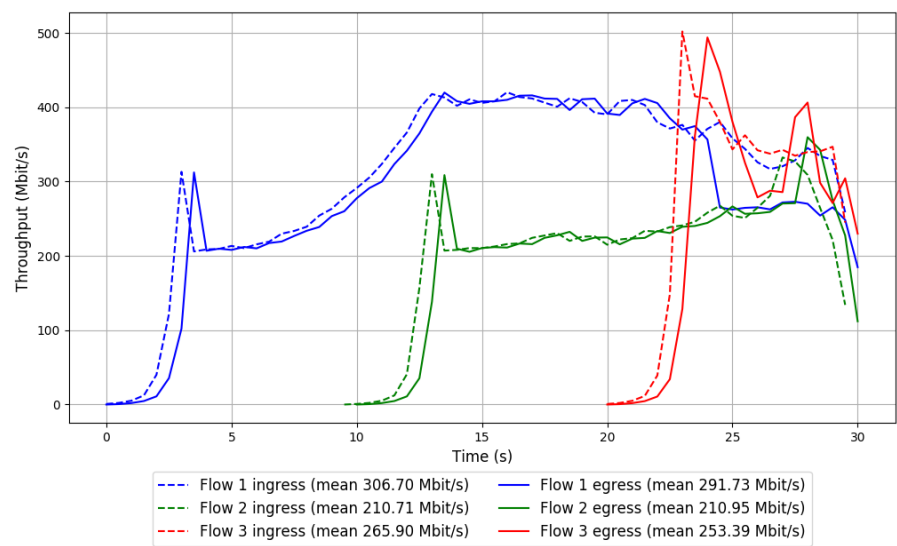


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 15:17:38
End at: 2018-05-25 15:18:08
Local clock offset: 0.055 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-05-25 21:23:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 514.74 Mbit/s
95th percentile per-packet one-way delay: 299.436 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 291.73 Mbit/s
95th percentile per-packet one-way delay: 310.138 ms
Loss rate: 5.29%
-- Flow 2:
Average throughput: 210.95 Mbit/s
95th percentile per-packet one-way delay: 125.746 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 253.39 Mbit/s
95th percentile per-packet one-way delay: 284.339 ms
Loss rate: 5.95%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 15:41:04

End at: 2018-05-25 15:41:34

Local clock offset: 0.104 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-05-25 21:23:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 455.23 Mbit/s

95th percentile per-packet one-way delay: 234.964 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 337.44 Mbit/s

95th percentile per-packet one-way delay: 205.745 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 63.072 ms

Loss rate: 0.97%

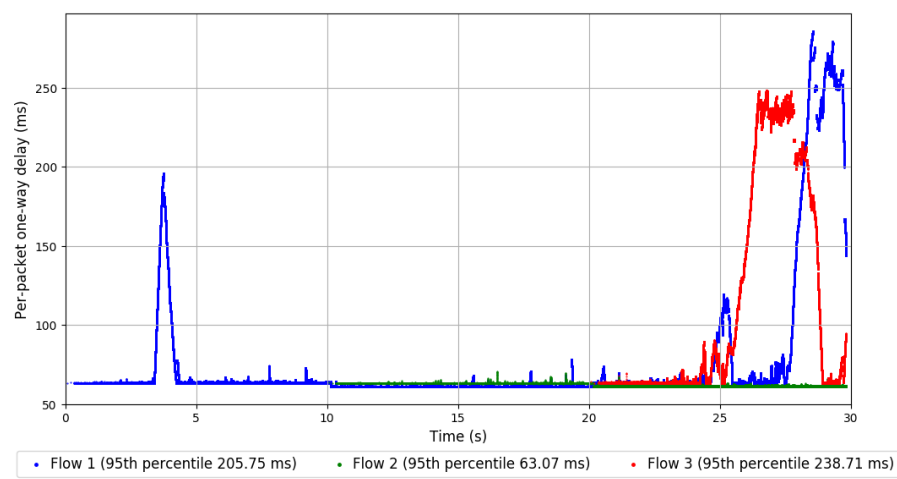
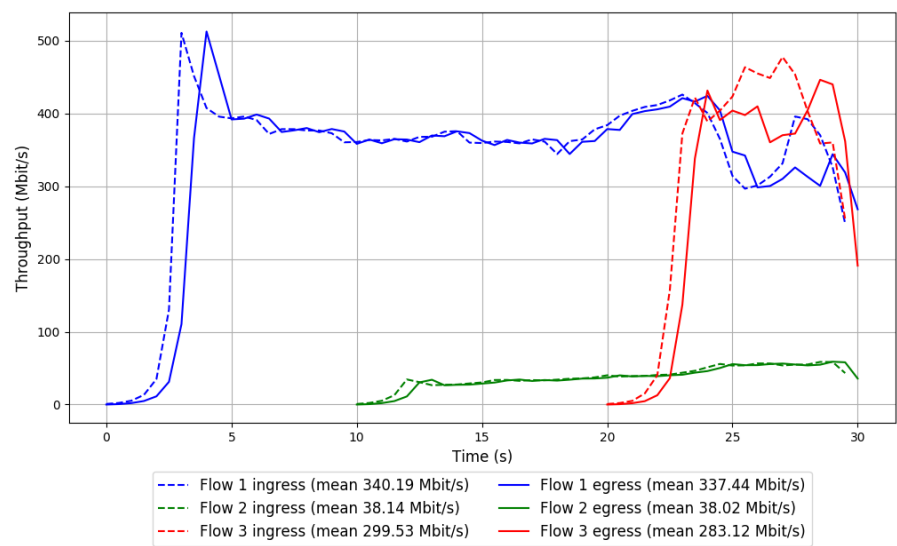
-- Flow 3:

Average throughput: 283.12 Mbit/s

95th percentile per-packet one-way delay: 238.708 ms

Loss rate: 6.69%

Run 3: Report of PCC-Vivace — Data Link

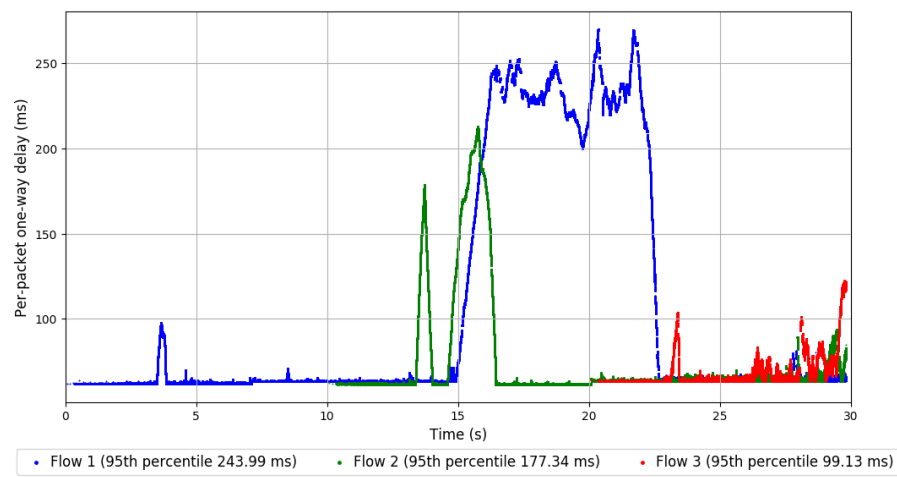
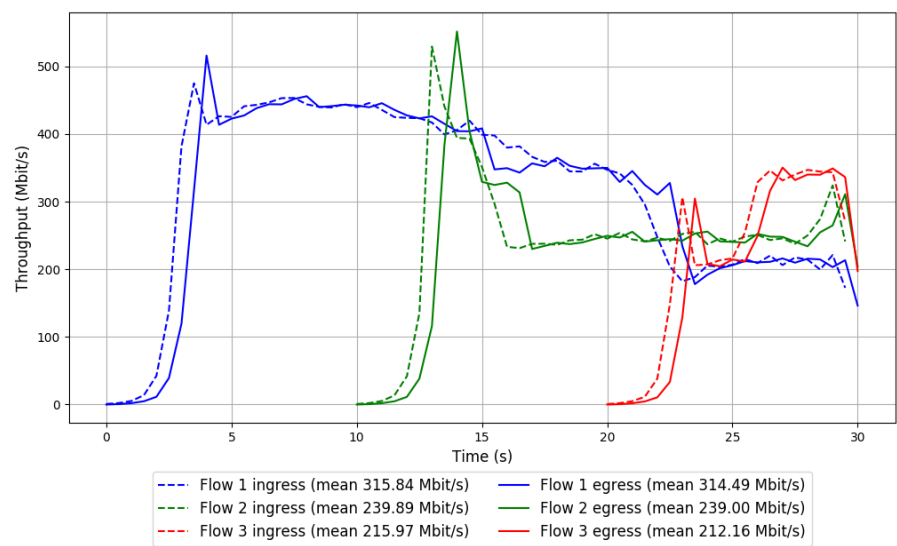


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 16:04:17
End at: 2018-05-25 16:04:47
Local clock offset: 0.104 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-05-25 21:27:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 542.55 Mbit/s
95th percentile per-packet one-way delay: 237.046 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 314.49 Mbit/s
95th percentile per-packet one-way delay: 243.992 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 239.00 Mbit/s
95th percentile per-packet one-way delay: 177.345 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 212.16 Mbit/s
95th percentile per-packet one-way delay: 99.127 ms
Loss rate: 3.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 16:27:48

End at: 2018-05-25 16:28:18

Local clock offset: -0.022 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2018-05-25 21:27:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.98 Mbit/s

95th percentile per-packet one-way delay: 90.450 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 235.22 Mbit/s

95th percentile per-packet one-way delay: 84.840 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 151.81 Mbit/s

95th percentile per-packet one-way delay: 98.702 ms

Loss rate: 1.05%

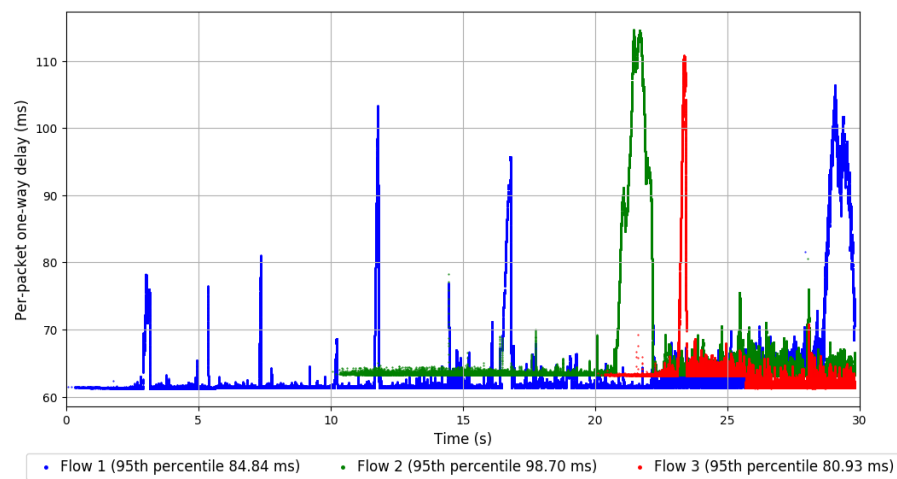
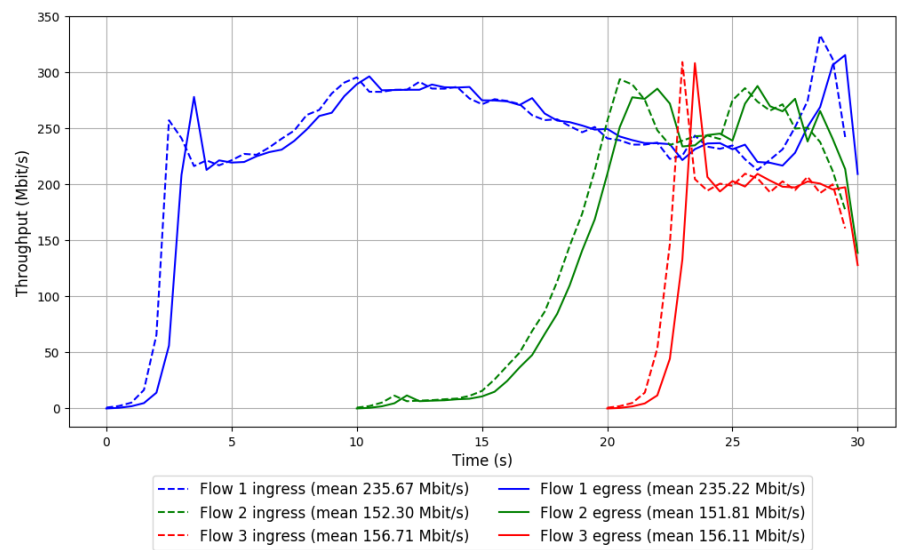
-- Flow 3:

Average throughput: 156.11 Mbit/s

95th percentile per-packet one-way delay: 80.926 ms

Loss rate: 1.86%

Run 5: Report of PCC-Vivace — Data Link

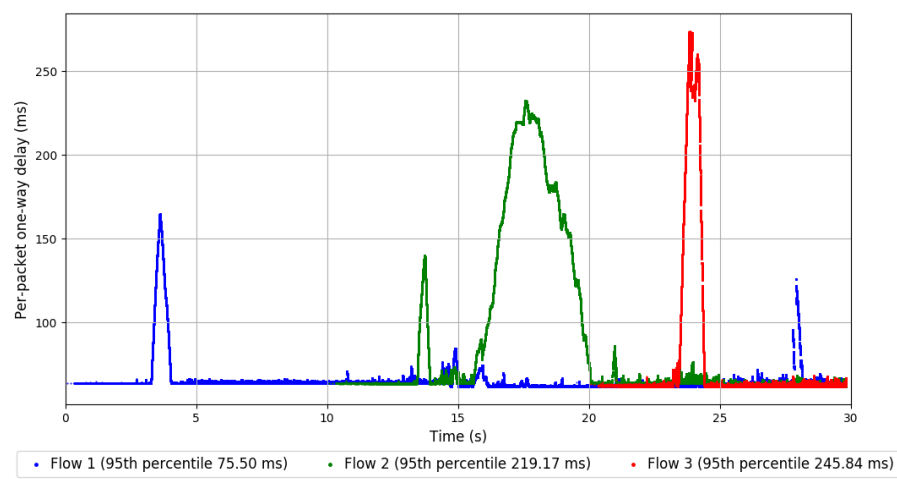
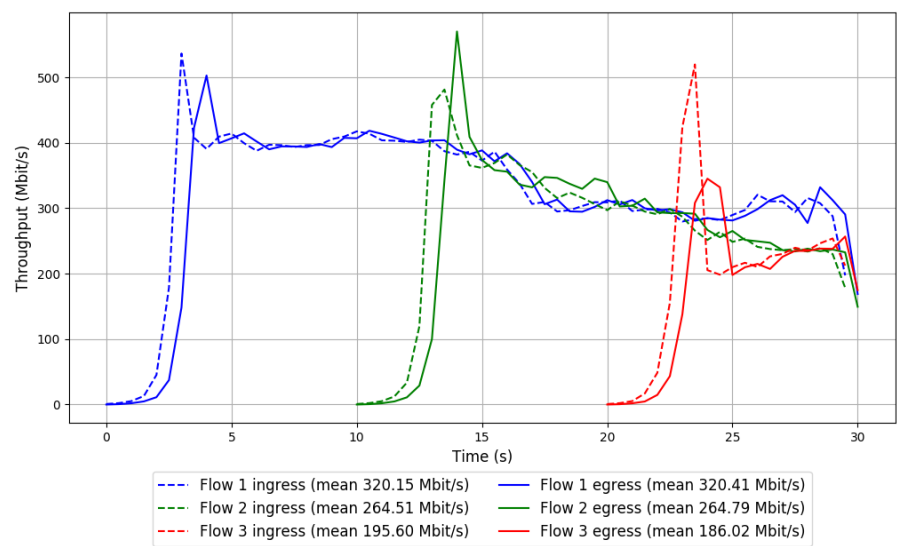


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 16:50:59
End at: 2018-05-25 16:51:29
Local clock offset: -0.056 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-05-25 21:28:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.00 Mbit/s
95th percentile per-packet one-way delay: 179.323 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 320.41 Mbit/s
95th percentile per-packet one-way delay: 75.505 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 264.79 Mbit/s
95th percentile per-packet one-way delay: 219.173 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 245.843 ms
Loss rate: 6.12%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 17:14:11

End at: 2018-05-25 17:14:41

Local clock offset: -0.043 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-05-25 21:28:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.50 Mbit/s

95th percentile per-packet one-way delay: 228.880 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 313.08 Mbit/s

95th percentile per-packet one-way delay: 238.842 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 248.12 Mbit/s

95th percentile per-packet one-way delay: 227.884 ms

Loss rate: 3.39%

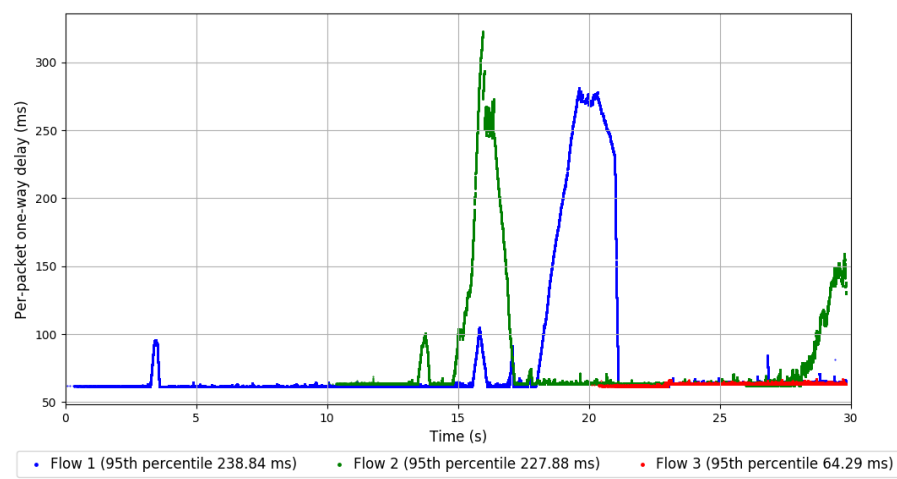
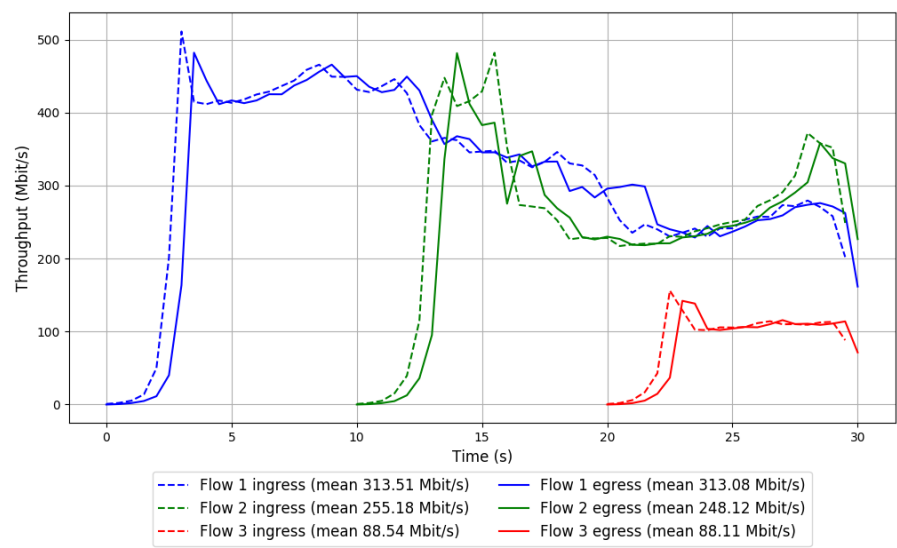
-- Flow 3:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 64.291 ms

Loss rate: 1.77%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 17:37:25

End at: 2018-05-25 17:37:55

Local clock offset: -0.069 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-05-25 21:28:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.39 Mbit/s

95th percentile per-packet one-way delay: 172.654 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 298.36 Mbit/s

95th percentile per-packet one-way delay: 241.329 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 224.62 Mbit/s

95th percentile per-packet one-way delay: 68.758 ms

Loss rate: 0.90%

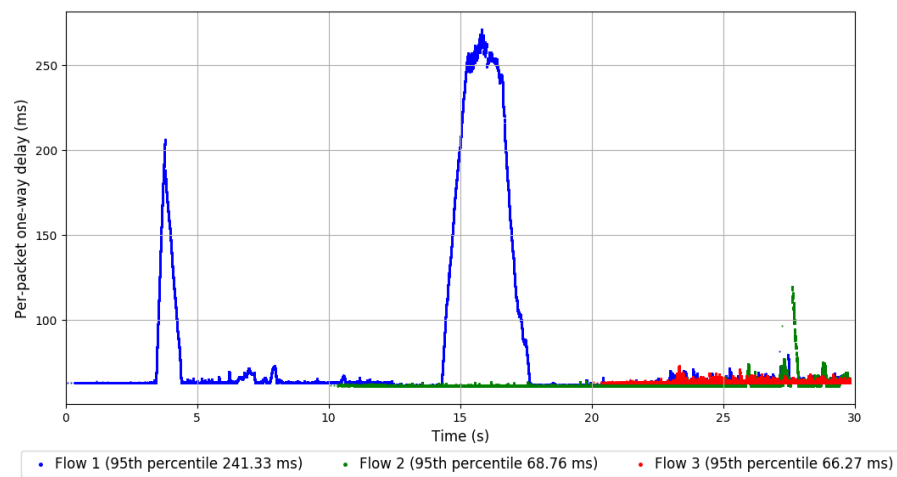
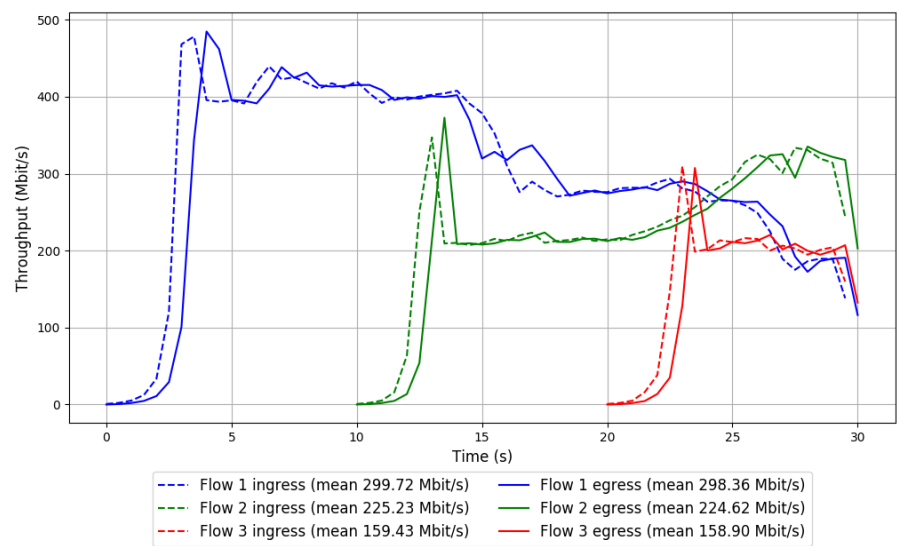
-- Flow 3:

Average throughput: 158.90 Mbit/s

95th percentile per-packet one-way delay: 66.270 ms

Loss rate: 1.62%

Run 8: Report of PCC-Vivace — Data Link

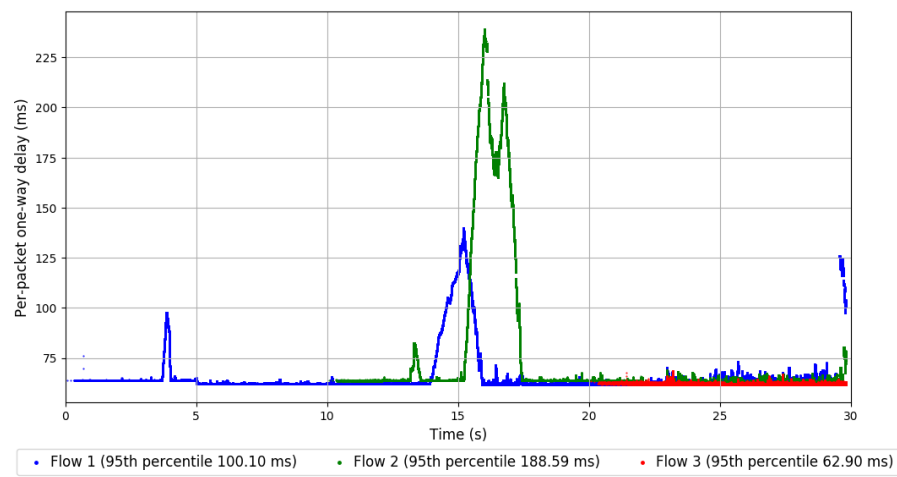
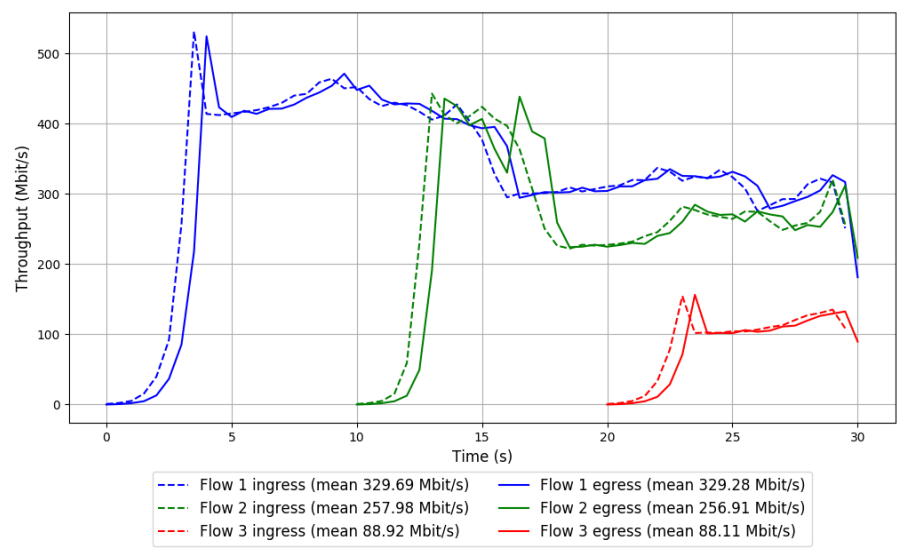


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 18:01:02
End at: 2018-05-25 18:01:32
Local clock offset: -0.049 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2018-05-25 21:29:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 528.59 Mbit/s
95th percentile per-packet one-way delay: 123.452 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 329.28 Mbit/s
95th percentile per-packet one-way delay: 100.099 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 256.91 Mbit/s
95th percentile per-packet one-way delay: 188.587 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 62.901 ms
Loss rate: 2.19%

Run 9: Report of PCC-Vivace — Data Link

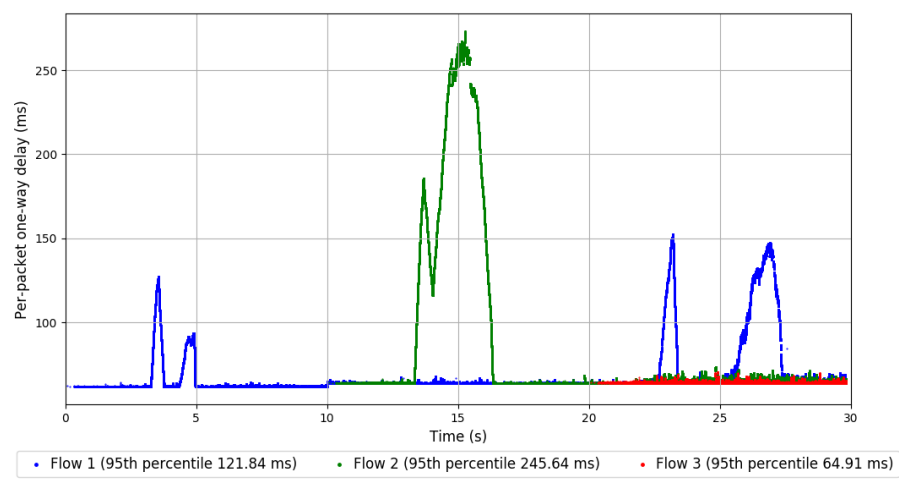
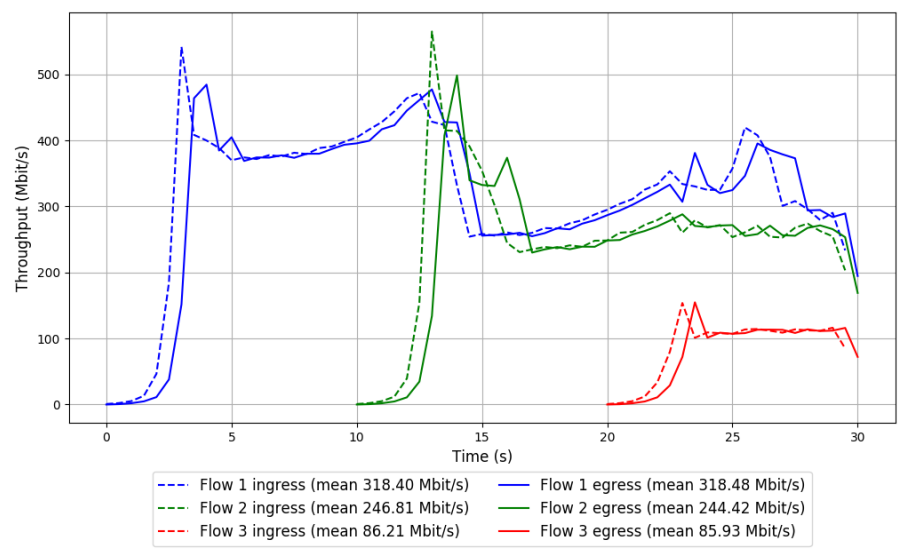


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 18:24:14
End at: 2018-05-25 18:24:44
Local clock offset: -0.08 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-05-25 21:29:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 508.77 Mbit/s
95th percentile per-packet one-way delay: 156.536 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 318.48 Mbit/s
95th percentile per-packet one-way delay: 121.841 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 244.42 Mbit/s
95th percentile per-packet one-way delay: 245.640 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 64.911 ms
Loss rate: 1.63%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-25 14:49:09

End at: 2018-05-25 14:49:39

Local clock offset: -0.014 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 64.860 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 0.00%

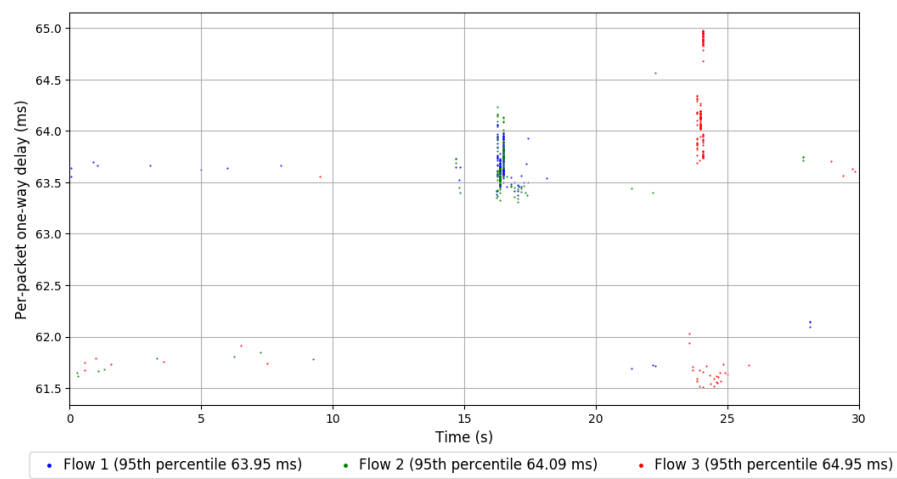
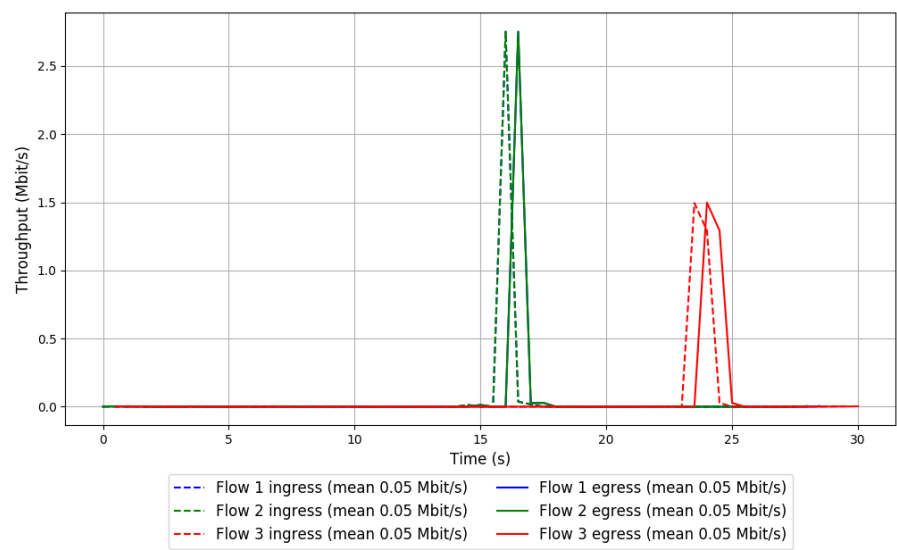
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 15:12:25

End at: 2018-05-25 15:12:55

Local clock offset: 0.071 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.778 ms

Loss rate: 0.00%

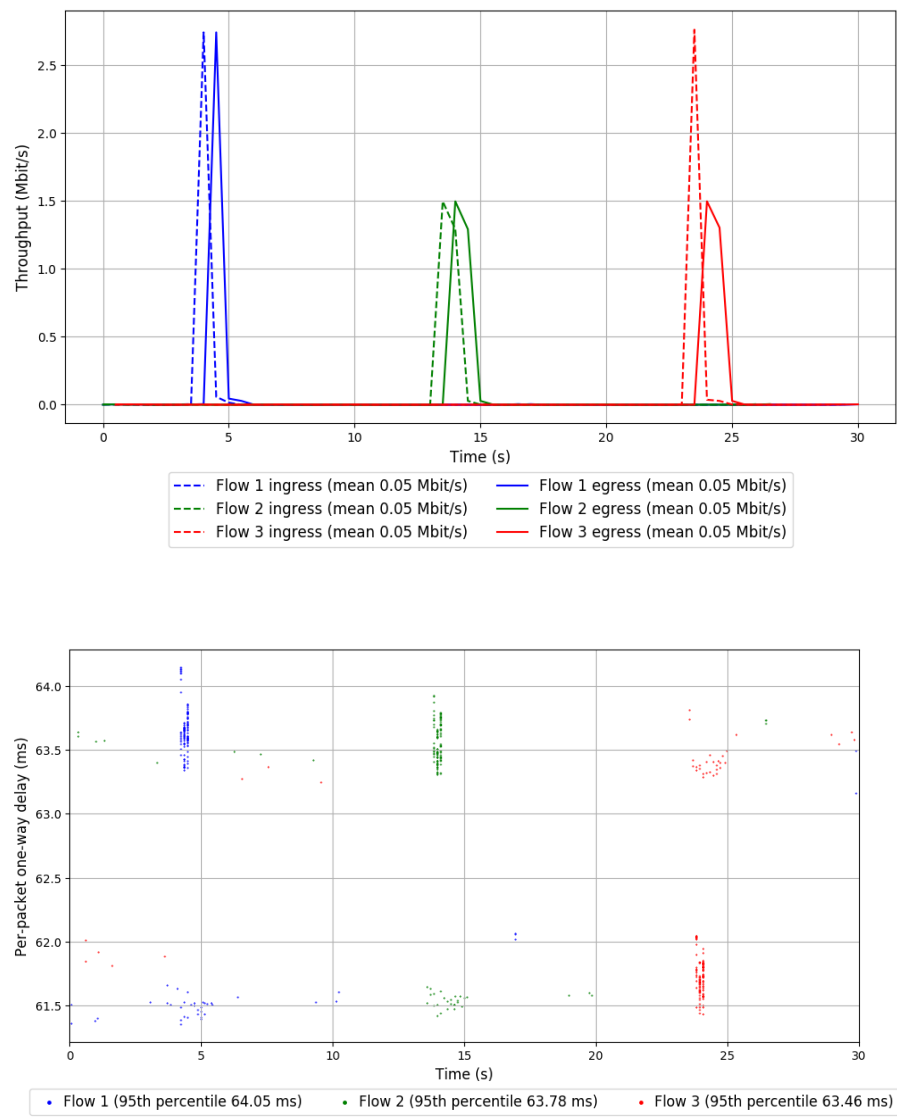
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.462 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

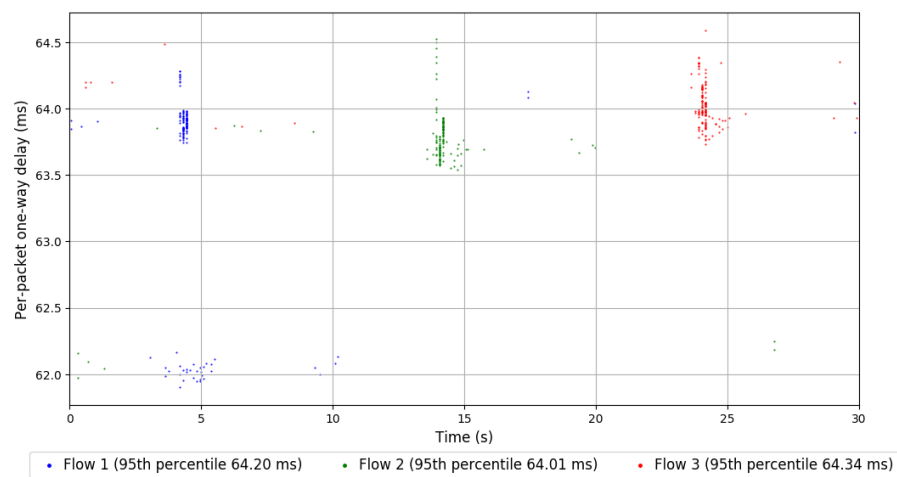
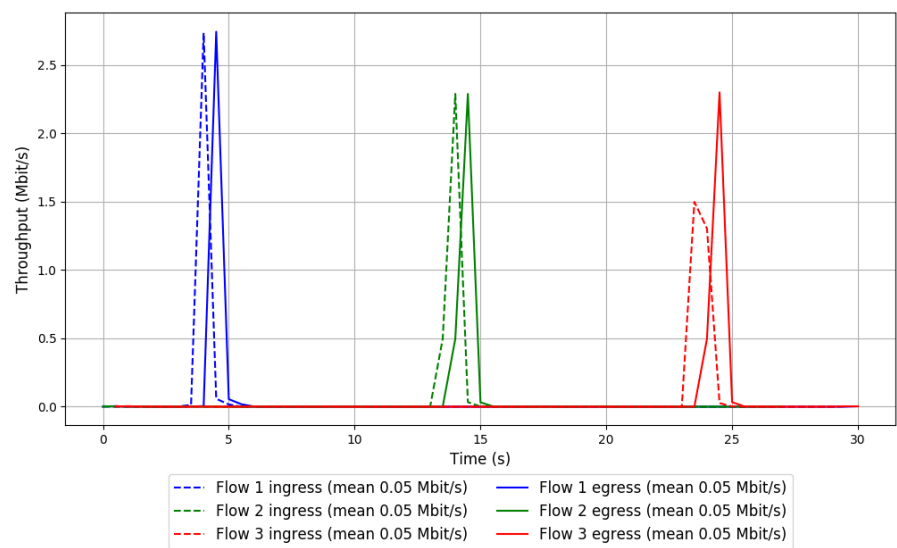


Run 3: Statistics of WebRTC media

Start at: 2018-05-25 15:35:45
End at: 2018-05-25 15:36:15
Local clock offset: 0.08 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-05-25 21:29:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.340 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

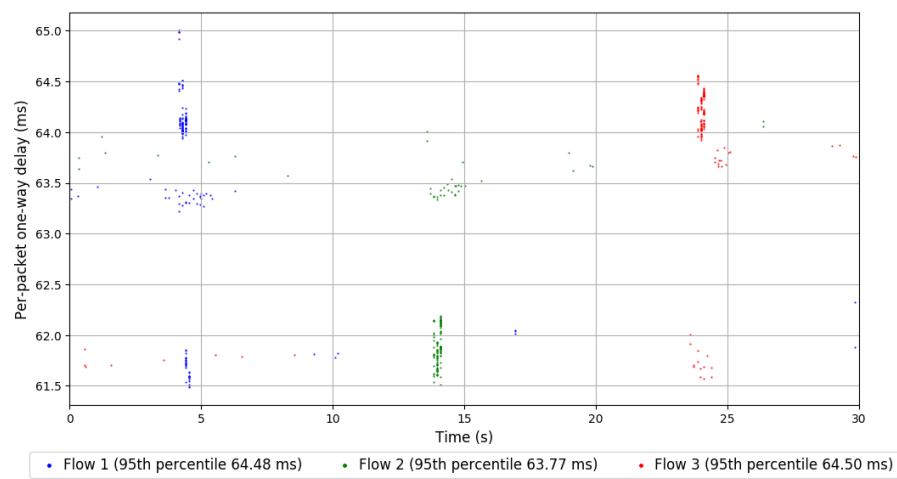
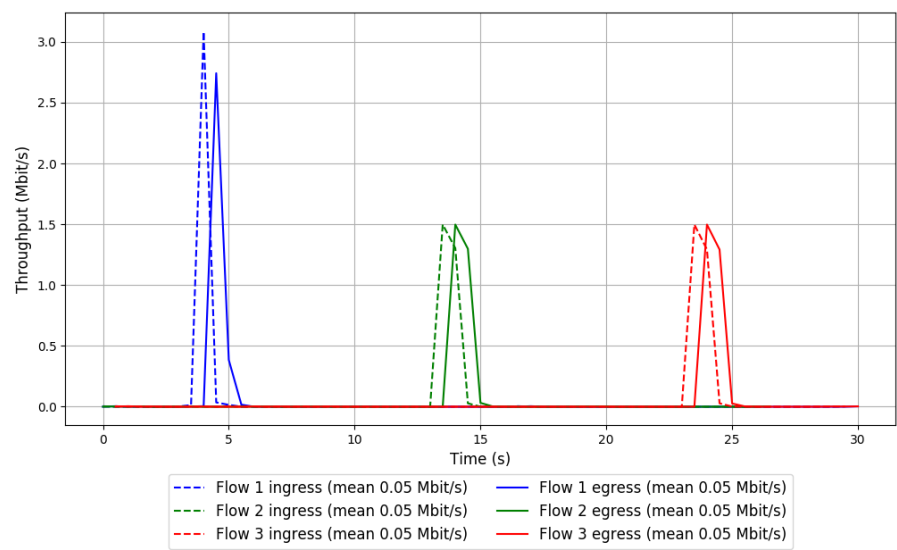


Run 4: Statistics of WebRTC media

Start at: 2018-05-25 15:59:03
End at: 2018-05-25 15:59:33
Local clock offset: 0.079 ms
Remote clock offset: -0.098 ms

```
# Below is generated by plot.py at 2018-05-25 21:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.480 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.500 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 16:22:35

End at: 2018-05-25 16:23:05

Local clock offset: -0.019 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 64.042 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.151 ms

Loss rate: 0.00%

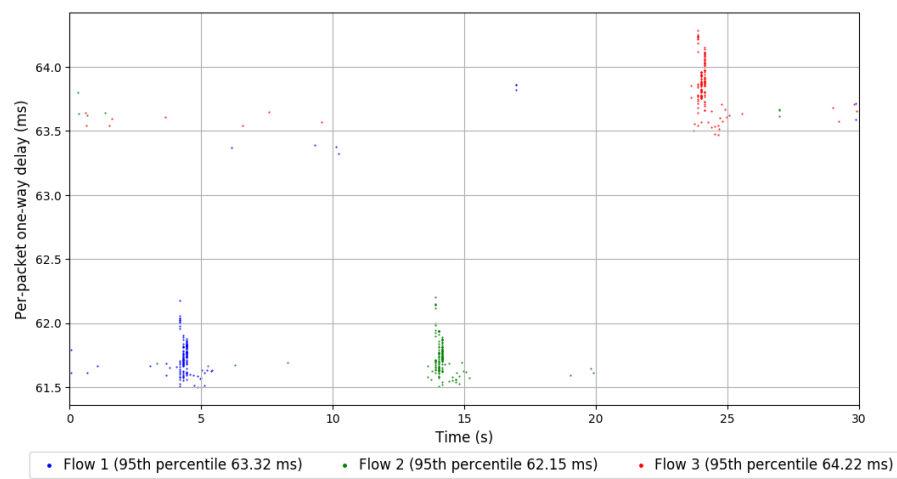
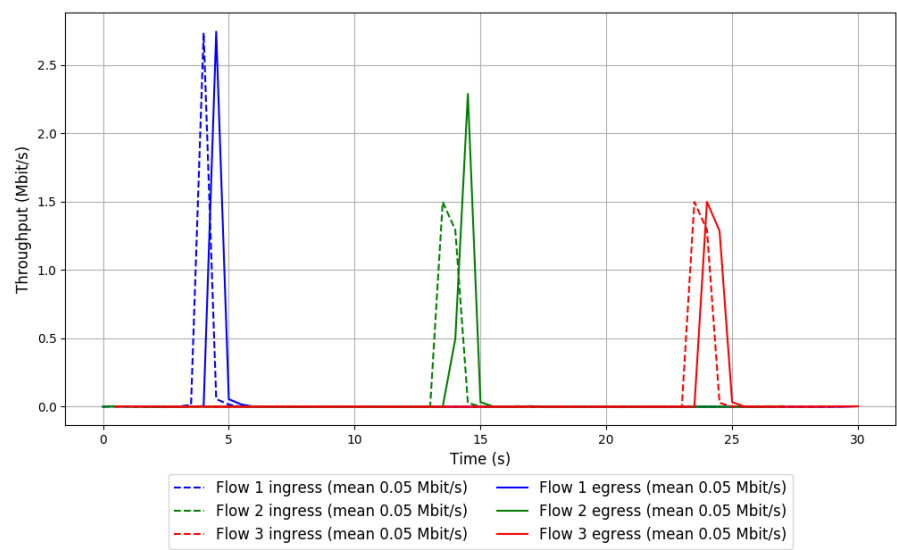
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.216 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 16:45:43

End at: 2018-05-25 16:46:13

Local clock offset: -0.03 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.840 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.841 ms

Loss rate: 0.00%

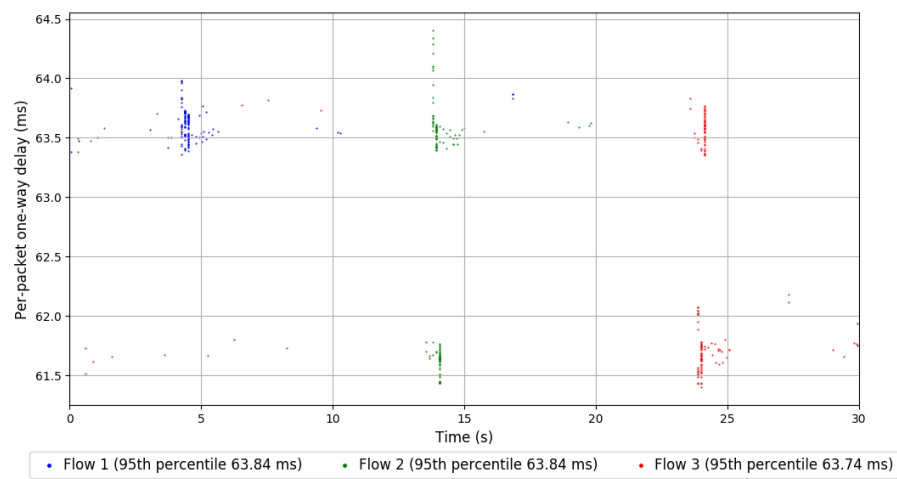
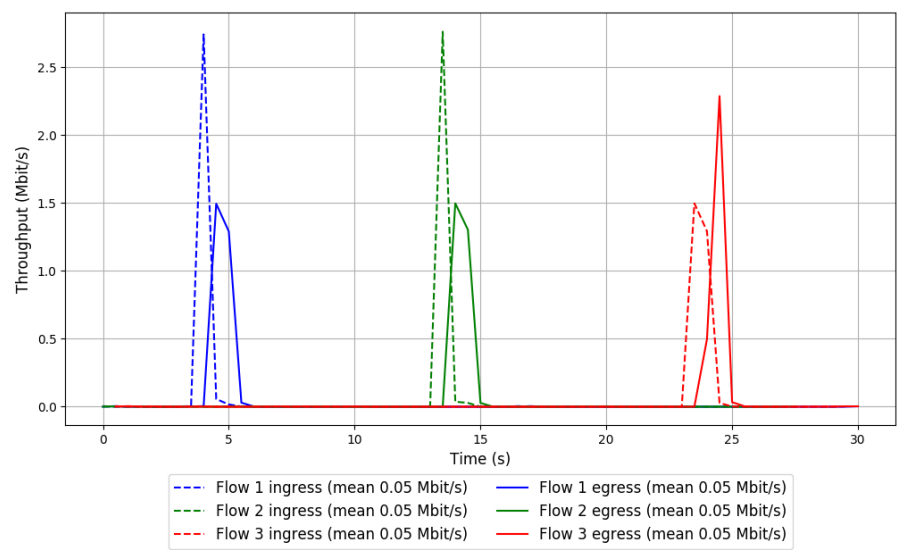
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.737 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 17:08:56

End at: 2018-05-25 17:09:26

Local clock offset: -0.021 ms

Remote clock offset: 0.563 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.916 ms

Loss rate: 0.00%

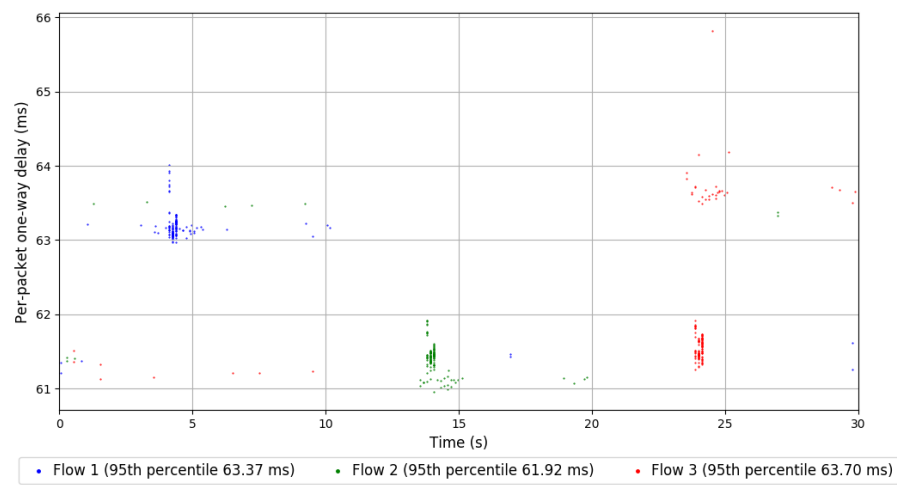
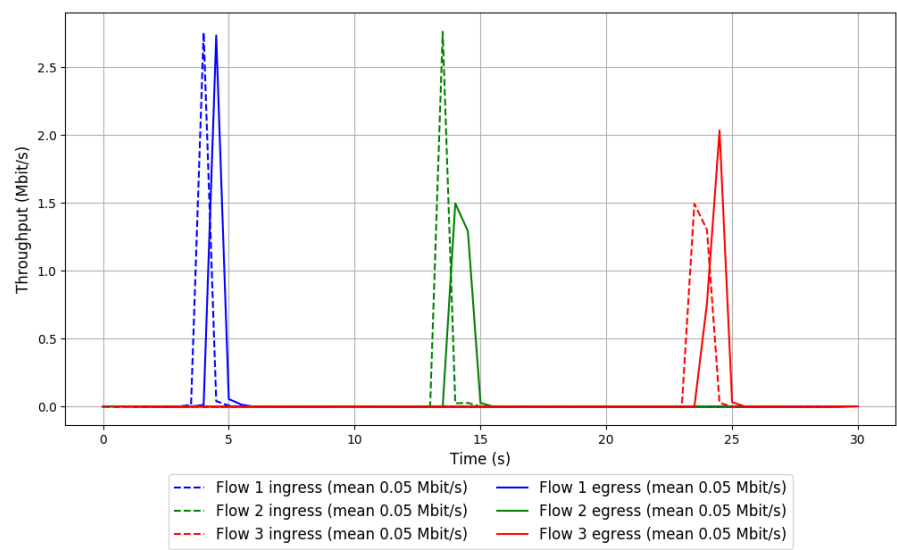
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.705 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 17:32:14

End at: 2018-05-25 17:32:44

Local clock offset: -0.092 ms

Remote clock offset: 0.622 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.258 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

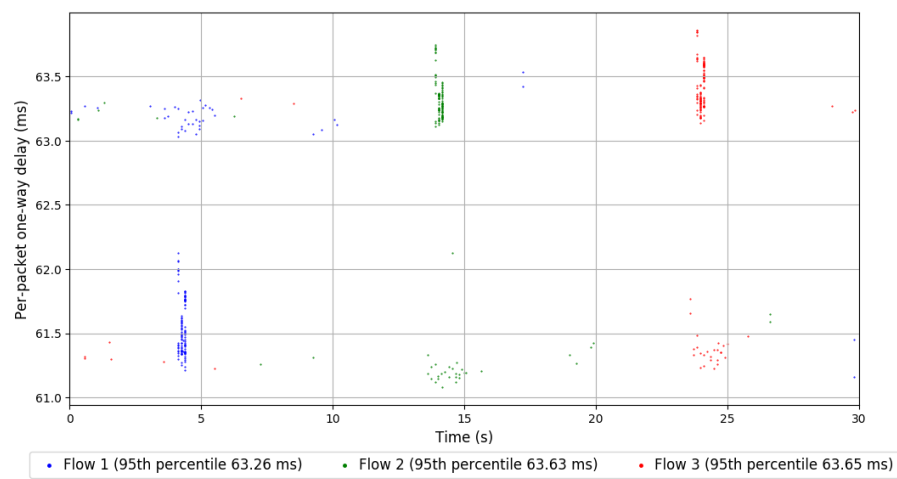
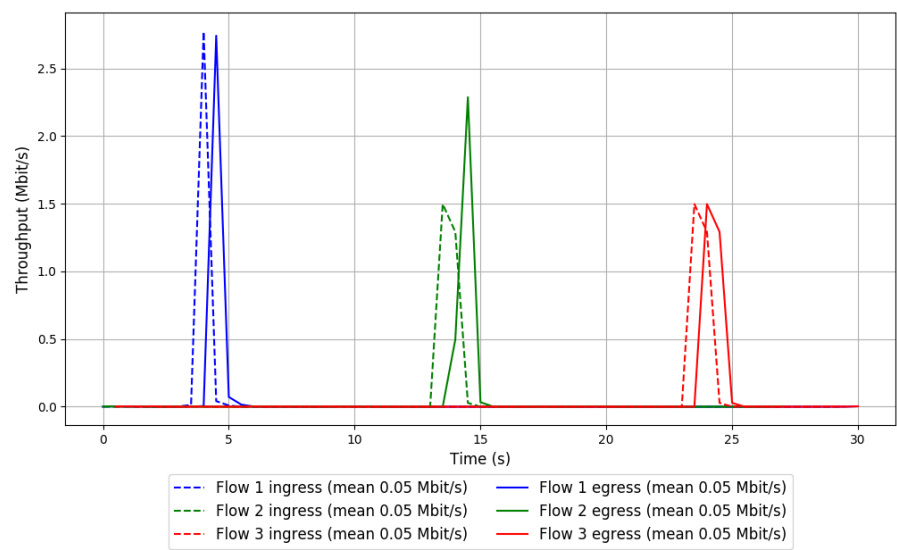
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.648 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 17:55:52

End at: 2018-05-25 17:56:22

Local clock offset: -0.067 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-05-25 21:29:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 63.856 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 0.00%

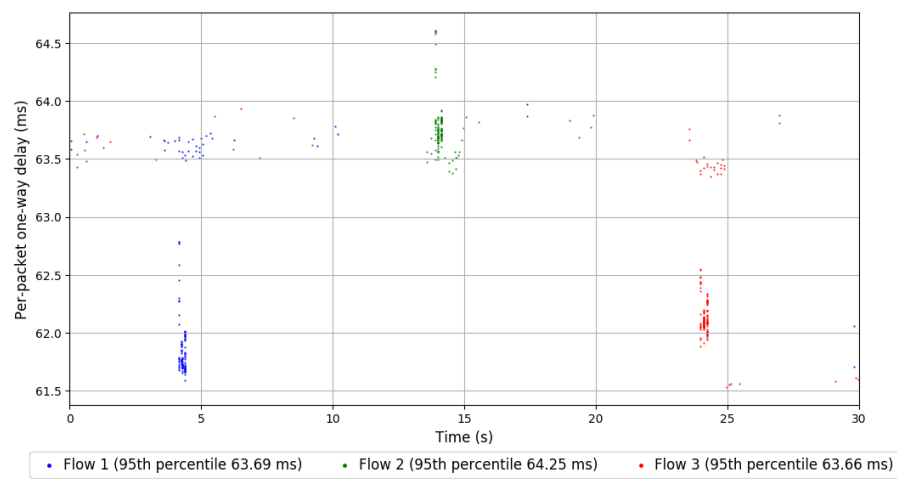
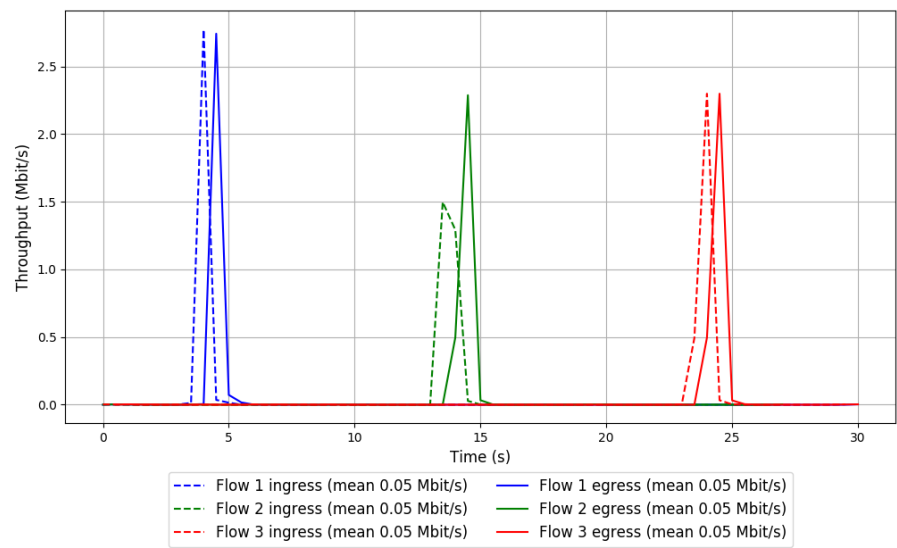
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 18:18:58
End at: 2018-05-25 18:19:28
Local clock offset: -0.074 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-05-25 21:29:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 64.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.040 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

