

Pantheon Report

Generated at 2018-06-06 23:49:35 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Sydney 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.

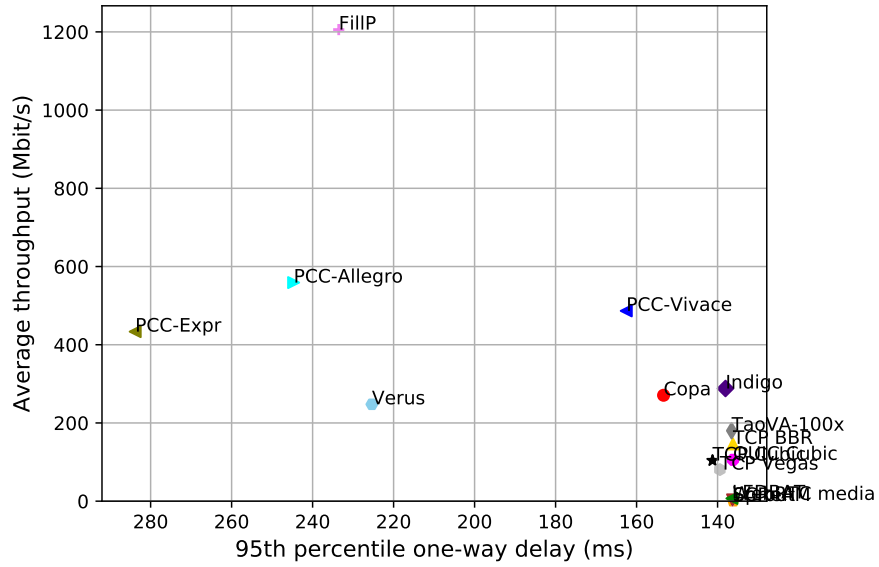
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

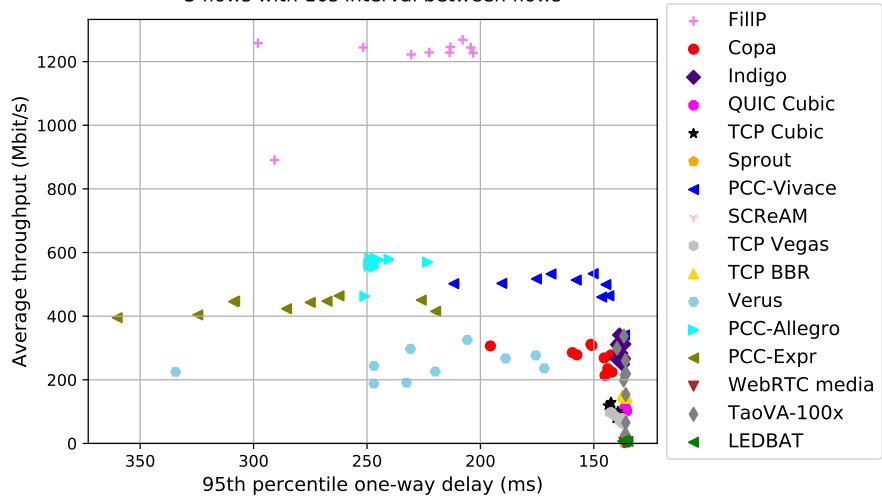
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Sydney, 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	75.71	74.05	66.44	136.07	136.11	136.23	0.90	1.47	3.41
Copa	10	159.72	120.21	98.42	153.92	146.81	154.88	0.74	1.07	4.26
TCP Cubic	10	62.28	41.49	43.63	141.18	140.19	141.63	1.09	2.19	3.60
FillP	10	636.29	619.50	489.79	229.89	225.73	190.20	3.35	3.75	3.61
Indigo	10	150.08	140.18	140.16	137.43	138.65	140.81	0.93	1.49	3.45
LEDBAT	10	4.79	2.67	1.28	136.50	136.34	136.38	1.83	2.75	5.56
PCC-Allegro	10	479.86	100.73	38.54	244.88	243.62	238.93	3.03	3.22	4.52
PCC-Expr	10	298.97	172.46	63.07	293.67	169.48	168.11	5.72	1.77	3.42
QUIC Cubic	10	58.09	54.20	35.79	136.01	135.54	135.81	1.23	1.65	3.49
SCReAM	10	0.22	0.22	0.22	135.76	136.09	135.95	0.89	1.43	2.59
Sprout	10	0.16	0.17	0.21	136.04	136.03	136.01	0.81	1.51	1.77
TaoVA-100x	10	103.74	83.28	65.27	136.35	136.45	137.33	1.00	1.37	3.23
TCP Vegas	10	34.37	53.60	33.63	138.39	139.28	139.30	0.98	1.50	3.20
Verus	10	166.07	88.53	72.69	203.34	224.14	215.44	2.14	1.47	3.96
PCC-Vivace	10	302.51	219.40	120.26	168.97	154.21	164.47	1.13	1.82	4.51
WebRTC media	10	1.80	1.10	0.37	135.86	136.04	136.13	1.55	1.85	4.13

Run 1: Statistics of TCP BBR

Start at: 2018-06-06 17:46:58

End at: 2018-06-06 17:47:28

Local clock offset: 0.439 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-06-06 21:55:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.00 Mbit/s

95th percentile per-packet one-way delay: 137.428 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 136.643 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 137.487 ms

Loss rate: 1.39%

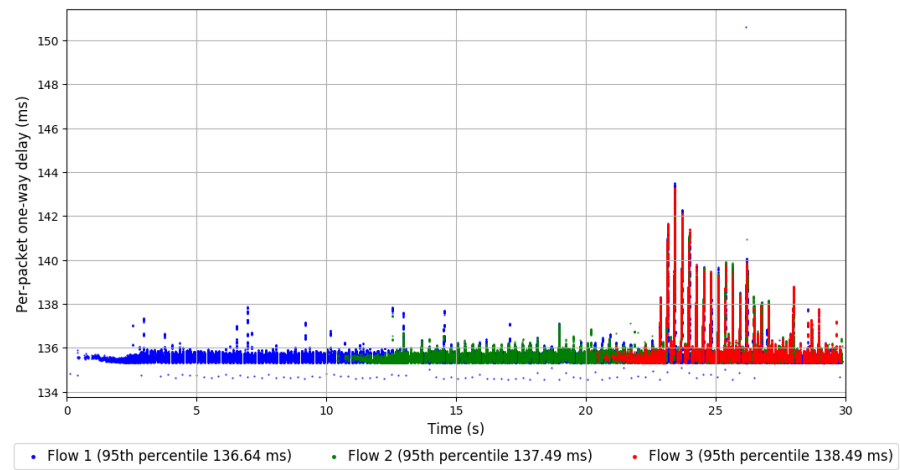
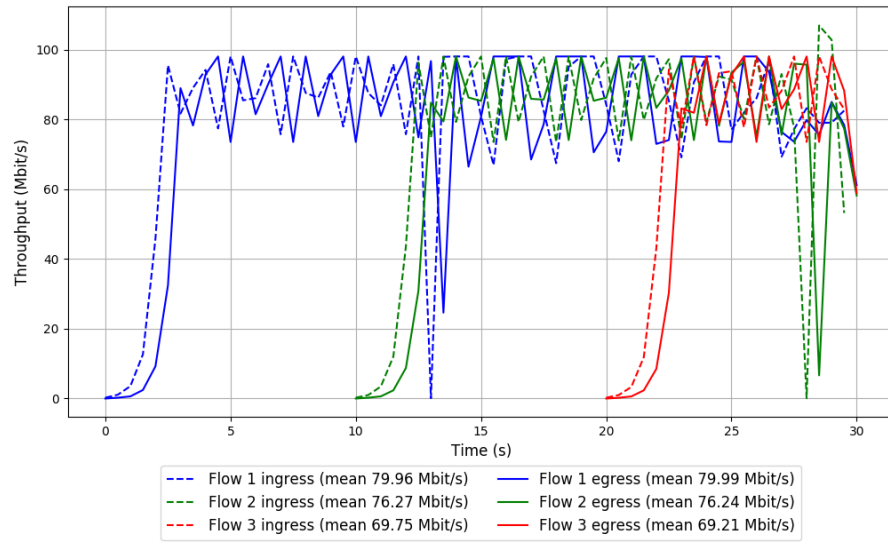
-- Flow 3:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 138.491 ms

Loss rate: 3.54%

Run 1: Report of TCP BBR — Data Link

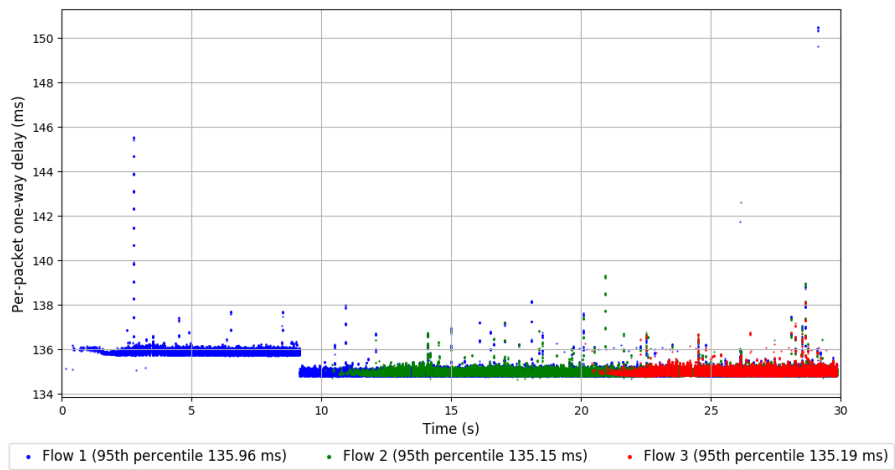
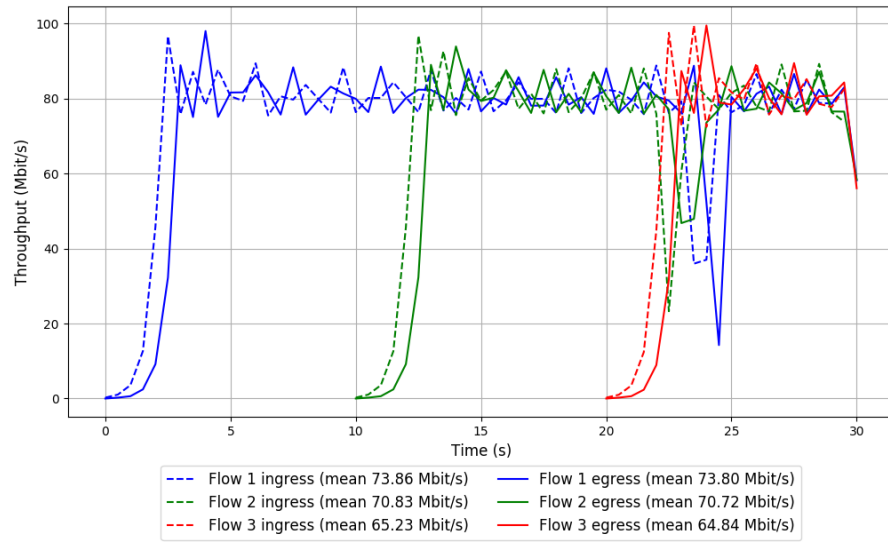


Run 2: Statistics of TCP BBR

Start at: 2018-06-06 18:11:58
End at: 2018-06-06 18:12:28
Local clock offset: -0.033 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-06-06 21:55:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.87 Mbit/s
95th percentile per-packet one-way delay: 135.914 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 73.80 Mbit/s
95th percentile per-packet one-way delay: 135.961 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.72 Mbit/s
95th percentile per-packet one-way delay: 135.150 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 135.193 ms
Loss rate: 3.33%

Run 2: Report of TCP BBR — Data Link

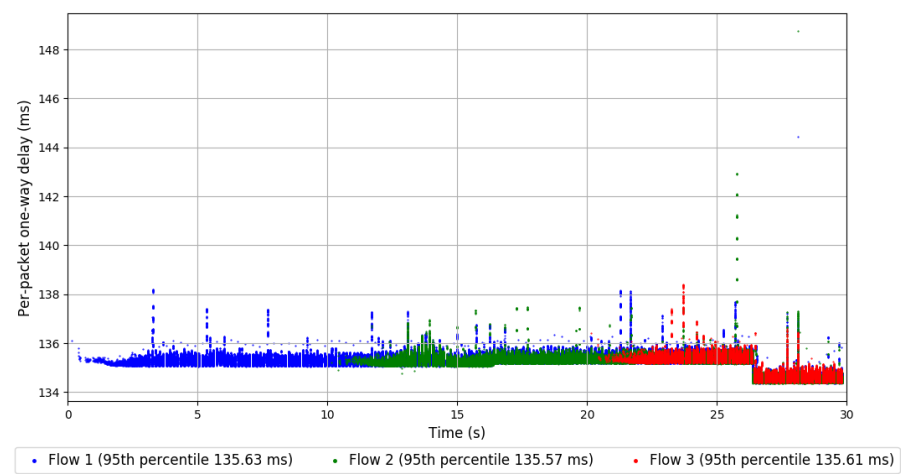
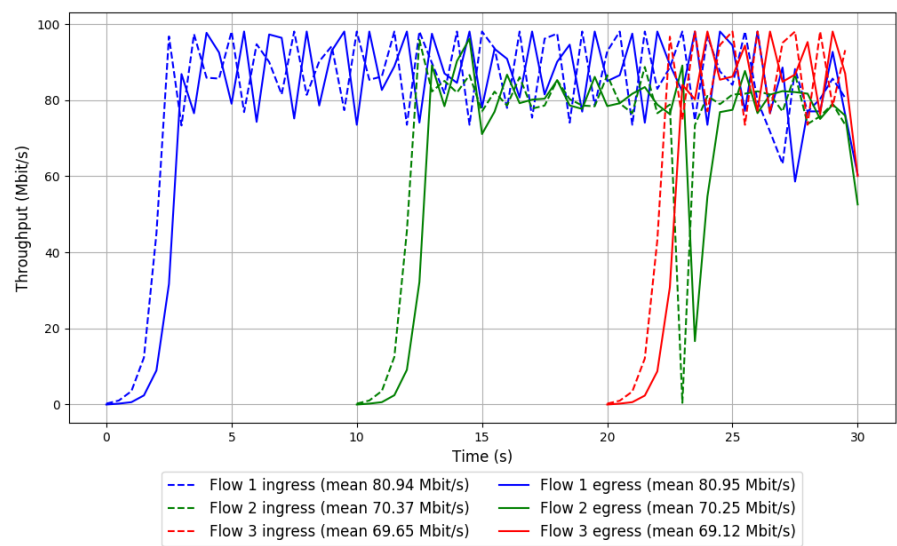


Run 3: Statistics of TCP BBR

Start at: 2018-06-06 18:36:41
End at: 2018-06-06 18:37:11
Local clock offset: -0.425 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-06 21:55:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 149.99 Mbit/s
95th percentile per-packet one-way delay: 135.615 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 135.635 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 70.25 Mbit/s
95th percentile per-packet one-way delay: 135.567 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 135.611 ms
Loss rate: 3.54%

Run 3: Report of TCP BBR — Data Link

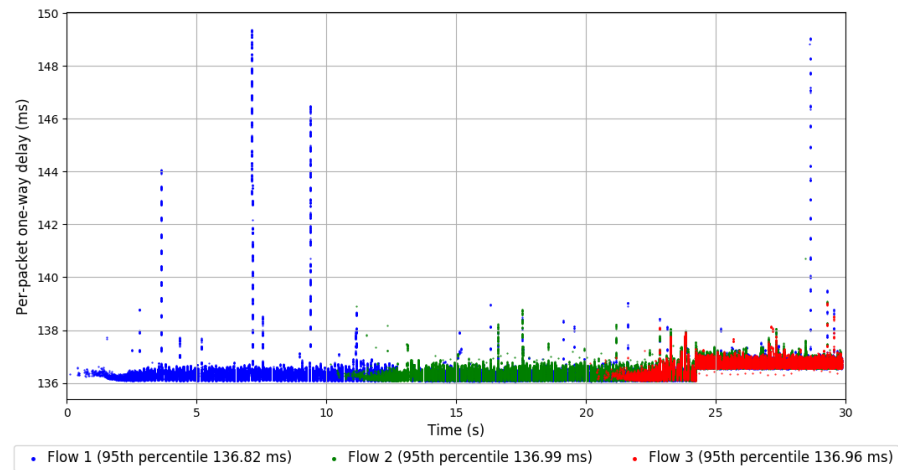
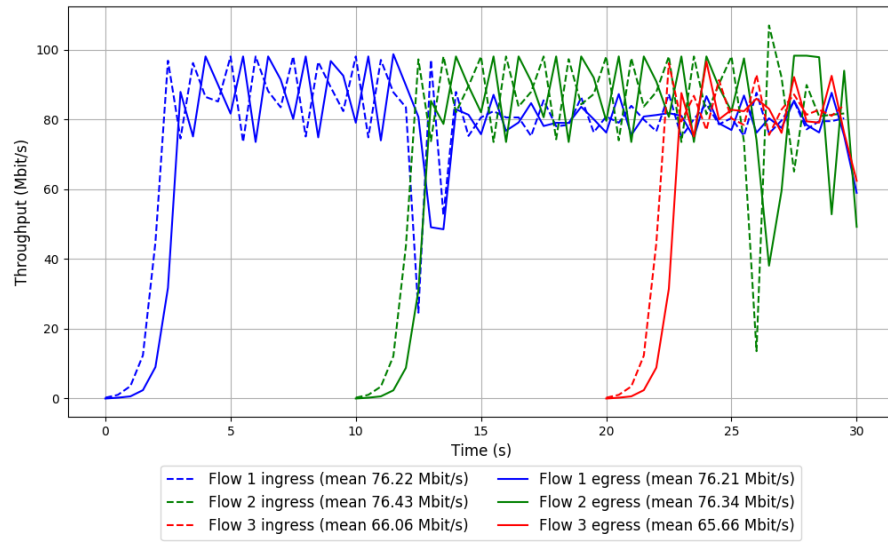


Run 4: Statistics of TCP BBR

Start at: 2018-06-06 19:01:43
End at: 2018-06-06 19:02:13
Local clock offset: -0.106 ms
Remote clock offset: -0.628 ms

Below is generated by plot.py at 2018-06-06 21:55:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.14 Mbit/s
95th percentile per-packet one-way delay: 136.925 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 136.825 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 65.66 Mbit/s
95th percentile per-packet one-way delay: 136.963 ms
Loss rate: 3.32%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-06 19:26:45

End at: 2018-06-06 19:27:15

Local clock offset: -0.719 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-06-06 21:55:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 136.204 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 73.53 Mbit/s

95th percentile per-packet one-way delay: 136.077 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 136.253 ms

Loss rate: 1.45%

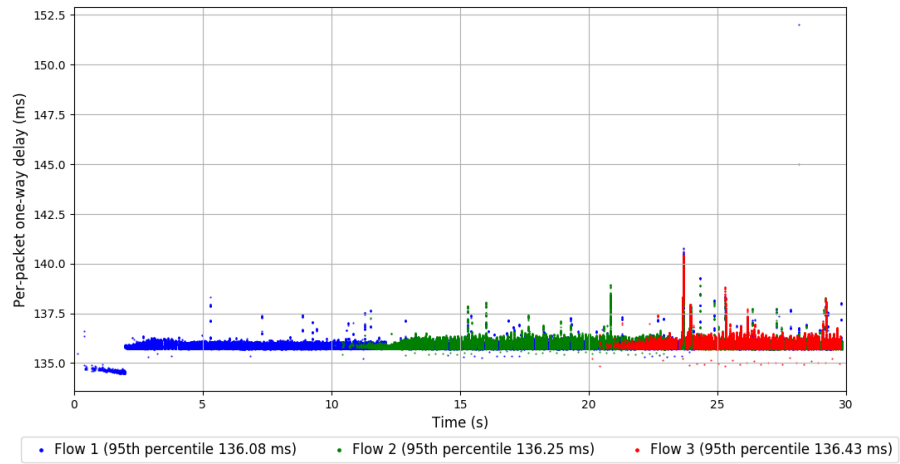
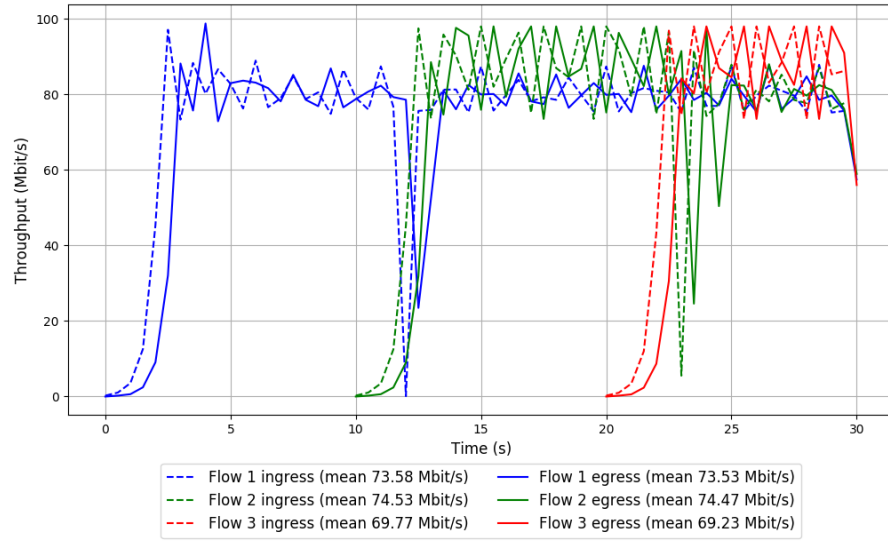
-- Flow 3:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 136.431 ms

Loss rate: 3.54%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-06 19:51:56

End at: 2018-06-06 19:52:26

Local clock offset: -0.674 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-06 21:55:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.43 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 1.50%

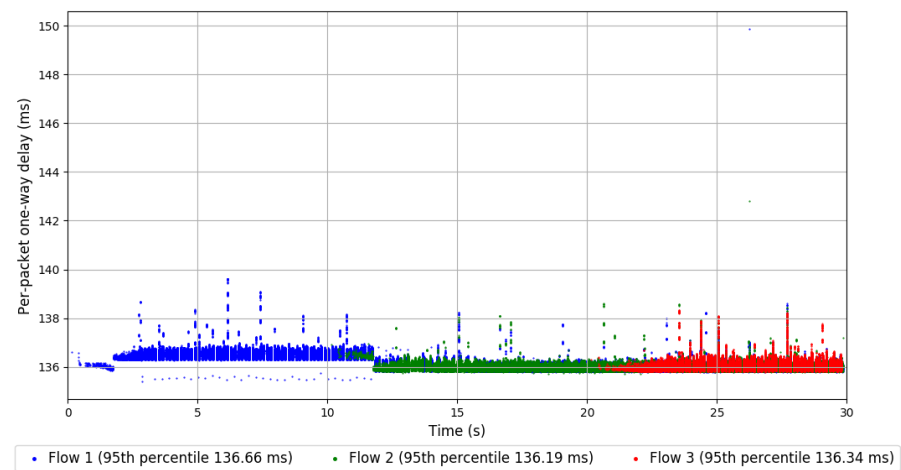
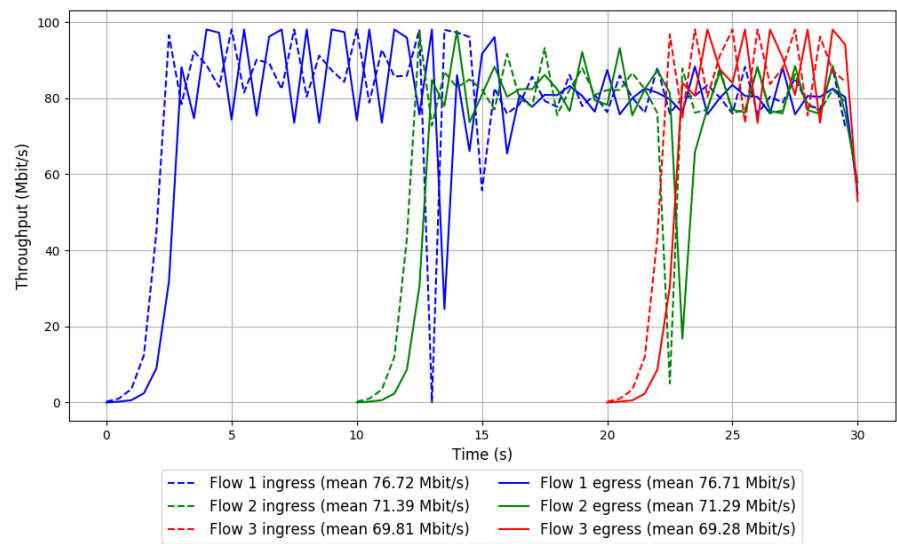
-- Flow 3:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 136.335 ms

Loss rate: 3.54%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-06 20:16:56

End at: 2018-06-06 20:17:26

Local clock offset: -0.884 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-06-06 21:55:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.34 Mbit/s

95th percentile per-packet one-way delay: 135.925 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 135.858 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 135.994 ms

Loss rate: 1.41%

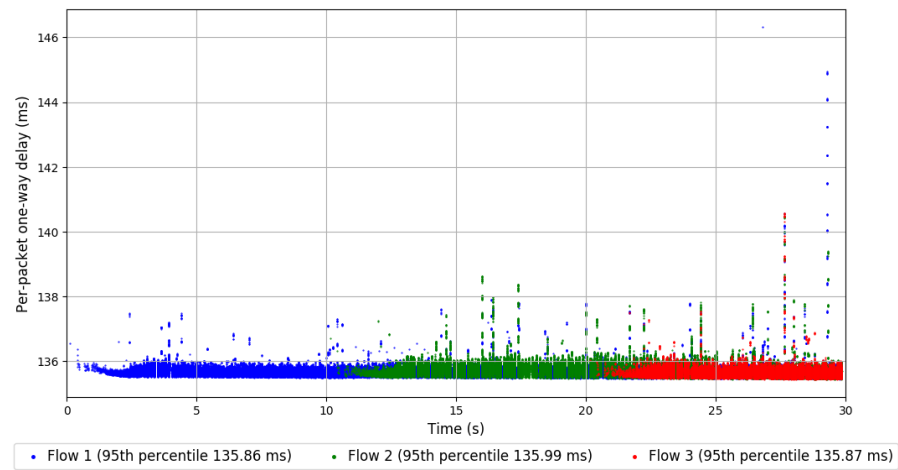
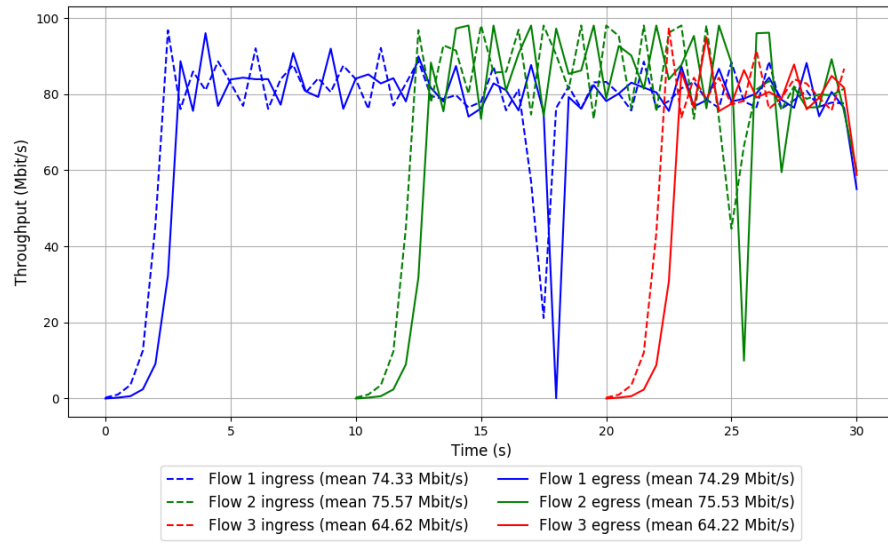
-- Flow 3:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 135.865 ms

Loss rate: 3.37%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-06 20:41:49

End at: 2018-06-06 20:42:19

Local clock offset: 0.558 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-06-06 21:55:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 144.23 Mbit/s

95th percentile per-packet one-way delay: 135.695 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 73.60 Mbit/s

95th percentile per-packet one-way delay: 135.664 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 1.48%

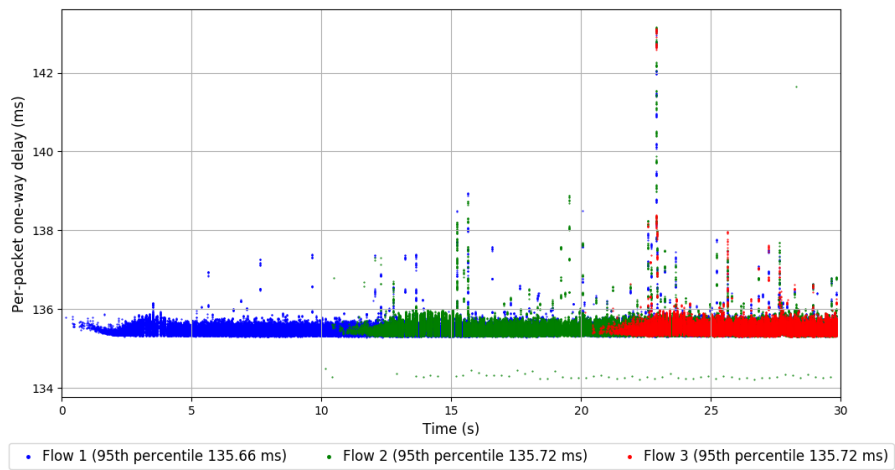
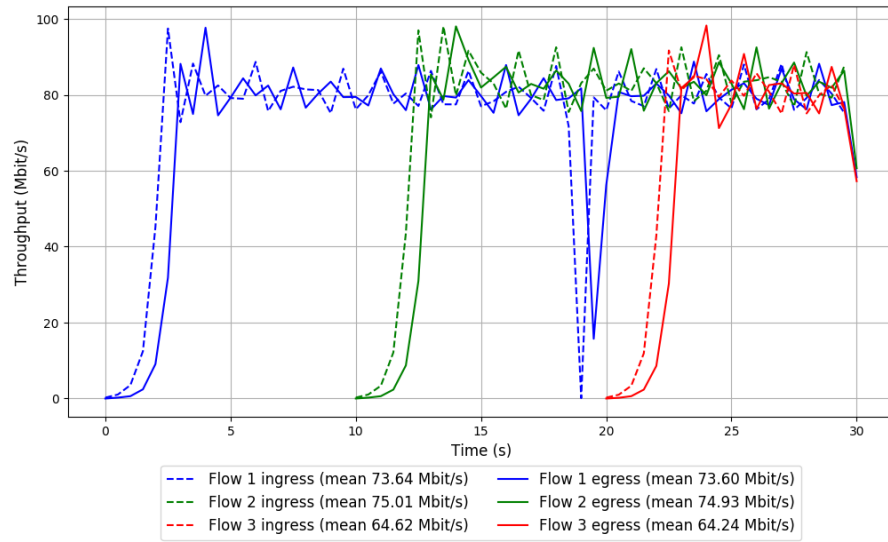
-- Flow 3:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 135.717 ms

Loss rate: 3.30%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-06 21:06:57

End at: 2018-06-06 21:07:27

Local clock offset: 0.229 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-06-06 21:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 145.69 Mbit/s

95th percentile per-packet one-way delay: 136.020 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 74.82 Mbit/s

95th percentile per-packet one-way delay: 135.942 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 75.62 Mbit/s

95th percentile per-packet one-way delay: 136.079 ms

Loss rate: 1.39%

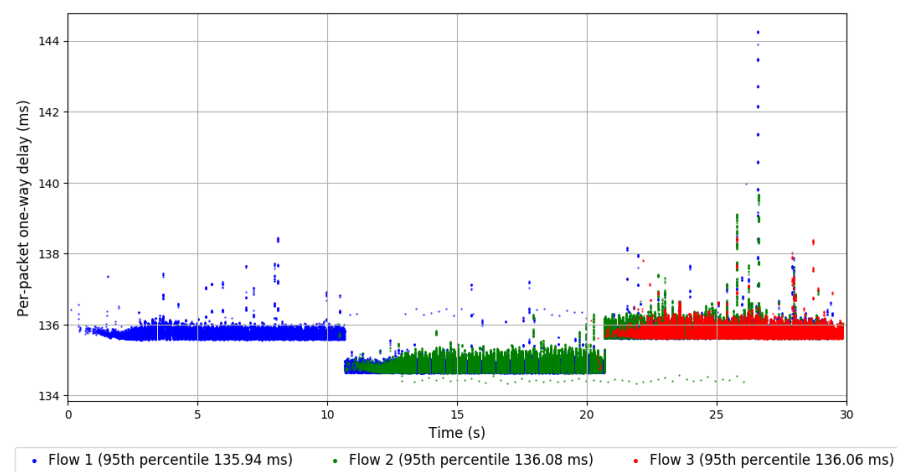
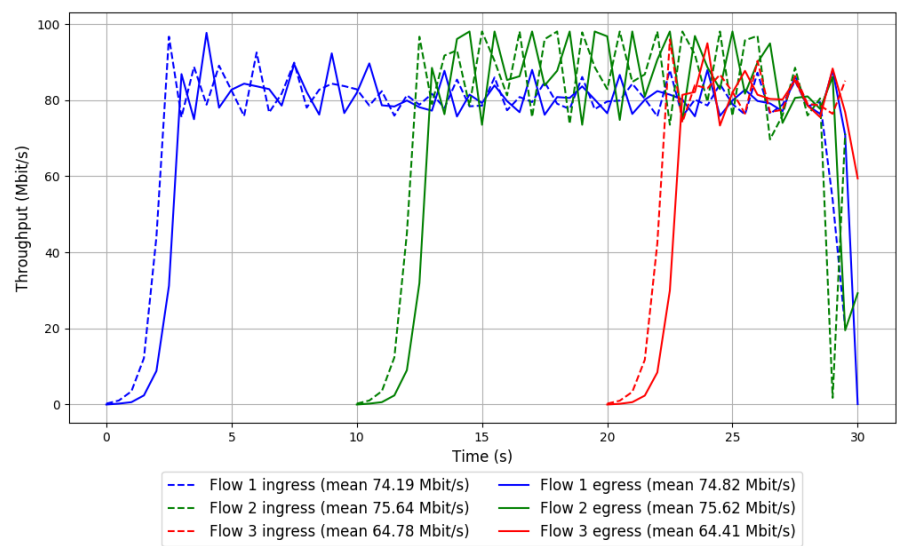
-- Flow 3:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 136.057 ms

Loss rate: 3.29%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-06 21:31:37

End at: 2018-06-06 21:32:07

Local clock offset: -0.225 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-06-06 21:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.94 Mbit/s

95th percentile per-packet one-way delay: 135.570 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 135.481 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 75.08 Mbit/s

95th percentile per-packet one-way delay: 135.629 ms

Loss rate: 1.43%

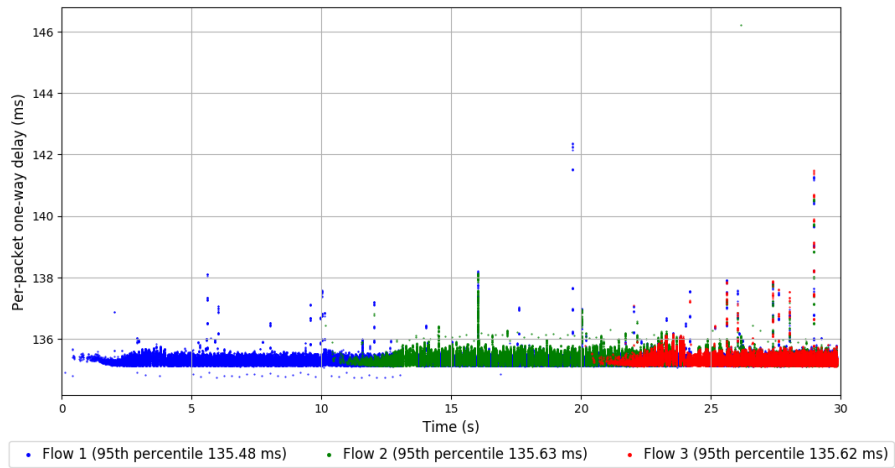
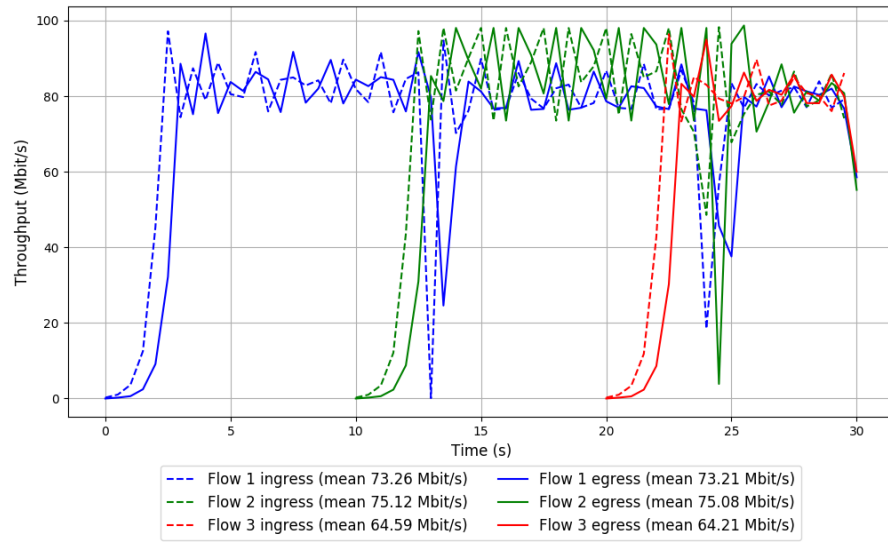
-- Flow 3:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 135.615 ms

Loss rate: 3.31%

Run 10: Report of TCP BBR — Data Link

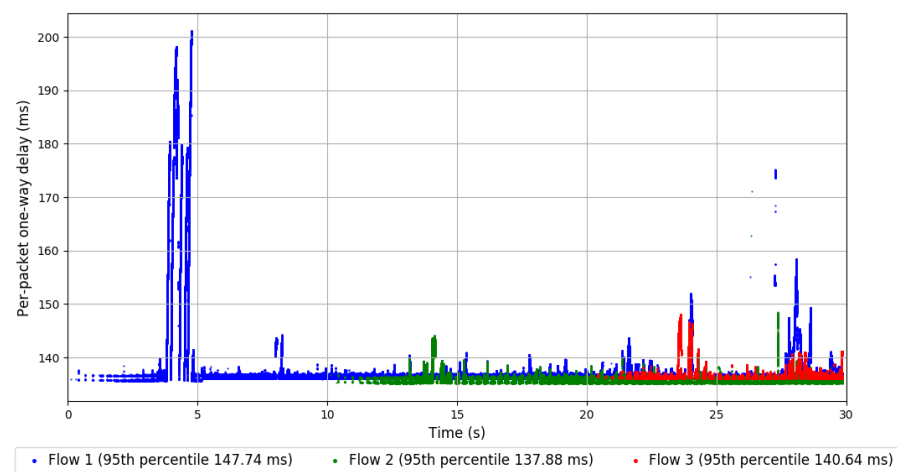
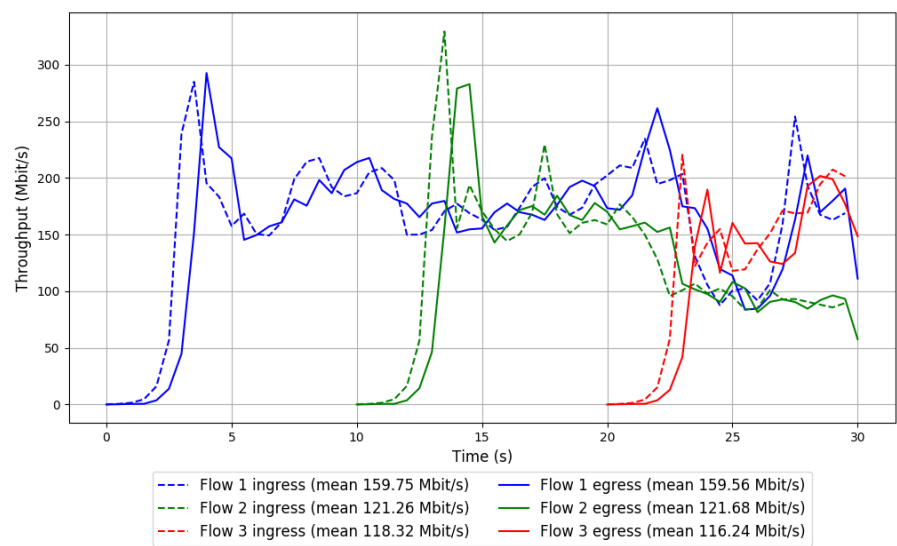


Run 1: Statistics of Copa

Start at: 2018-06-06 17:48:22
End at: 2018-06-06 17:48:52
Local clock offset: 0.397 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2018-06-06 22:03:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.17 Mbit/s
95th percentile per-packet one-way delay: 142.425 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 159.56 Mbit/s
95th percentile per-packet one-way delay: 147.743 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 121.68 Mbit/s
95th percentile per-packet one-way delay: 137.885 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 116.24 Mbit/s
95th percentile per-packet one-way delay: 140.644 ms
Loss rate: 4.45%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-06 18:13:22

End at: 2018-06-06 18:13:52

Local clock offset: 0.159 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-06-06 22:03:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 285.39 Mbit/s

95th percentile per-packet one-way delay: 159.442 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 184.98 Mbit/s

95th percentile per-packet one-way delay: 166.426 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 109.01 Mbit/s

95th percentile per-packet one-way delay: 159.948 ms

Loss rate: 0.35%

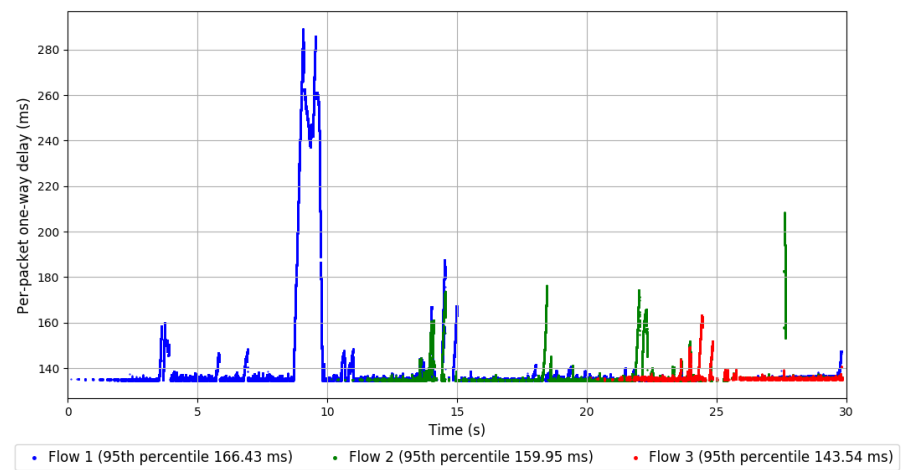
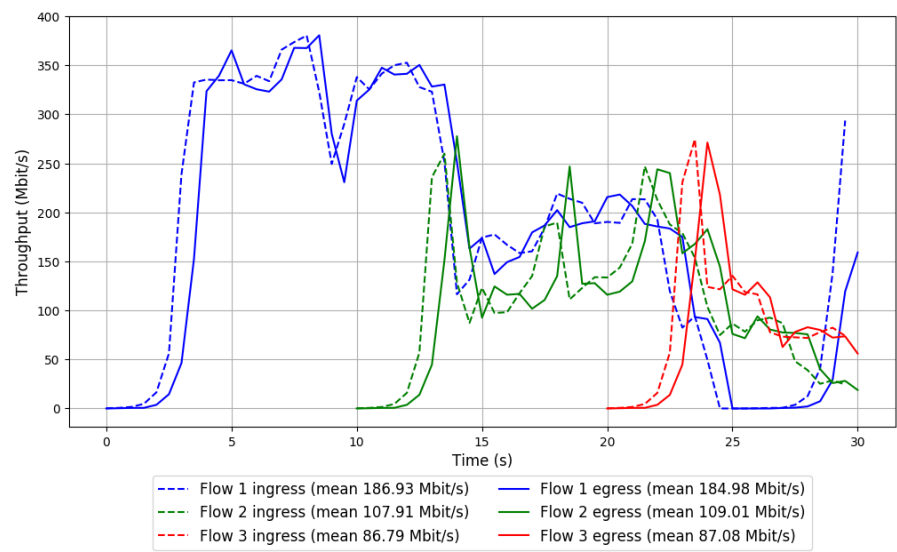
-- Flow 3:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 143.543 ms

Loss rate: 2.40%

Run 2: Report of Copa — Data Link

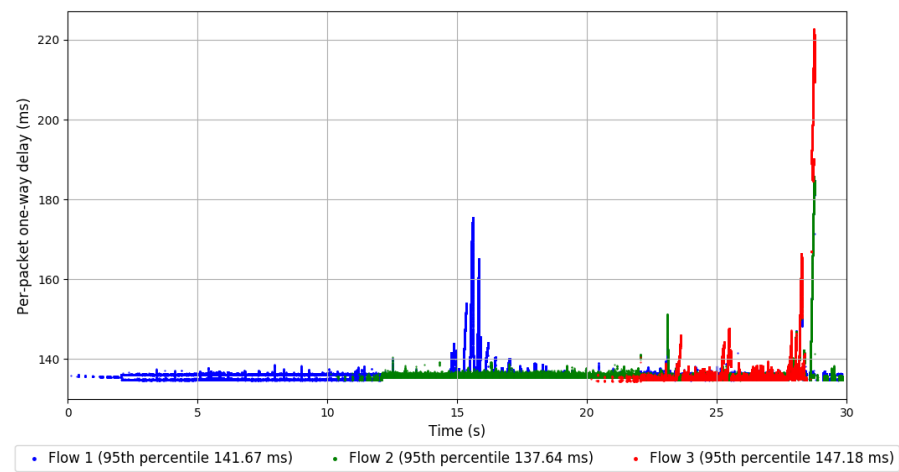
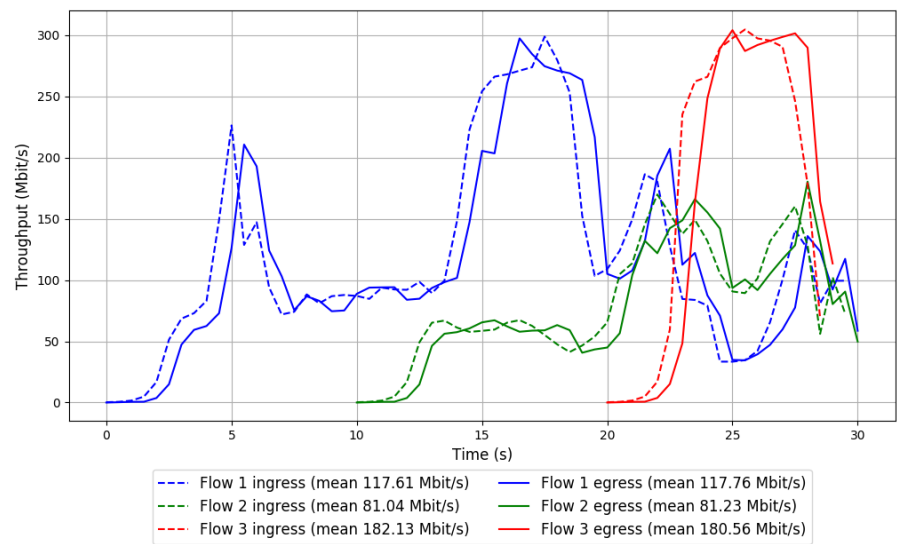


Run 3: Statistics of Copa

Start at: 2018-06-06 18:38:05
End at: 2018-06-06 18:38:35
Local clock offset: -0.573 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-06-06 22:03:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 224.06 Mbit/s
95th percentile per-packet one-way delay: 141.997 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 117.76 Mbit/s
95th percentile per-packet one-way delay: 141.669 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 137.641 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 180.56 Mbit/s
95th percentile per-packet one-way delay: 147.179 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

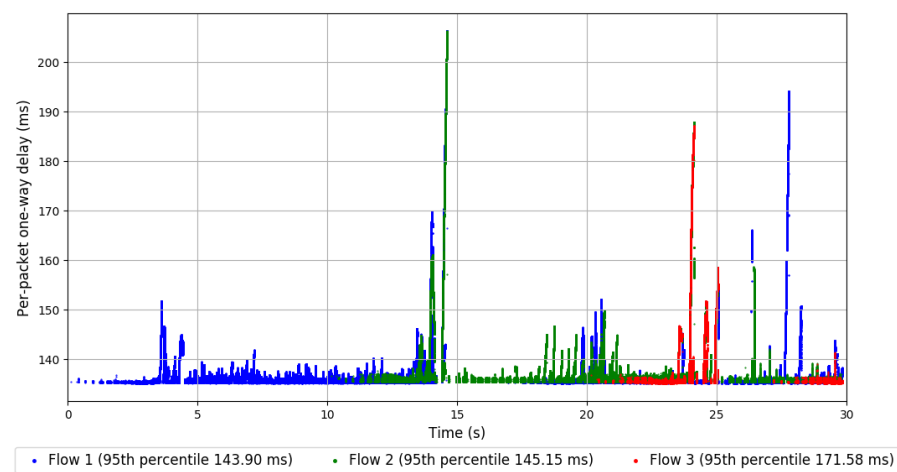
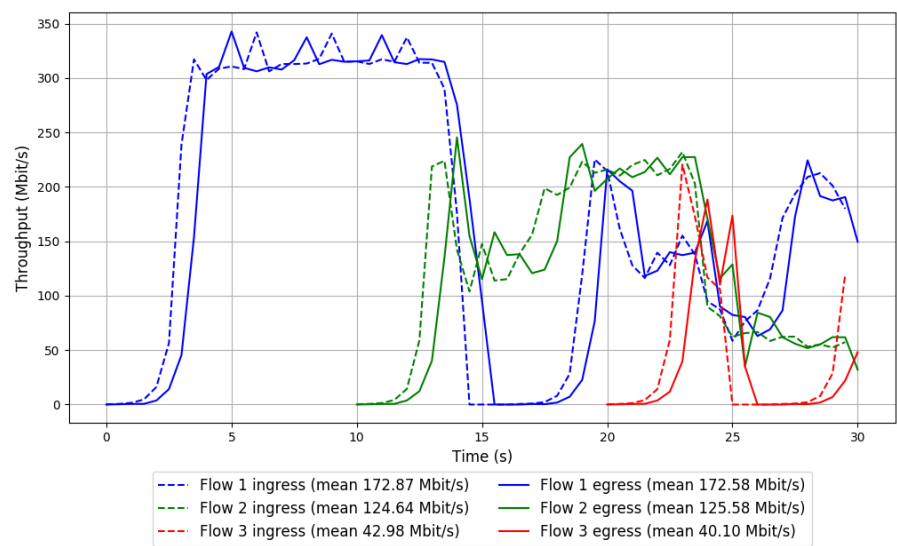


Run 4: Statistics of Copa

Start at: 2018-06-06 19:03:08
End at: 2018-06-06 19:03:38
Local clock offset: -0.419 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-06-06 22:03:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.69 Mbit/s
95th percentile per-packet one-way delay: 145.405 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 172.58 Mbit/s
95th percentile per-packet one-way delay: 143.904 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 125.58 Mbit/s
95th percentile per-packet one-way delay: 145.145 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 171.584 ms
Loss rate: 9.30%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-06 19:28:10

End at: 2018-06-06 19:28:40

Local clock offset: -0.804 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-06-06 22:03:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.41 Mbit/s

95th percentile per-packet one-way delay: 143.844 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 149.49 Mbit/s

95th percentile per-packet one-way delay: 144.774 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 2.62%

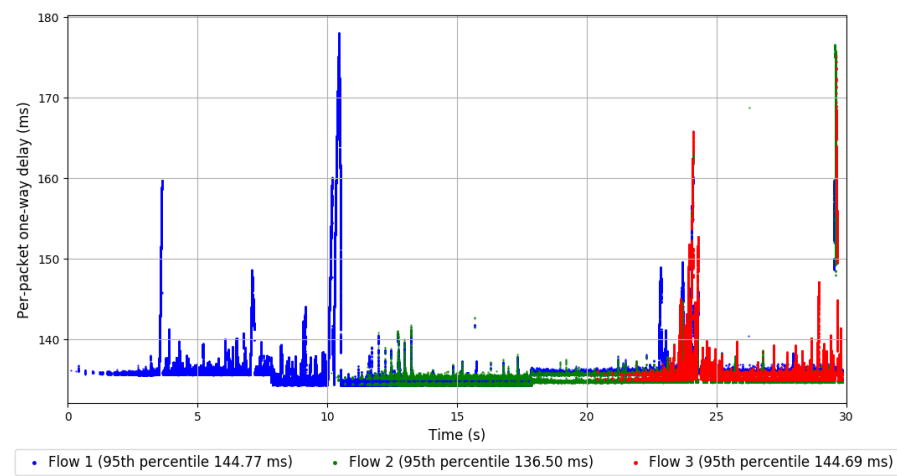
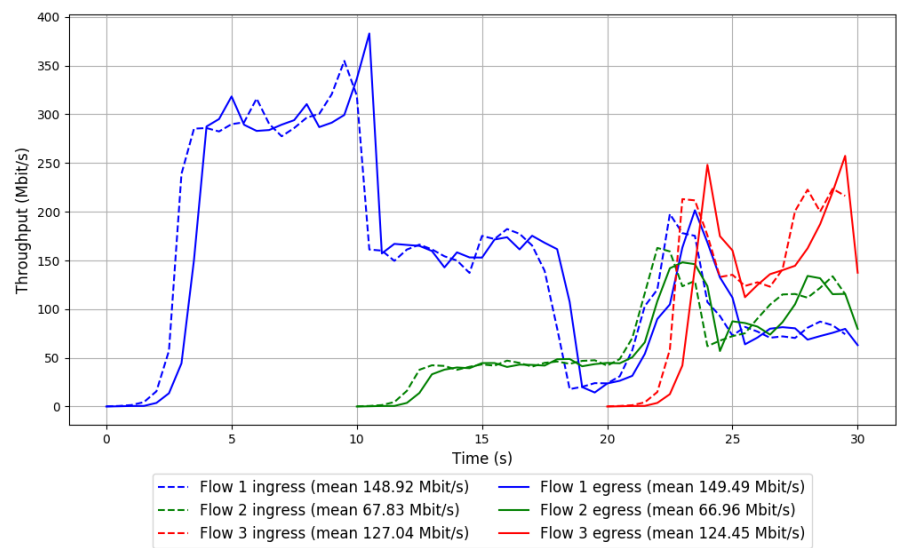
-- Flow 3:

Average throughput: 124.45 Mbit/s

95th percentile per-packet one-way delay: 144.687 ms

Loss rate: 4.71%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-06 19:53:20

End at: 2018-06-06 19:53:50

Local clock offset: -0.807 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-06 22:03:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.32 Mbit/s

95th percentile per-packet one-way delay: 157.473 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 166.23 Mbit/s

95th percentile per-packet one-way delay: 156.781 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 110.46 Mbit/s

95th percentile per-packet one-way delay: 150.413 ms

Loss rate: 0.69%

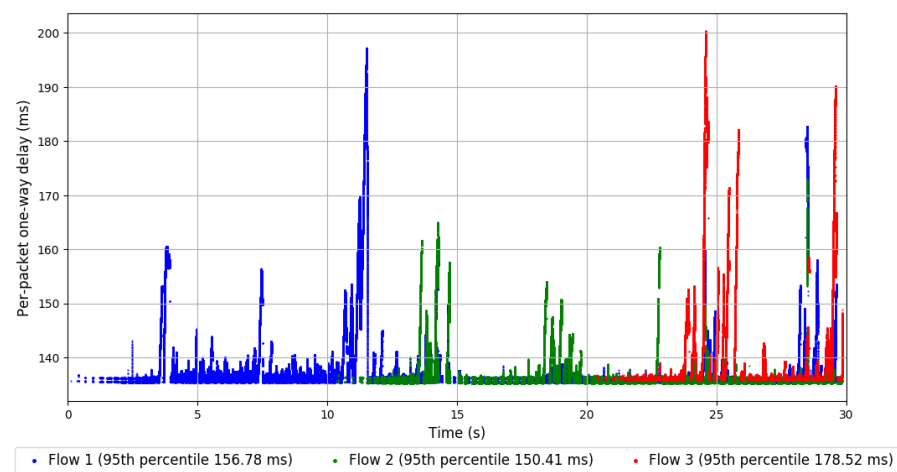
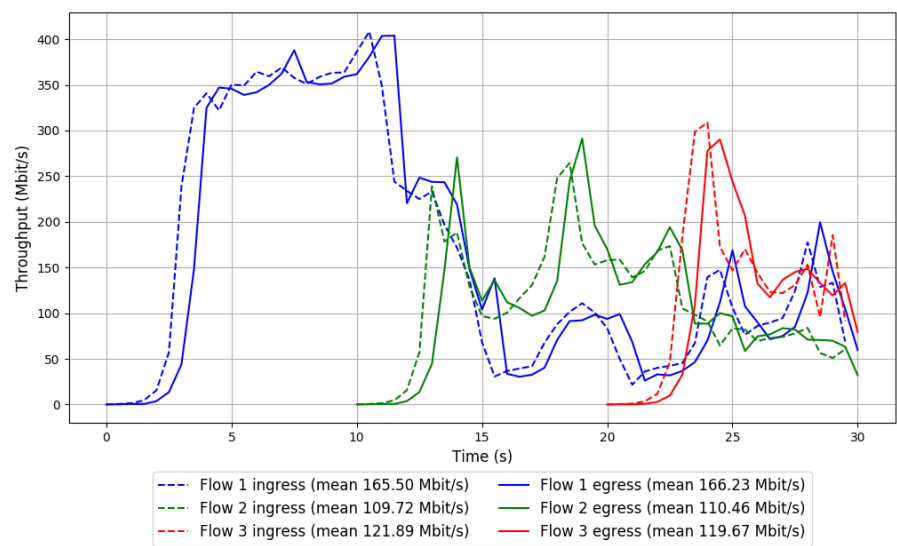
-- Flow 3:

Average throughput: 119.67 Mbit/s

95th percentile per-packet one-way delay: 178.516 ms

Loss rate: 2.99%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-06 20:18:20

End at: 2018-06-06 20:18:50

Local clock offset: -0.619 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-06 22:07:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.37 Mbit/s

95th percentile per-packet one-way delay: 195.586 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 201.34 Mbit/s

95th percentile per-packet one-way delay: 200.638 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 115.18 Mbit/s

95th percentile per-packet one-way delay: 151.012 ms

Loss rate: 1.13%

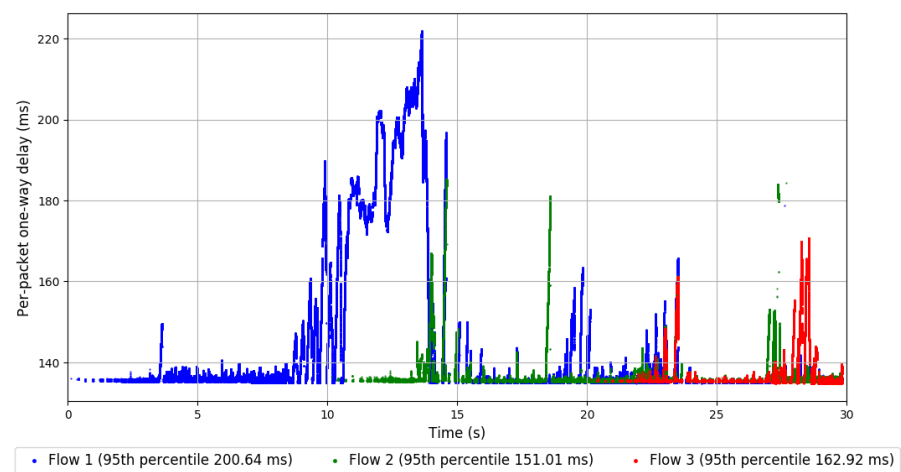
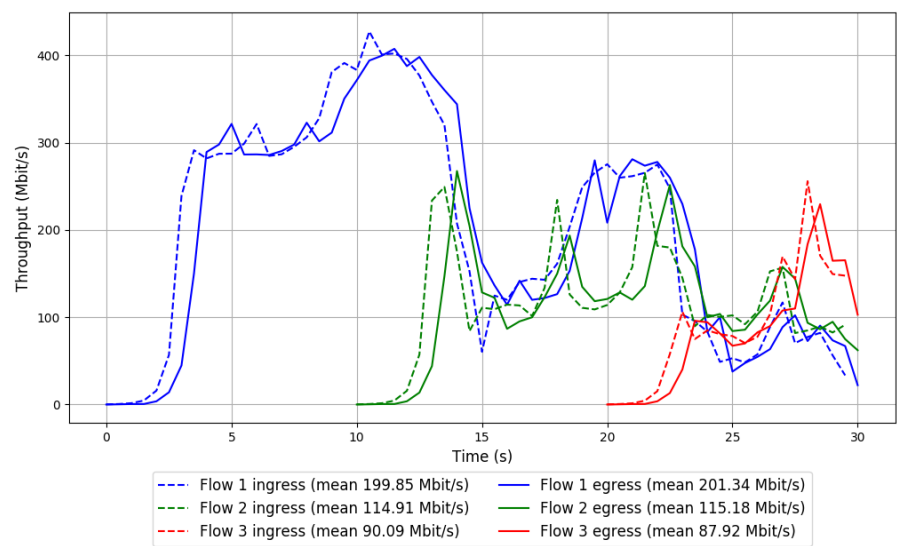
-- Flow 3:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 162.922 ms

Loss rate: 4.99%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-06 20:43:13

End at: 2018-06-06 20:43:43

Local clock offset: 0.62 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-06 22:07:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.23 Mbit/s

95th percentile per-packet one-way delay: 151.285 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 162.66 Mbit/s

95th percentile per-packet one-way delay: 144.738 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 190.28 Mbit/s

95th percentile per-packet one-way delay: 158.656 ms

Loss rate: 0.95%

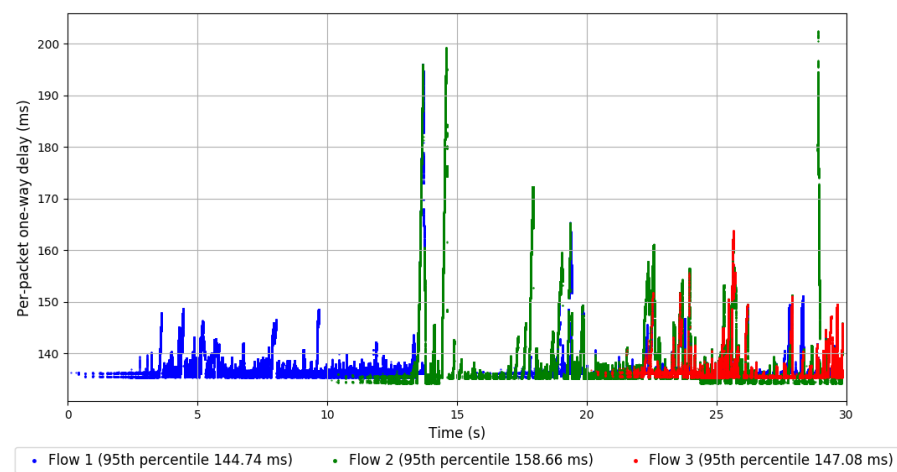
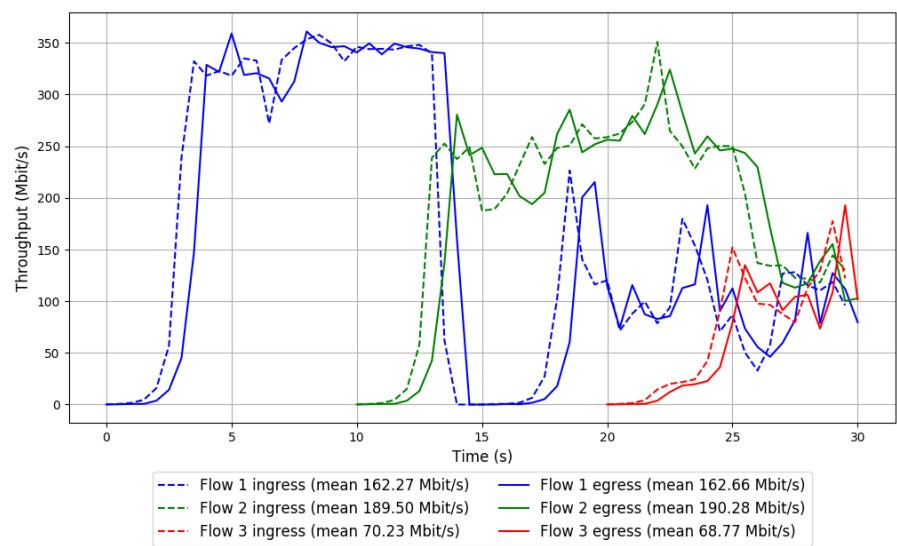
-- Flow 3:

Average throughput: 68.77 Mbit/s

95th percentile per-packet one-way delay: 147.081 ms

Loss rate: 4.72%

Run 8: Report of Copa — Data Link

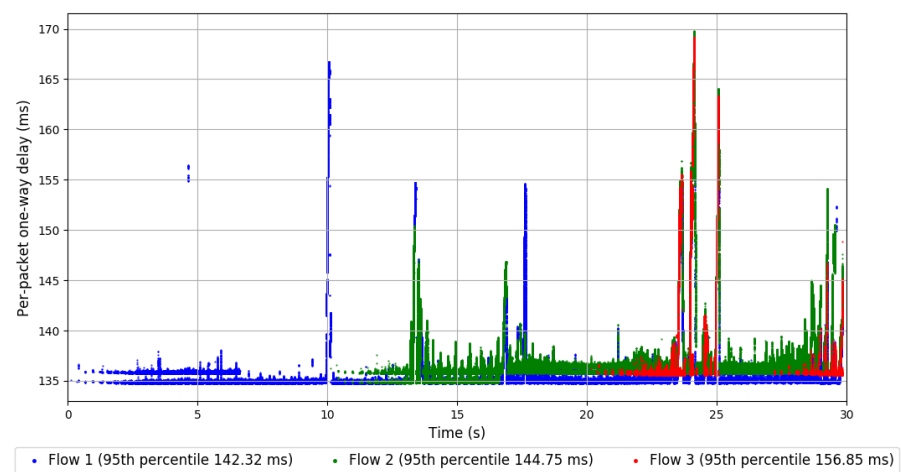
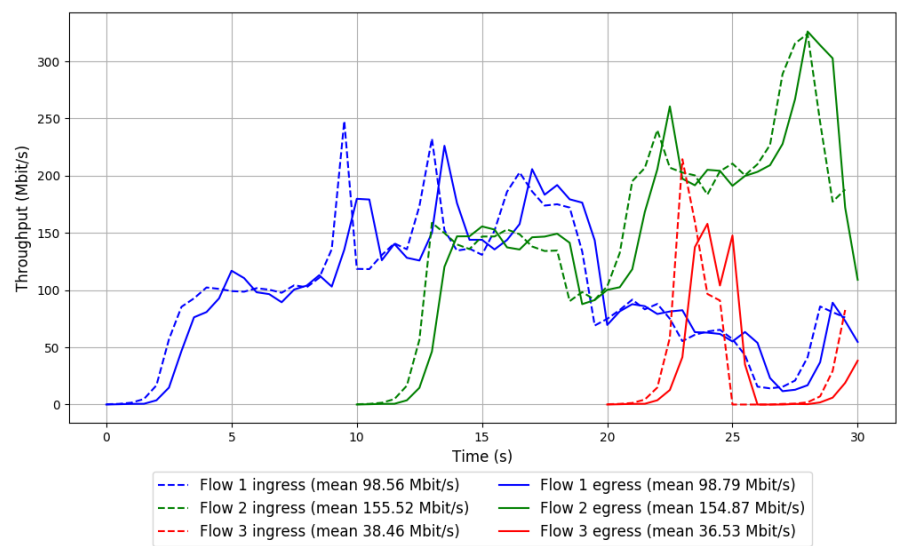


Run 9: Statistics of Copa

Start at: 2018-06-06 21:08:21
End at: 2018-06-06 21:08:51
Local clock offset: -0.054 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-06 22:08:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.39 Mbit/s
95th percentile per-packet one-way delay: 145.067 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 98.79 Mbit/s
95th percentile per-packet one-way delay: 142.321 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 154.87 Mbit/s
95th percentile per-packet one-way delay: 144.754 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 36.53 Mbit/s
95th percentile per-packet one-way delay: 156.855 ms
Loss rate: 7.38%

Run 9: Report of Copa — Data Link

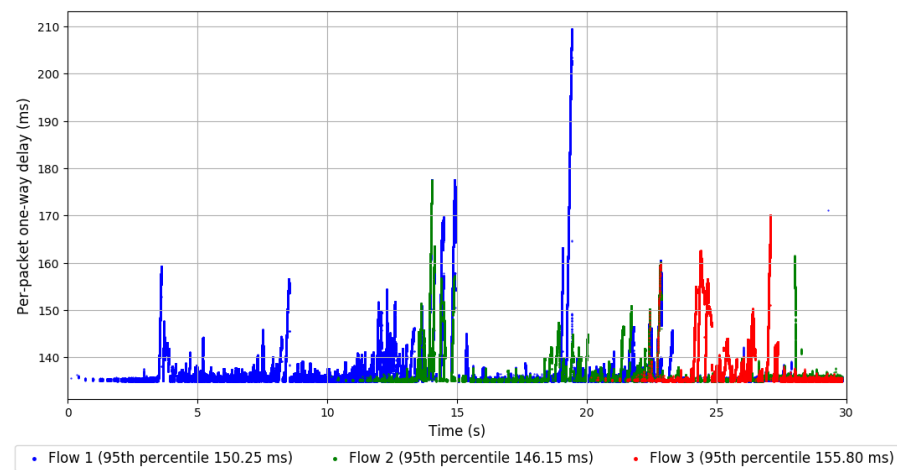
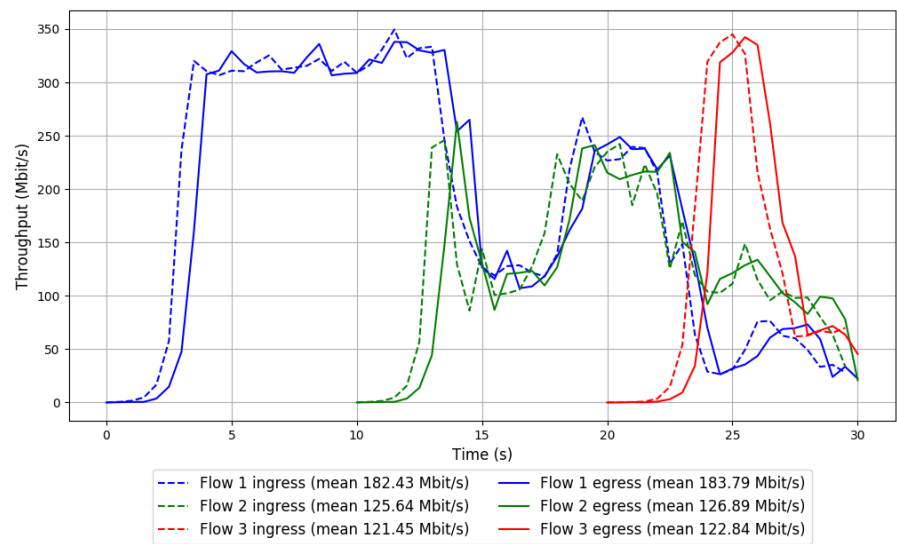


Run 10: Statistics of Copa

Start at: 2018-06-06 21:33:01
End at: 2018-06-06 21:33:31
Local clock offset: -0.216 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.87 Mbit/s
95th percentile per-packet one-way delay: 150.846 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 183.79 Mbit/s
95th percentile per-packet one-way delay: 150.248 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 126.89 Mbit/s
95th percentile per-packet one-way delay: 146.145 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 122.84 Mbit/s
95th percentile per-packet one-way delay: 155.803 ms
Loss rate: 1.62%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 17:38:27

End at: 2018-06-06 17:38:57

Local clock offset: 0.524 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-06-06 22:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.69 Mbit/s

95th percentile per-packet one-way delay: 139.446 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 139.893 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 137.281 ms

Loss rate: 1.84%

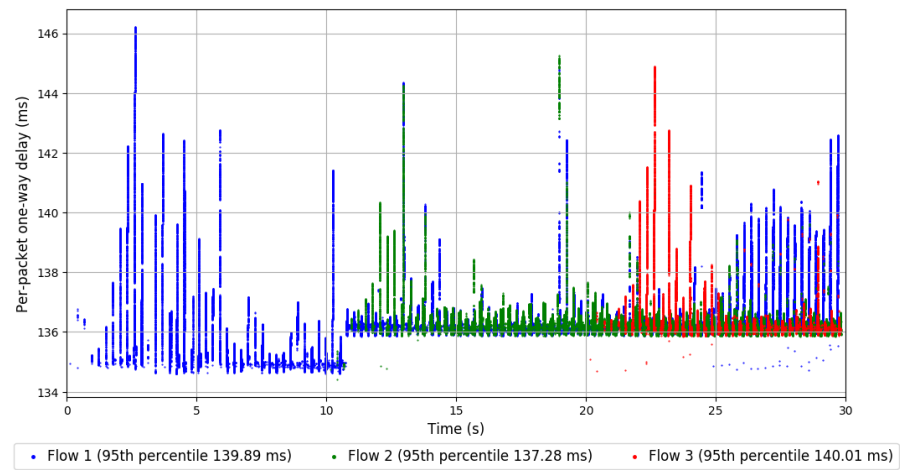
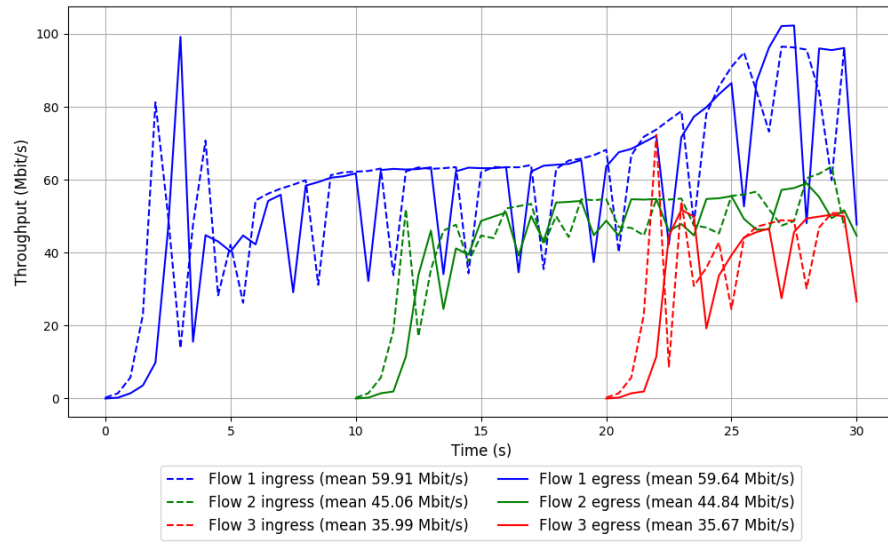
-- Flow 3:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 140.009 ms

Loss rate: 3.58%

Run 1: Report of TCP Cubic — Data Link

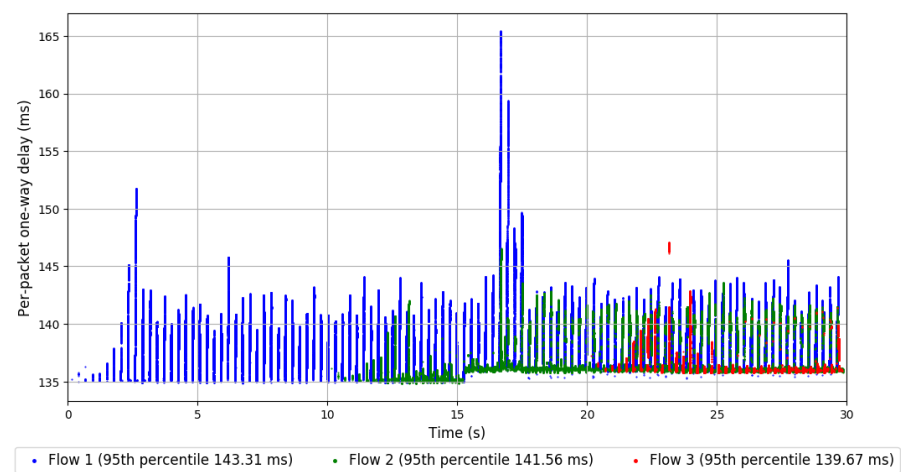
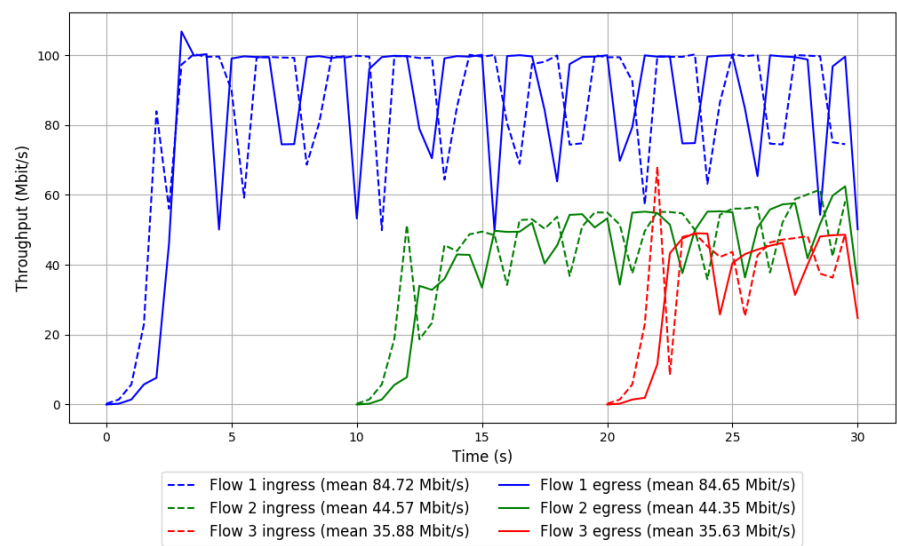


Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 18:03:12
End at: 2018-06-06 18:03:42
Local clock offset: 0.324 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 125.16 Mbit/s
95th percentile per-packet one-way delay: 142.712 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 84.65 Mbit/s
95th percentile per-packet one-way delay: 143.311 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 44.35 Mbit/s
95th percentile per-packet one-way delay: 141.555 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 139.671 ms
Loss rate: 3.43%

Run 2: Report of TCP Cubic — Data Link

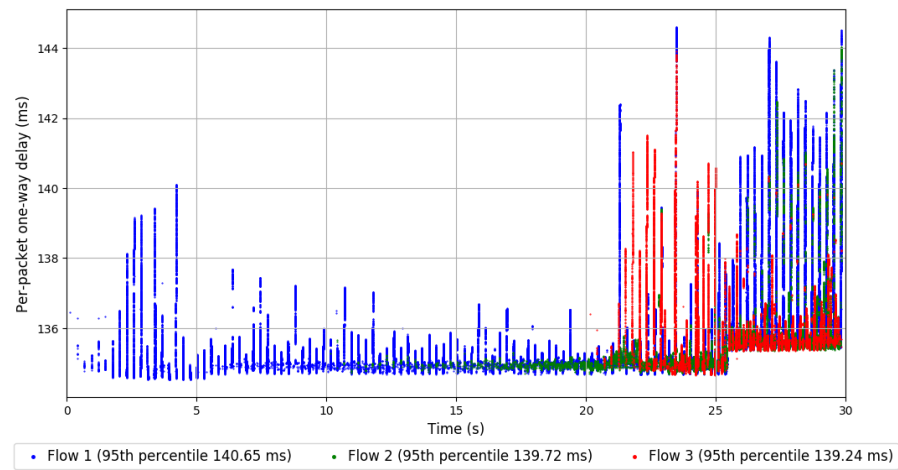
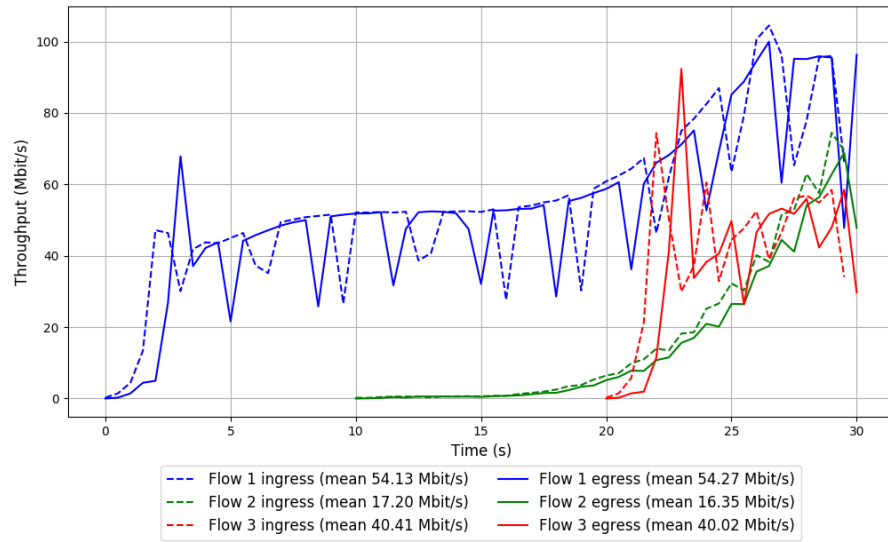


Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 18:28:12
End at: 2018-06-06 18:28:42
Local clock offset: -0.095 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.16 Mbit/s
95th percentile per-packet one-way delay: 140.228 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 140.654 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 139.725 ms
Loss rate: 6.27%
-- Flow 3:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 139.244 ms
Loss rate: 3.69%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 18:52:52

End at: 2018-06-06 18:53:22

Local clock offset: -0.381 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2018-06-06 22:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.32 Mbit/s

95th percentile per-packet one-way delay: 141.588 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 54.75 Mbit/s

95th percentile per-packet one-way delay: 141.533 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 52.75 Mbit/s

95th percentile per-packet one-way delay: 139.435 ms

Loss rate: 1.72%

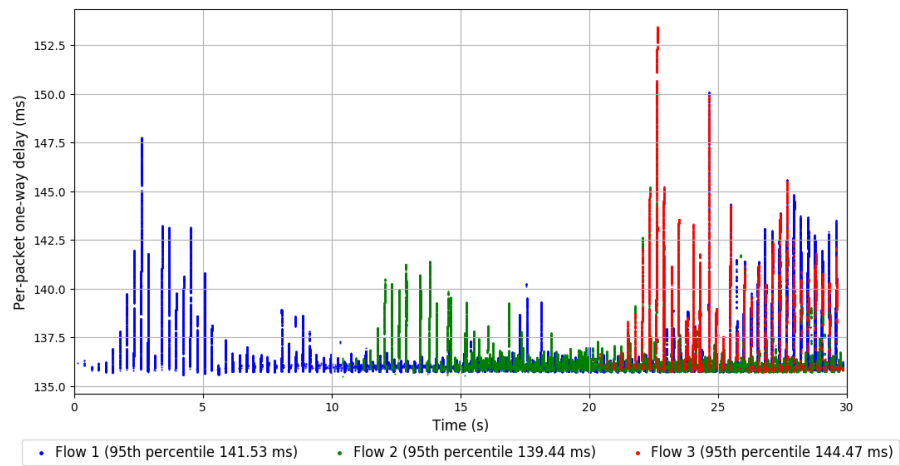
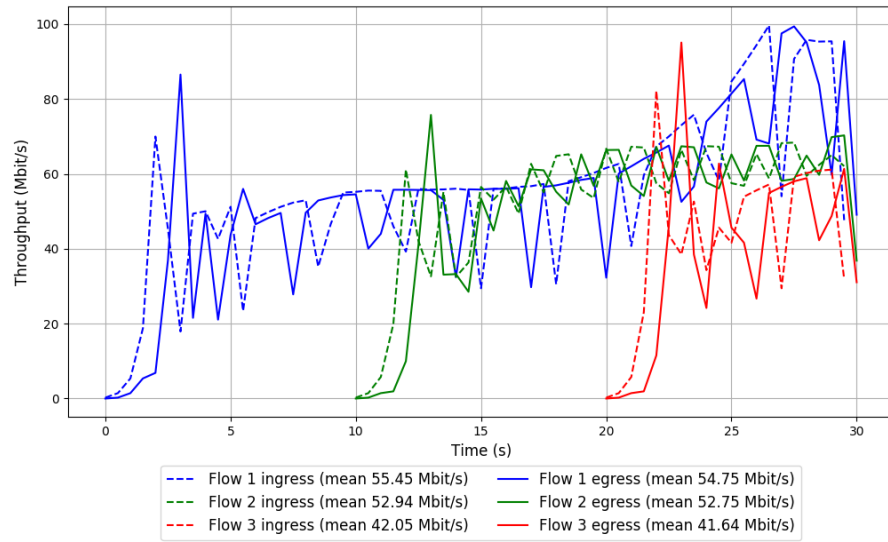
-- Flow 3:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 144.471 ms

Loss rate: 3.70%

Run 4: Report of TCP Cubic — Data Link

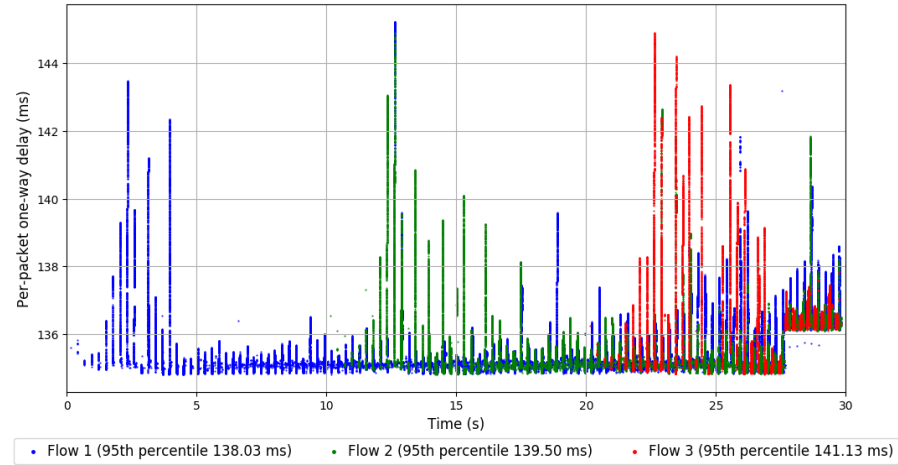
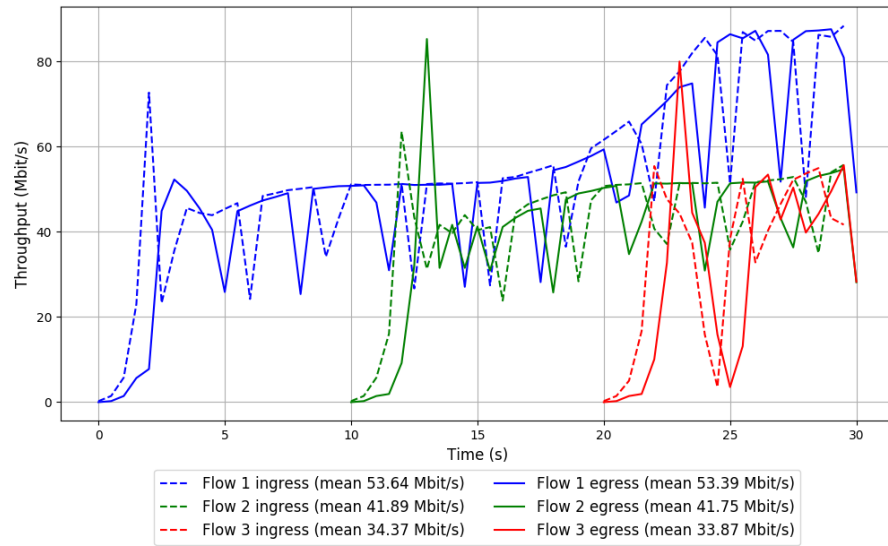


Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 19:17:40
End at: 2018-06-06 19:18:10
Local clock offset: -0.59 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 138.790 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 138.034 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 139.497 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 141.126 ms
Loss rate: 4.16%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 19:42:56

End at: 2018-06-06 19:43:26

Local clock offset: -0.722 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-06 22:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.69 Mbit/s

95th percentile per-packet one-way delay: 143.754 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 69.12 Mbit/s

95th percentile per-packet one-way delay: 142.997 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 39.25 Mbit/s

95th percentile per-packet one-way delay: 142.777 ms

Loss rate: 1.60%

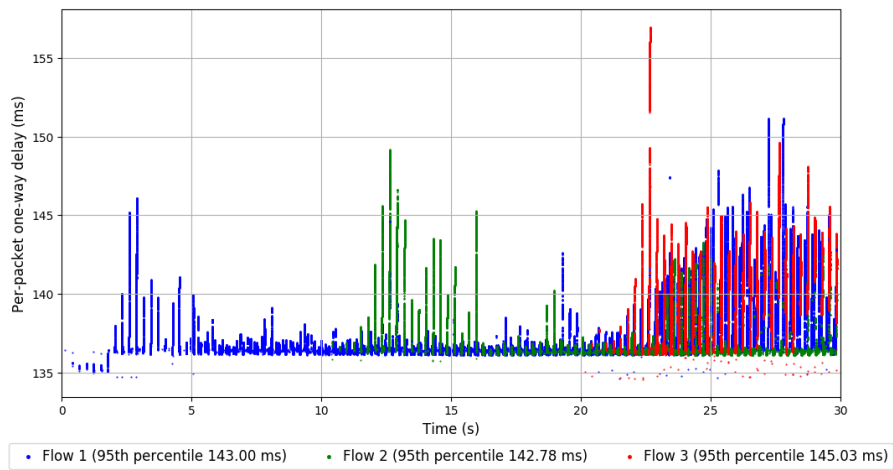
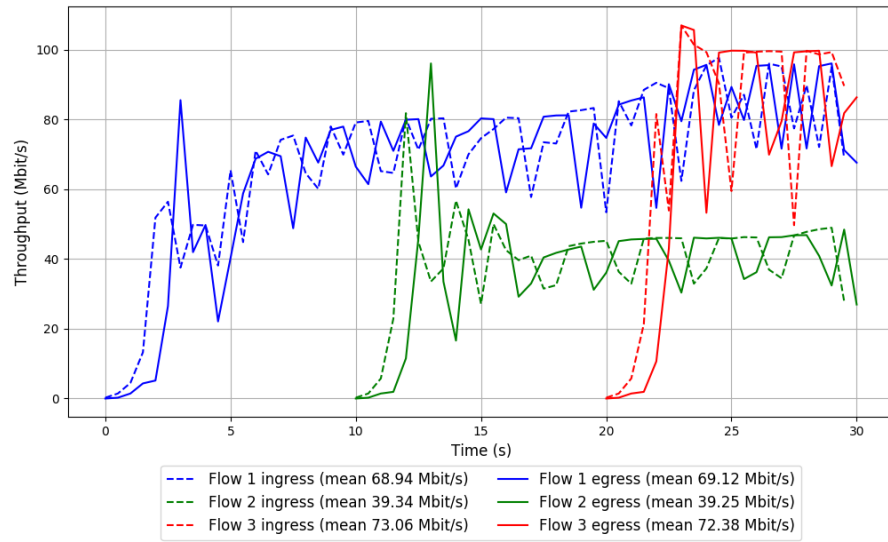
-- Flow 3:

Average throughput: 72.38 Mbit/s

95th percentile per-packet one-way delay: 145.028 ms

Loss rate: 3.63%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 20:08:05

End at: 2018-06-06 20:08:35

Local clock offset: -0.904 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-06 22:11:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.67 Mbit/s

95th percentile per-packet one-way delay: 142.336 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 84.65 Mbit/s

95th percentile per-packet one-way delay: 142.523 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 50.45 Mbit/s

95th percentile per-packet one-way delay: 140.932 ms

Loss rate: 1.77%

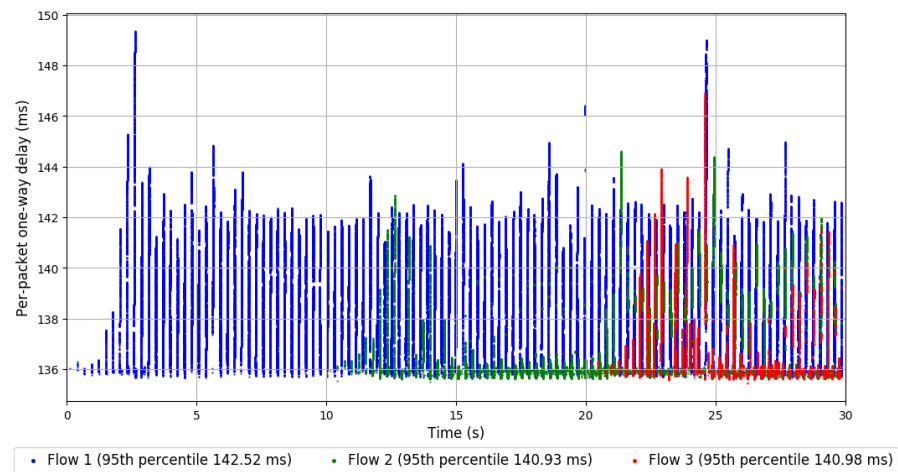
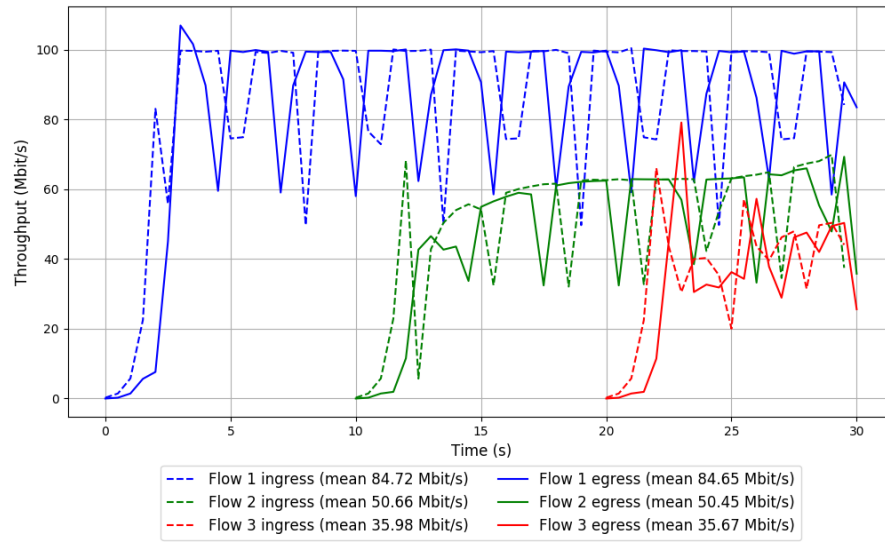
-- Flow 3:

Average throughput: 35.67 Mbit/s

95th percentile per-packet one-way delay: 140.984 ms

Loss rate: 3.58%

Run 7: Report of TCP Cubic — Data Link

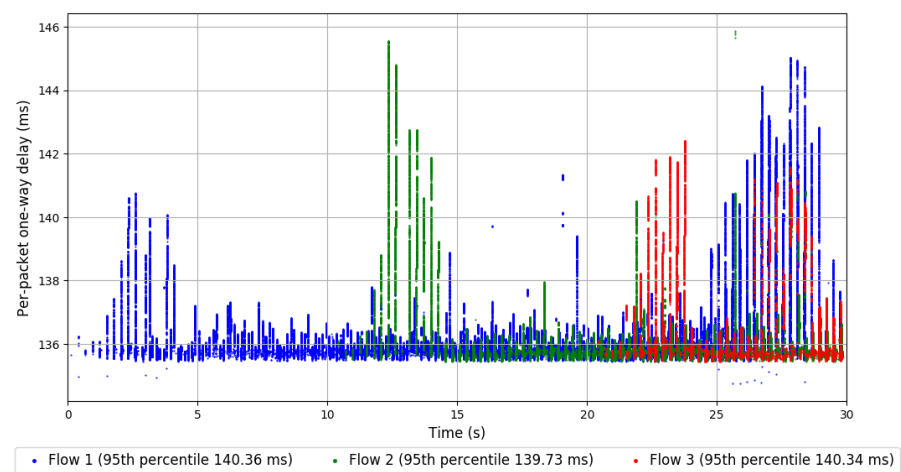
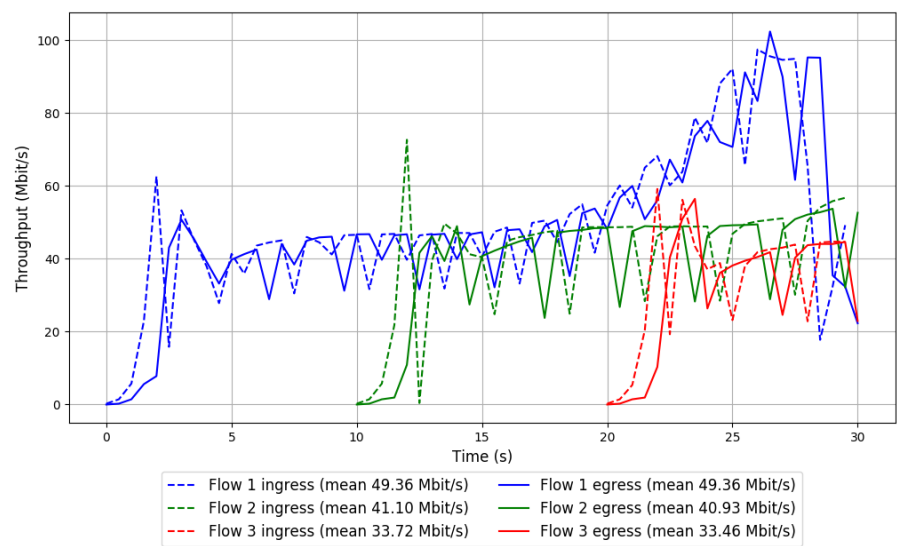


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 20:32:57
End at: 2018-06-06 20:33:27
Local clock offset: 0.121 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 140.191 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 49.36 Mbit/s
95th percentile per-packet one-way delay: 140.363 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 139.730 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 140.335 ms
Loss rate: 3.34%

Run 8: Report of TCP Cubic — Data Link

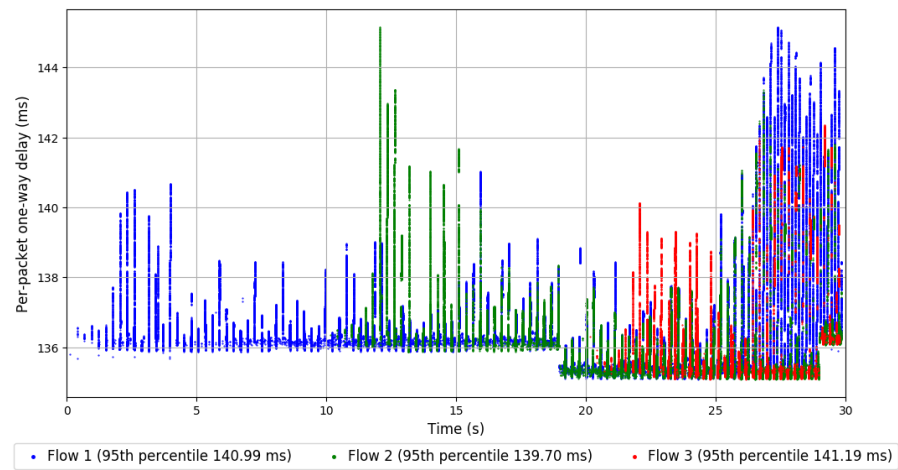
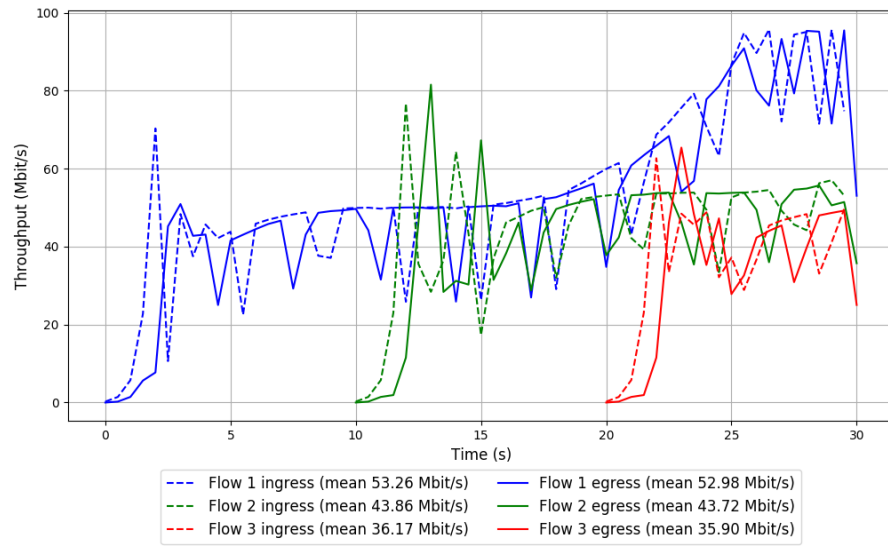


Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 20:58:09
End at: 2018-06-06 20:58:39
Local clock offset: 0.474 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 140.743 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 52.98 Mbit/s
95th percentile per-packet one-way delay: 140.993 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 139.701 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 35.90 Mbit/s
95th percentile per-packet one-way delay: 141.194 ms
Loss rate: 3.48%

Run 9: Report of TCP Cubic — Data Link

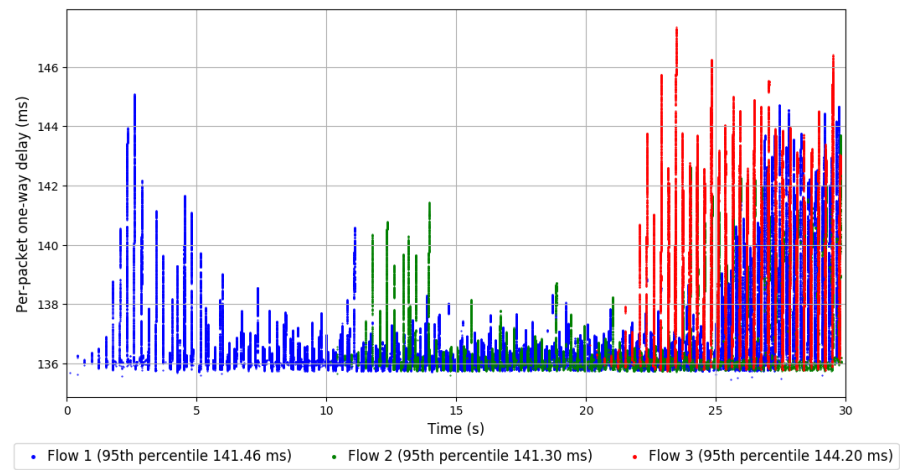
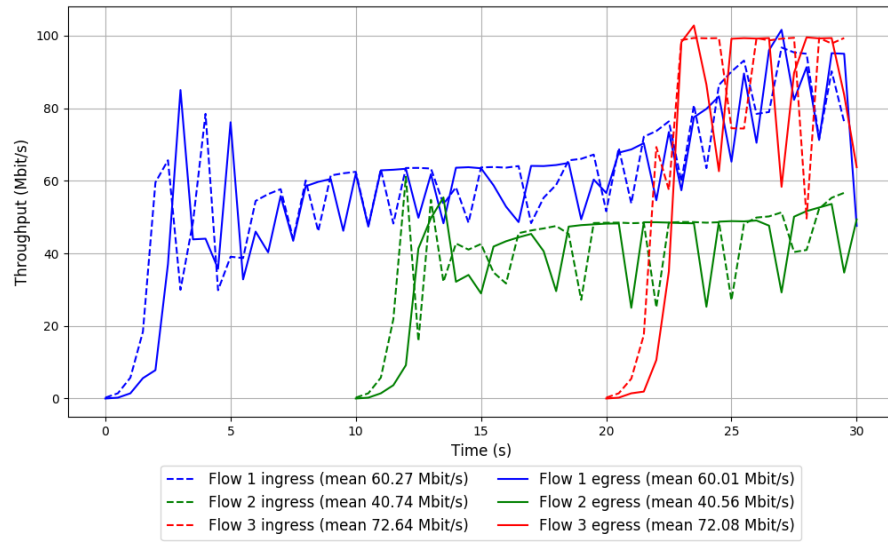


Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 21:23:08
End at: 2018-06-06 21:23:38
Local clock offset: 0.138 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-06 22:11:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.08 Mbit/s
95th percentile per-packet one-way delay: 142.695 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 60.01 Mbit/s
95th percentile per-packet one-way delay: 141.461 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 141.302 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 144.200 ms
Loss rate: 3.46%

Run 10: Report of TCP Cubic — Data Link

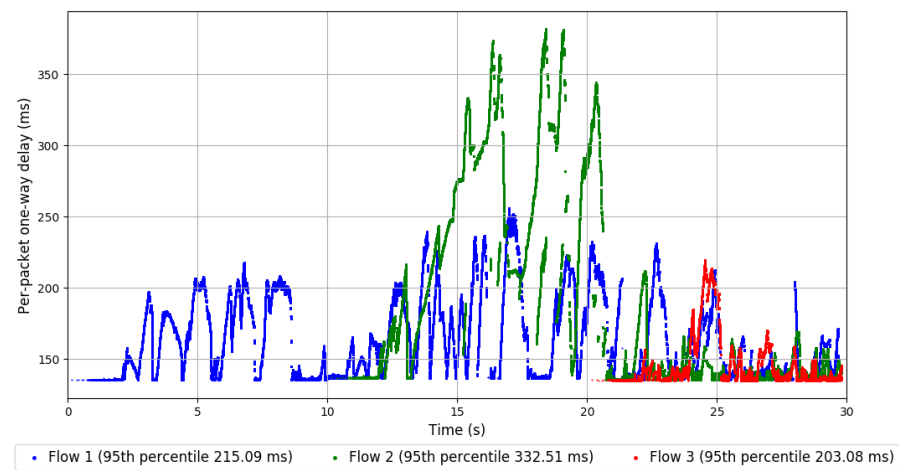
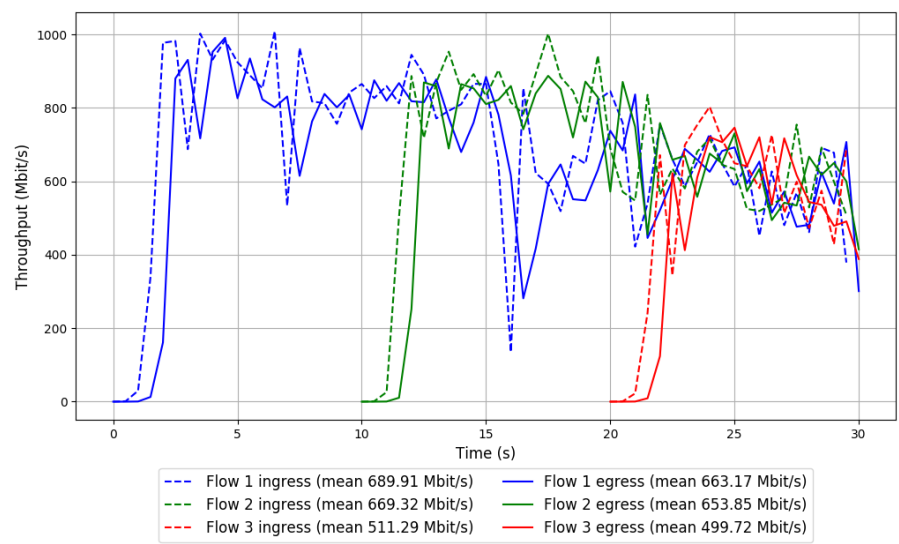


Run 1: Statistics of FillP

Start at: 2018-06-06 17:31:37
End at: 2018-06-06 17:32:07
Local clock offset: 0.104 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-06-06 22:33:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 1258.19 Mbit/s
95th percentile per-packet one-way delay: 298.020 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 663.17 Mbit/s
95th percentile per-packet one-way delay: 215.086 ms
Loss rate: 4.79%
-- Flow 2:
Average throughput: 653.85 Mbit/s
95th percentile per-packet one-way delay: 332.515 ms
Loss rate: 3.65%
-- Flow 3:
Average throughput: 499.72 Mbit/s
95th percentile per-packet one-way delay: 203.084 ms
Loss rate: 4.95%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-06 17:56:19

End at: 2018-06-06 17:56:49

Local clock offset: 0.421 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-06-06 22:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1268.57 Mbit/s

95th percentile per-packet one-way delay: 207.823 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 709.43 Mbit/s

95th percentile per-packet one-way delay: 201.406 ms

Loss rate: 2.86%

-- Flow 2:

Average throughput: 598.70 Mbit/s

95th percentile per-packet one-way delay: 218.639 ms

Loss rate: 3.85%

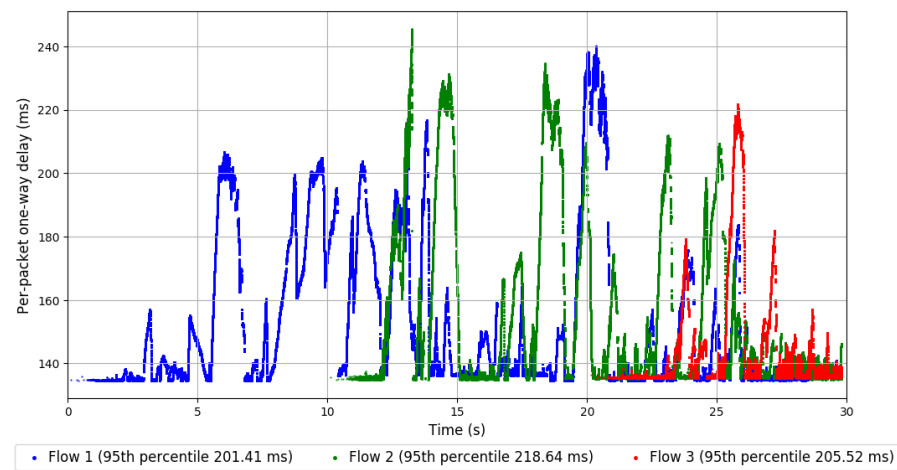
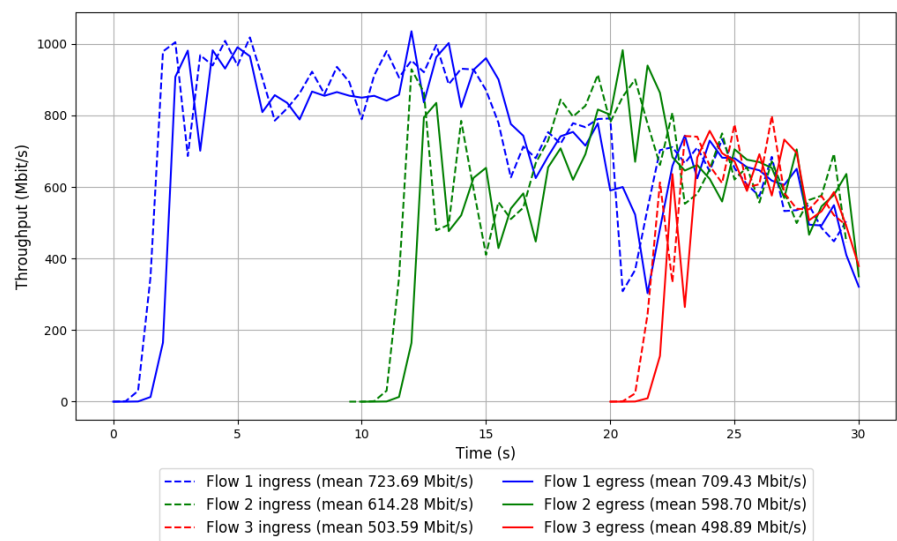
-- Flow 3:

Average throughput: 498.89 Mbit/s

95th percentile per-packet one-way delay: 205.520 ms

Loss rate: 3.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-06 18:21:23

End at: 2018-06-06 18:21:53

Local clock offset: -0.32 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-06 22:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1244.58 Mbit/s

95th percentile per-packet one-way delay: 251.648 ms

Loss rate: 3.54%

-- Flow 1:

Average throughput: 703.52 Mbit/s

95th percentile per-packet one-way delay: 239.025 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 645.21 Mbit/s

95th percentile per-packet one-way delay: 240.689 ms

Loss rate: 2.04%

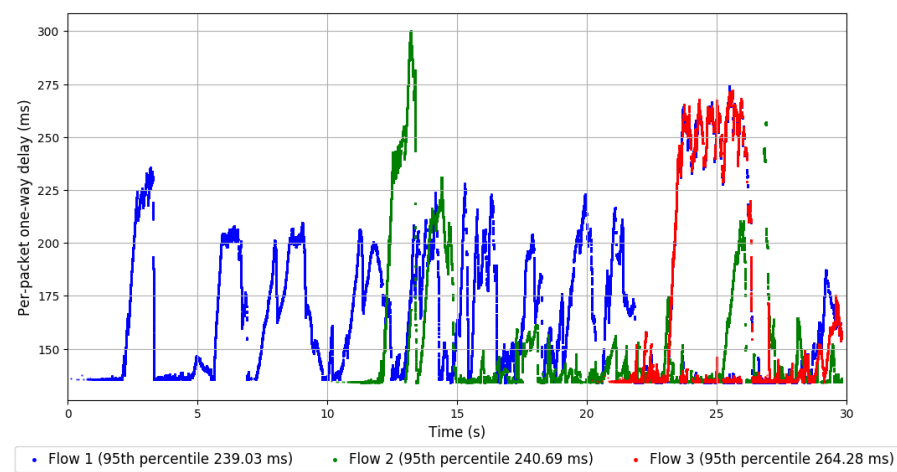
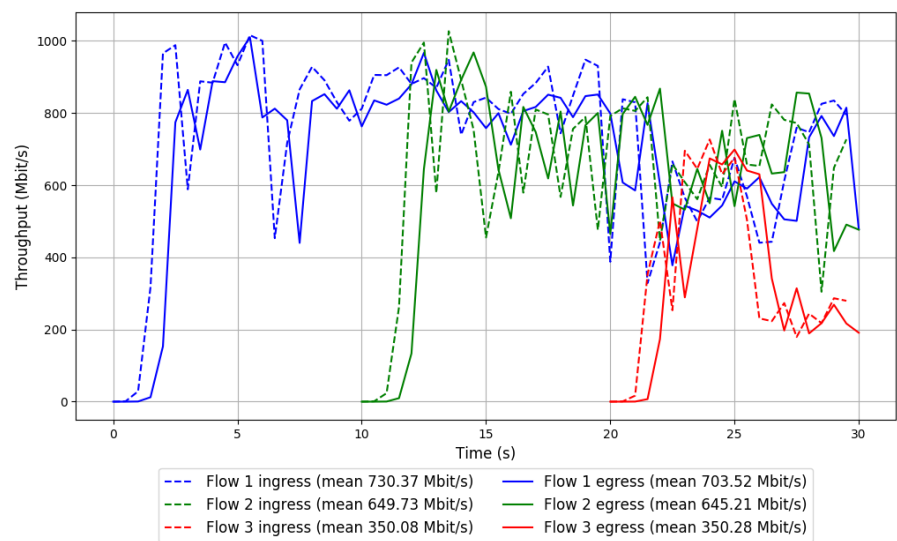
-- Flow 3:

Average throughput: 350.28 Mbit/s

95th percentile per-packet one-way delay: 264.280 ms

Loss rate: 2.67%

Run 3: Report of FillP — Data Link

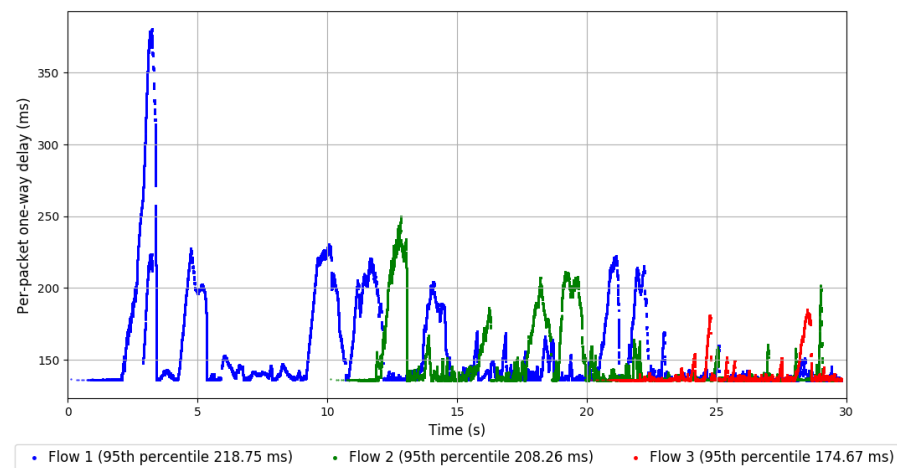
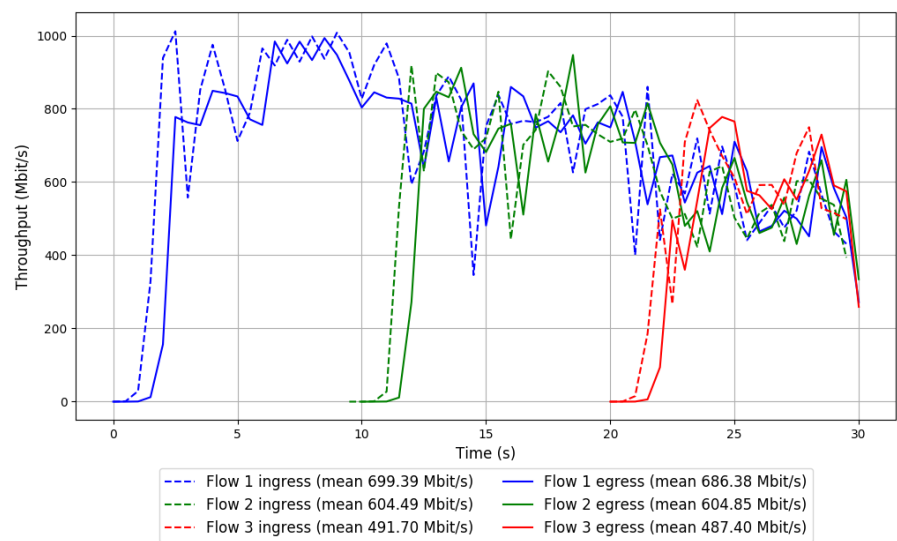


Run 4: Statistics of FillP

Start at: 2018-06-06 18:46:02
End at: 2018-06-06 18:46:32
Local clock offset: -0.341 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2018-06-06 22:34:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 1245.87 Mbit/s
95th percentile per-packet one-way delay: 213.210 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 686.38 Mbit/s
95th percentile per-packet one-way delay: 218.745 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 604.85 Mbit/s
95th percentile per-packet one-way delay: 208.260 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 487.40 Mbit/s
95th percentile per-packet one-way delay: 174.669 ms
Loss rate: 3.59%

Run 4: Report of FillP — Data Link

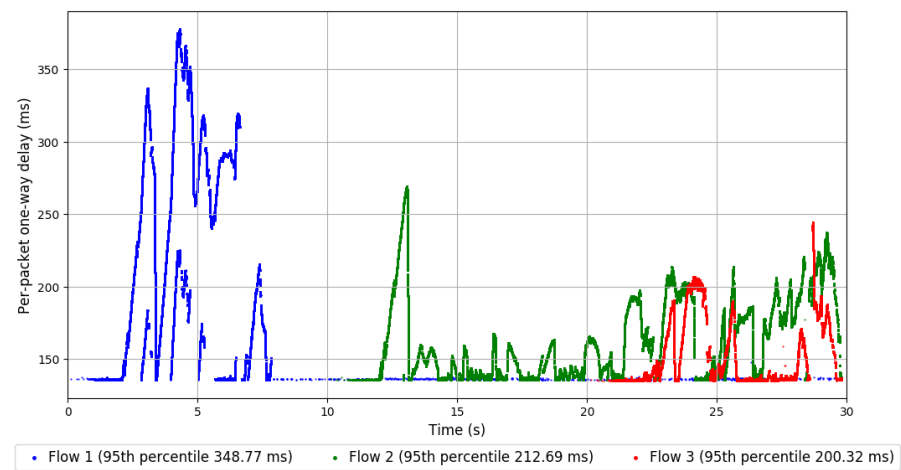
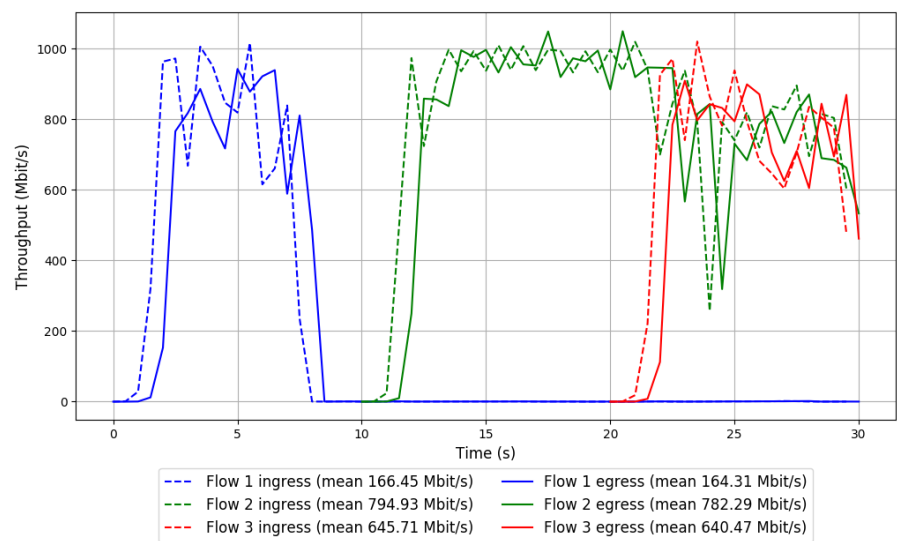


Run 5: Statistics of FillP

Start at: 2018-06-06 19:11:10
End at: 2018-06-06 19:11:40
Local clock offset: -0.554 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-06 22:34:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 890.64 Mbit/s
95th percentile per-packet one-way delay: 290.719 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 348.775 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 782.29 Mbit/s
95th percentile per-packet one-way delay: 212.687 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 640.47 Mbit/s
95th percentile per-packet one-way delay: 200.317 ms
Loss rate: 3.46%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-06 19:36:07

End at: 2018-06-06 19:36:37

Local clock offset: -0.767 ms

Remote clock offset: 0.449 ms

Below is generated by plot.py at 2018-06-06 22:34:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1227.04 Mbit/s

95th percentile per-packet one-way delay: 203.196 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 719.35 Mbit/s

95th percentile per-packet one-way delay: 194.047 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 545.99 Mbit/s

95th percentile per-packet one-way delay: 210.959 ms

Loss rate: 5.59%

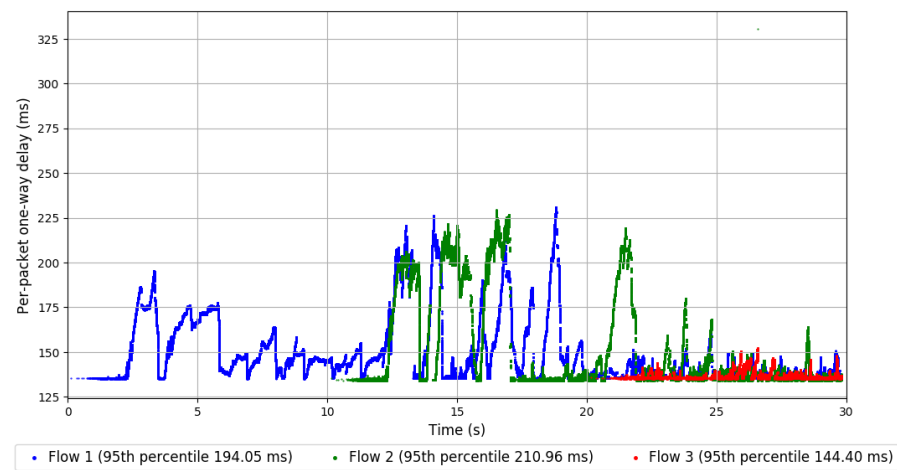
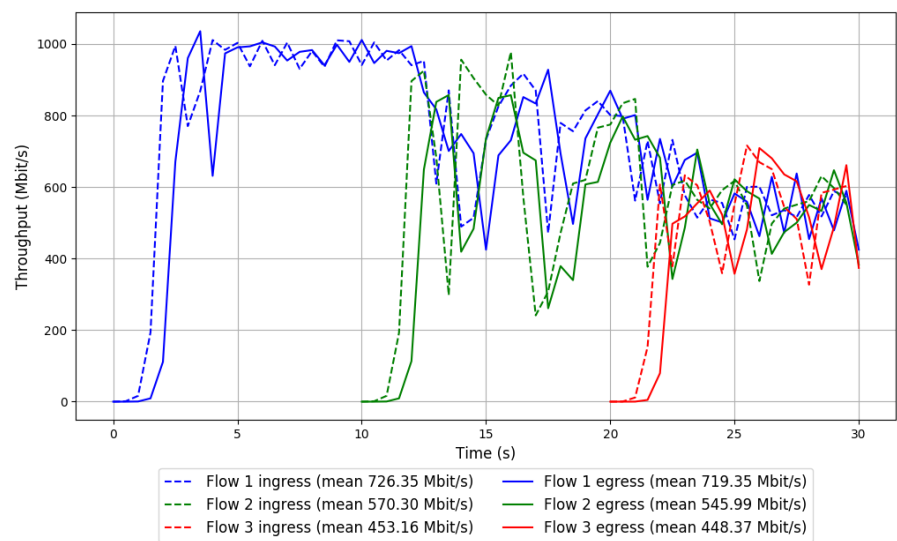
-- Flow 3:

Average throughput: 448.37 Mbit/s

95th percentile per-packet one-way delay: 144.403 ms

Loss rate: 3.81%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-06 20:01:21

End at: 2018-06-06 20:01:51

Local clock offset: -0.877 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-06 22:34:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1222.37 Mbit/s

95th percentile per-packet one-way delay: 230.473 ms

Loss rate: 3.92%

-- Flow 1:

Average throughput: 675.86 Mbit/s

95th percentile per-packet one-way delay: 240.084 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 583.25 Mbit/s

95th percentile per-packet one-way delay: 220.035 ms

Loss rate: 6.09%

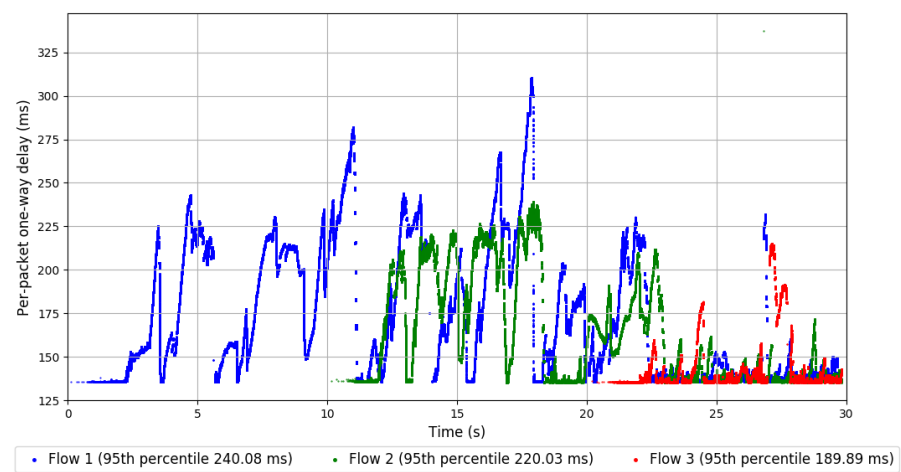
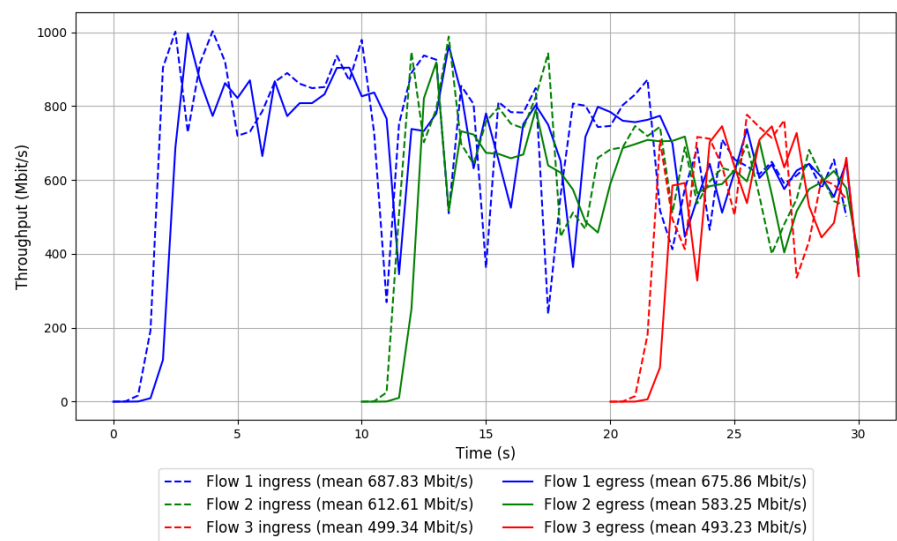
-- Flow 3:

Average throughput: 493.23 Mbit/s

95th percentile per-packet one-way delay: 189.893 ms

Loss rate: 3.93%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-06 20:26:20

End at: 2018-06-06 20:26:50

Local clock offset: 0.263 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-06 22:39:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1228.43 Mbit/s

95th percentile per-packet one-way delay: 213.576 ms

Loss rate: 3.78%

-- Flow 1:

Average throughput: 664.98 Mbit/s

95th percentile per-packet one-way delay: 214.338 ms

Loss rate: 3.80%

-- Flow 2:

Average throughput: 604.41 Mbit/s

95th percentile per-packet one-way delay: 216.211 ms

Loss rate: 3.42%

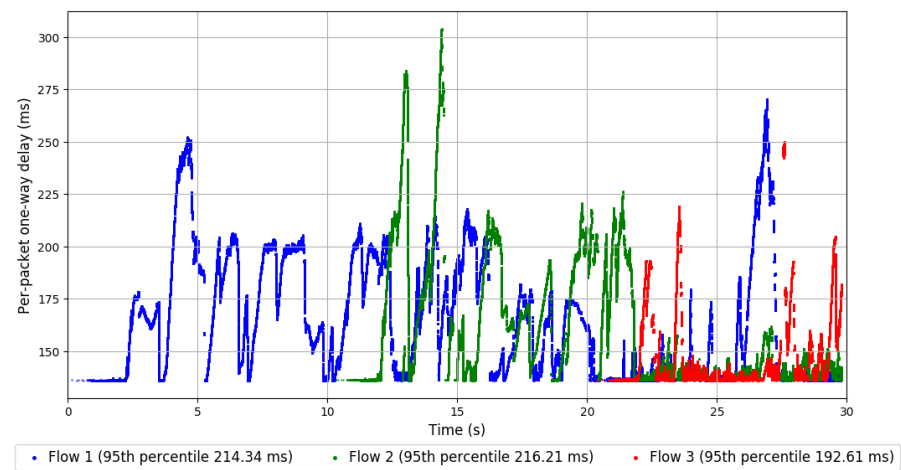
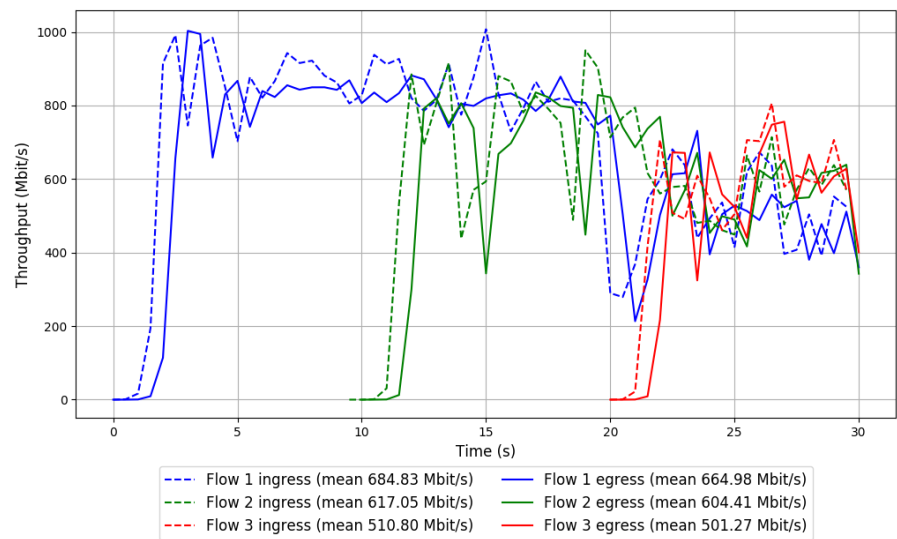
-- Flow 3:

Average throughput: 501.27 Mbit/s

95th percentile per-packet one-way delay: 192.607 ms

Loss rate: 4.57%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-06 20:51:16

End at: 2018-06-06 20:51:46

Local clock offset: 0.67 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-06 22:56:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 1228.86 Mbit/s

95th percentile per-packet one-way delay: 222.554 ms

Loss rate: 5.02%

-- Flow 1:

Average throughput: 677.14 Mbit/s

95th percentile per-packet one-way delay: 218.760 ms

Loss rate: 4.44%

-- Flow 2:

Average throughput: 592.45 Mbit/s

95th percentile per-packet one-way delay: 235.043 ms

Loss rate: 7.02%

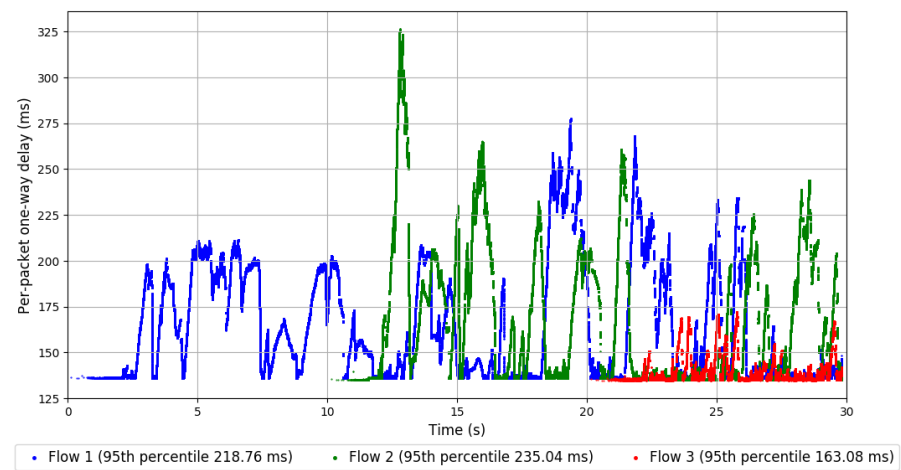
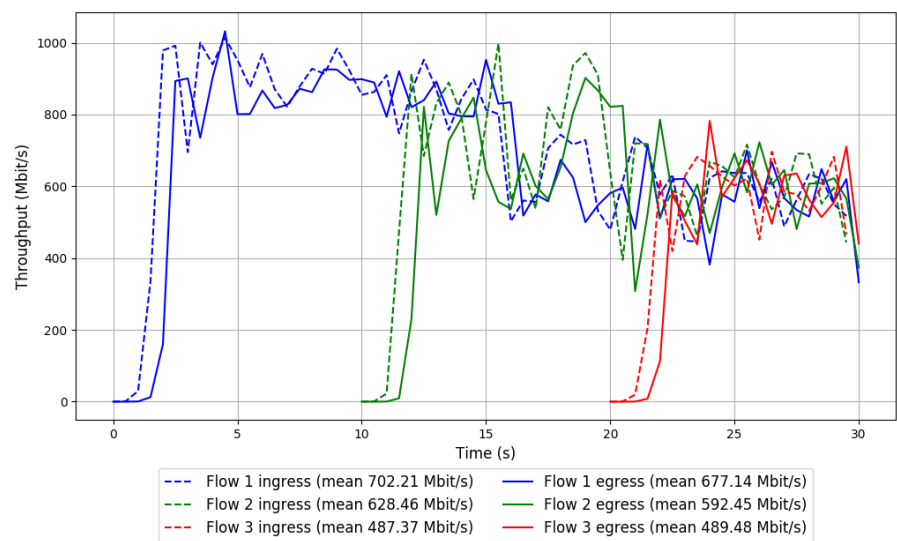
-- Flow 3:

Average throughput: 489.48 Mbit/s

95th percentile per-packet one-way delay: 163.077 ms

Loss rate: 2.32%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-06 21:16:18

End at: 2018-06-06 21:16:48

Local clock offset: -0.004 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 1244.38 Mbit/s

95th percentile per-packet one-way delay: 204.266 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 698.76 Mbit/s

95th percentile per-packet one-way delay: 208.672 ms

Loss rate: 3.55%

-- Flow 2:

Average throughput: 584.02 Mbit/s

95th percentile per-packet one-way delay: 162.223 ms

Loss rate: 1.60%

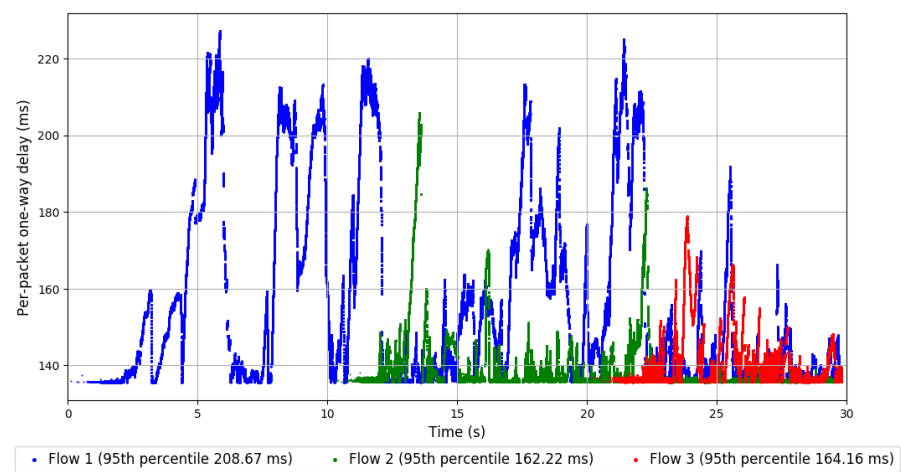
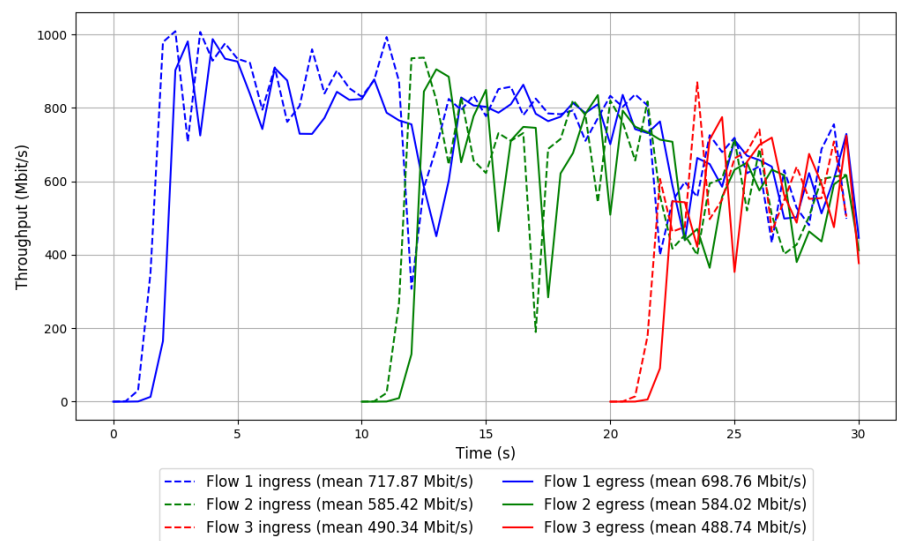
-- Flow 3:

Average throughput: 488.74 Mbit/s

95th percentile per-packet one-way delay: 164.162 ms

Loss rate: 3.07%

Run 10: Report of FillP — Data Link

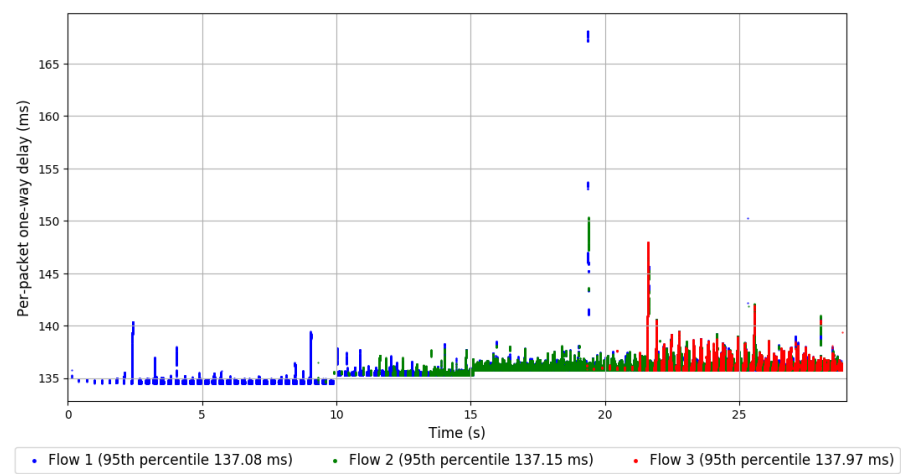
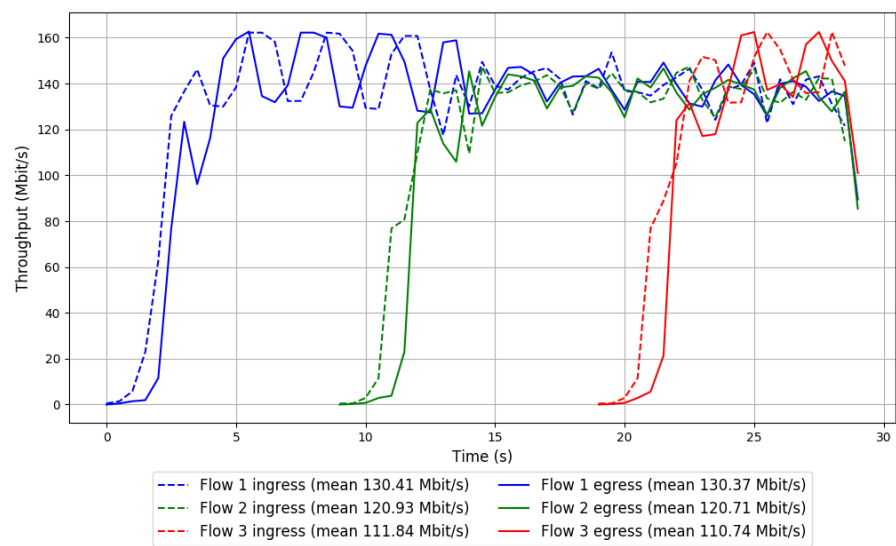


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 17:43:41
End at: 2018-06-06 17:44:11
Local clock offset: 0.428 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.06 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 130.37 Mbit/s
95th percentile per-packet one-way delay: 137.079 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 120.71 Mbit/s
95th percentile per-packet one-way delay: 137.154 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 137.971 ms
Loss rate: 3.70%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-06 18:08:38

End at: 2018-06-06 18:09:08

Local clock offset: -0.041 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.08 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 179.13 Mbit/s

95th percentile per-packet one-way delay: 136.300 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 127.09 Mbit/s

95th percentile per-packet one-way delay: 136.986 ms

Loss rate: 1.52%

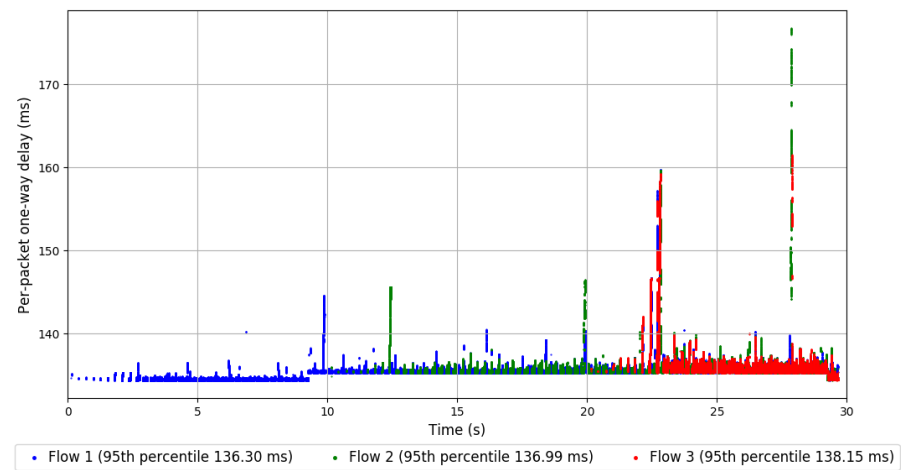
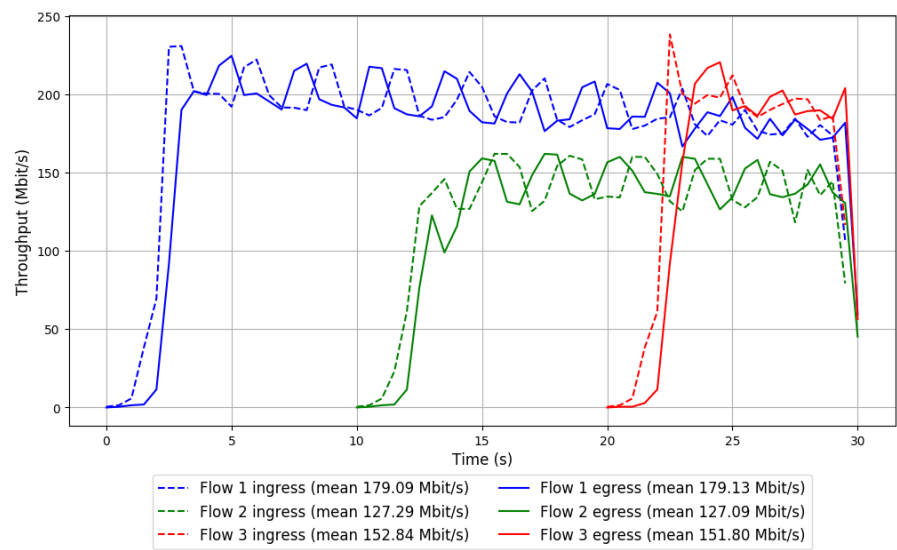
-- Flow 3:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 138.148 ms

Loss rate: 3.43%

Run 2: Report of Indigo — Data Link

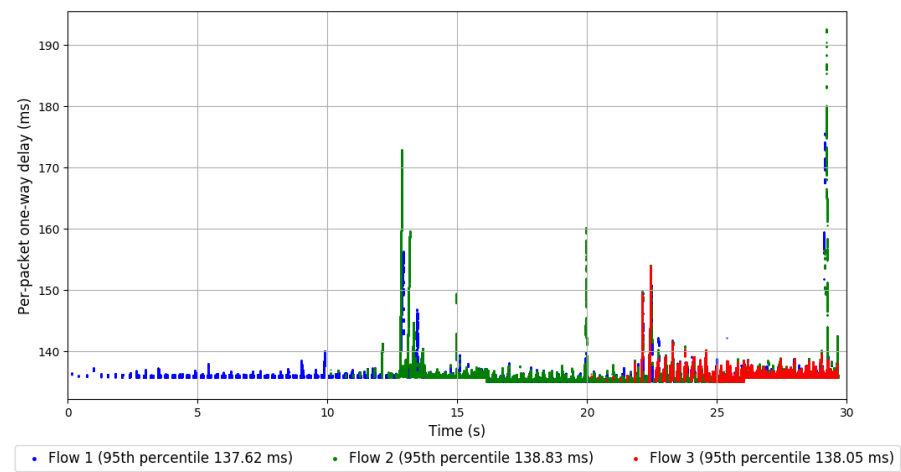
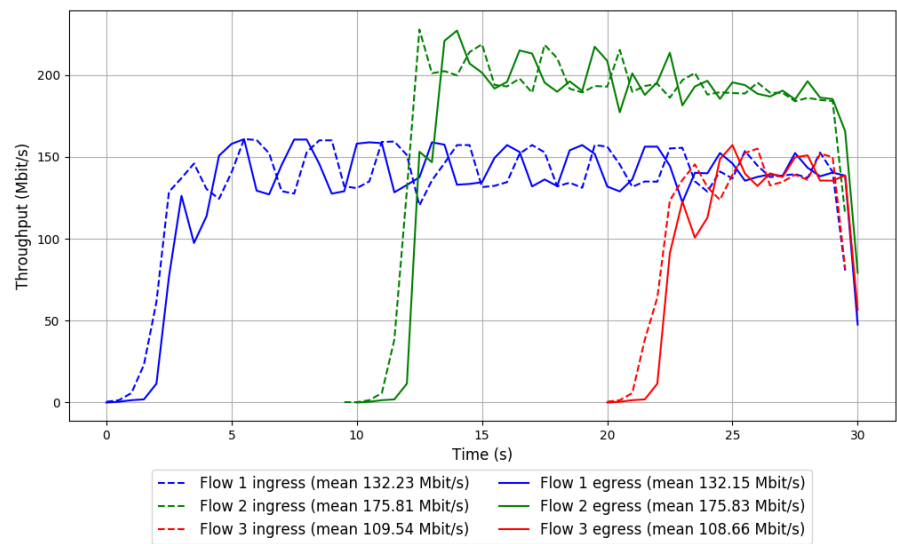


Run 3: Statistics of Indigo

Start at: 2018-06-06 18:33:21
End at: 2018-06-06 18:33:51
Local clock offset: -0.075 ms
Remote clock offset: -0.416 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.43 Mbit/s
95th percentile per-packet one-way delay: 138.050 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 132.15 Mbit/s
95th percentile per-packet one-way delay: 137.623 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 175.83 Mbit/s
95th percentile per-packet one-way delay: 138.829 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 108.66 Mbit/s
95th percentile per-packet one-way delay: 138.048 ms
Loss rate: 3.61%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-06 18:58:23

End at: 2018-06-06 18:58:53

Local clock offset: -0.43 ms

Remote clock offset: -0.57 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.36 Mbit/s

95th percentile per-packet one-way delay: 139.578 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 178.34 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 124.69 Mbit/s

95th percentile per-packet one-way delay: 142.845 ms

Loss rate: 1.56%

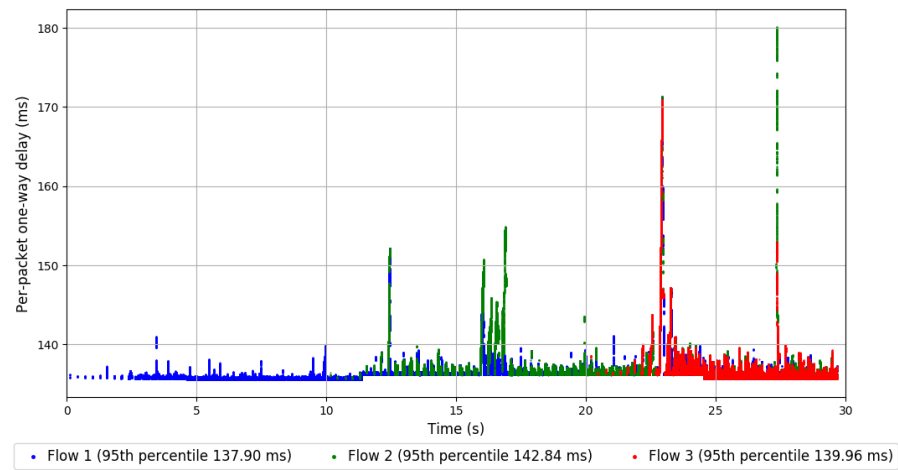
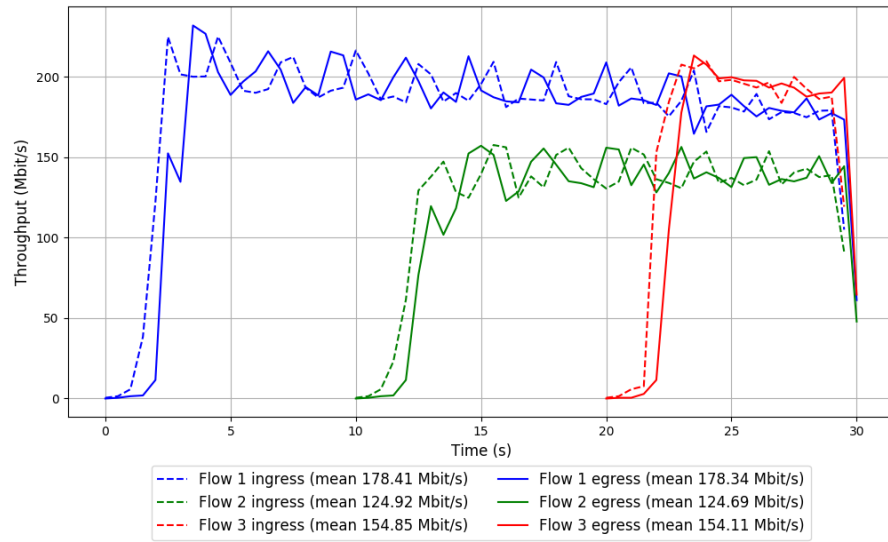
-- Flow 3:

Average throughput: 154.11 Mbit/s

95th percentile per-packet one-way delay: 139.957 ms

Loss rate: 3.26%

Run 4: Report of Indigo — Data Link

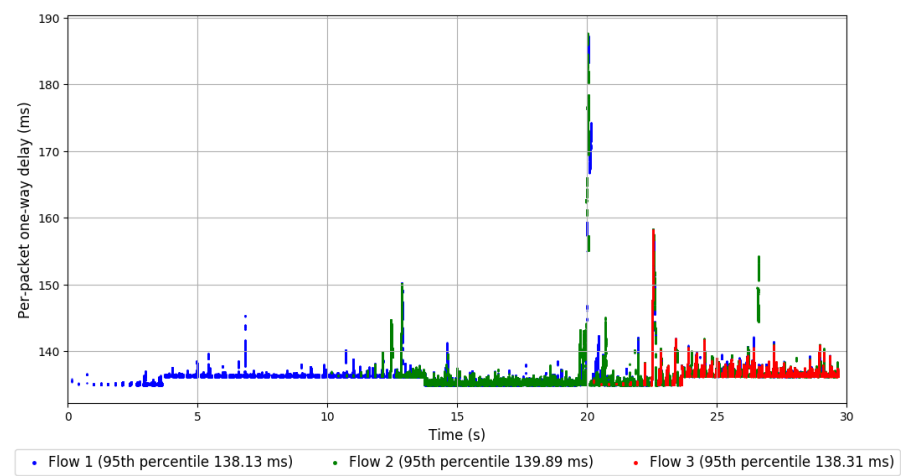
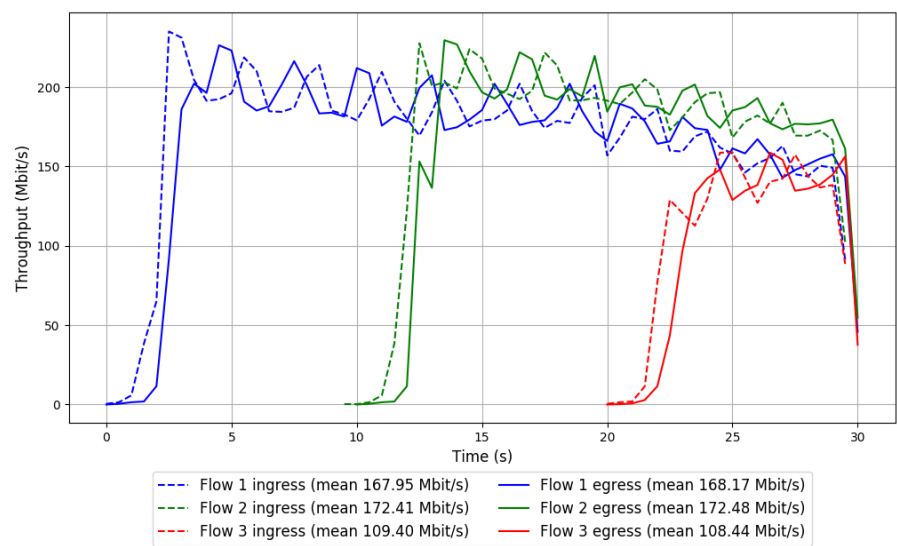


Run 5: Statistics of Indigo

Start at: 2018-06-06 19:23:24
End at: 2018-06-06 19:23:54
Local clock offset: -0.599 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.83 Mbit/s
95th percentile per-packet one-way delay: 138.766 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 168.17 Mbit/s
95th percentile per-packet one-way delay: 138.128 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 172.48 Mbit/s
95th percentile per-packet one-way delay: 139.890 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 108.44 Mbit/s
95th percentile per-packet one-way delay: 138.311 ms
Loss rate: 3.67%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-06 19:48:38

End at: 2018-06-06 19:49:08

Local clock offset: -0.782 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.57 Mbit/s

95th percentile per-packet one-way delay: 139.727 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 132.24 Mbit/s

95th percentile per-packet one-way delay: 138.987 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 126.61 Mbit/s

95th percentile per-packet one-way delay: 140.007 ms

Loss rate: 1.54%

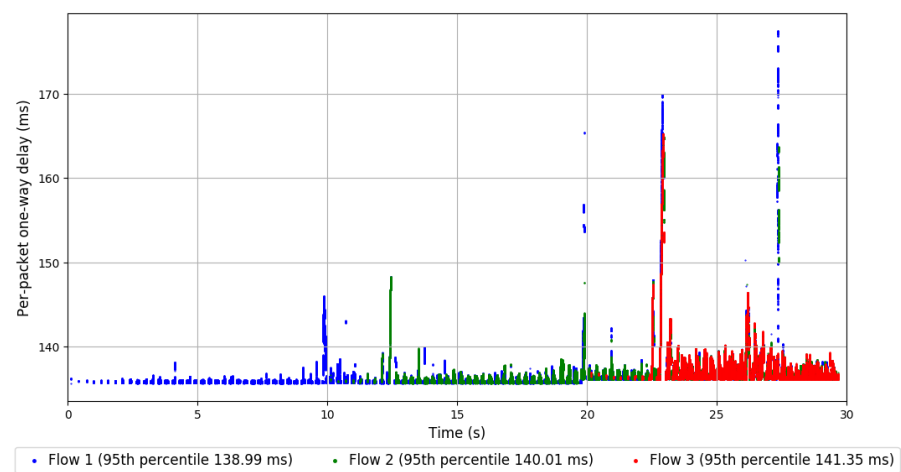
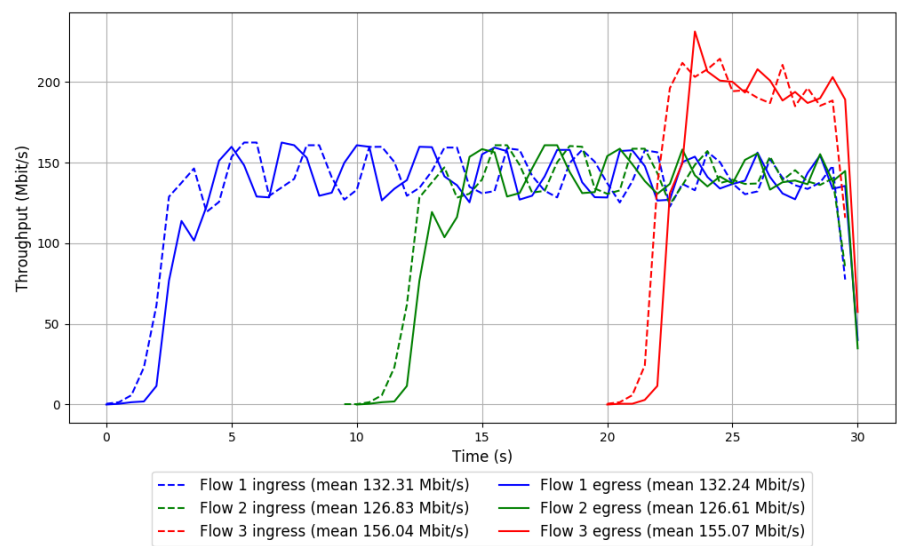
-- Flow 3:

Average throughput: 155.07 Mbit/s

95th percentile per-packet one-way delay: 141.349 ms

Loss rate: 3.40%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-06 20:13:42

End at: 2018-06-06 20:14:12

Local clock offset: -0.746 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.28 Mbit/s

95th percentile per-packet one-way delay: 137.410 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 136.05 Mbit/s

95th percentile per-packet one-way delay: 137.157 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 129.24 Mbit/s

95th percentile per-packet one-way delay: 136.962 ms

Loss rate: 1.55%

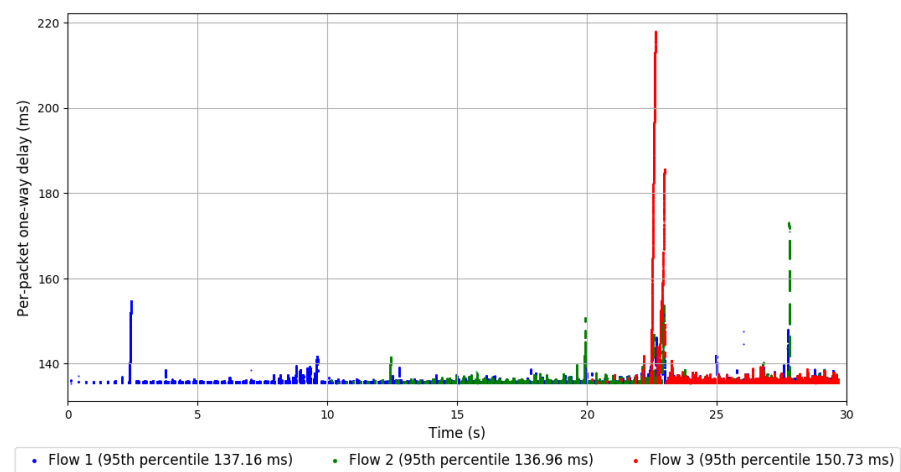
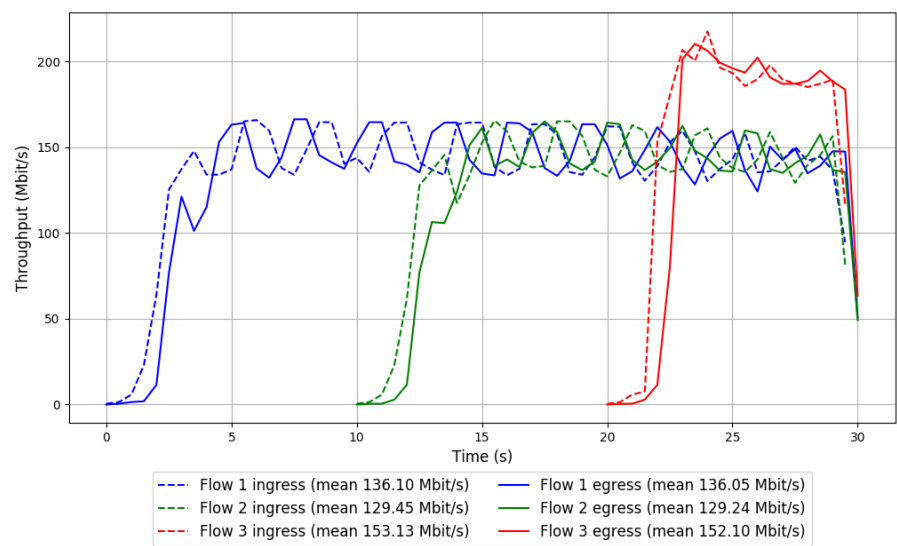
-- Flow 3:

Average throughput: 152.10 Mbit/s

95th percentile per-packet one-way delay: 150.728 ms

Loss rate: 3.44%

Run 7: Report of Indigo — Data Link

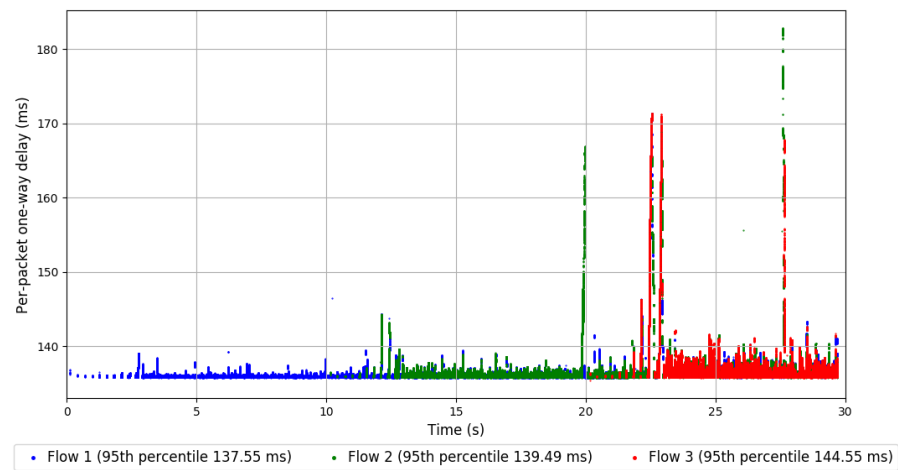
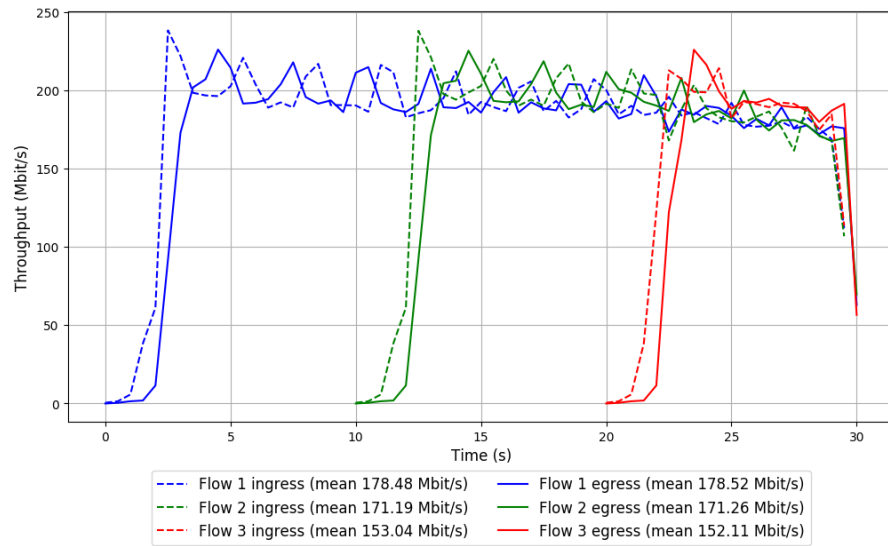


Run 8: Statistics of Indigo

Start at: 2018-06-06 20:38:26
End at: 2018-06-06 20:38:56
Local clock offset: 0.531 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.83 Mbit/s
95th percentile per-packet one-way delay: 138.662 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 178.52 Mbit/s
95th percentile per-packet one-way delay: 137.549 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 171.26 Mbit/s
95th percentile per-packet one-way delay: 139.485 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 152.11 Mbit/s
95th percentile per-packet one-way delay: 144.547 ms
Loss rate: 3.35%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-06 21:03:39

End at: 2018-06-06 21:04:09

Local clock offset: 0.24 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.55 Mbit/s

95th percentile per-packet one-way delay: 137.420 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 133.56 Mbit/s

95th percentile per-packet one-way delay: 136.995 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 126.96 Mbit/s

95th percentile per-packet one-way delay: 137.320 ms

Loss rate: 1.53%

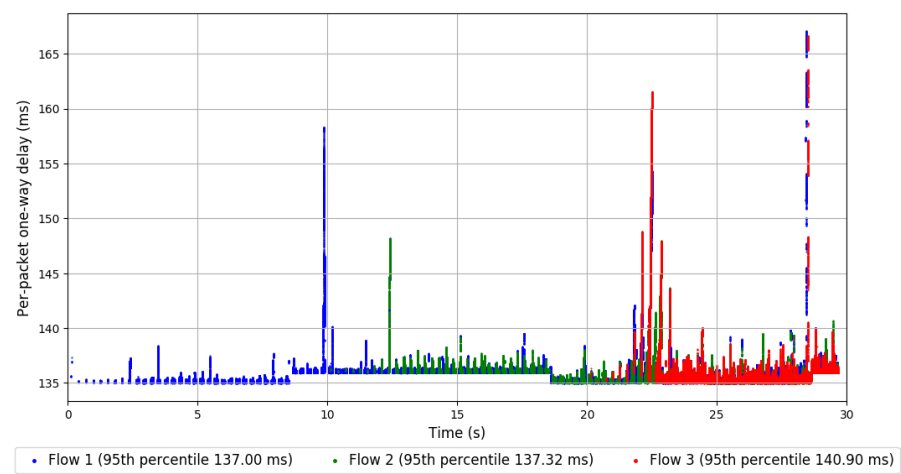
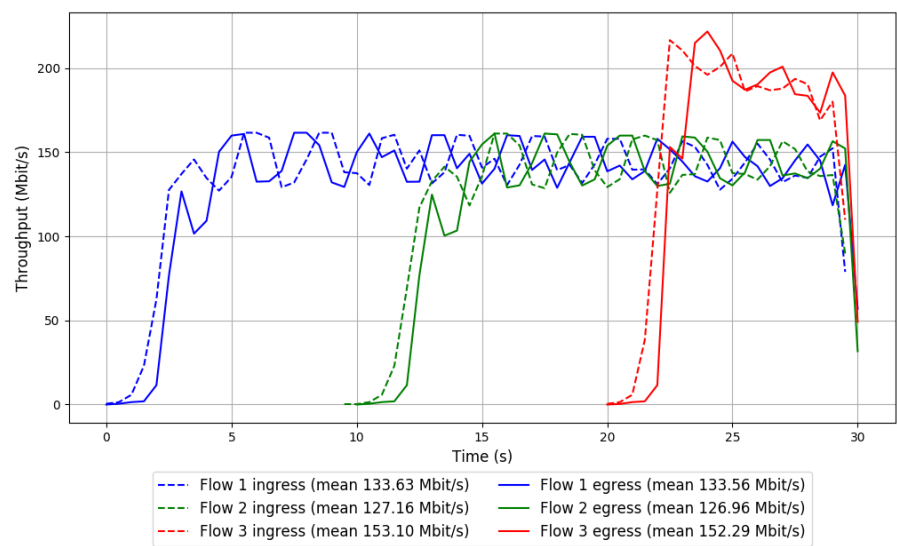
-- Flow 3:

Average throughput: 152.29 Mbit/s

95th percentile per-packet one-way delay: 140.901 ms

Loss rate: 3.29%

Run 9: Report of Indigo — Data Link

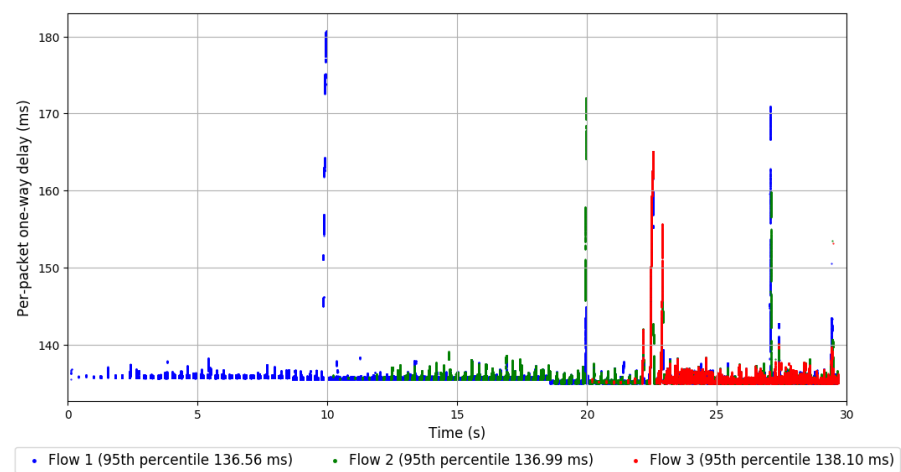
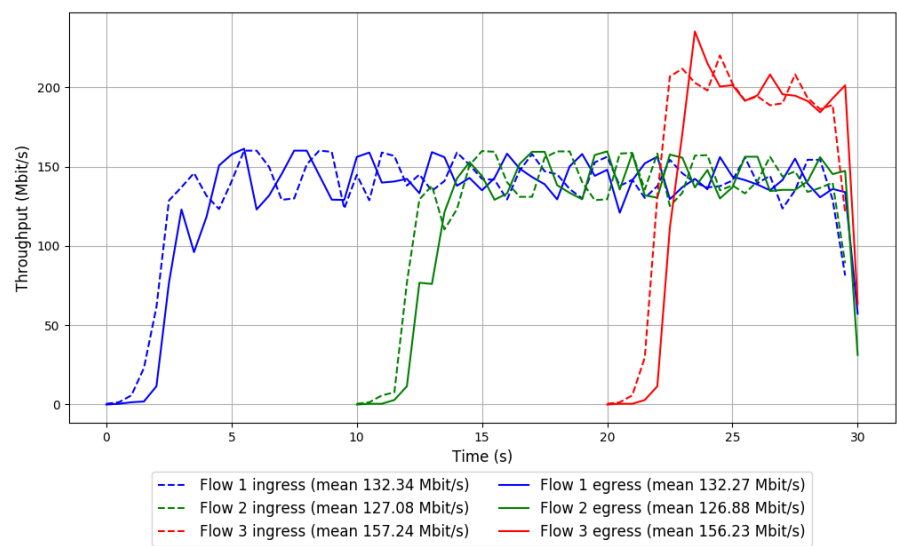


Run 10: Statistics of Indigo

Start at: 2018-06-06 21:28:19
End at: 2018-06-06 21:28:49
Local clock offset: -0.222 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 266.07 Mbit/s
95th percentile per-packet one-way delay: 136.881 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 132.27 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 126.88 Mbit/s
95th percentile per-packet one-way delay: 136.988 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 156.23 Mbit/s
95th percentile per-packet one-way delay: 138.102 ms
Loss rate: 3.39%

Run 10: Report of Indigo — Data Link

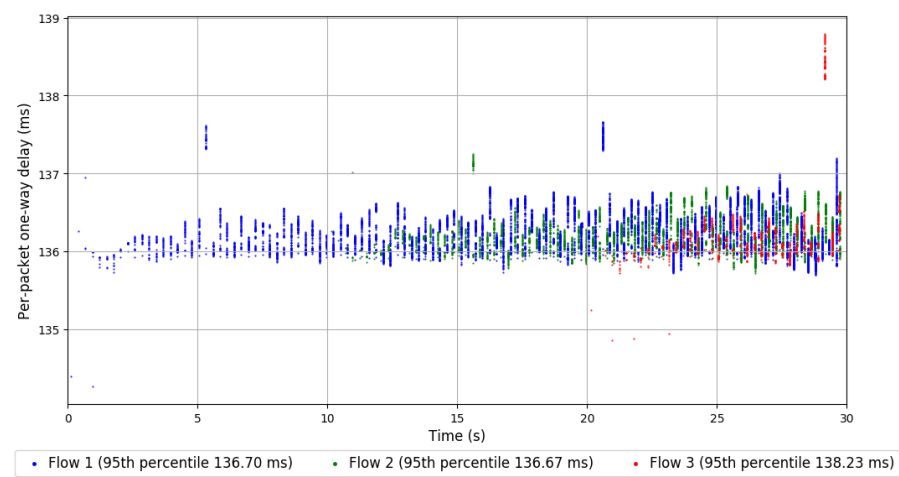
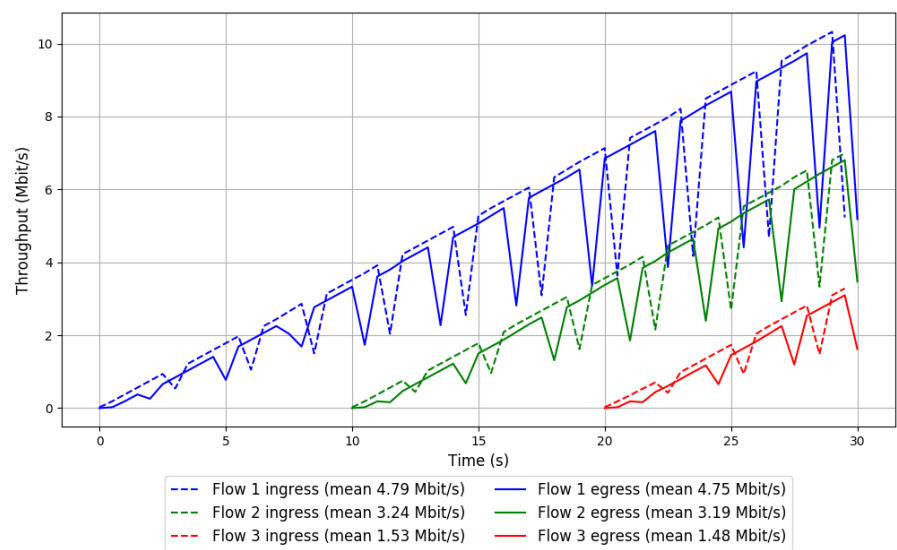


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 17:51:30
End at: 2018-06-06 17:52:00
Local clock offset: 0.4 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 136.695 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 136.702 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 136.673 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 138.228 ms
Loss rate: 5.55%
```

Run 1: Report of LEDBAT — Data Link

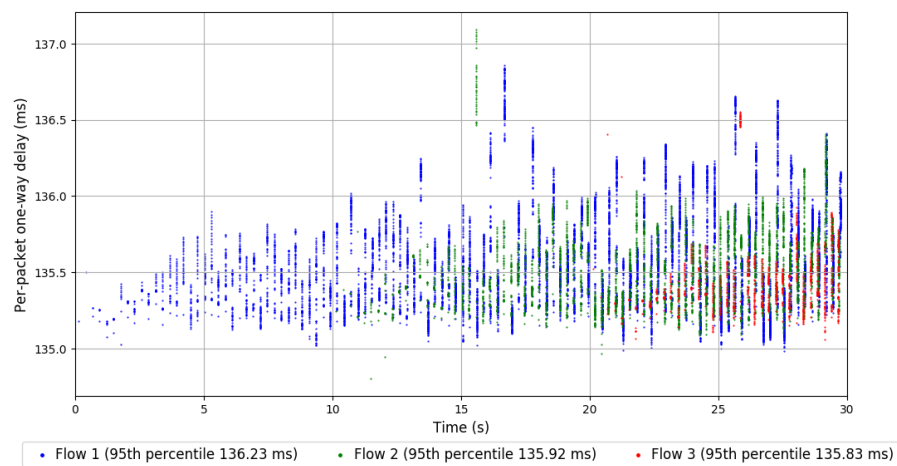
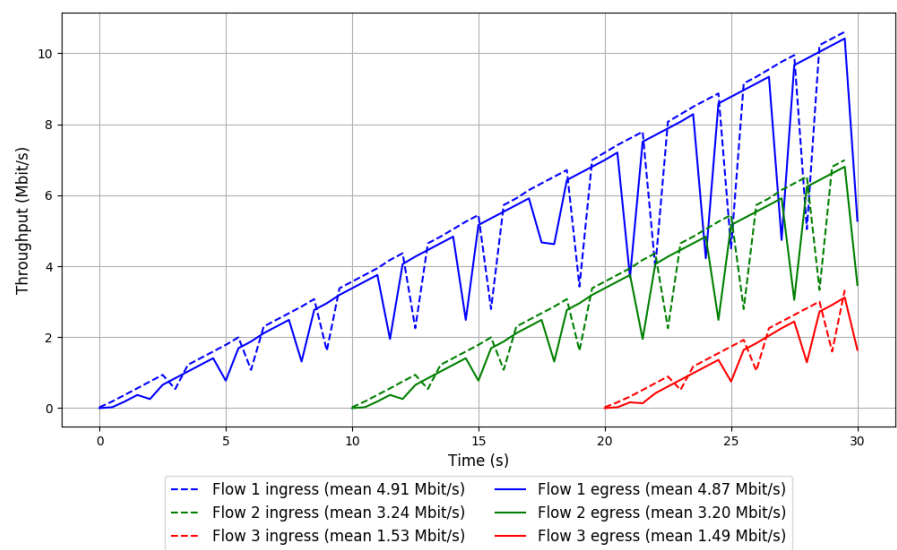


```
Run 2: Statistics of LEDBAT

Start at: 2018-06-06 18:16:31
End at: 2018-06-06 18:17:01
Local clock offset: -0.062 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 136.181 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 136.229 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 135.923 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 135.828 ms
Loss rate: 5.63%
```

Run 2: Report of LEDBAT — Data Link

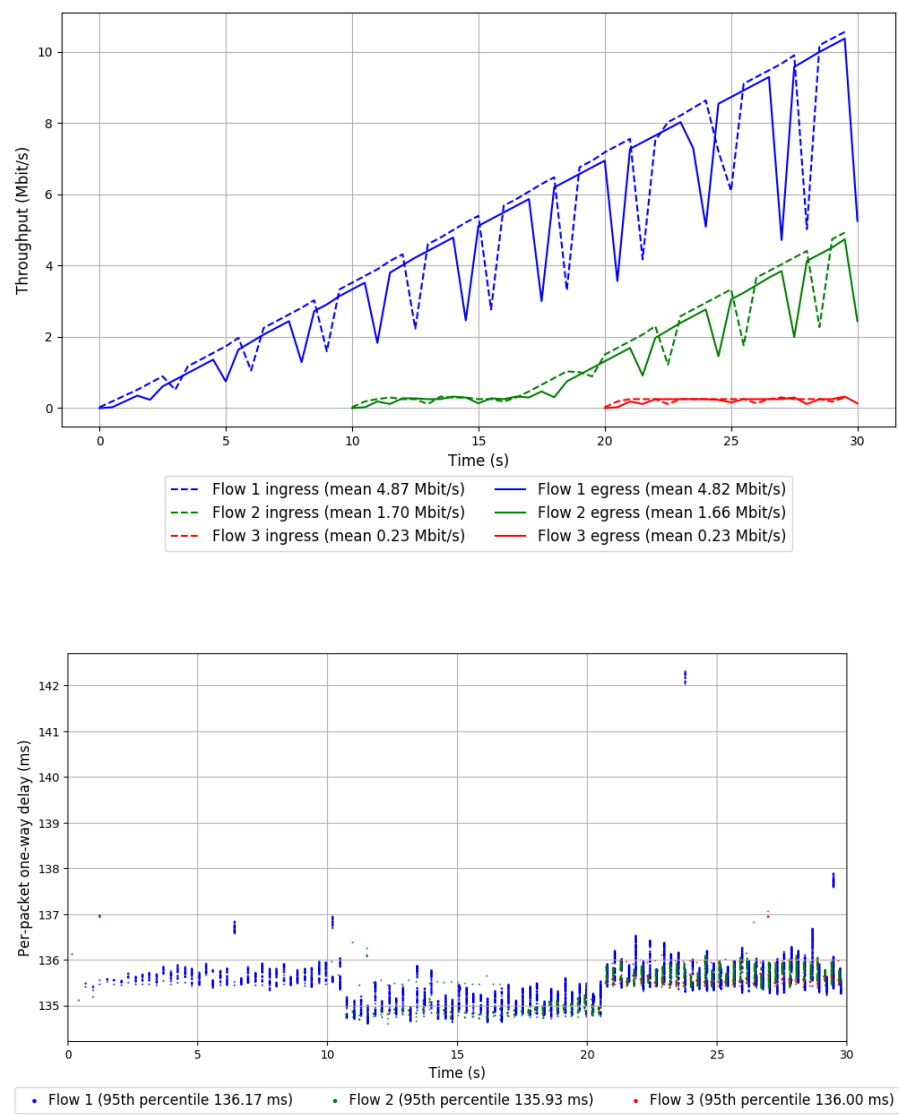


Run 3: Statistics of LEDBAT

Start at: 2018-06-06 18:41:07
End at: 2018-06-06 18:41:37
Local clock offset: -0.289 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 136.128 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 136.168 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 135.932 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 135.997 ms
Loss rate: 3.55%

Run 3: Report of LEDBAT — Data Link

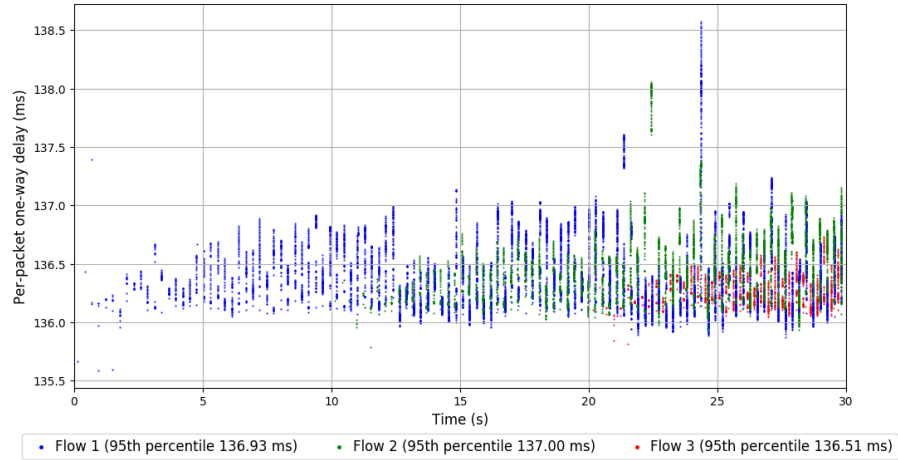
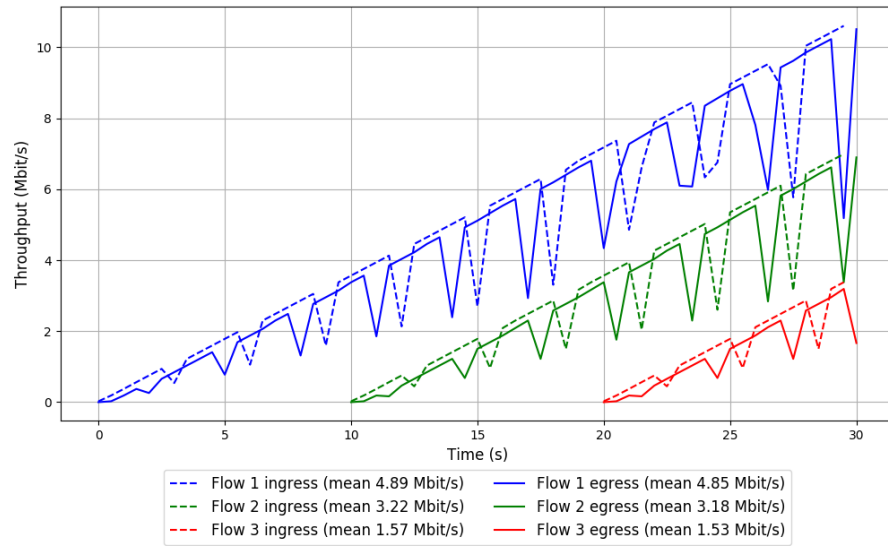


Run 4: Statistics of LEDBAT

Start at: 2018-06-06 19:06:14
End at: 2018-06-06 19:06:44
Local clock offset: -0.4 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 136.942 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 136.932 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 137.005 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.506 ms
Loss rate: 5.55%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-06 19:31:12

End at: 2018-06-06 19:31:42

Local clock offset: -0.697 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 137.044 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 137.046 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 137.084 ms

Loss rate: 2.74%

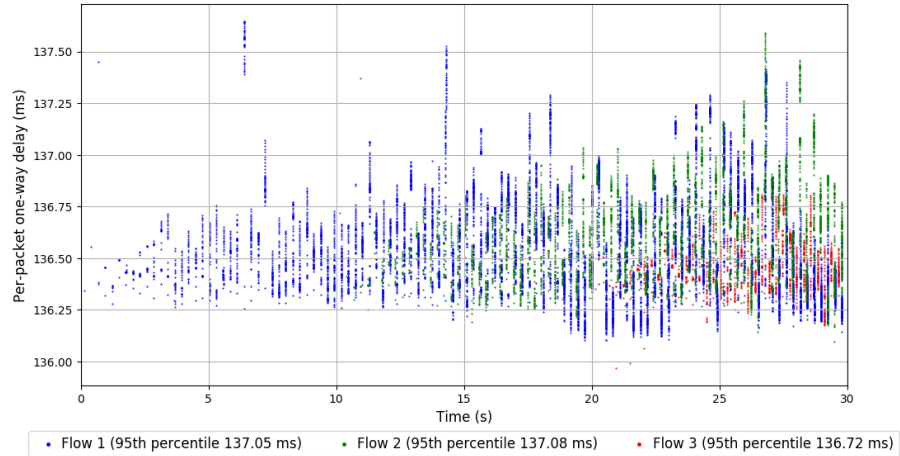
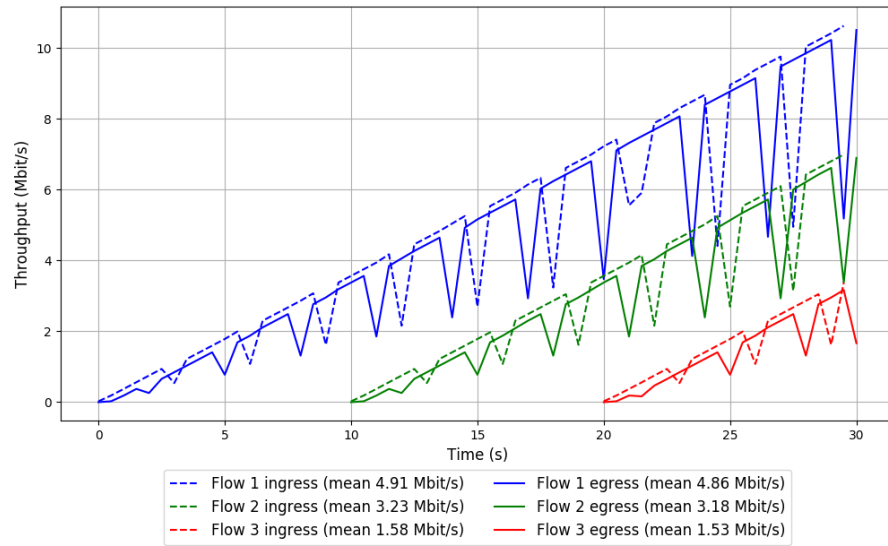
-- Flow 3:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 5.56%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-06 19:56:27

End at: 2018-06-06 19:56:57

Local clock offset: -0.704 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 137.260 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 137.113 ms

Loss rate: 2.74%

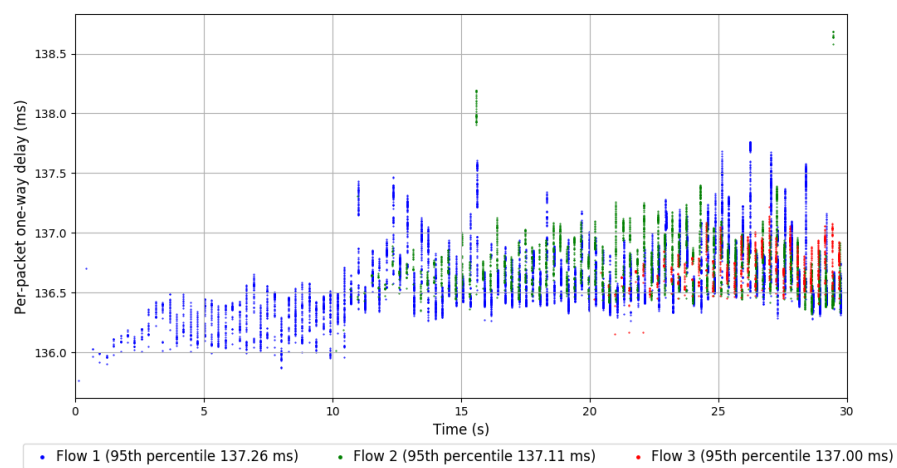
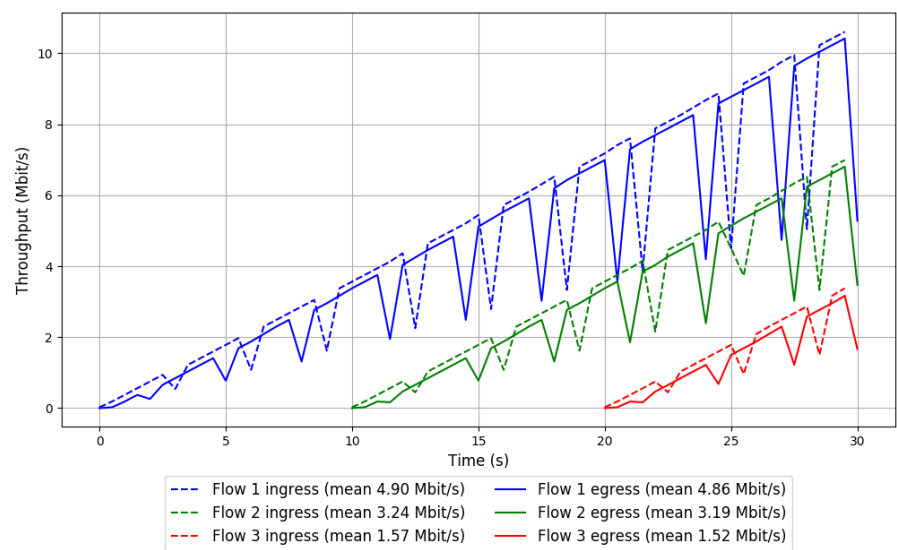
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 136.998 ms

Loss rate: 5.56%

Run 6: Report of LEDBAT — Data Link

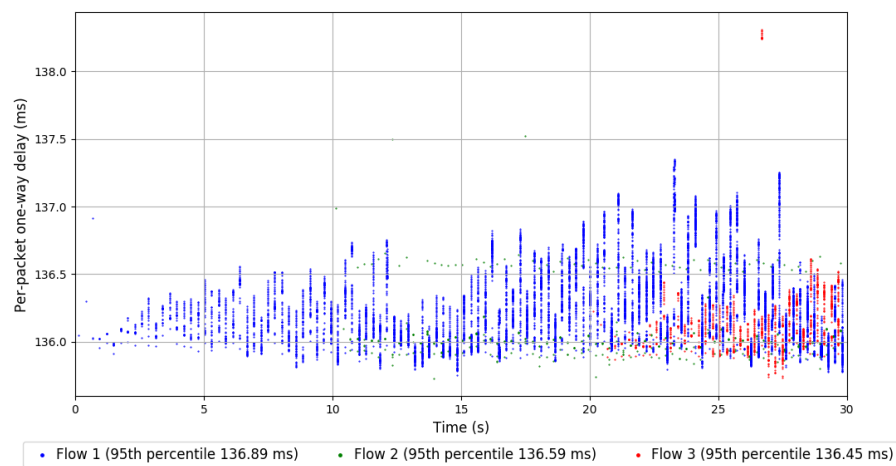
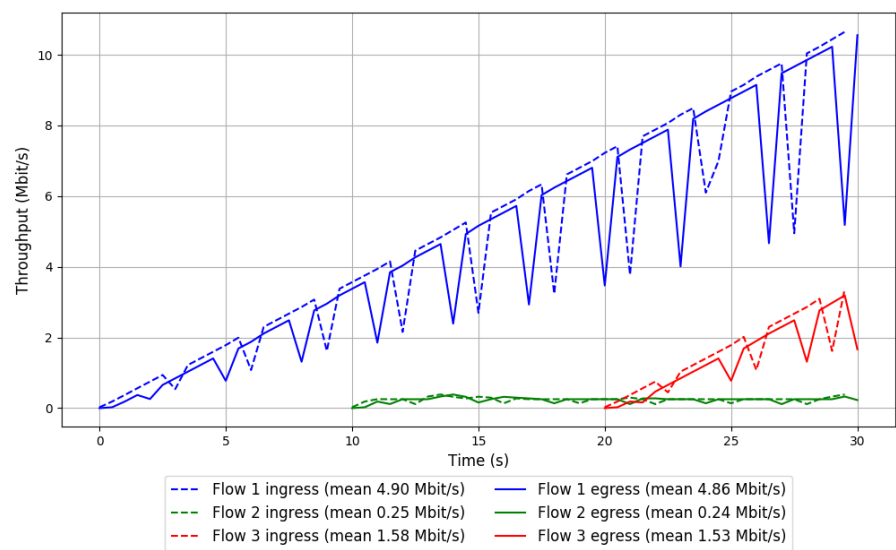


Run 7: Statistics of LEDBAT

Start at: 2018-06-06 20:21:30
End at: 2018-06-06 20:22:00
Local clock offset: -0.212 ms
Remote clock offset: 0.044 ms

```
# Below is generated by plot.py at 2018-06-06 23:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.51 Mbit/s
95th percentile per-packet one-way delay: 136.873 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.892 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.595 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.454 ms
Loss rate: 5.54%
```


Run 7: Report of LEDBAT — Data Link

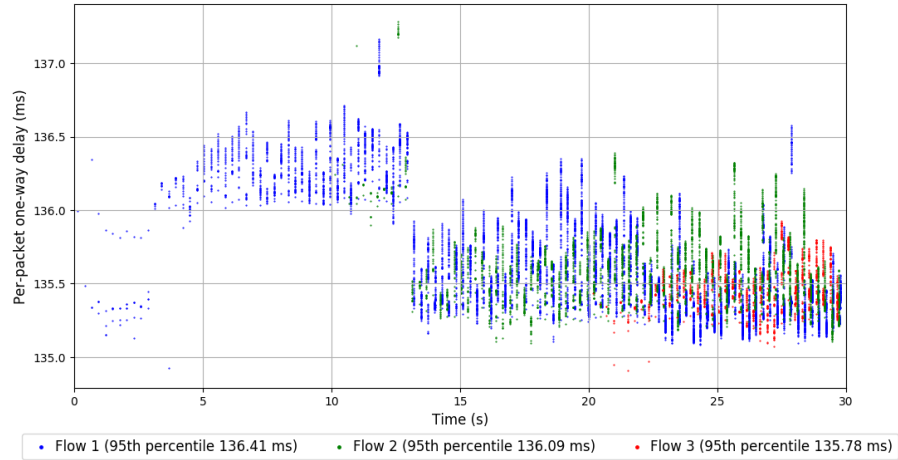
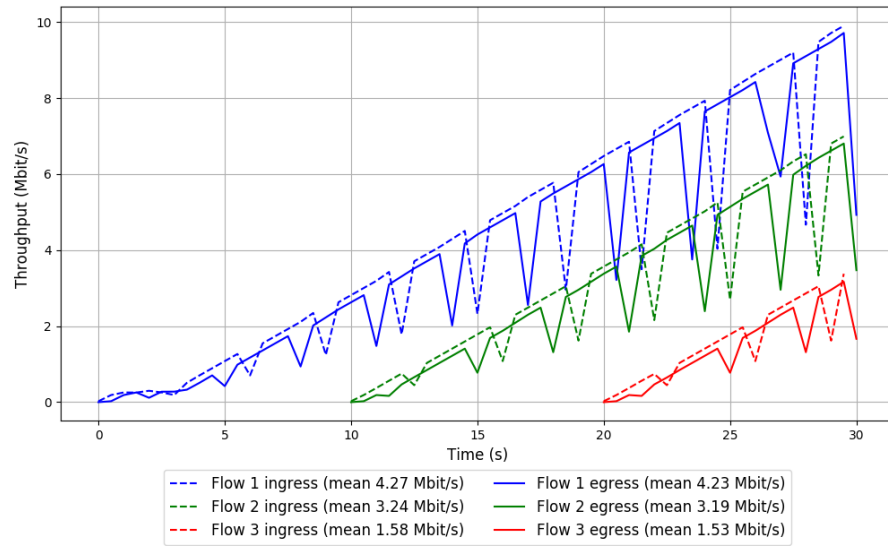


Run 8: Statistics of LEDBAT

Start at: 2018-06-06 20:46:25
End at: 2018-06-06 20:46:55
Local clock offset: 0.773 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 136.310 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 136.412 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 136.086 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 135.781 ms
Loss rate: 5.56%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-06 21:11:24

End at: 2018-06-06 21:11:54

Local clock offset: -0.352 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 134.962 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 134.994 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 134.890 ms

Loss rate: 3.09%

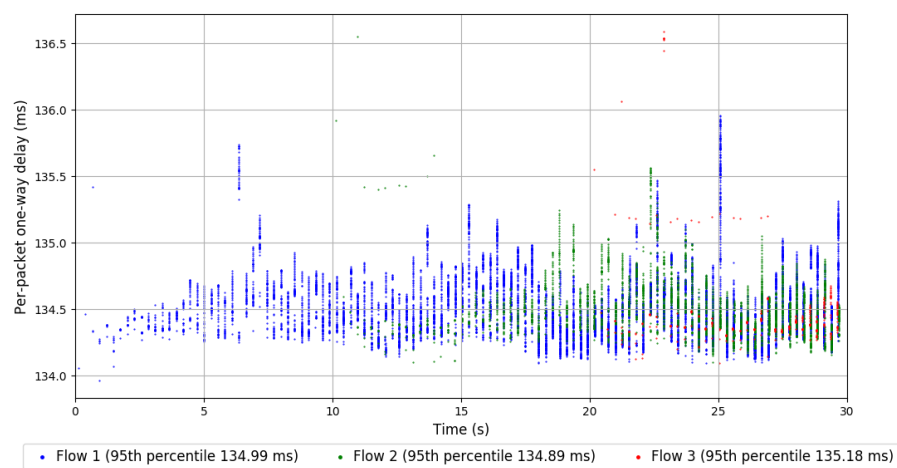
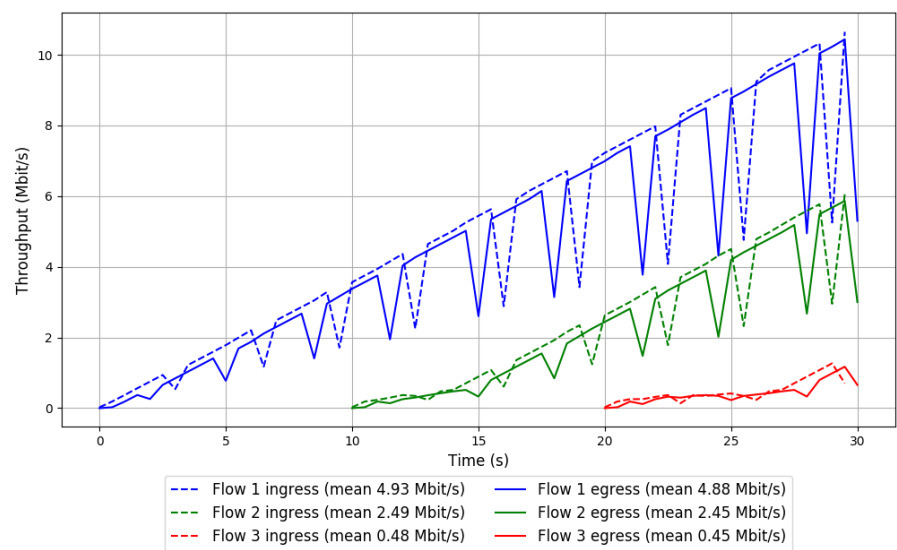
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 135.182 ms

Loss rate: 7.58%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-06 21:36:11

End at: 2018-06-06 21:36:41

Local clock offset: -0.159 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-06-06 23:01:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 136.293 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 136.388 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 136.078 ms

Loss rate: 2.73%

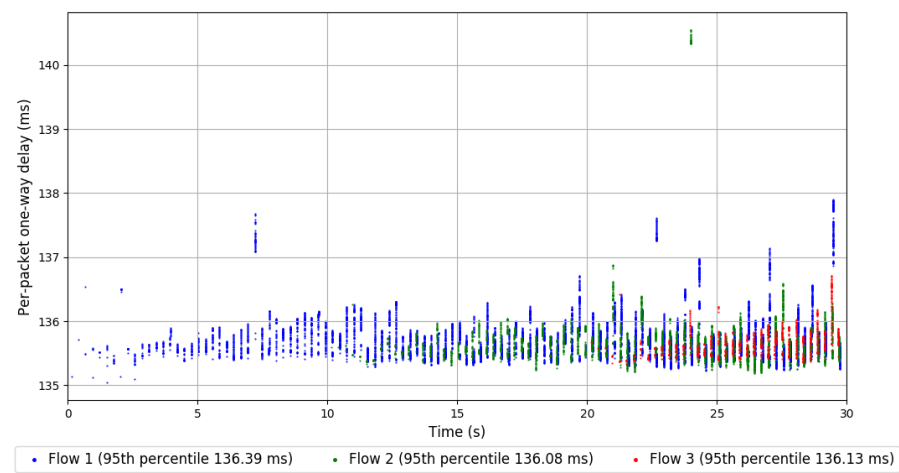
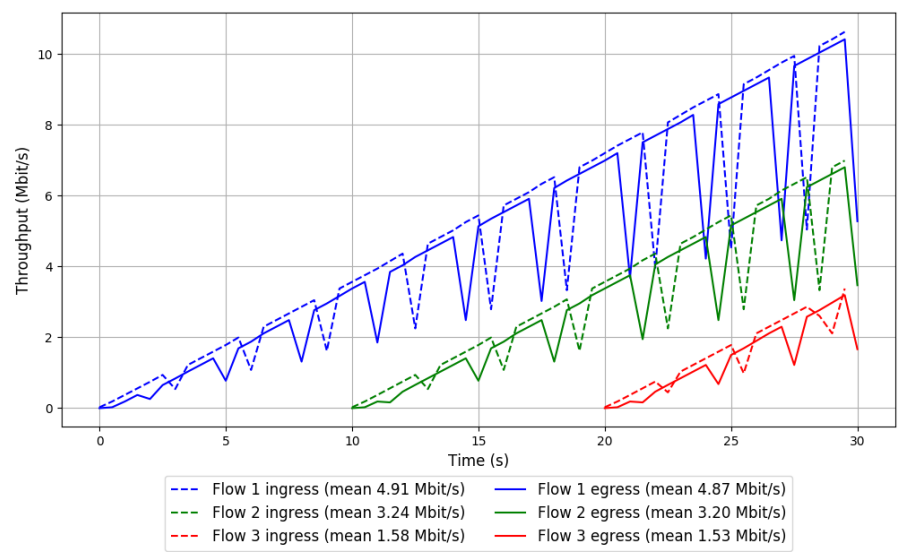
-- Flow 3:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 136.128 ms

Loss rate: 5.54%

Run 10: Report of LEDBAT — Data Link

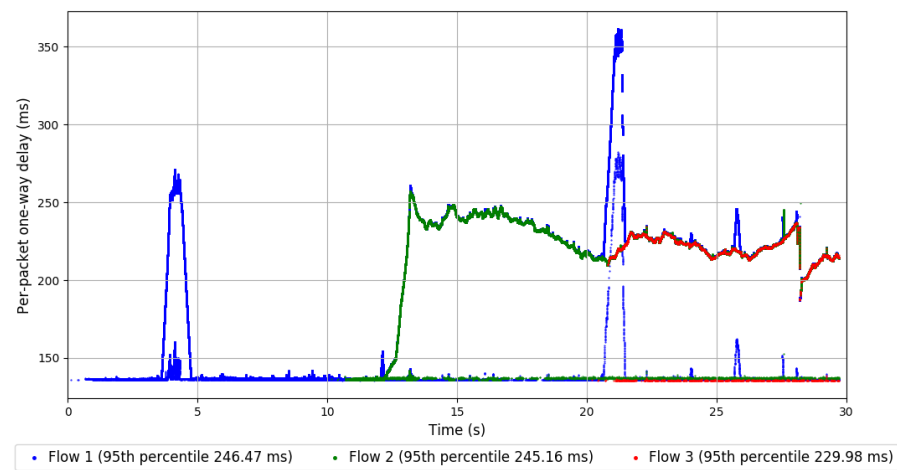
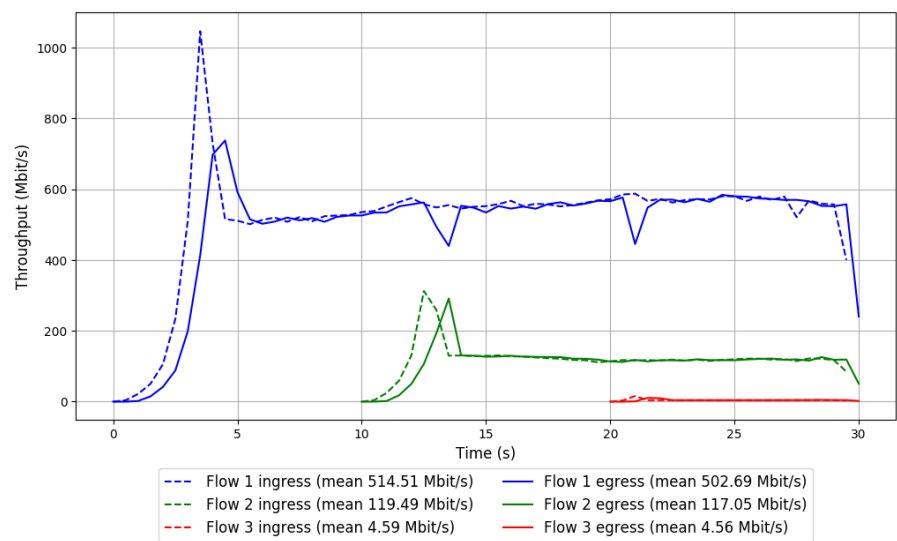


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 17:45:17
End at: 2018-06-06 17:45:47
Local clock offset: 0.569 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 581.57 Mbit/s
95th percentile per-packet one-way delay: 246.271 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 502.69 Mbit/s
95th percentile per-packet one-way delay: 246.468 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 117.05 Mbit/s
95th percentile per-packet one-way delay: 245.158 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 229.983 ms
Loss rate: 3.35%

Run 1: Report of PCC-Allegro — Data Link

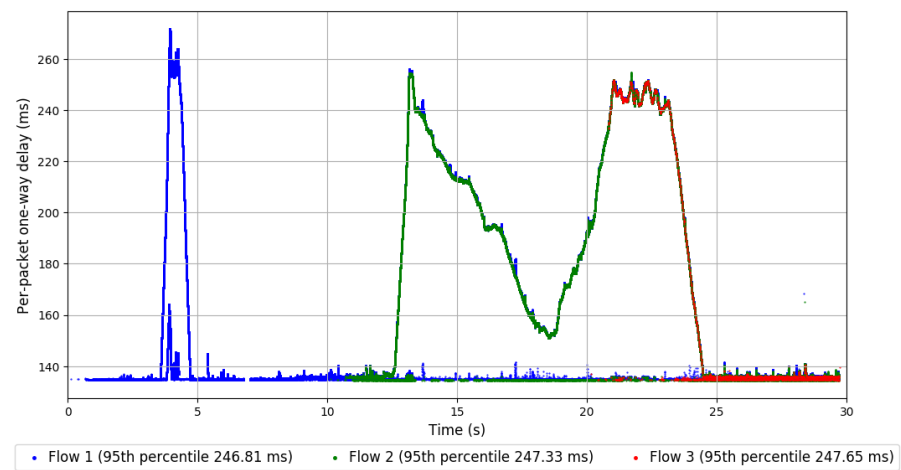
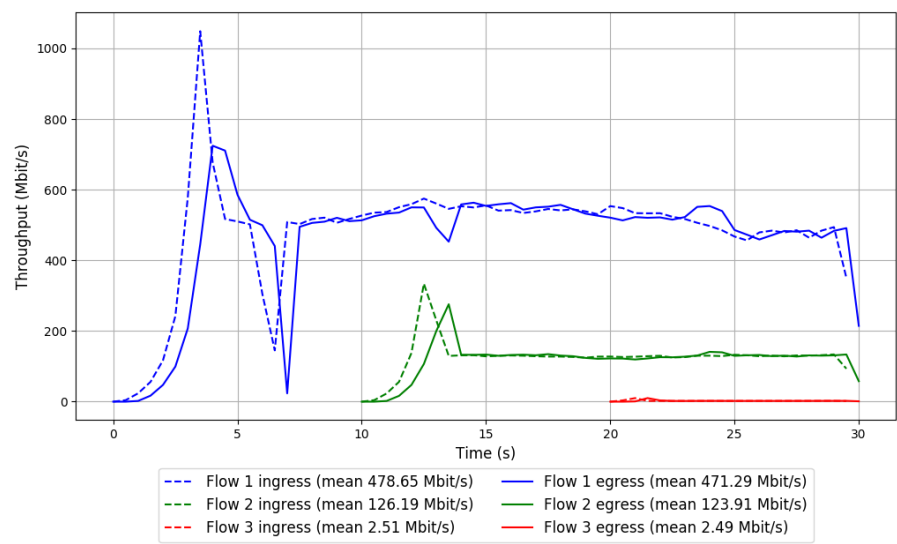


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 18:10:19
End at: 2018-06-06 18:10:49
Local clock offset: -0.111 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 554.04 Mbit/s
95th percentile per-packet one-way delay: 246.940 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 471.29 Mbit/s
95th percentile per-packet one-way delay: 246.808 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 123.91 Mbit/s
95th percentile per-packet one-way delay: 247.327 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 247.648 ms
Loss rate: 3.45%

Run 2: Report of PCC-Allegro — Data Link

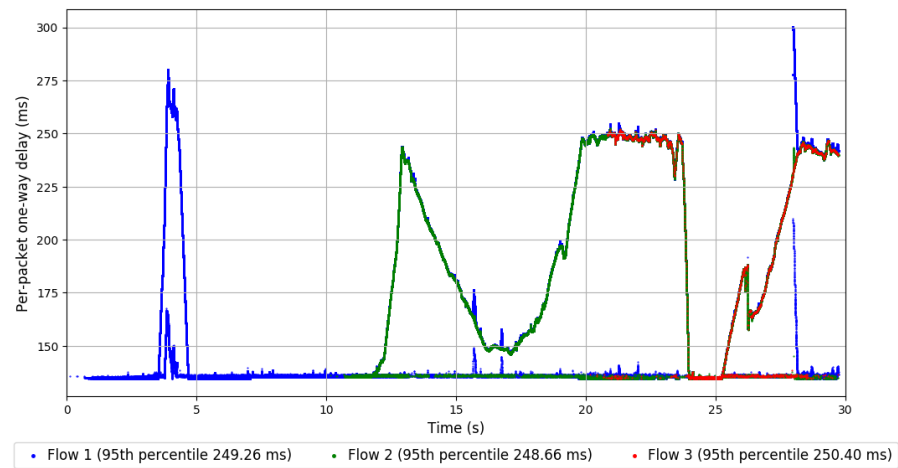
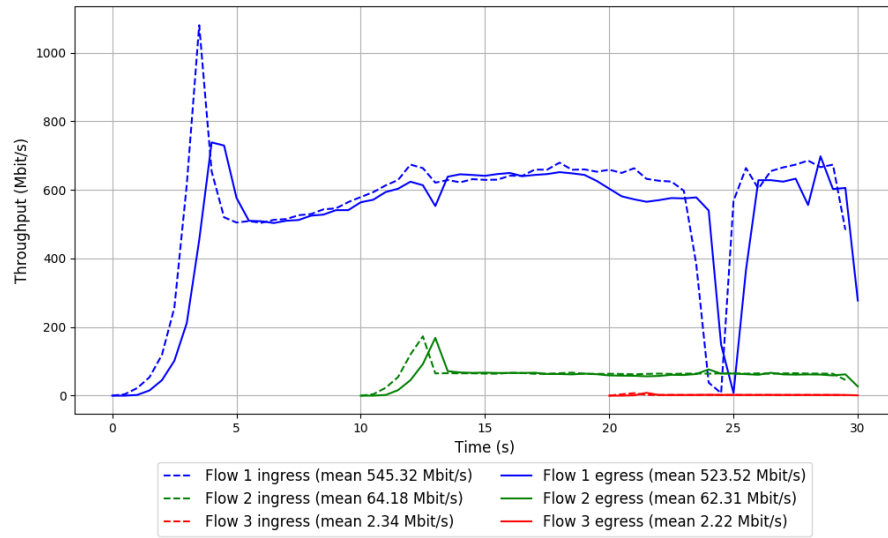


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 18:35:00
End at: 2018-06-06 18:35:30
Local clock offset: -0.188 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 565.46 Mbit/s
95th percentile per-packet one-way delay: 249.199 ms
Loss rate: 4.83%
-- Flow 1:
Average throughput: 523.52 Mbit/s
95th percentile per-packet one-way delay: 249.261 ms
Loss rate: 4.88%
-- Flow 2:
Average throughput: 62.31 Mbit/s
95th percentile per-packet one-way delay: 248.662 ms
Loss rate: 4.25%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 250.402 ms
Loss rate: 7.95%

Run 3: Report of PCC-Allegro — Data Link

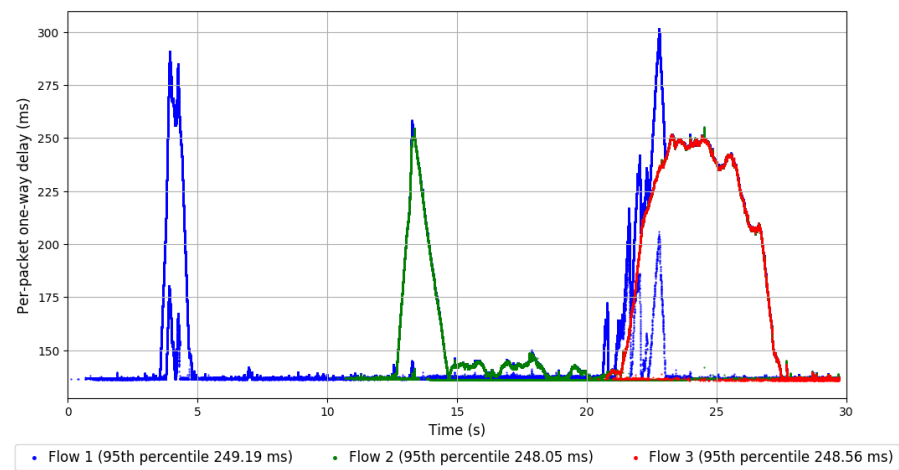
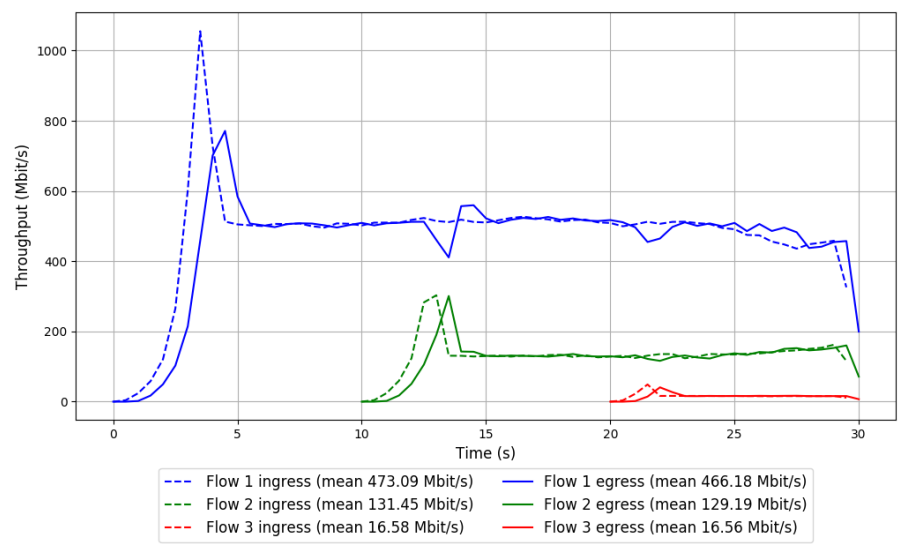


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 19:00:03
End at: 2018-06-06 19:00:33
Local clock offset: -0.039 ms
Remote clock offset: -0.575 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.00 Mbit/s
95th percentile per-packet one-way delay: 248.953 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 466.18 Mbit/s
95th percentile per-packet one-way delay: 249.192 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 129.19 Mbit/s
95th percentile per-packet one-way delay: 248.047 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 248.557 ms
Loss rate: 2.91%

Run 4: Report of PCC-Allegro — Data Link

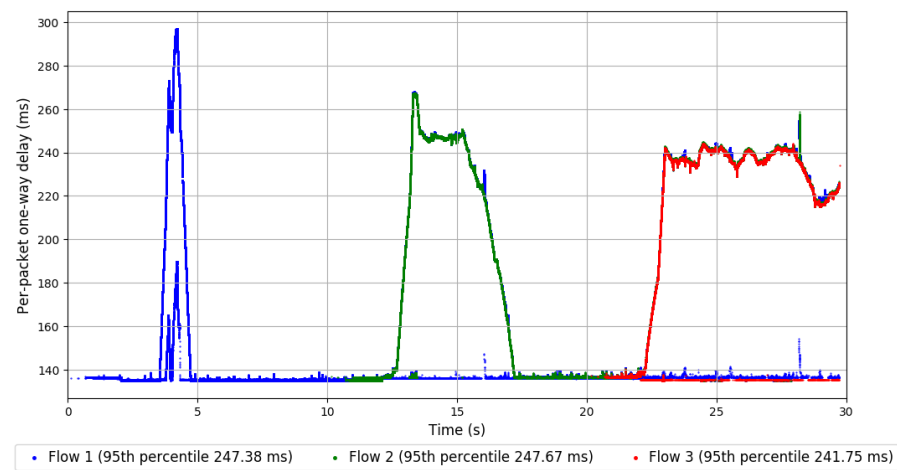
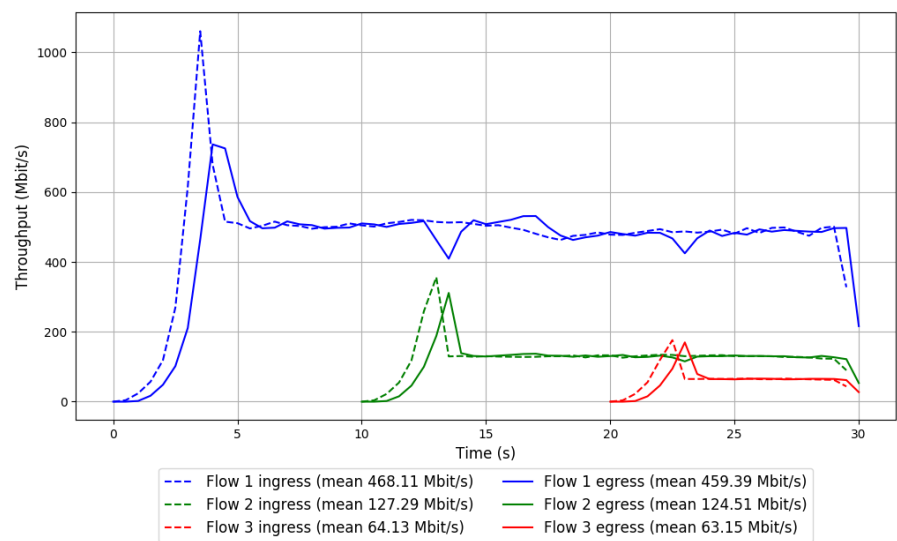


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 19:25:05
End at: 2018-06-06 19:25:35
Local clock offset: -0.485 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-06 23:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 562.05 Mbit/s
95th percentile per-packet one-way delay: 247.368 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 459.39 Mbit/s
95th percentile per-packet one-way delay: 247.377 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 124.51 Mbit/s
95th percentile per-packet one-way delay: 247.672 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 241.745 ms
Loss rate: 4.19%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 19:50:15

End at: 2018-06-06 19:50:45

Local clock offset: -0.712 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-06 23:01:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 578.46 Mbit/s

95th percentile per-packet one-way delay: 240.276 ms

Loss rate: 2.19%

-- Flow 1:

Average throughput: 528.08 Mbit/s

95th percentile per-packet one-way delay: 240.567 ms

Loss rate: 2.20%

-- Flow 2:

Average throughput: 68.17 Mbit/s

95th percentile per-packet one-way delay: 236.578 ms

Loss rate: 1.88%

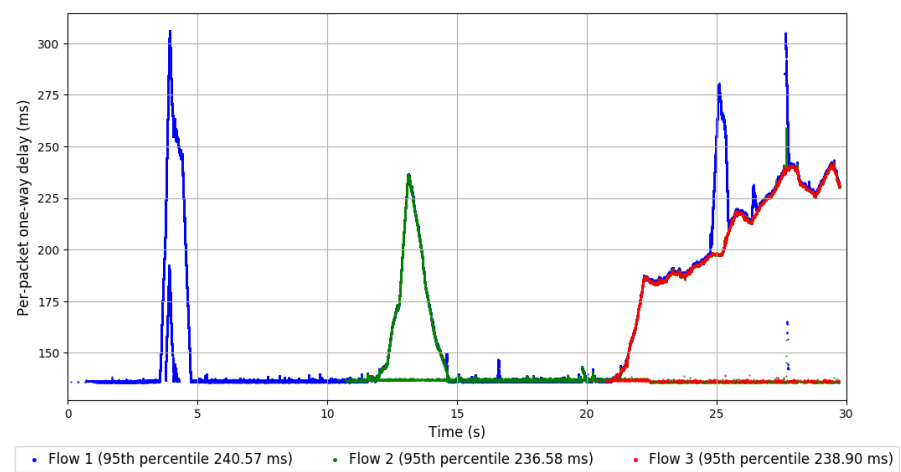
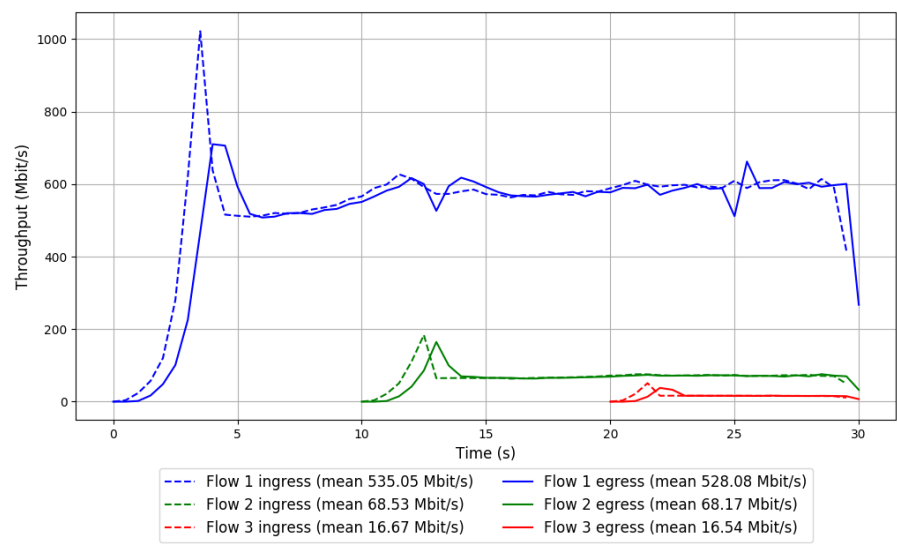
-- Flow 3:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 238.896 ms

Loss rate: 3.49%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 20:15:20

End at: 2018-06-06 20:15:50

Local clock offset: -0.385 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-06-06 23:01:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.37 Mbit/s

95th percentile per-packet one-way delay: 250.930 ms

Loss rate: 4.07%

-- Flow 1:

Average throughput: 341.19 Mbit/s

95th percentile per-packet one-way delay: 251.305 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 250.564 ms

Loss rate: 3.60%

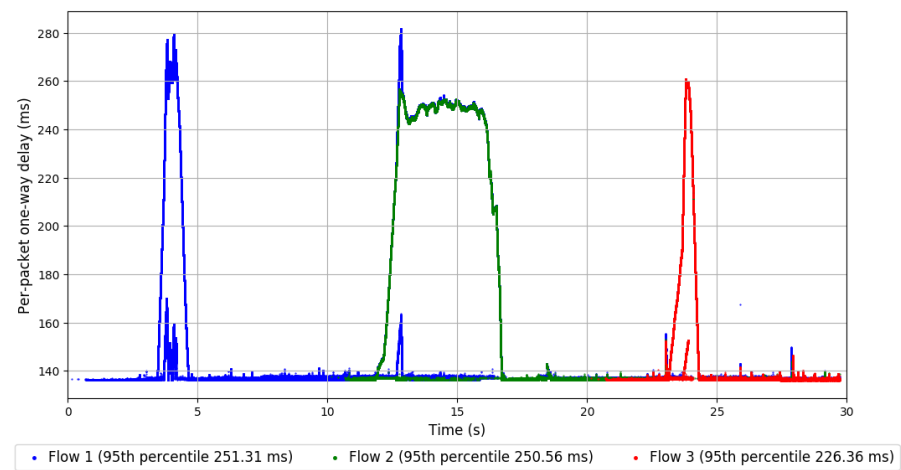
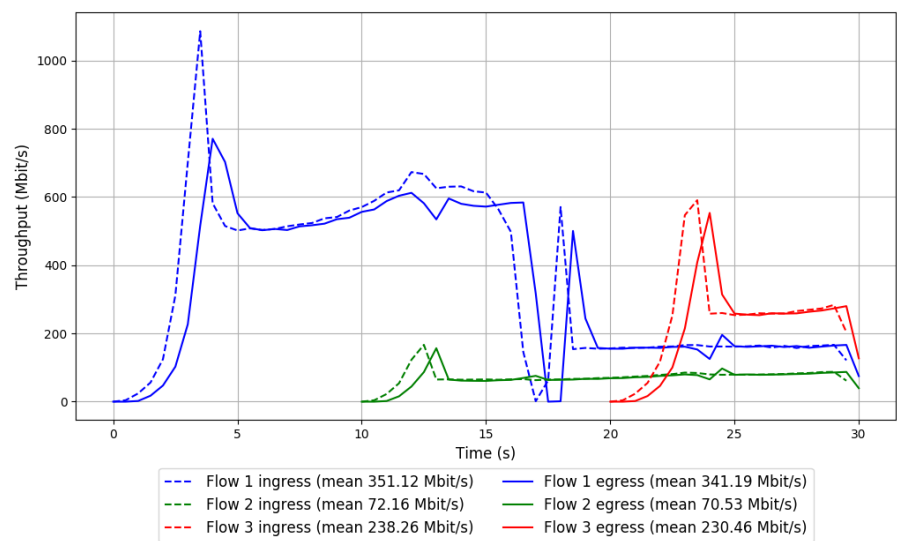
-- Flow 3:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 226.363 ms

Loss rate: 5.94%

Run 7: Report of PCC-Allegro — Data Link

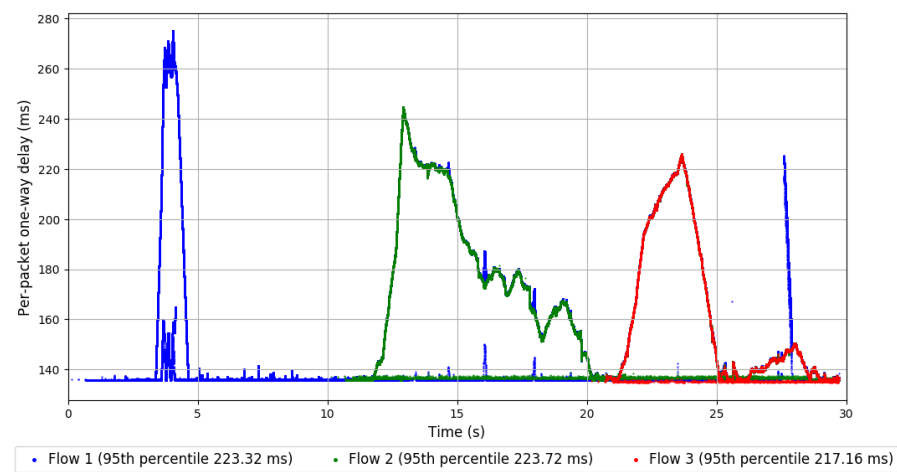
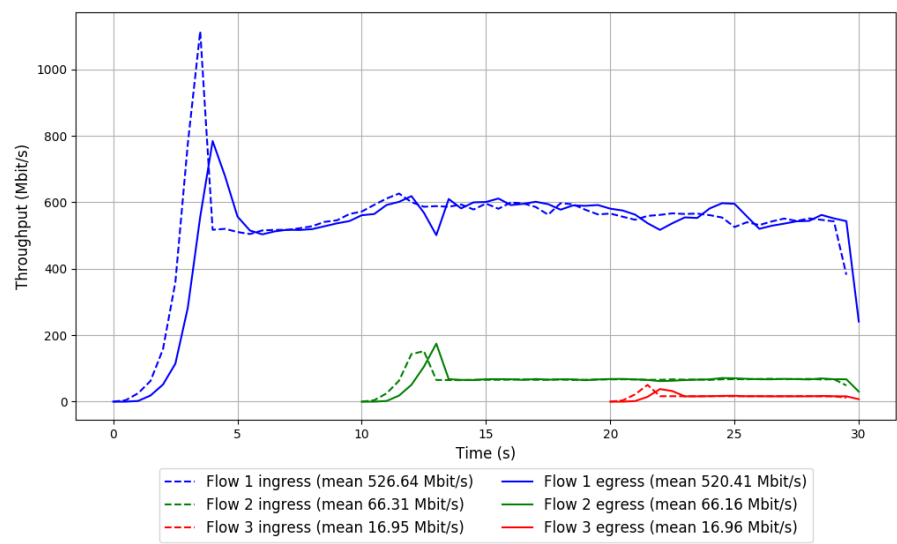


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 20:40:09
End at: 2018-06-06 20:40:39
Local clock offset: 0.486 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-06 23:03:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 569.67 Mbit/s
95th percentile per-packet one-way delay: 223.290 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 520.41 Mbit/s
95th percentile per-packet one-way delay: 223.325 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 223.720 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 217.160 ms
Loss rate: 2.70%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 21:05:16

End at: 2018-06-06 21:05:46

Local clock offset: 0.034 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-06 23:05:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 581.98 Mbit/s

95th percentile per-packet one-way delay: 248.709 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 497.79 Mbit/s

95th percentile per-packet one-way delay: 249.581 ms

Loss rate: 3.77%

-- Flow 2:

Average throughput: 119.43 Mbit/s

95th percentile per-packet one-way delay: 243.668 ms

Loss rate: 4.54%

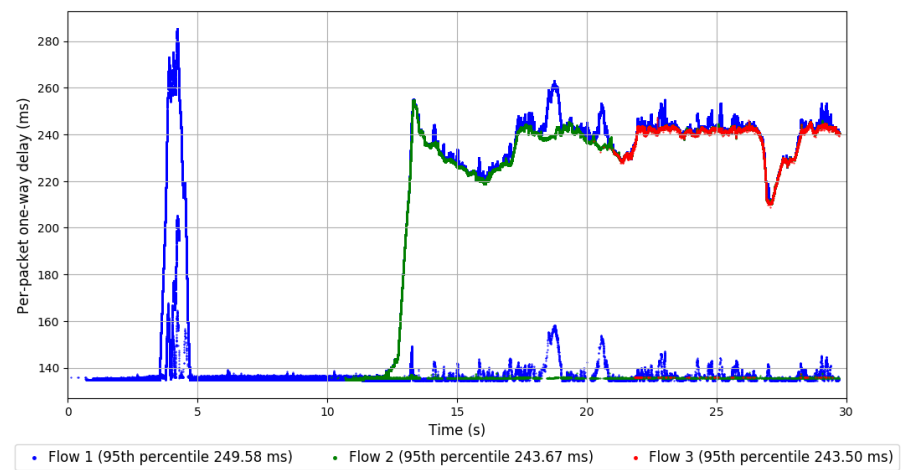
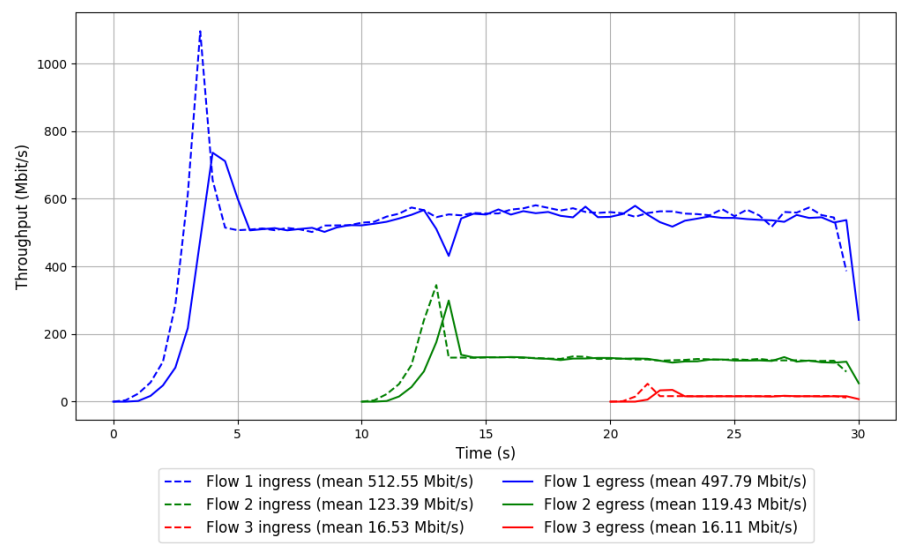
-- Flow 3:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 243.500 ms

Loss rate: 6.29%

Run 9: Report of PCC-Allegro — Data Link

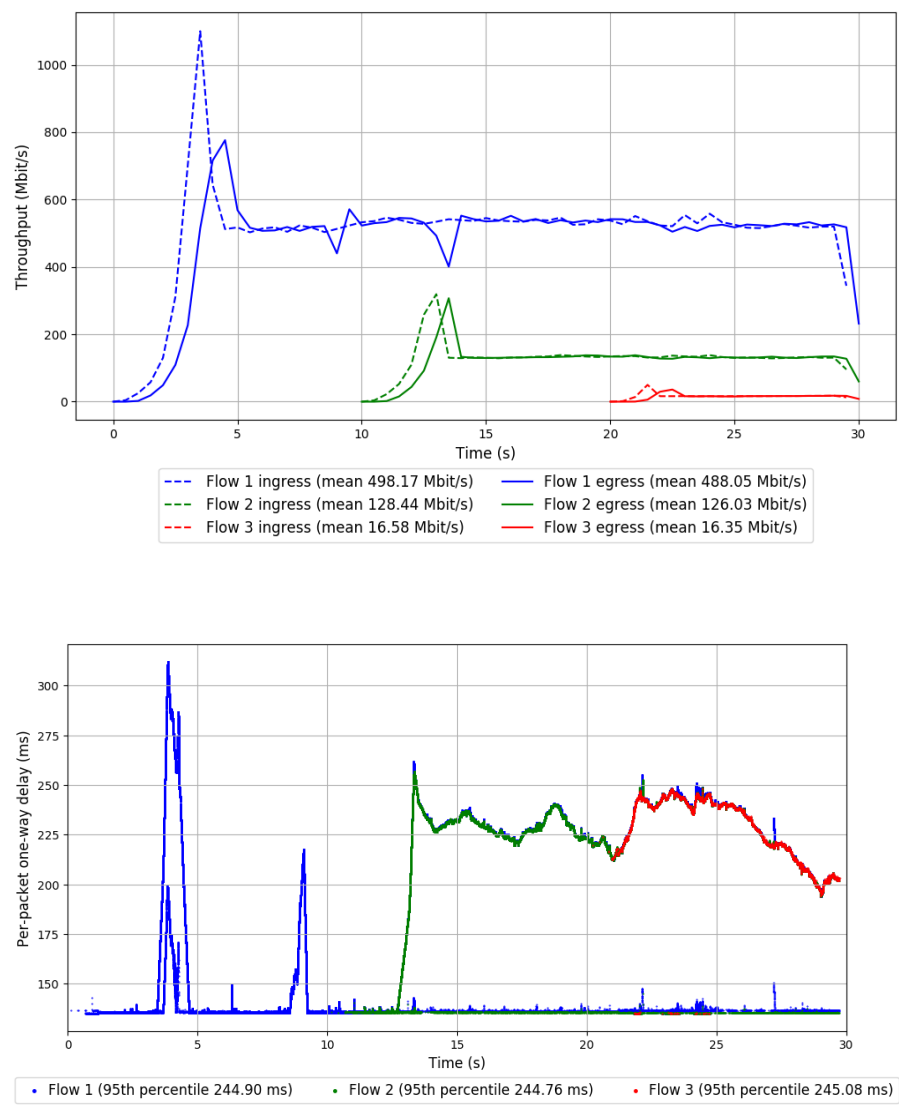


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 21:29:56
End at: 2018-06-06 21:30:26
Local clock offset: -0.086 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-06 23:05:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 576.65 Mbit/s
95th percentile per-packet one-way delay: 244.866 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 488.05 Mbit/s
95th percentile per-packet one-way delay: 244.898 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 126.03 Mbit/s
95th percentile per-packet one-way delay: 244.756 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 245.076 ms
Loss rate: 4.95%

Run 10: Report of PCC-Allegro — Data Link

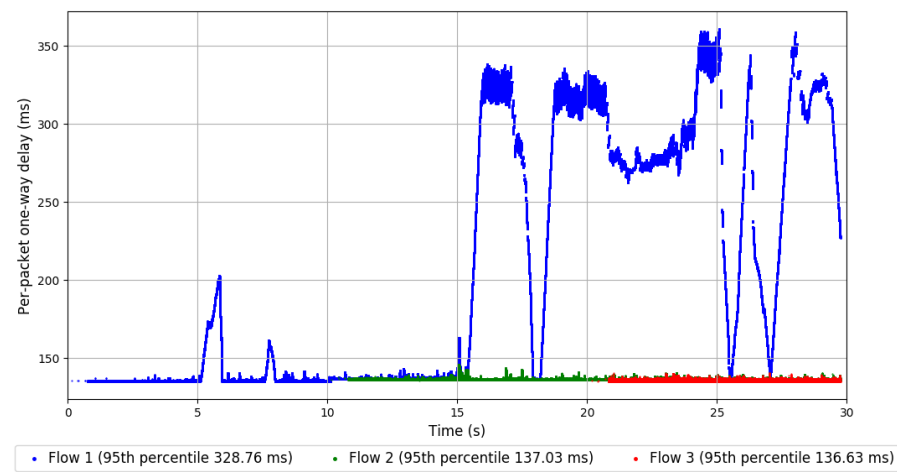
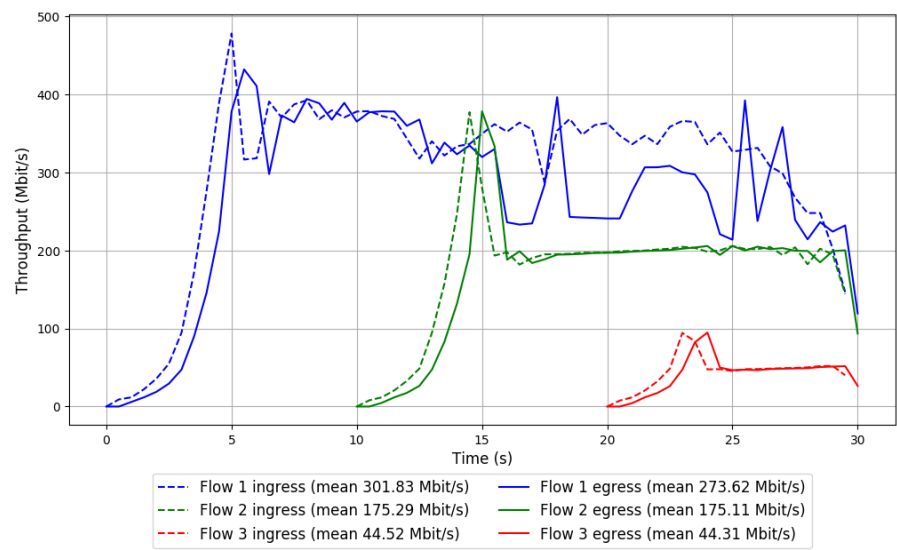


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 17:29:37
End at: 2018-06-06 17:30:07
Local clock offset: 0.411 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2018-06-06 23:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.81 Mbit/s
95th percentile per-packet one-way delay: 324.614 ms
Loss rate: 7.59%
-- Flow 1:
Average throughput: 273.62 Mbit/s
95th percentile per-packet one-way delay: 328.762 ms
Loss rate: 10.16%
-- Flow 2:
Average throughput: 175.11 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 3.20%
```

Run 1: Report of PCC-Expr — Data Link

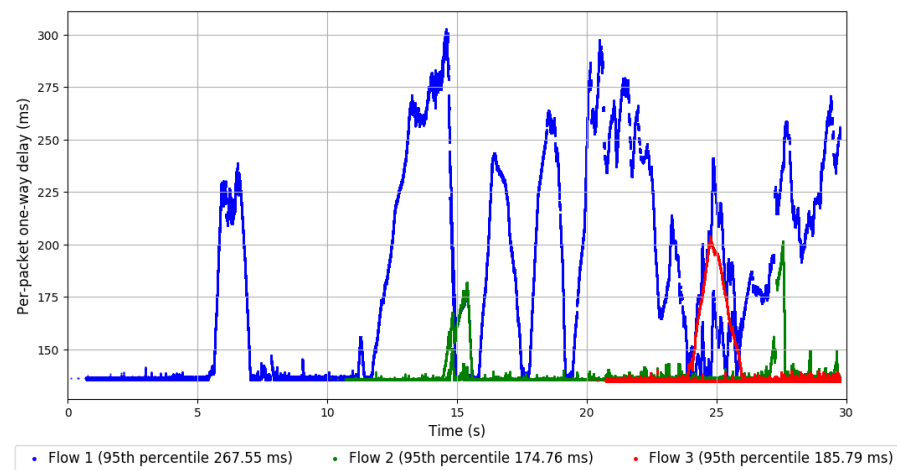
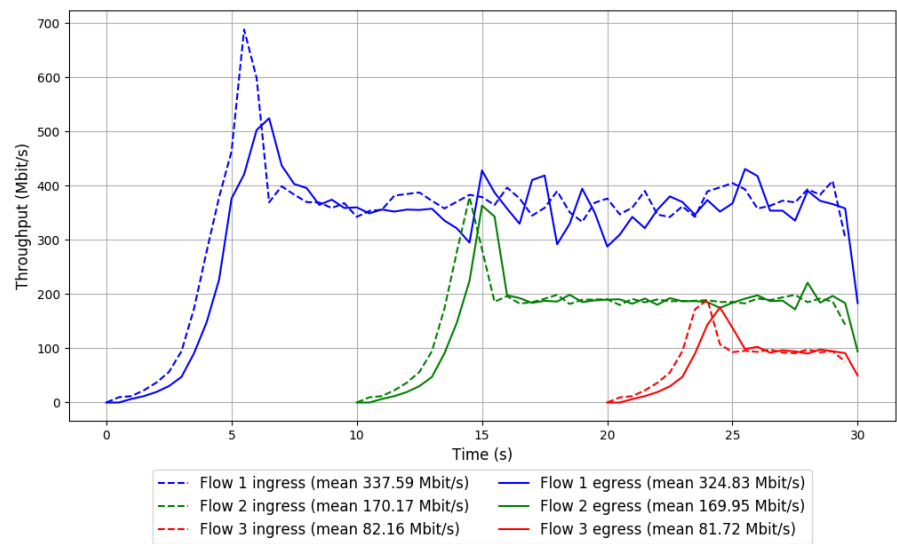


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 17:54:17
End at: 2018-06-06 17:54:47
Local clock offset: 0.704 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-06-06 23:11:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 463.84 Mbit/s
95th percentile per-packet one-way delay: 262.327 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 324.83 Mbit/s
95th percentile per-packet one-way delay: 267.550 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 169.95 Mbit/s
95th percentile per-packet one-way delay: 174.760 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 81.72 Mbit/s
95th percentile per-packet one-way delay: 185.790 ms
Loss rate: 3.27%
```

Run 2: Report of PCC-Expr — Data Link

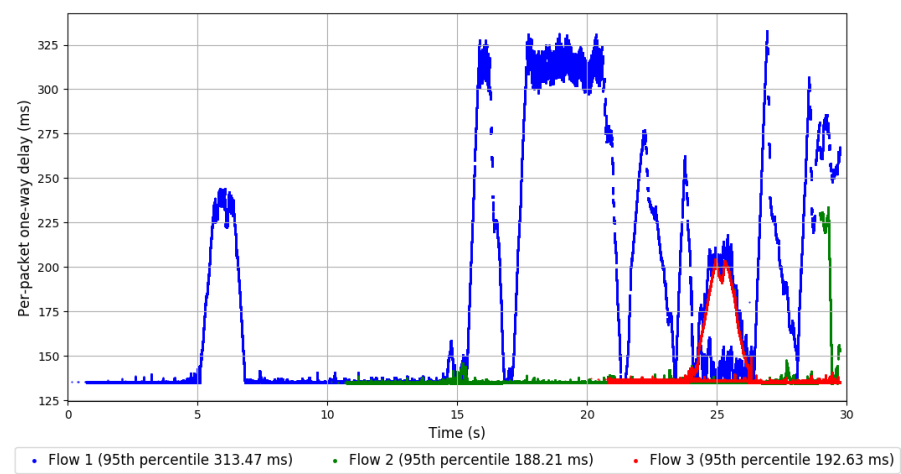
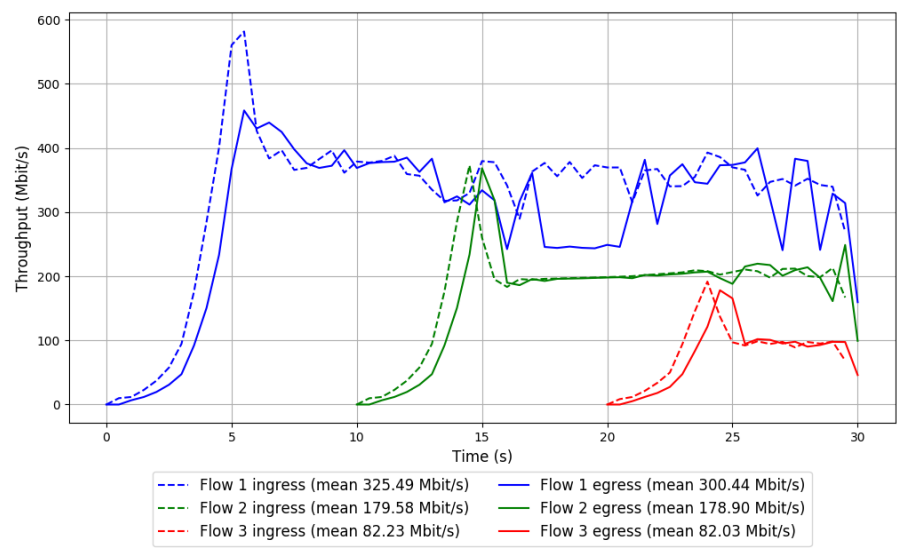


Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 18:19:21
End at: 2018-06-06 18:19:51
Local clock offset: -0.106 ms
Remote clock offset: -0.327 ms

Below is generated by plot.py at 2018-06-06 23:11:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 445.45 Mbit/s
95th percentile per-packet one-way delay: 308.797 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 300.44 Mbit/s
95th percentile per-packet one-way delay: 313.468 ms
Loss rate: 8.54%
-- Flow 2:
Average throughput: 178.90 Mbit/s
95th percentile per-packet one-way delay: 188.211 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 82.03 Mbit/s
95th percentile per-packet one-way delay: 192.635 ms
Loss rate: 3.01%

Run 3: Report of PCC-Expr — Data Link

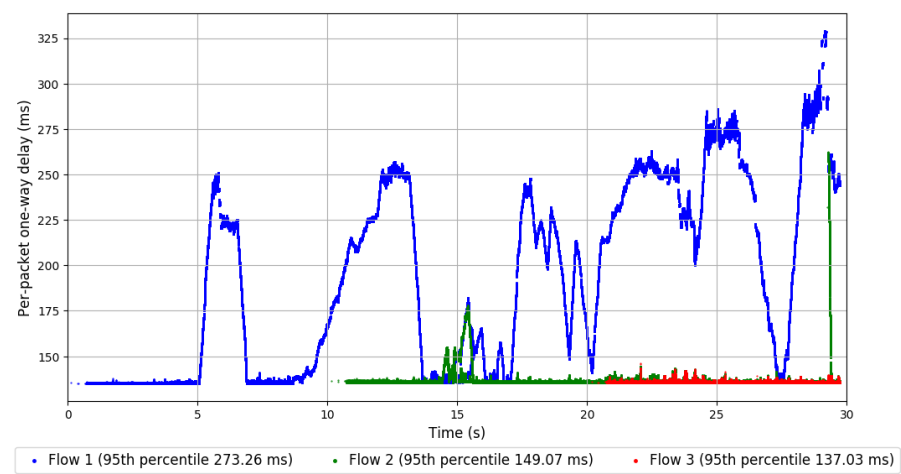
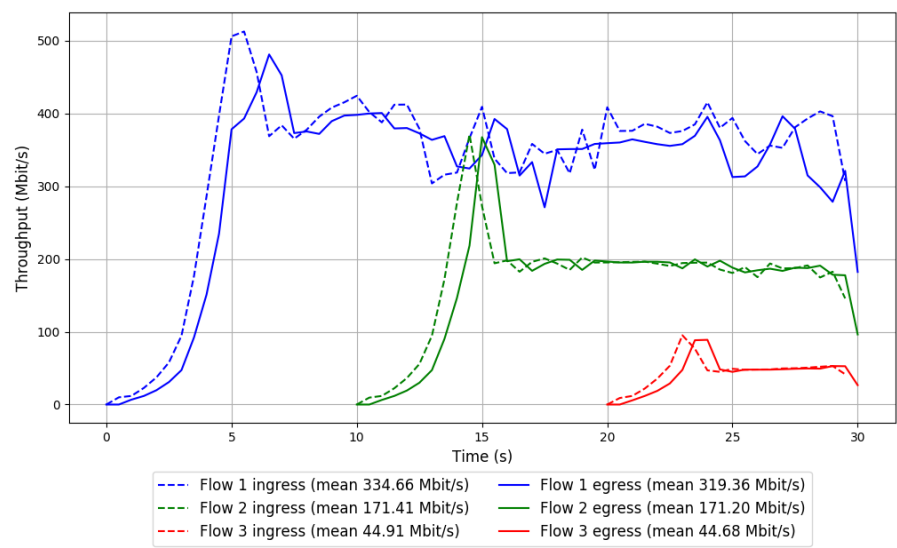


Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 18:43:59
End at: 2018-06-06 18:44:29
Local clock offset: -0.442 ms
Remote clock offset: -0.518 ms

Below is generated by plot.py at 2018-06-06 23:17:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.13 Mbit/s
95th percentile per-packet one-way delay: 267.611 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 319.36 Mbit/s
95th percentile per-packet one-way delay: 273.257 ms
Loss rate: 5.45%
-- Flow 2:
Average throughput: 171.20 Mbit/s
95th percentile per-packet one-way delay: 149.073 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 137.029 ms
Loss rate: 3.33%

Run 4: Report of PCC-Expr — Data Link

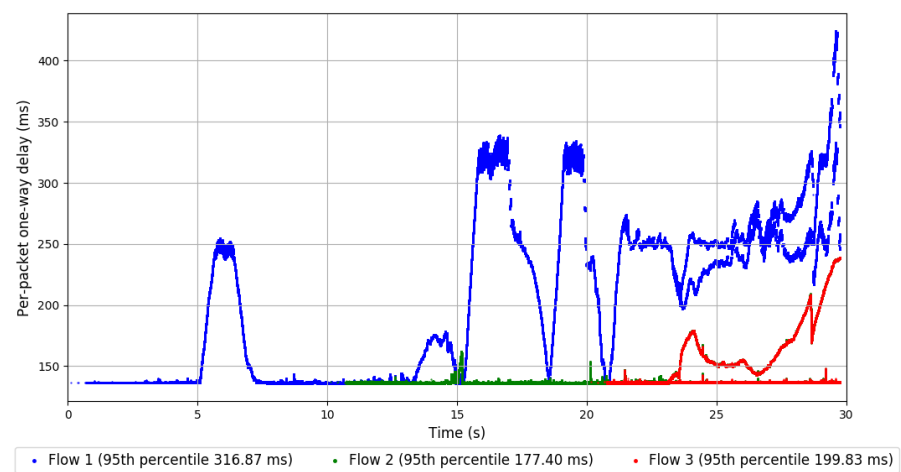
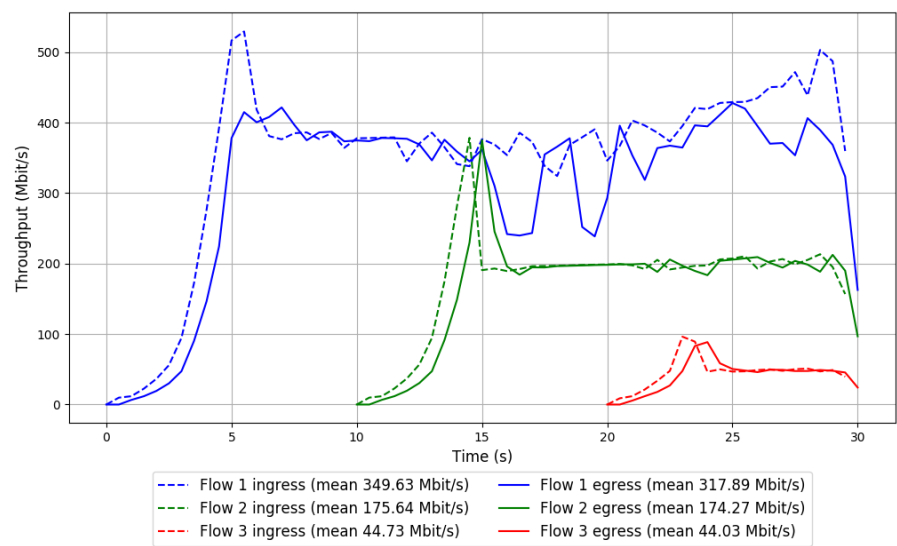


Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 19:09:10
End at: 2018-06-06 19:09:40
Local clock offset: -0.207 ms
Remote clock offset: -0.559 ms

Below is generated by plot.py at 2018-06-06 23:18:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.57 Mbit/s
95th percentile per-packet one-way delay: 308.361 ms
Loss rate: 7.85%
-- Flow 1:
Average throughput: 317.89 Mbit/s
95th percentile per-packet one-way delay: 316.871 ms
Loss rate: 9.91%
-- Flow 2:
Average throughput: 174.27 Mbit/s
95th percentile per-packet one-way delay: 177.395 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 199.826 ms
Loss rate: 4.29%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 19:34:06

End at: 2018-06-06 19:34:36

Local clock offset: -0.802 ms

Remote clock offset: 0.411 ms

Below is generated by plot.py at 2018-06-06 23:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.31 Mbit/s

95th percentile per-packet one-way delay: 285.470 ms

Loss rate: 4.20%

-- Flow 1:

Average throughput: 280.90 Mbit/s

95th percentile per-packet one-way delay: 294.265 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 175.50 Mbit/s

95th percentile per-packet one-way delay: 183.346 ms

Loss rate: 1.58%

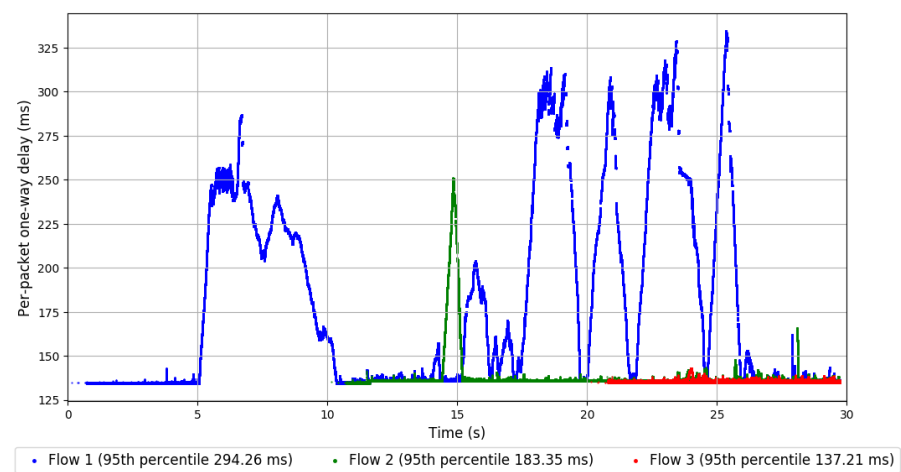
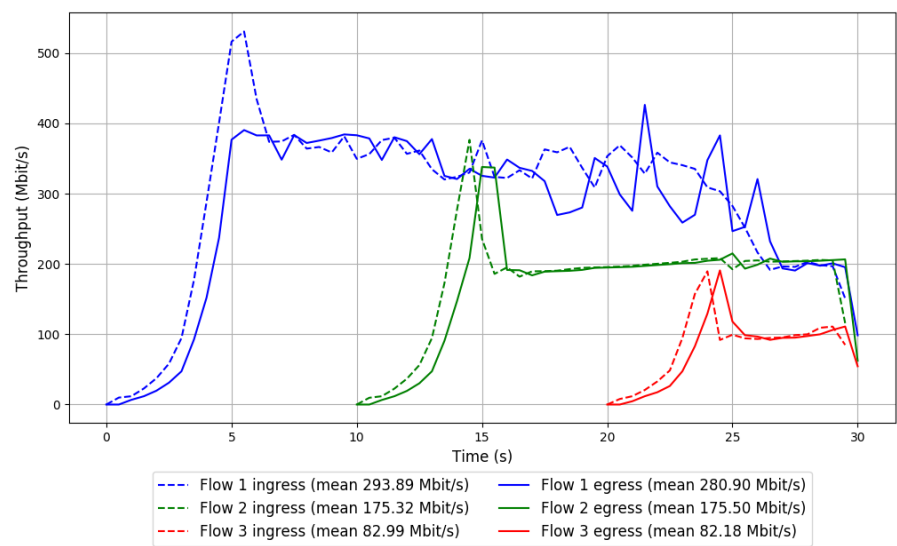
-- Flow 3:

Average throughput: 82.18 Mbit/s

95th percentile per-packet one-way delay: 137.209 ms

Loss rate: 3.70%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 19:59:20

End at: 2018-06-06 19:59:50

Local clock offset: -0.917 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-06-06 23:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 415.24 Mbit/s

95th percentile per-packet one-way delay: 219.743 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 274.18 Mbit/s

95th percentile per-packet one-way delay: 240.037 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 137.666 ms

Loss rate: 1.51%

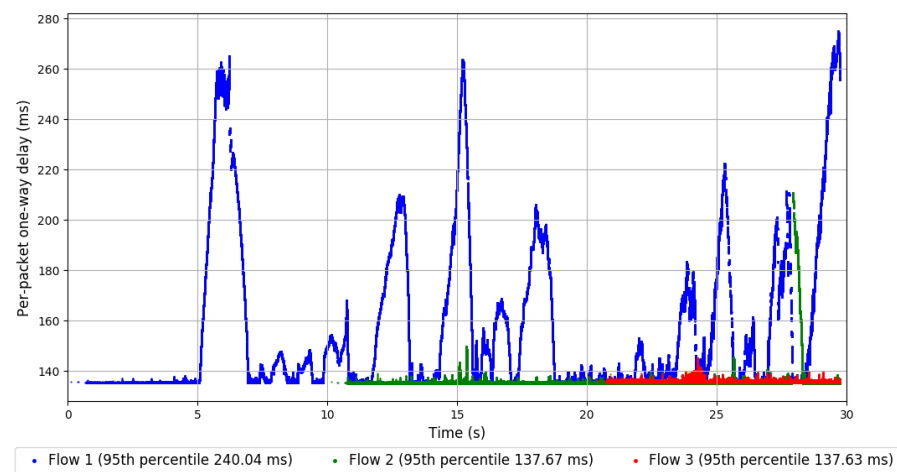
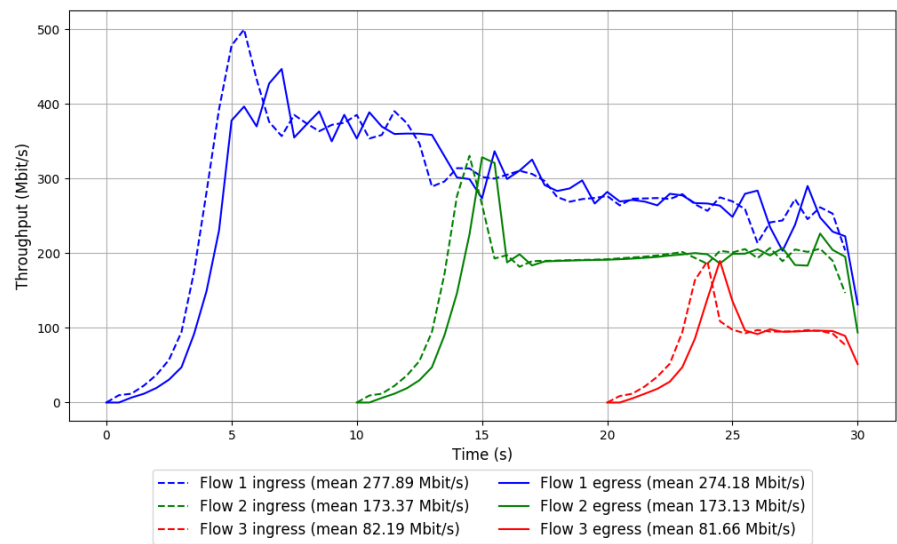
-- Flow 3:

Average throughput: 81.66 Mbit/s

95th percentile per-packet one-way delay: 137.633 ms

Loss rate: 3.40%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 20:24:18

End at: 2018-06-06 20:24:48

Local clock offset: 0.101 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at 2018-06-06 23:22:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.40 Mbit/s

95th percentile per-packet one-way delay: 226.072 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 311.41 Mbit/s

95th percentile per-packet one-way delay: 247.499 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 139.217 ms

Loss rate: 1.55%

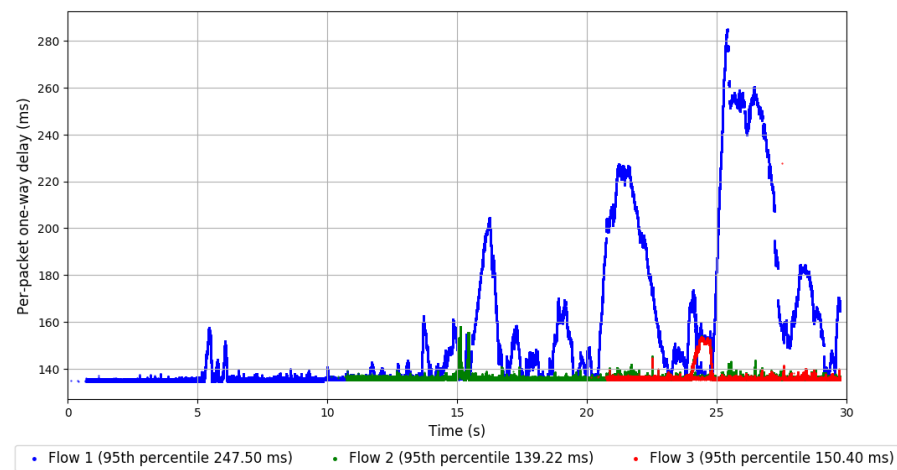
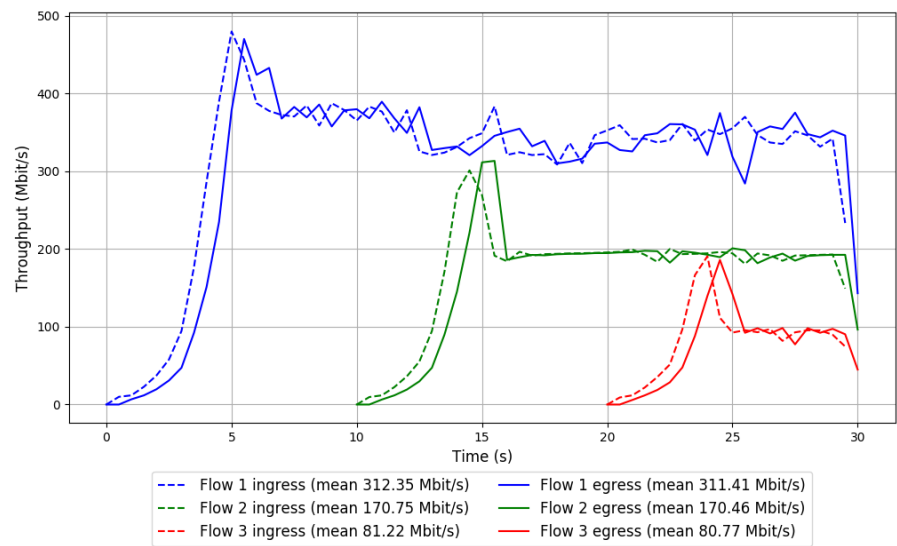
-- Flow 3:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 150.398 ms

Loss rate: 3.37%

Run 8: Report of PCC-Expr — Data Link

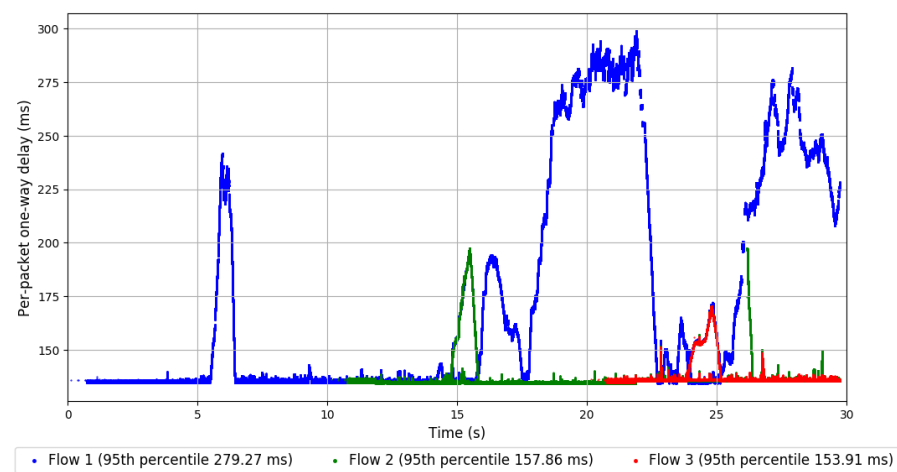
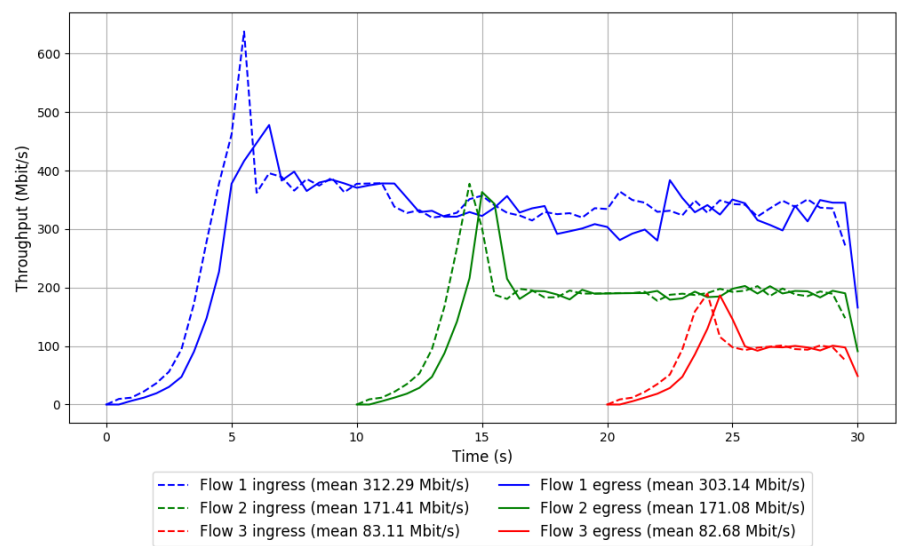


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 20:49:16
End at: 2018-06-06 20:49:46
Local clock offset: 0.431 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-06 23:26:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 443.17 Mbit/s
95th percentile per-packet one-way delay: 275.025 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 303.14 Mbit/s
95th percentile per-packet one-way delay: 279.271 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 171.08 Mbit/s
95th percentile per-packet one-way delay: 157.864 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 82.68 Mbit/s
95th percentile per-packet one-way delay: 153.912 ms
Loss rate: 3.27%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 21:14:21

End at: 2018-06-06 21:14:51

Local clock offset: 0.138 ms

Remote clock offset: 0.343 ms

Below is generated by plot.py at 2018-06-06 23:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.23 Mbit/s

95th percentile per-packet one-way delay: 360.159 ms

Loss rate: 5.21%

-- Flow 1:

Average throughput: 283.91 Mbit/s

95th percentile per-packet one-way delay: 375.687 ms

Loss rate: 5.98%

-- Flow 2:

Average throughput: 165.02 Mbit/s

95th percentile per-packet one-way delay: 250.264 ms

Loss rate: 3.17%

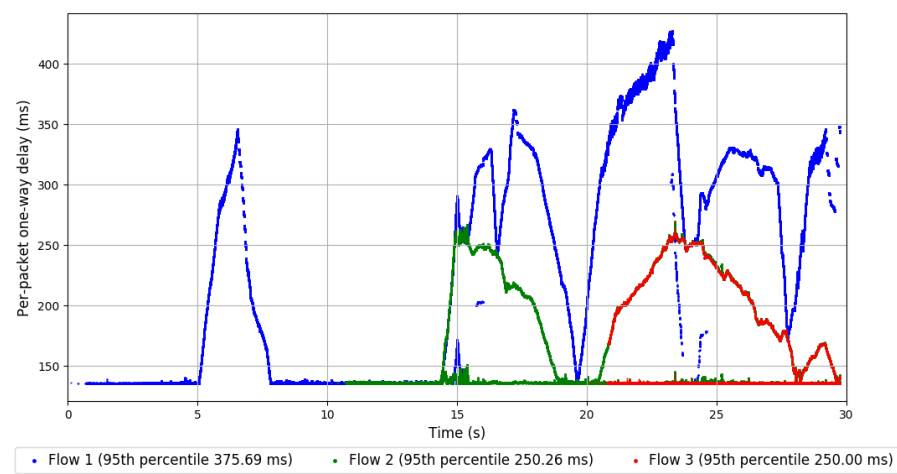
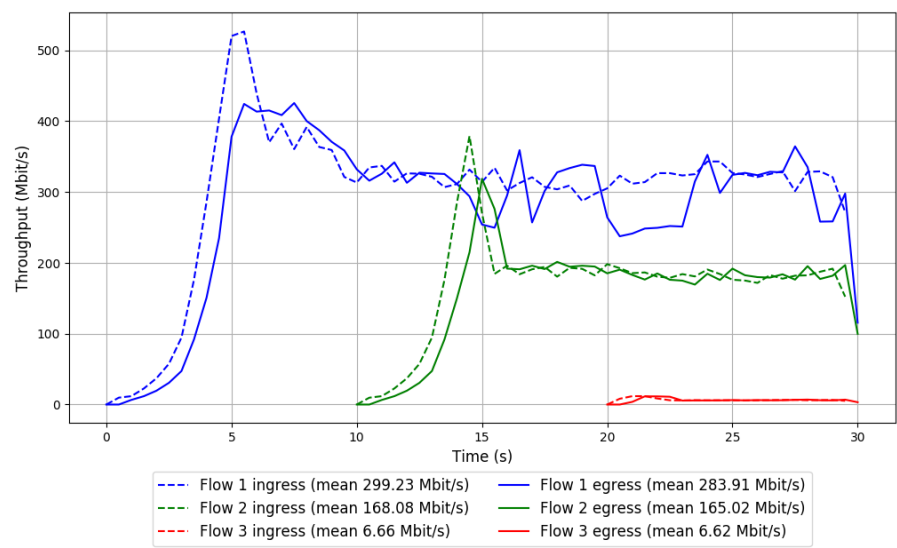
-- Flow 3:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 249.995 ms

Loss rate: 3.34%

Run 10: Report of PCC-Expr — Data Link

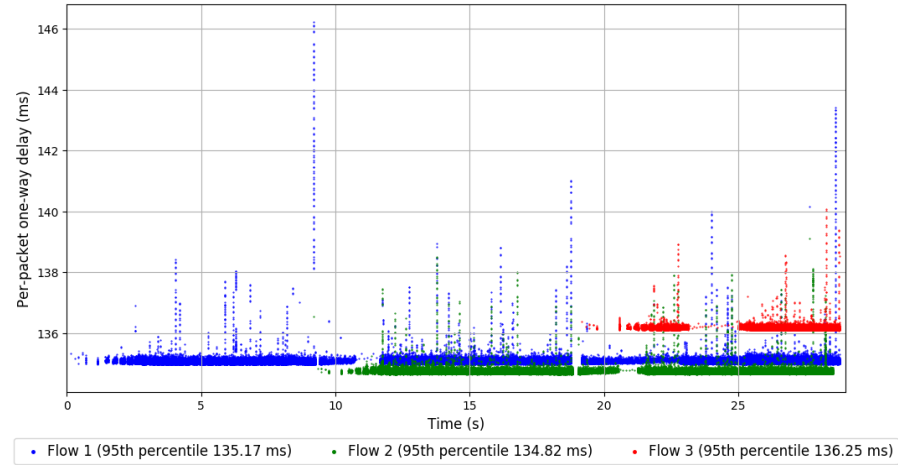
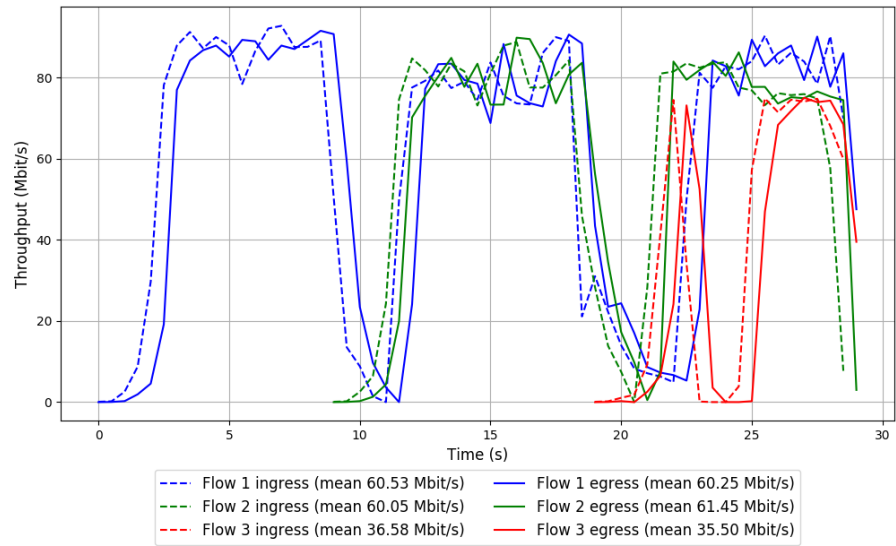


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 17:50:08
End at: 2018-06-06 17:50:38
Local clock offset: 0.575 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-06-06 23:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.65 Mbit/s
95th percentile per-packet one-way delay: 136.168 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 135.167 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 134.820 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 136.254 ms
Loss rate: 5.60%

Run 1: Report of QUIC Cubic — Data Link

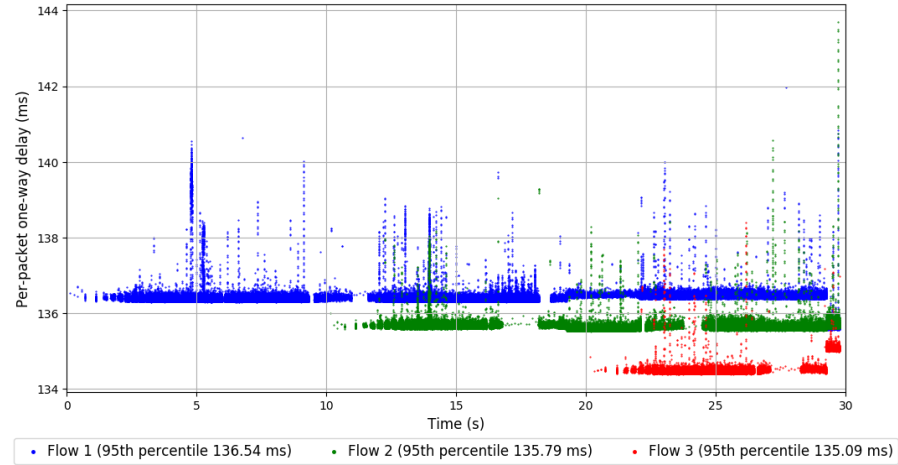
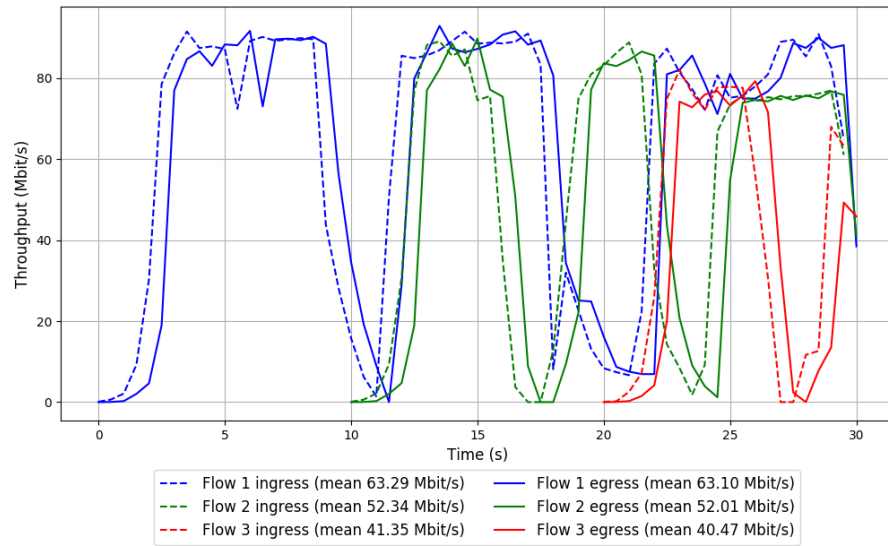


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 18:15:08
End at: 2018-06-06 18:15:38
Local clock offset: -0.241 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-06-06 23:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 110.66 Mbit/s
95th percentile per-packet one-way delay: 136.509 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 135.786 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 40.47 Mbit/s
95th percentile per-packet one-way delay: 135.085 ms
Loss rate: 4.80%

Run 2: Report of QUIC Cubic — Data Link

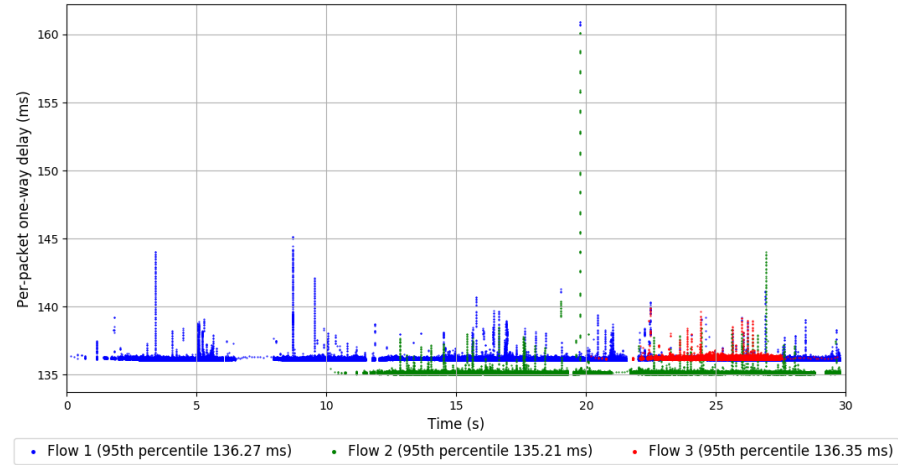
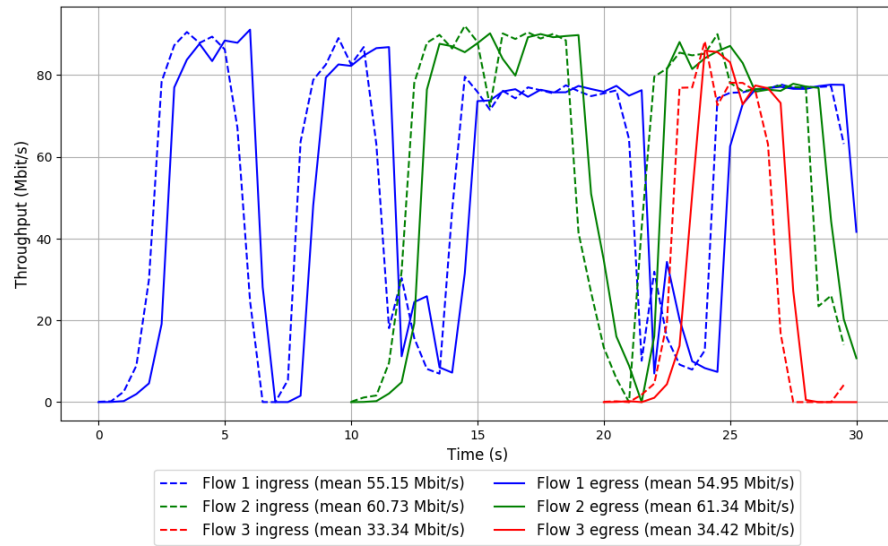


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 18:39:45
End at: 2018-06-06 18:40:15
Local clock offset: -0.396 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-06-06 23:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.59 Mbit/s
95th percentile per-packet one-way delay: 136.266 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 135.210 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 0.64%

Run 3: Report of QUIC Cubic — Data Link

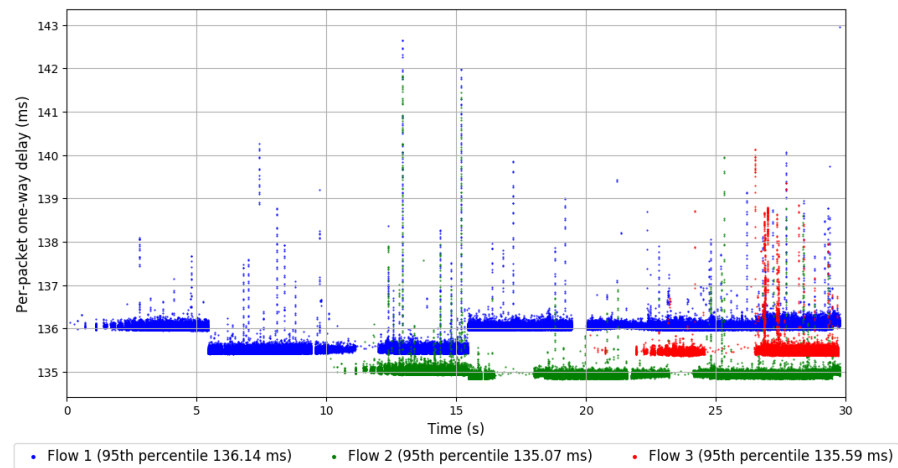
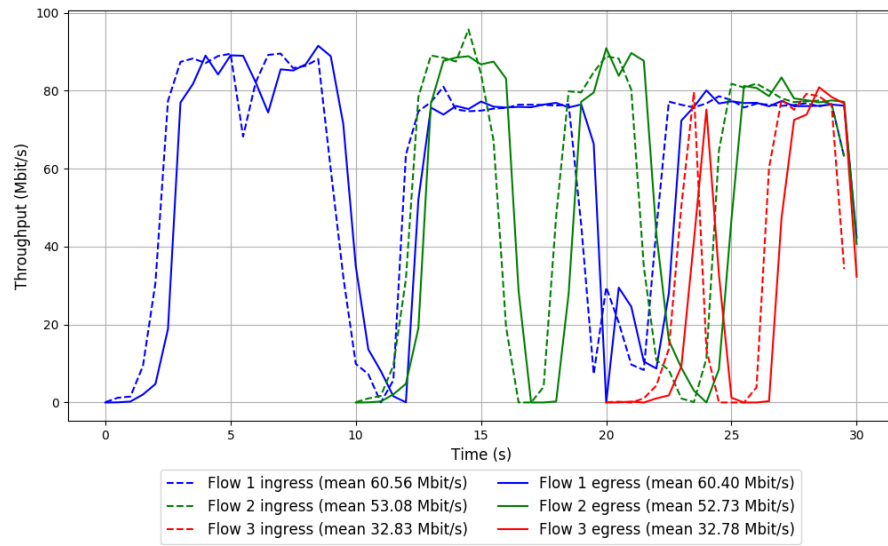


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 19:04:52
End at: 2018-06-06 19:05:22
Local clock offset: -0.559 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-06-06 23:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.88 Mbit/s
95th percentile per-packet one-way delay: 136.114 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: 136.141 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 135.066 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 135.591 ms
Loss rate: 3.51%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 19:29:50

End at: 2018-06-06 19:30:20

Local clock offset: -0.665 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-06 23:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 98.92 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 55.07 Mbit/s

95th percentile per-packet one-way delay: 136.393 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 49.56 Mbit/s

95th percentile per-packet one-way delay: 135.040 ms

Loss rate: 2.07%

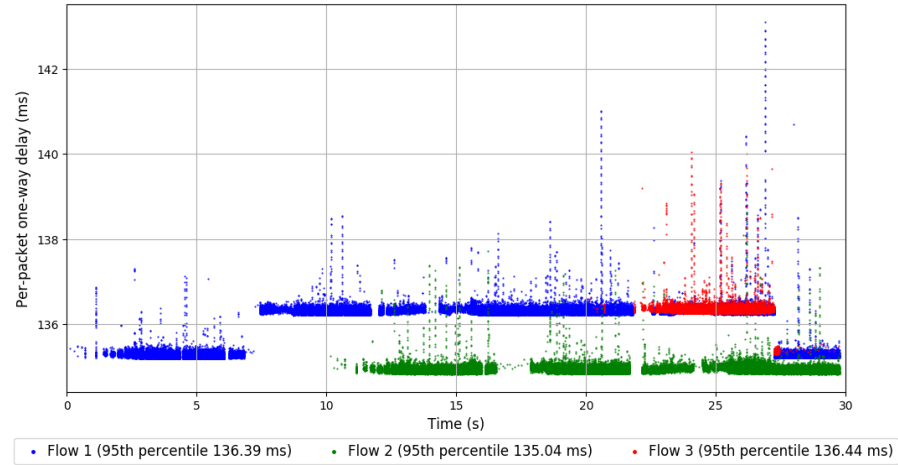
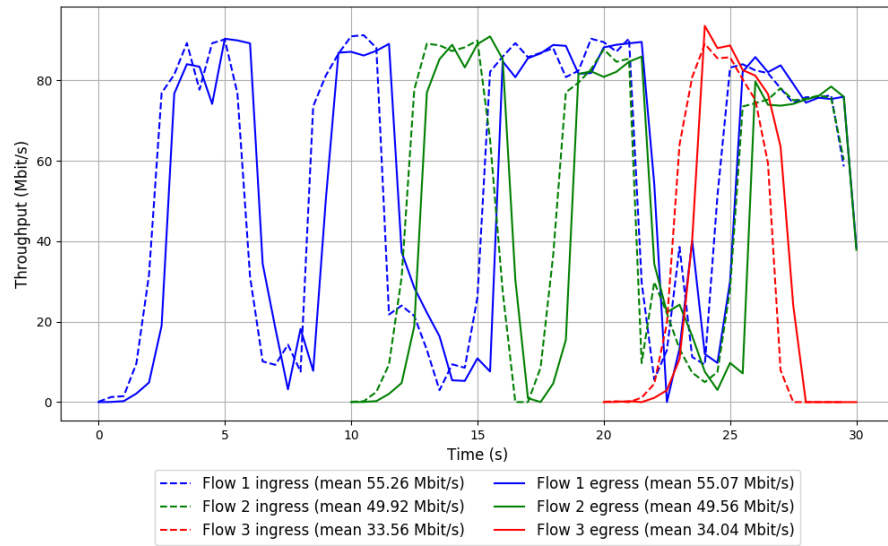
-- Flow 3:

Average throughput: 34.04 Mbit/s

95th percentile per-packet one-way delay: 136.436 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 19:55:05

End at: 2018-06-06 19:55:35

Local clock offset: -1.108 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 136.373 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 136.003 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 49.59 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 2.10%

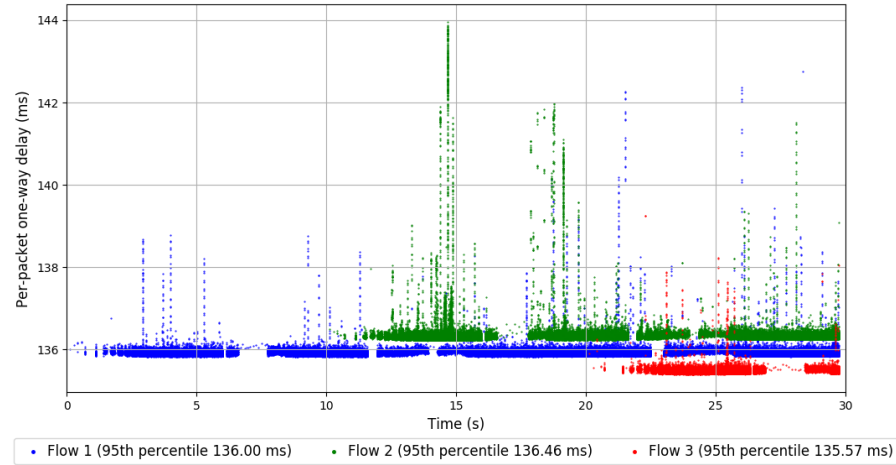
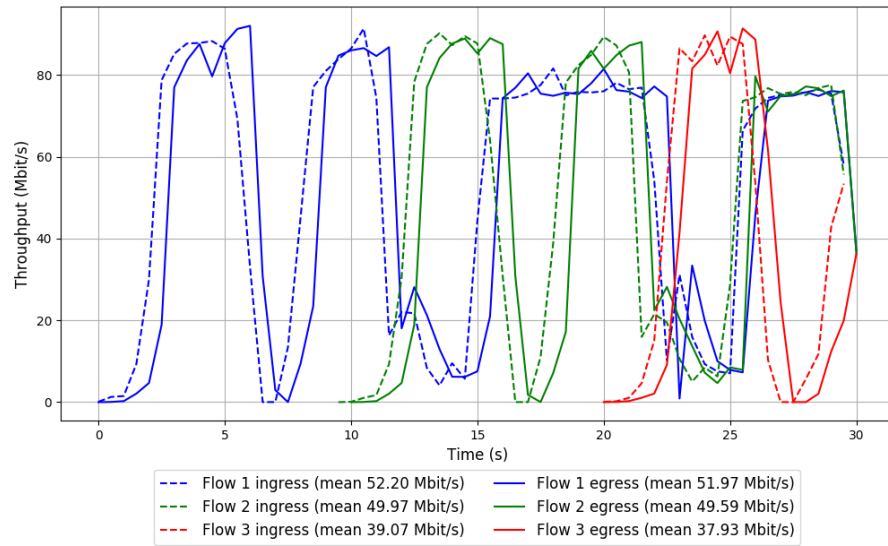
-- Flow 3:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 135.568 ms

Loss rate: 5.56%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 20:20:08

End at: 2018-06-06 20:20:38

Local clock offset: -0.519 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.91 Mbit/s

95th percentile per-packet one-way delay: 135.438 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 135.447 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 47.98 Mbit/s

95th percentile per-packet one-way delay: 135.264 ms

Loss rate: 2.13%

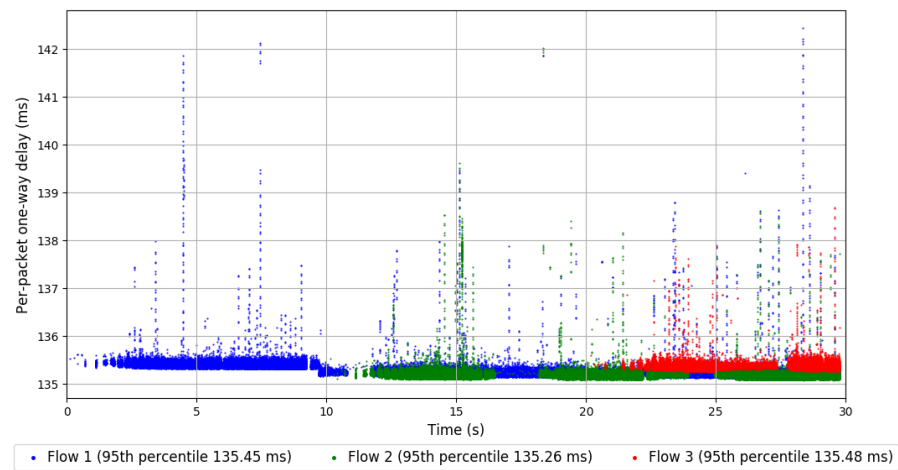
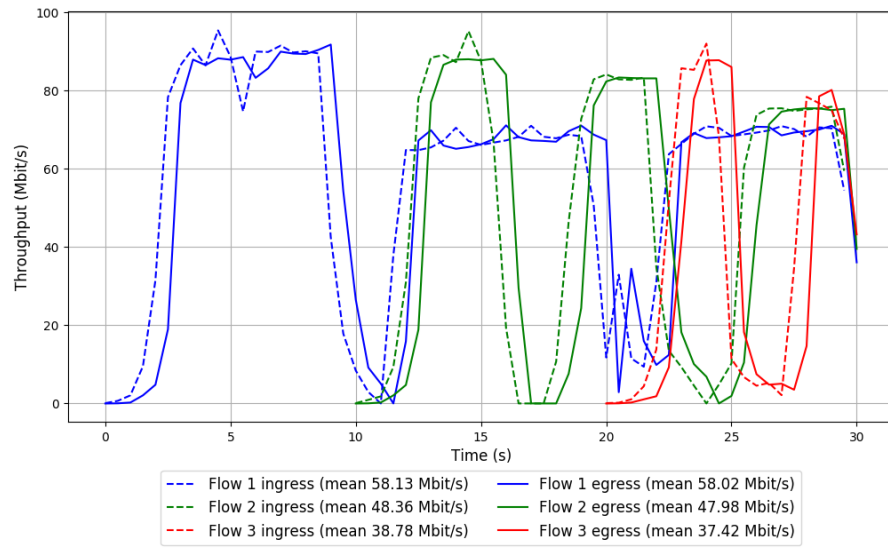
-- Flow 3:

Average throughput: 37.42 Mbit/s

95th percentile per-packet one-way delay: 135.477 ms

Loss rate: 6.15%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 20:45:02

End at: 2018-06-06 20:45:32

Local clock offset: 0.635 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.41 Mbit/s

95th percentile per-packet one-way delay: 136.184 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 135.649 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 57.95 Mbit/s

95th percentile per-packet one-way delay: 136.237 ms

Loss rate: 1.79%

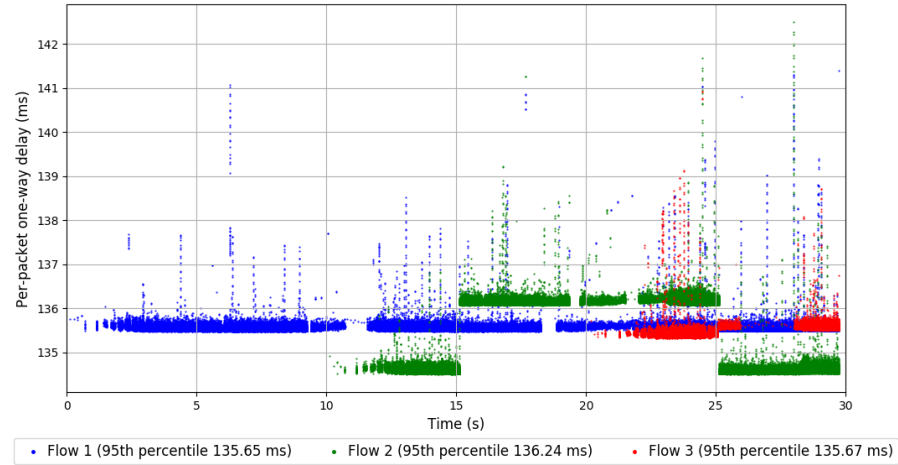
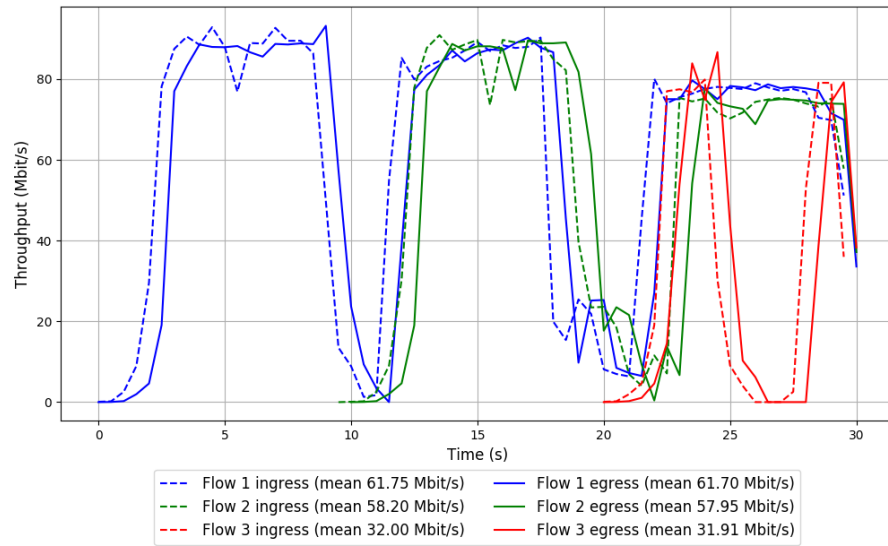
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 135.673 ms

Loss rate: 3.03%

Run 8: Report of QUIC Cubic — Data Link

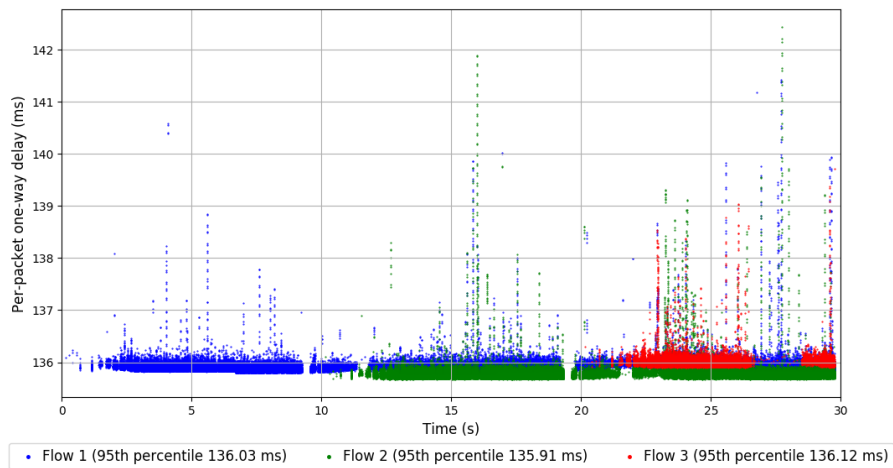
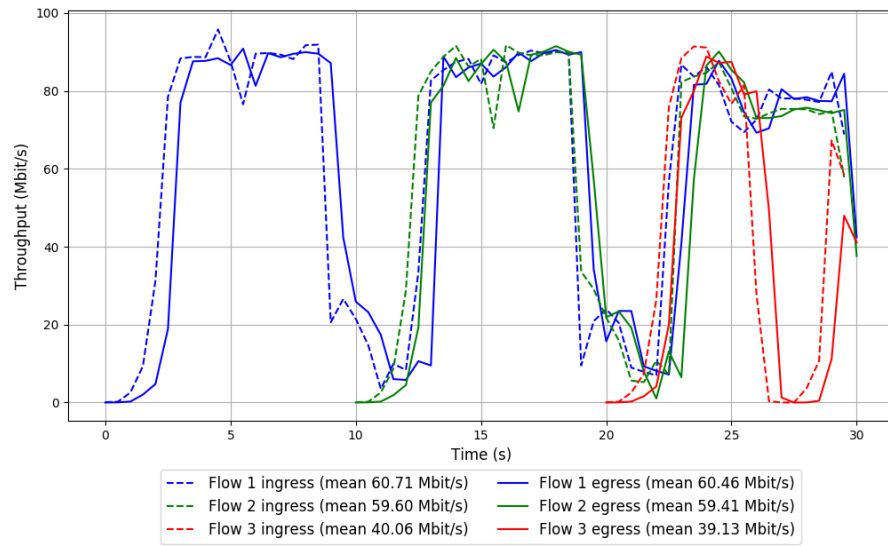


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 21:10:01
End at: 2018-06-06 21:10:31
Local clock offset: 0.103 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.47 Mbit/s
95th percentile per-packet one-way delay: 136.040 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 136.026 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 135.906 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 136.119 ms
Loss rate: 4.98%

Run 9: Report of QUIC Cubic — Data Link

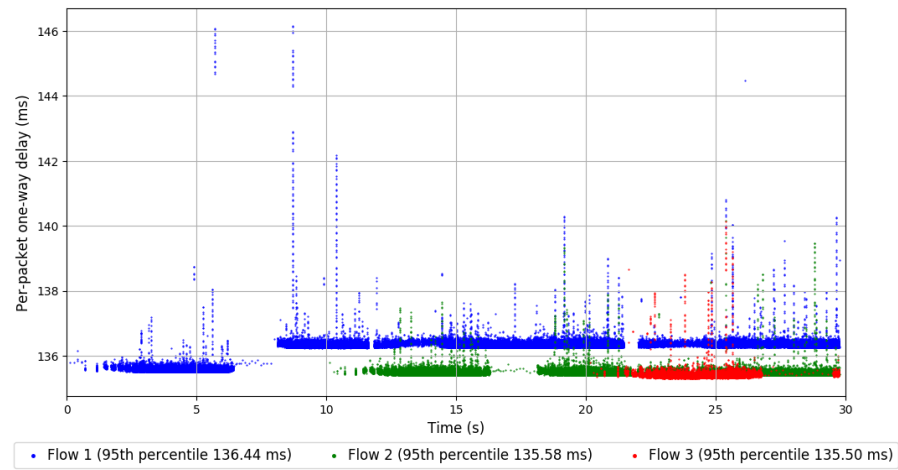
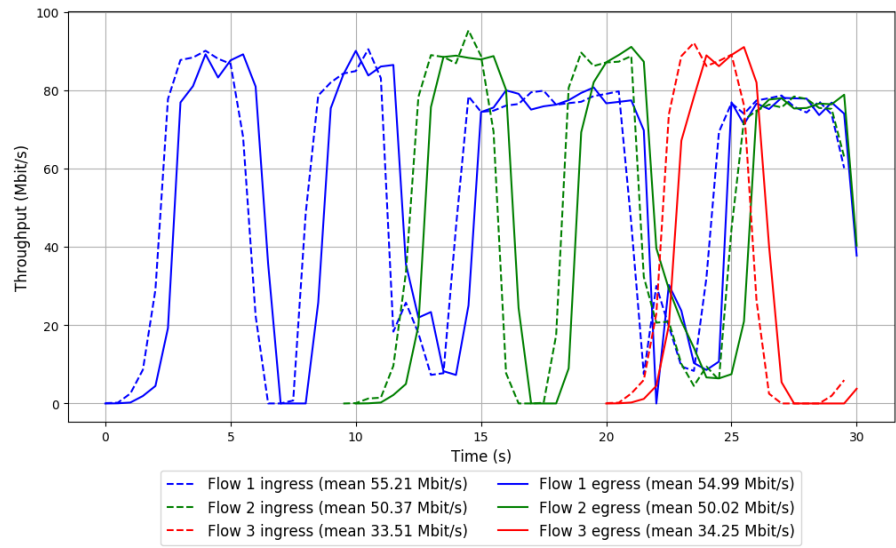


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 21:34:49
End at: 2018-06-06 21:35:19
Local clock offset: -0.361 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.24 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 136.435 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 135.577 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 135.498 ms
Loss rate: 0.63%

Run 10: Report of QUIC Cubic — Data Link

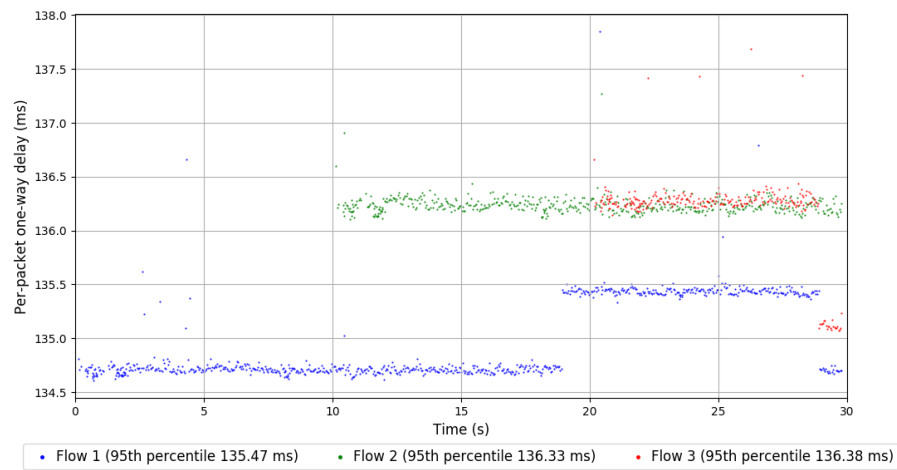
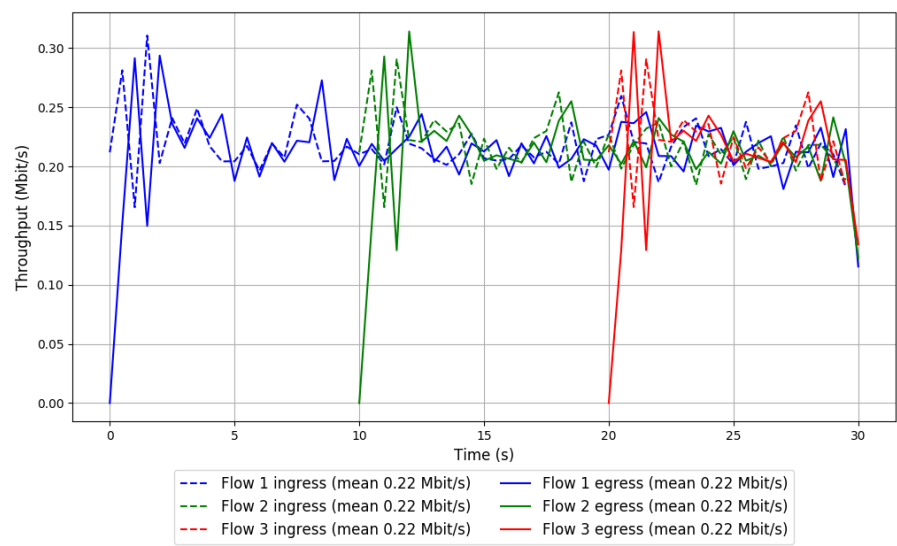


```
Run 1: Statistics of SReAM

Start at: 2018-06-06 17:39:48
End at: 2018-06-06 17:40:18
Local clock offset: 0.026 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.325 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.465 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.334 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.385 ms
Loss rate: 2.59%
```

Run 1: Report of SReAM — Data Link

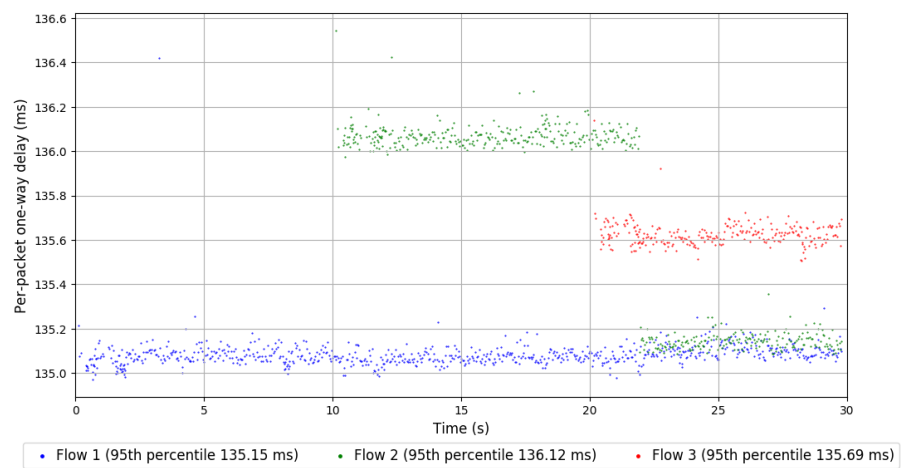
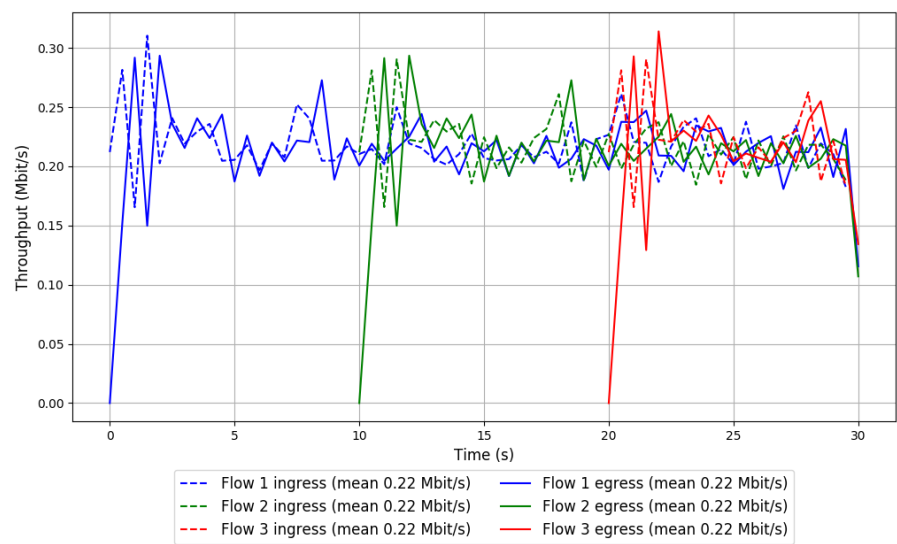


Run 2: Statistics of SReAM

Start at: 2018-06-06 18:04:35
End at: 2018-06-06 18:05:05
Local clock offset: 0.29 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.091 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.147 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 2.59%

Run 2: Report of SReAM — Data Link

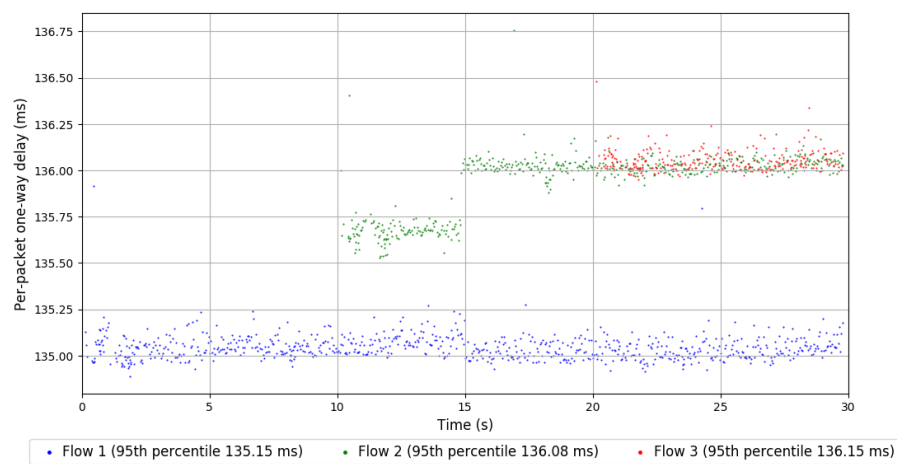
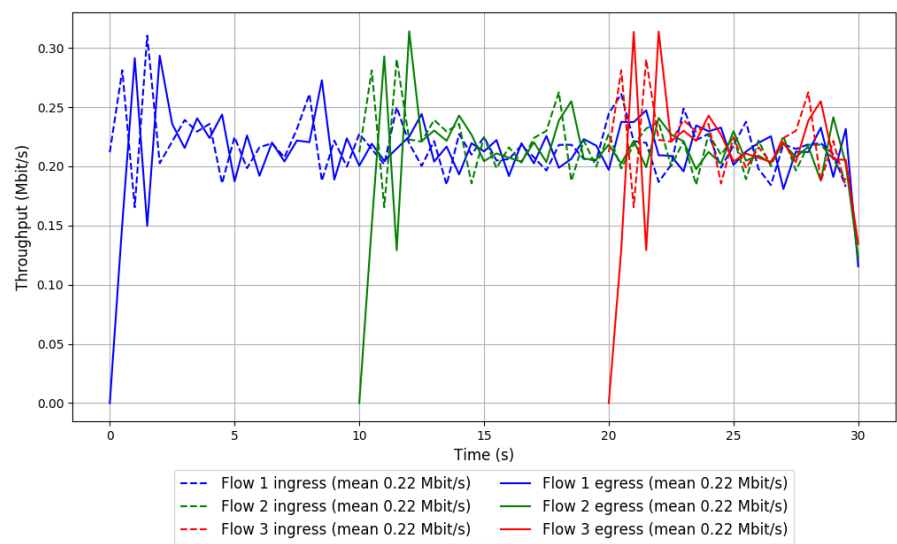


Run 3: Statistics of SReAM

Start at: 2018-06-06 18:29:33
End at: 2018-06-06 18:30:03
Local clock offset: -0.004 ms
Remote clock offset: -0.416 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.089 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.152 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.083 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.149 ms
Loss rate: 2.59%

Run 3: Report of SReAM — Data Link

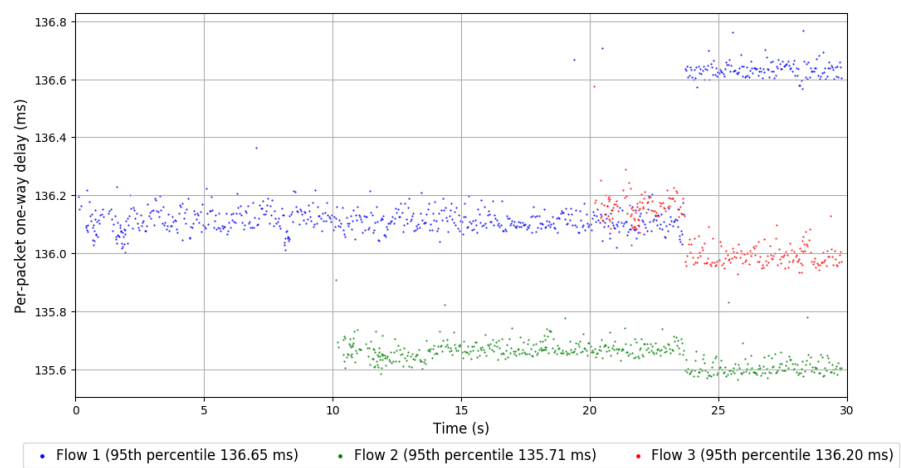
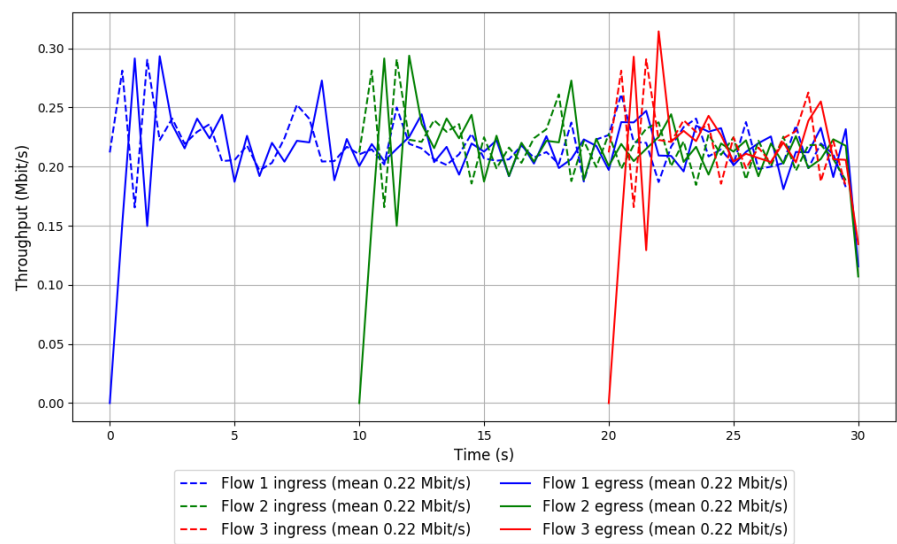


Run 4: Statistics of SReAM

Start at: 2018-06-06 18:54:14
End at: 2018-06-06 18:54:44
Local clock offset: -0.229 ms
Remote clock offset: -0.565 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.646 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.711 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.197 ms
Loss rate: 2.59%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-06-06 19:19:01

End at: 2018-06-06 19:19:31

Local clock offset: -0.75 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.947 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.940 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.964 ms

Loss rate: 1.43%

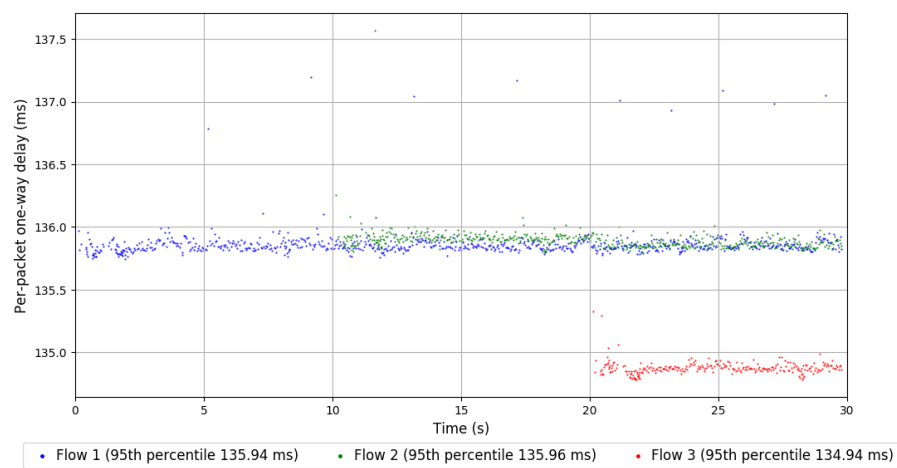
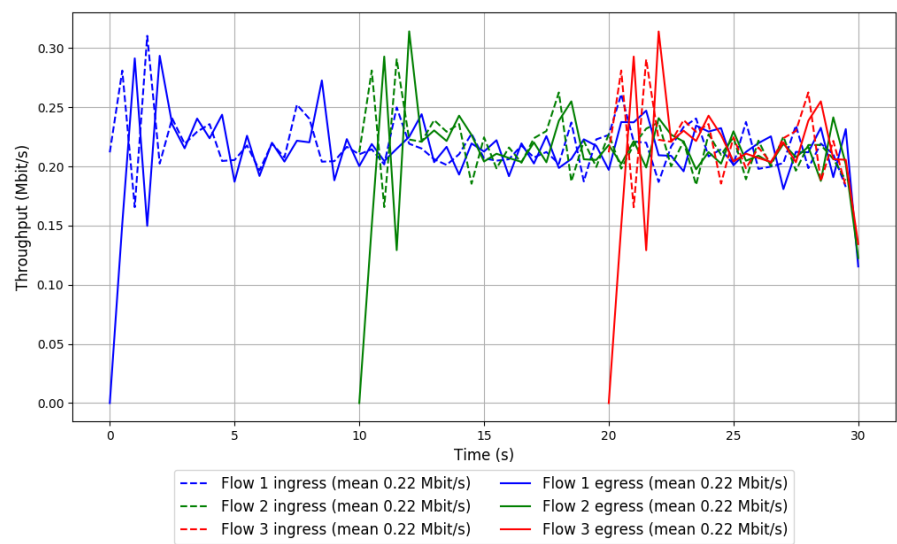
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.935 ms

Loss rate: 2.59%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-06 19:44:19

End at: 2018-06-06 19:44:49

Local clock offset: -0.833 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.480 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.384 ms

Loss rate: 1.43%

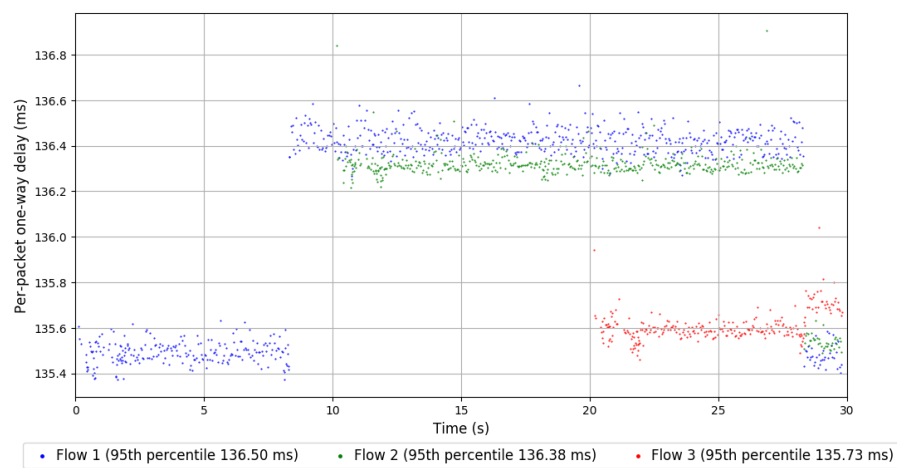
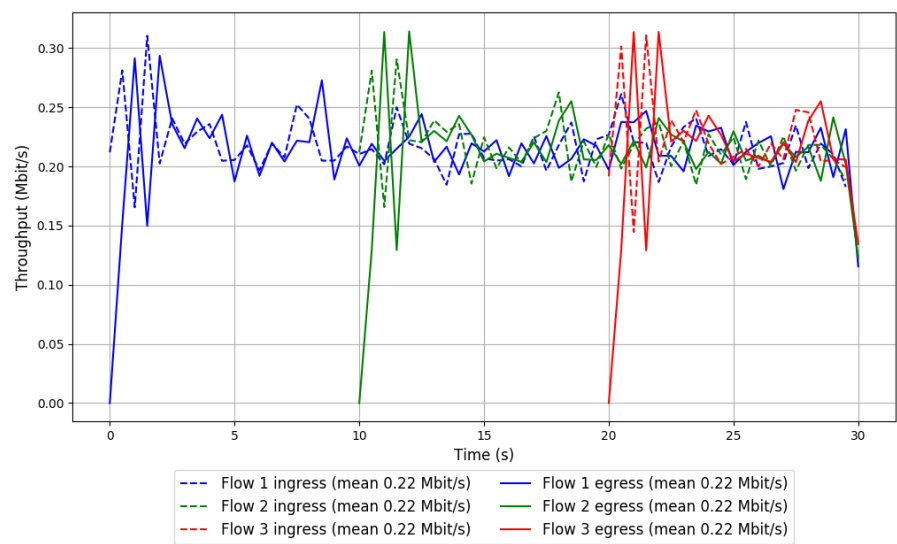
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.726 ms

Loss rate: 2.59%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-06-06 20:09:29

End at: 2018-06-06 20:09:59

Local clock offset: -1.171 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.620 ms

Loss rate: 1.43%

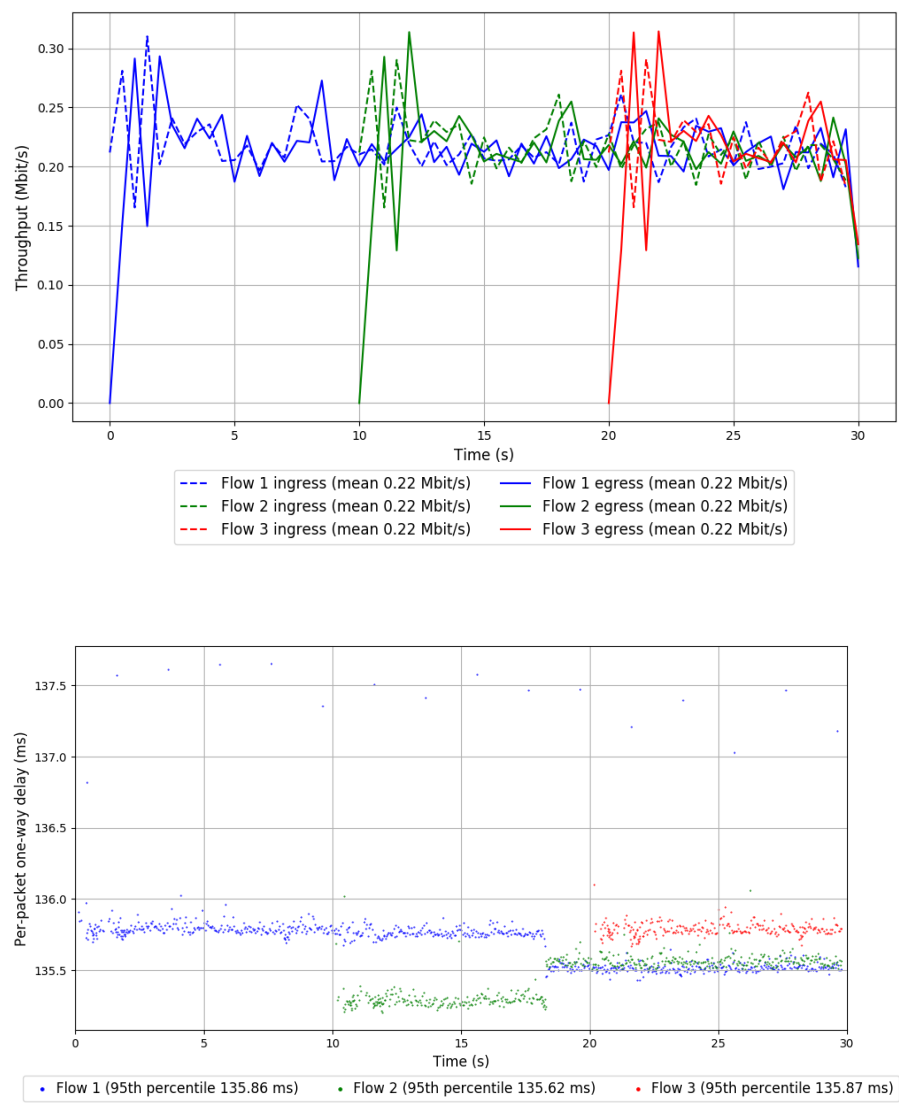
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.865 ms

Loss rate: 2.59%

Run 7: Report of SReAM — Data Link

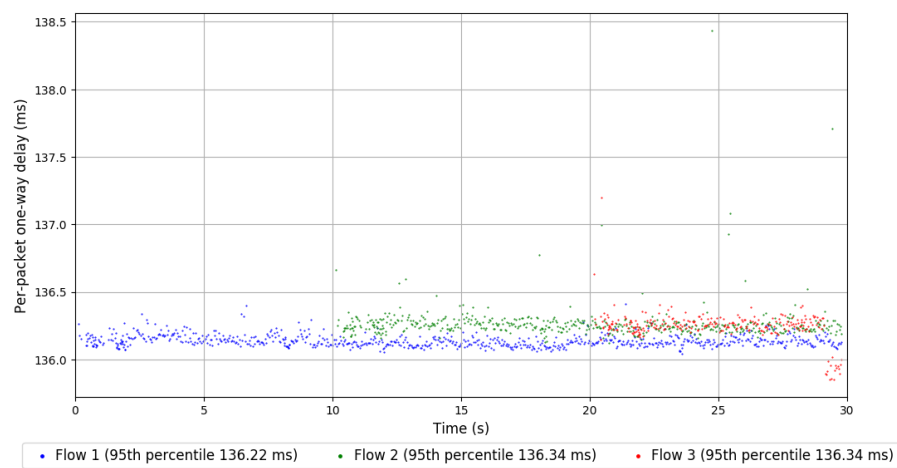
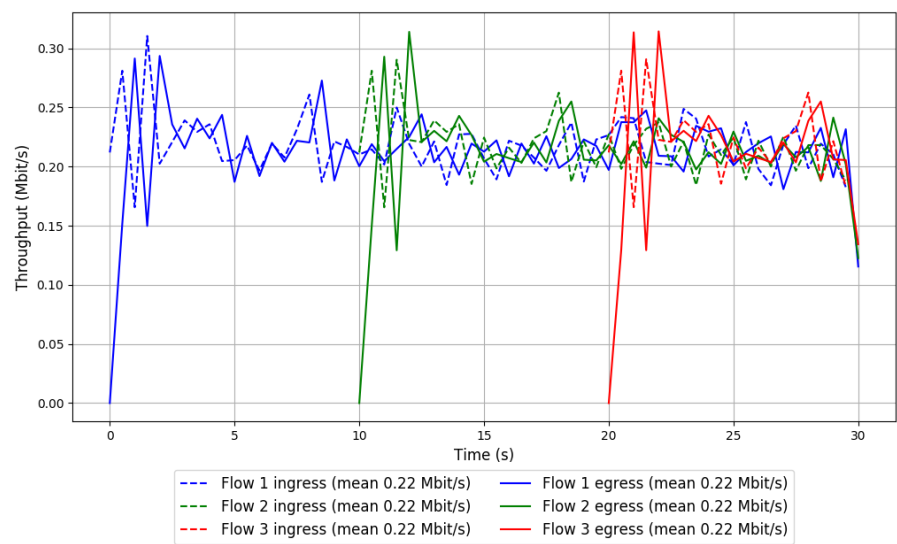


Run 8: Statistics of SReAM

Start at: 2018-06-06 20:34:18
End at: 2018-06-06 20:34:48
Local clock offset: 0.546 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.317 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.220 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.345 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.343 ms
Loss rate: 2.59%

Run 8: Report of SReAM — Data Link

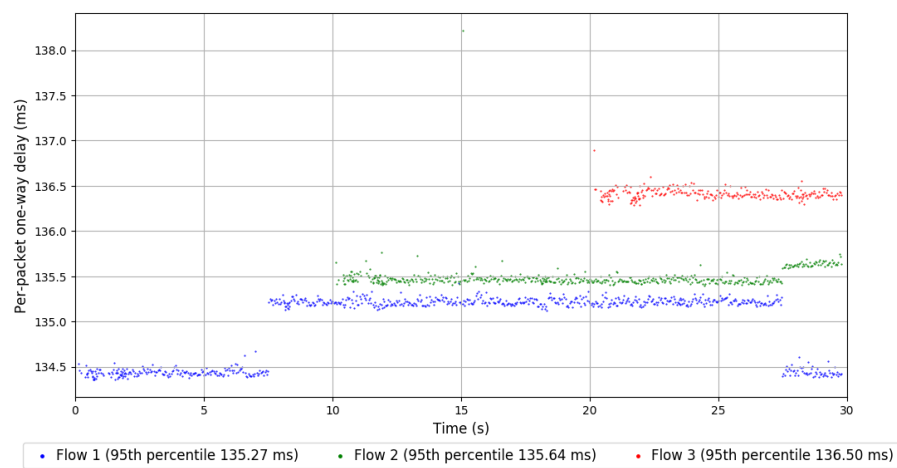
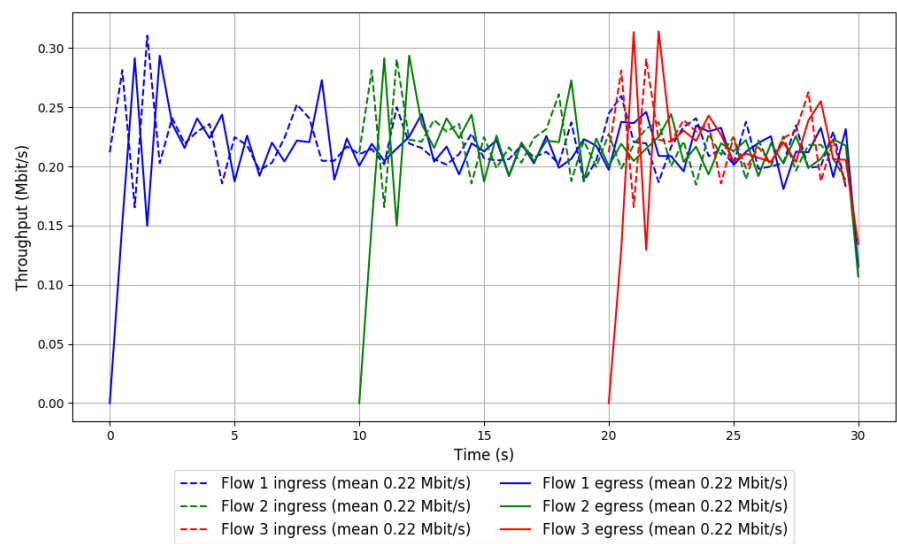


Run 9: Statistics of SReAM

Start at: 2018-06-06 20:59:30
End at: 2018-06-06 21:00:00
Local clock offset: 0.247 ms
Remote clock offset: 0.336 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.431 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.273 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.640 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 2.59%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-06 21:24:30

End at: 2018-06-06 21:25:00

Local clock offset: -0.101 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.621 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.407 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 1.43%

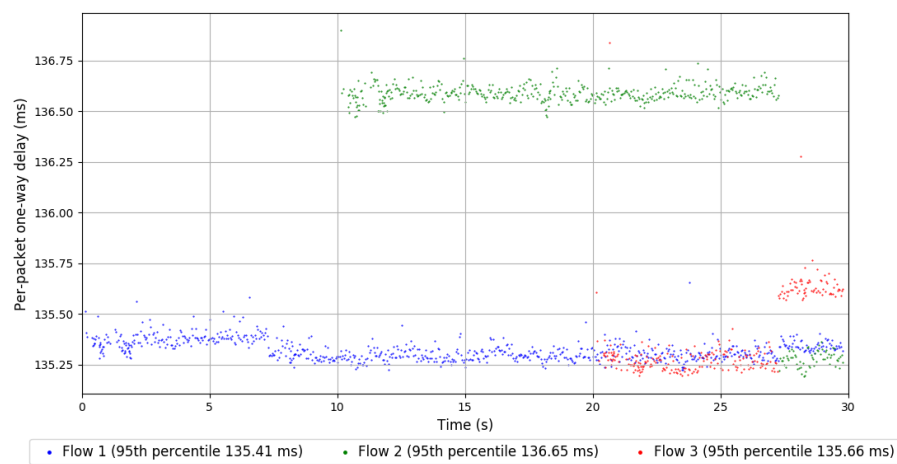
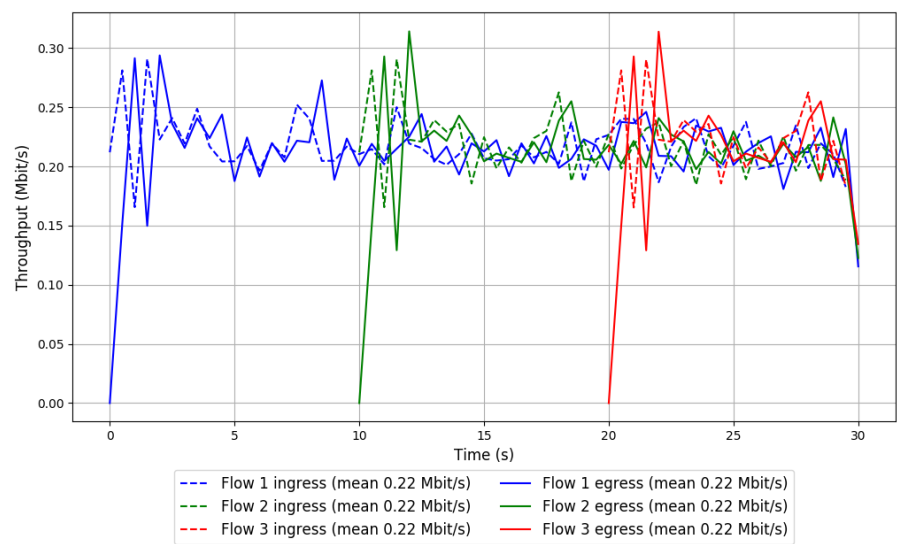
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.661 ms

Loss rate: 2.59%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-06 17:41:04

End at: 2018-06-06 17:41:34

Local clock offset: 0.426 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 1.34%

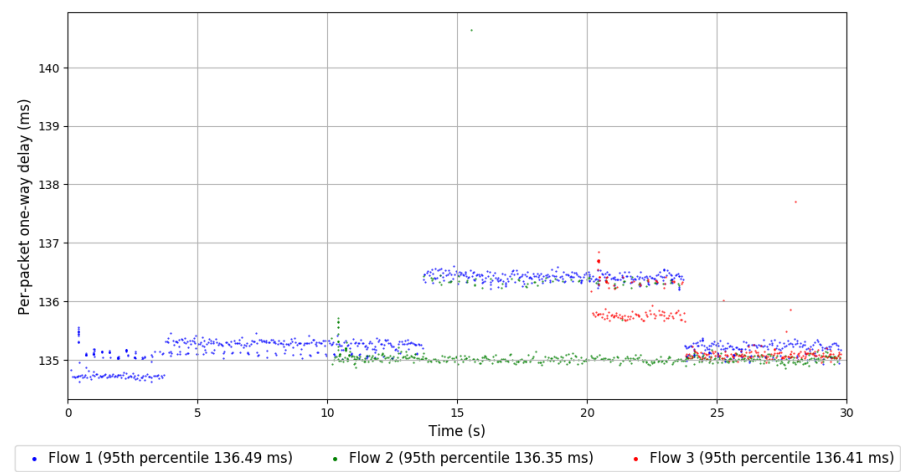
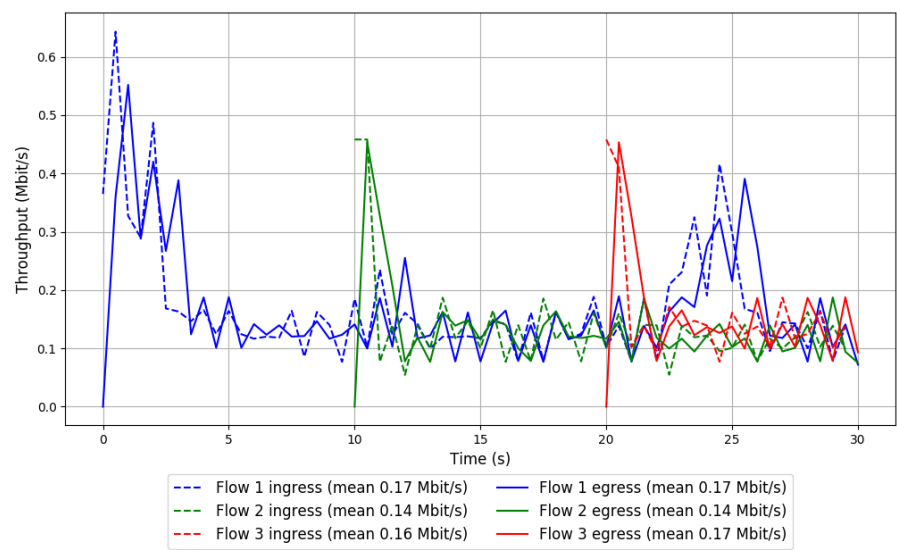
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 1.53%

Run 1: Report of Sprout — Data Link

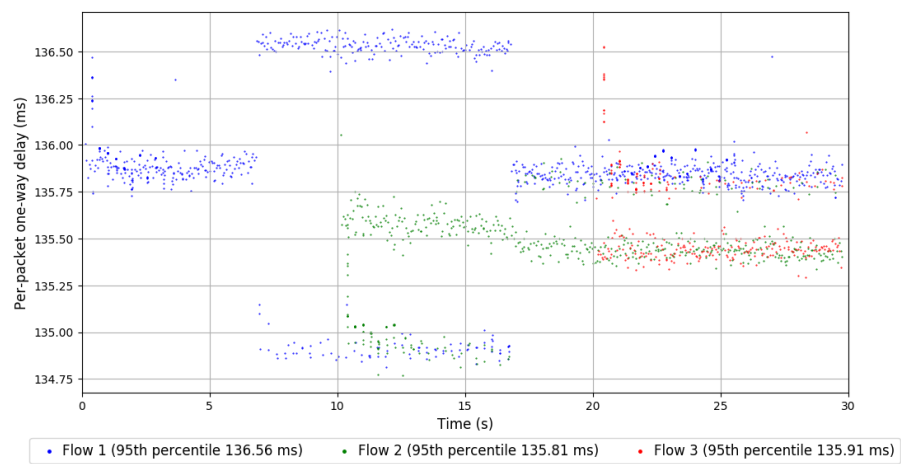
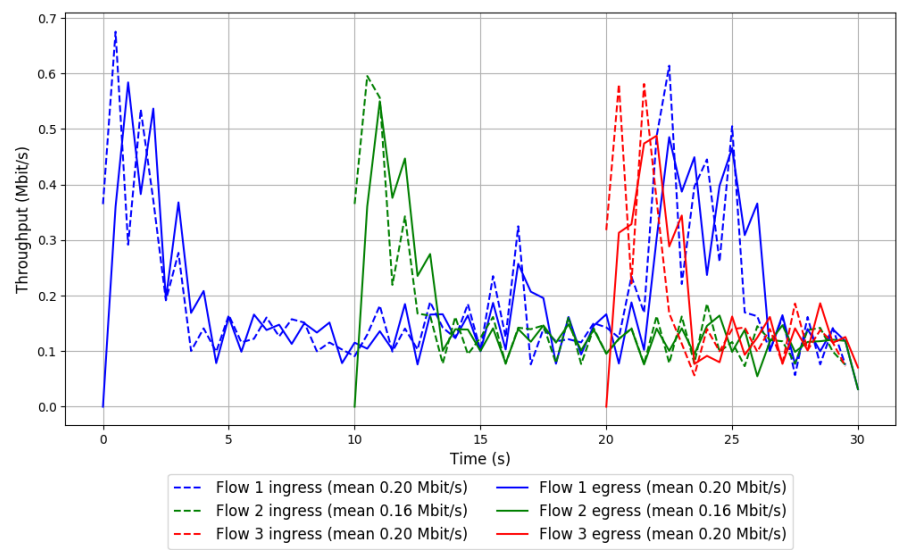


Run 2: Statistics of Sprout

Start at: 2018-06-06 18:05:50
End at: 2018-06-06 18:06:20
Local clock offset: 0.022 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.534 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.555 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.811 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.915 ms
Loss rate: 0.52%

Run 2: Report of Sprout — Data Link

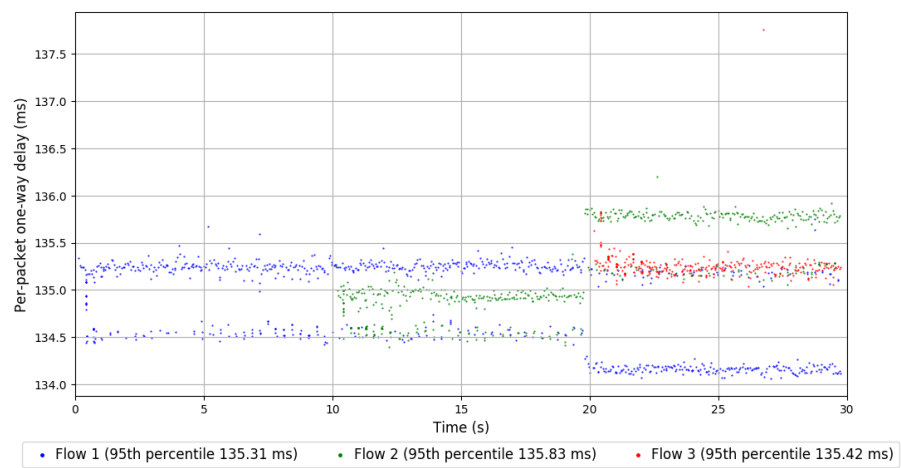
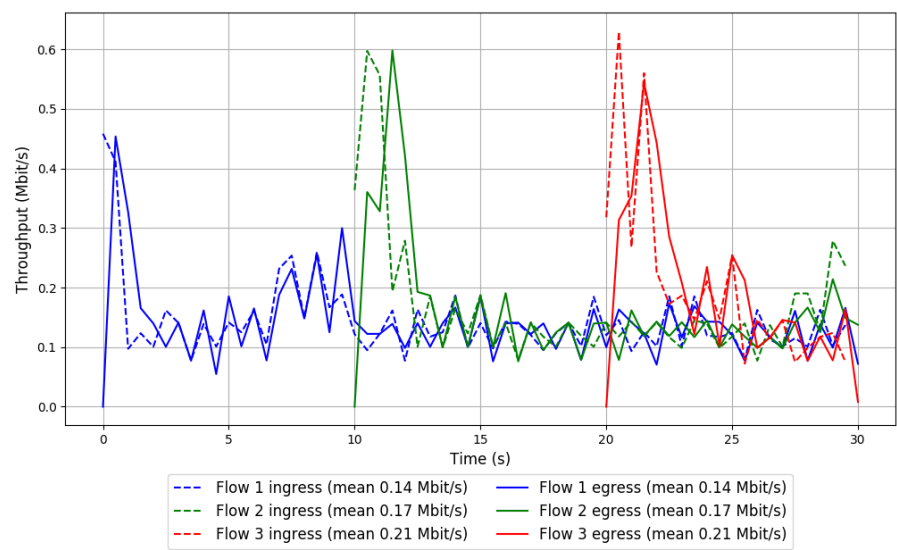


Run 3: Statistics of Sprout

Start at: 2018-06-06 18:30:48
End at: 2018-06-06 18:31:18
Local clock offset: -0.47 ms
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 135.796 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 135.314 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.829 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 135.421 ms
Loss rate: 1.73%
```

Run 3: Report of Sprout — Data Link

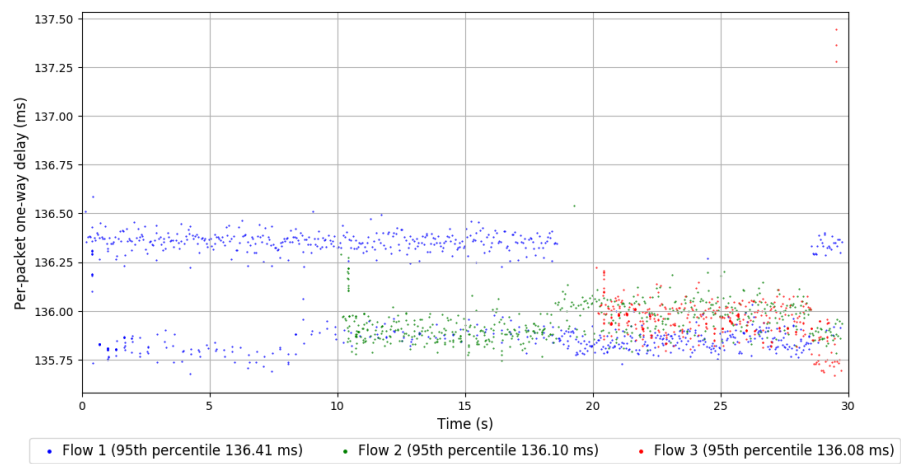
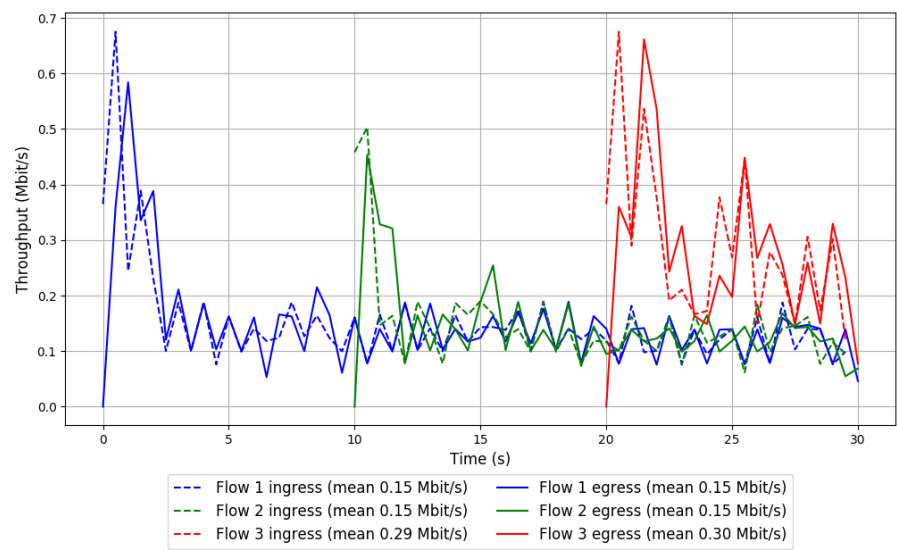


Run 4: Statistics of Sprout

Start at: 2018-06-06 18:55:29
End at: 2018-06-06 18:55:59
Local clock offset: -0.416 ms
Remote clock offset: -0.572 ms

```
# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.385 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.105 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 136.082 ms
Loss rate: 2.02%
```

Run 4: Report of Sprout — Data Link

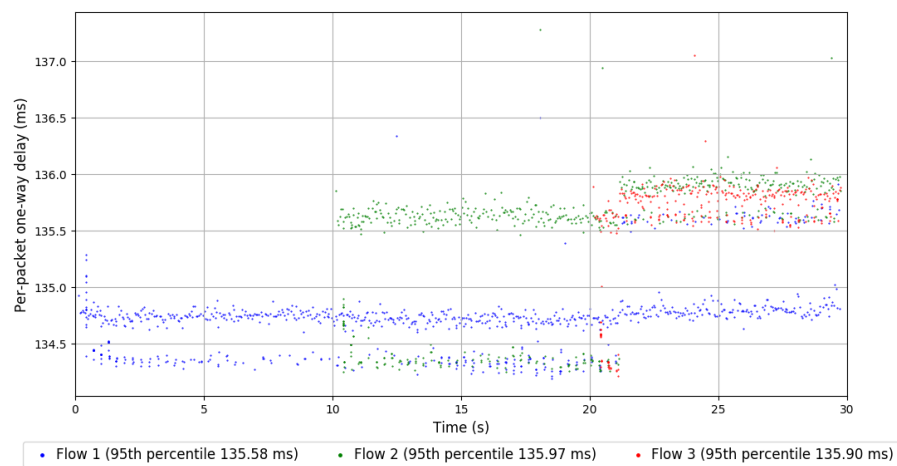
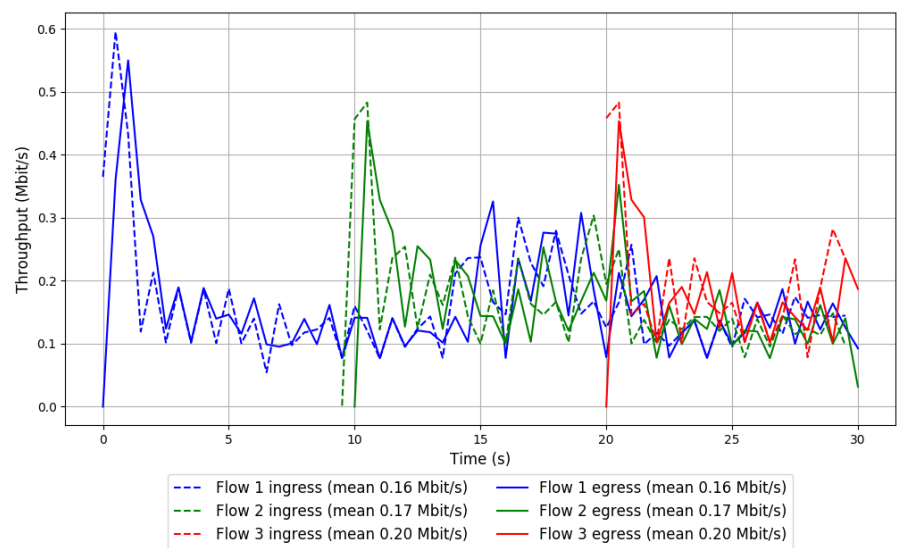


Run 5: Statistics of Sprout

Start at: 2018-06-06 19:20:16
End at: 2018-06-06 19:20:46
Local clock offset: -0.967 ms
Remote clock offset: 0.254 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 135.924 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.577 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.969 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.901 ms
Loss rate: 4.68%

Run 5: Report of Sprout — Data Link

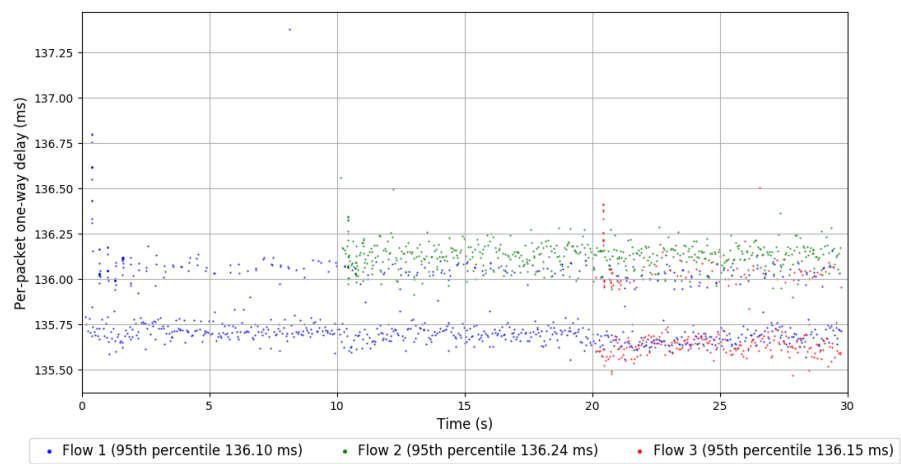
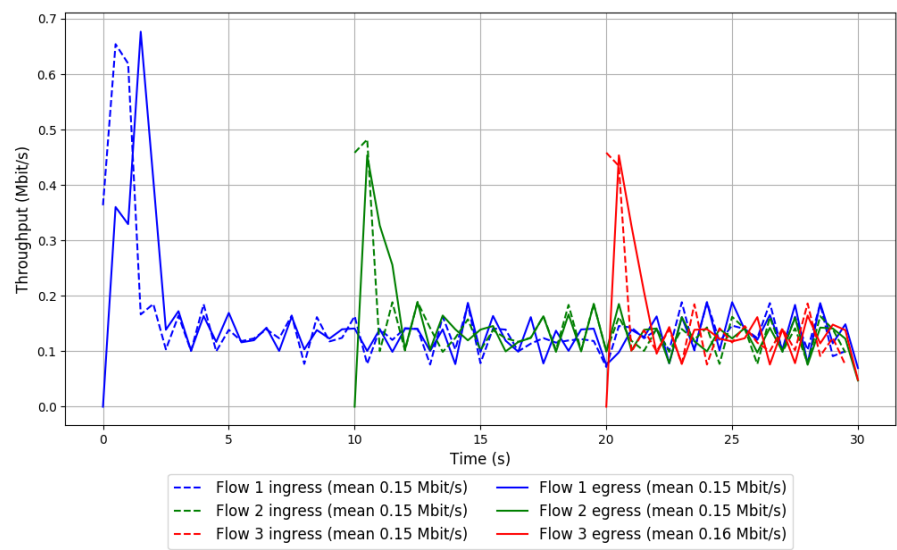


Run 6: Statistics of Sprout

Start at: 2018-06-06 19:45:34
End at: 2018-06-06 19:46:04
Local clock offset: -0.607 ms
Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-06 23:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 136.202 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.238 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.149 ms
Loss rate: 1.04%

Run 6: Report of Sprout — Data Link

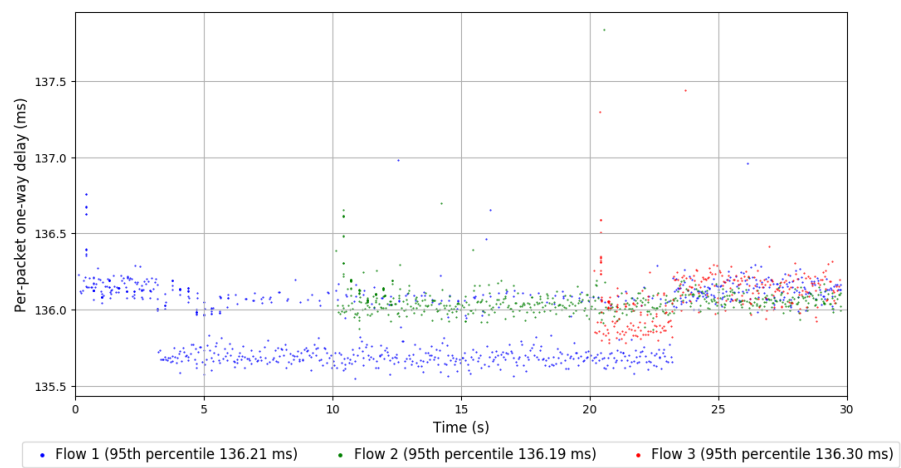
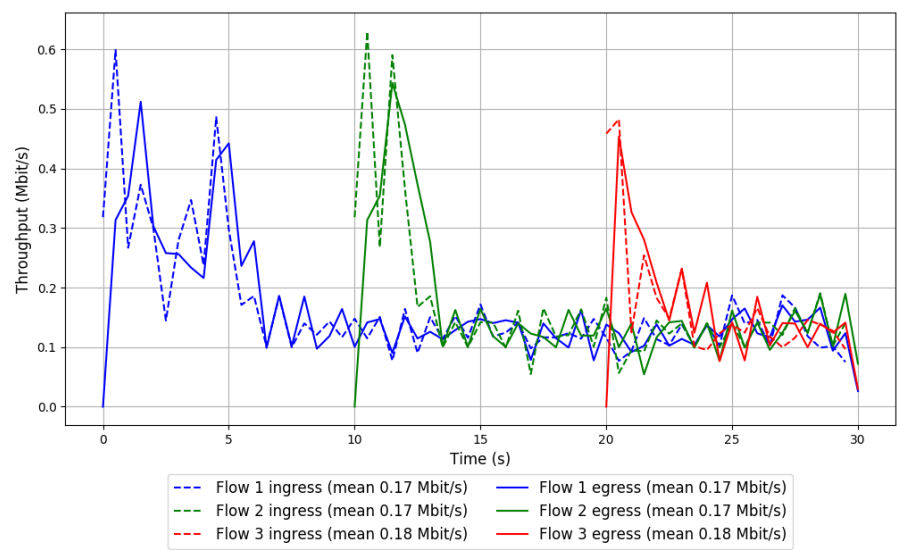


Run 7: Statistics of Sprout

Start at: 2018-06-06 20:10:44
End at: 2018-06-06 20:11:14
Local clock offset: -0.704 ms
Remote clock offset: 0.092 ms

```
# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.211 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.192 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.297 ms
Loss rate: 2.69%
```

Run 7: Report of Sprout — Data Link

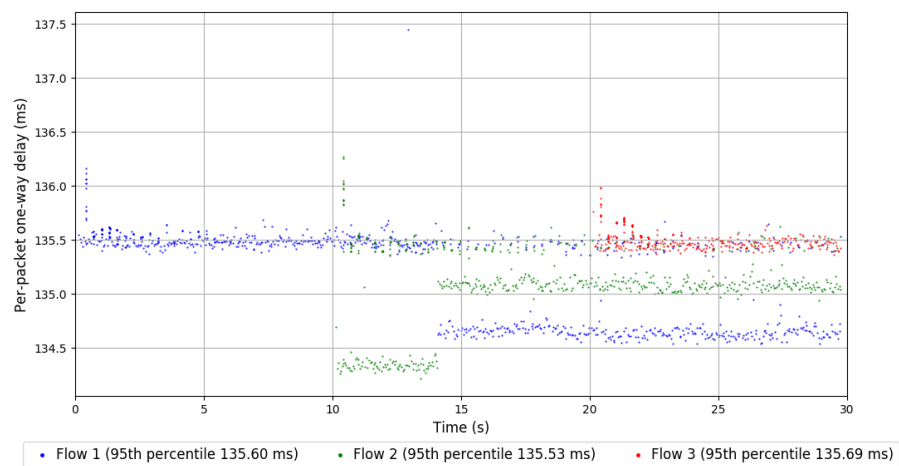
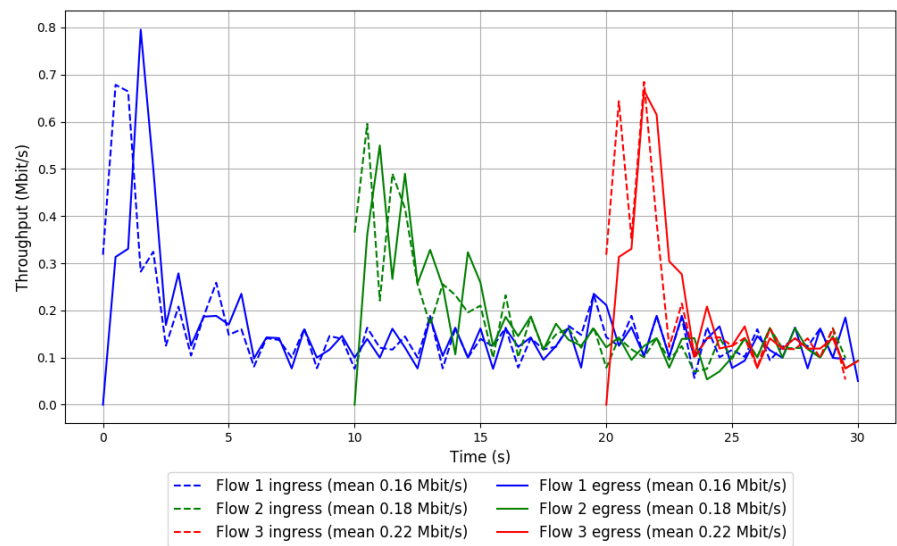


Run 8: Statistics of Sprout

Start at: 2018-06-06 20:35:33
End at: 2018-06-06 20:36:03
Local clock offset: 0.385 ms
Remote clock offset: 0.359 ms

```
# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 135.607 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 135.596 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.530 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.690 ms
Loss rate: 1.13%
```

Run 8: Report of Sprout — Data Link

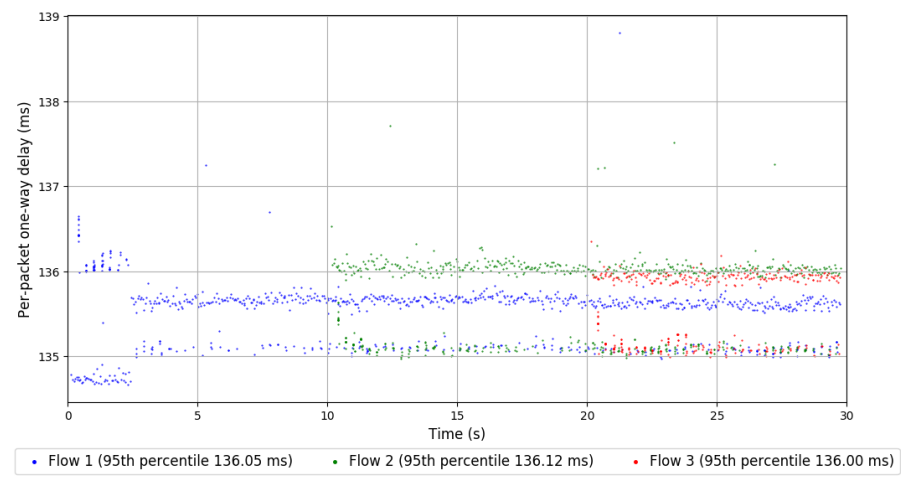
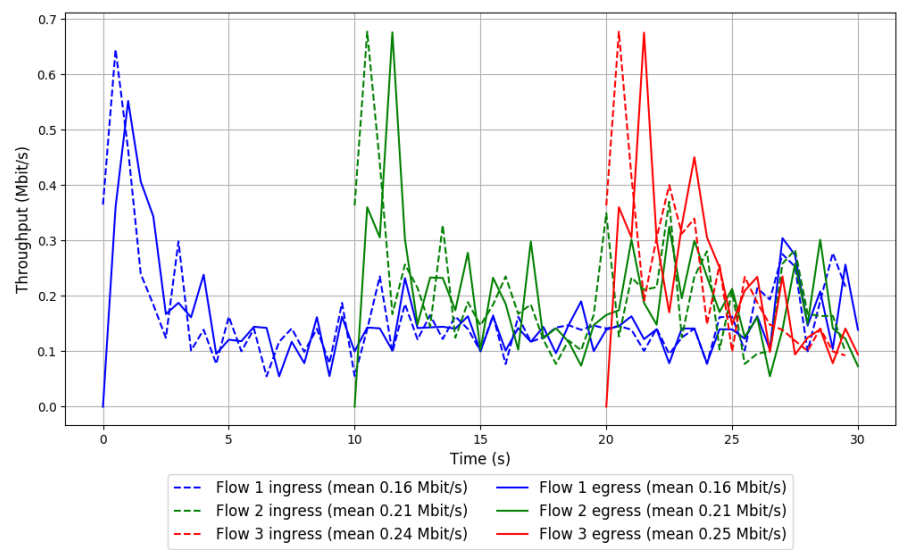


Run 9: Statistics of Sprout

Start at: 2018-06-06 21:00:45
End at: 2018-06-06 21:01:15
Local clock offset: 0.587 ms
Remote clock offset: 0.362 ms

```
# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.093 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.053 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 135.999 ms
Loss rate: 0.51%
```


Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-06 21:25:45

End at: 2018-06-06 21:26:15

Local clock offset: 0.418 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-06-06 23:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.171 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.130 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.146 ms

Loss rate: 1.10%

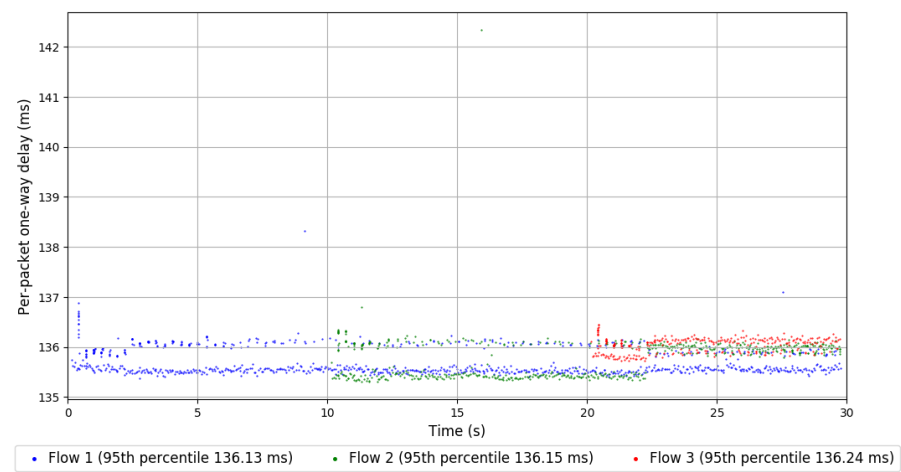
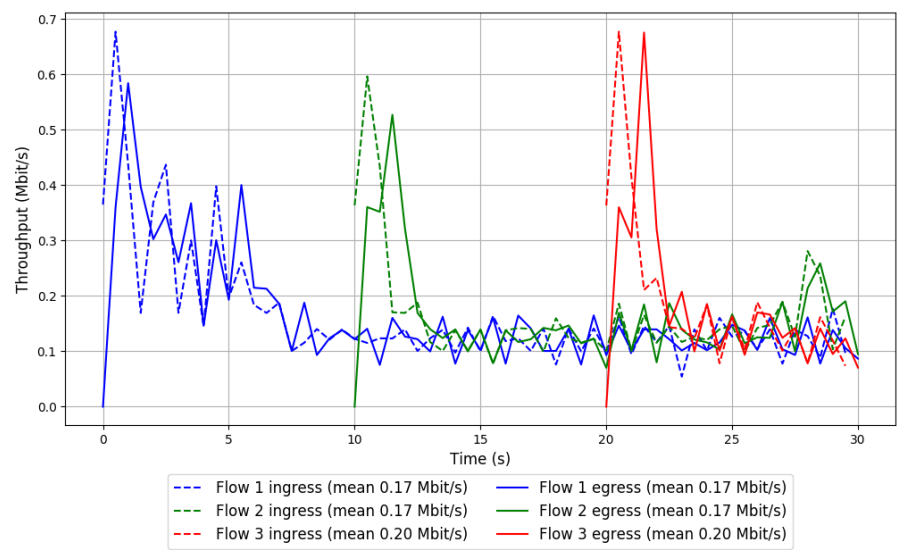
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 136.239 ms

Loss rate: 1.84%

Run 10: Report of Sprout — Data Link

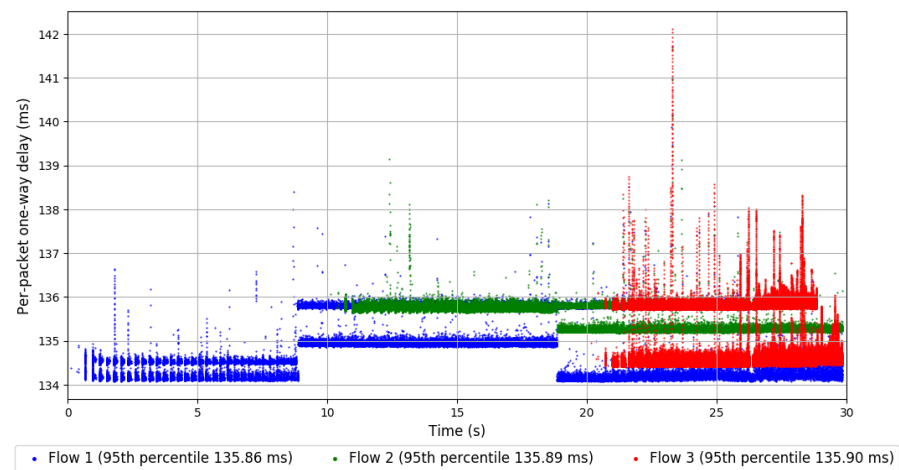
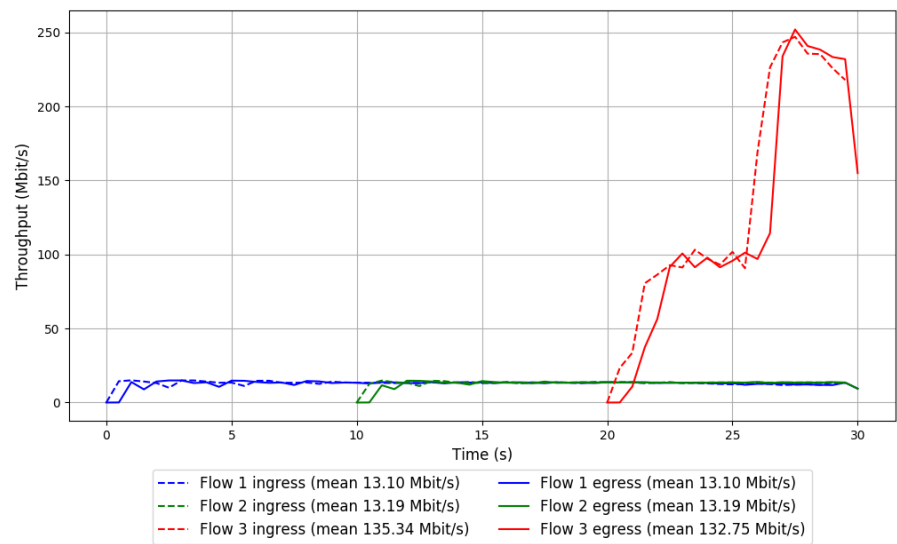


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 17:42:19
End at: 2018-06-06 17:42:49
Local clock offset: 0.39 ms
Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2018-06-06 23:26:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 135.892 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 135.860 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 135.893 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 132.75 Mbit/s
95th percentile per-packet one-way delay: 135.901 ms
Loss rate: 4.57%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 18:07:05

End at: 2018-06-06 18:07:36

Local clock offset: 0.023 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-06-06 23:26:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 153.87 Mbit/s

95th percentile per-packet one-way delay: 135.907 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 135.831 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 205.61 Mbit/s

95th percentile per-packet one-way delay: 135.905 ms

Loss rate: 1.48%

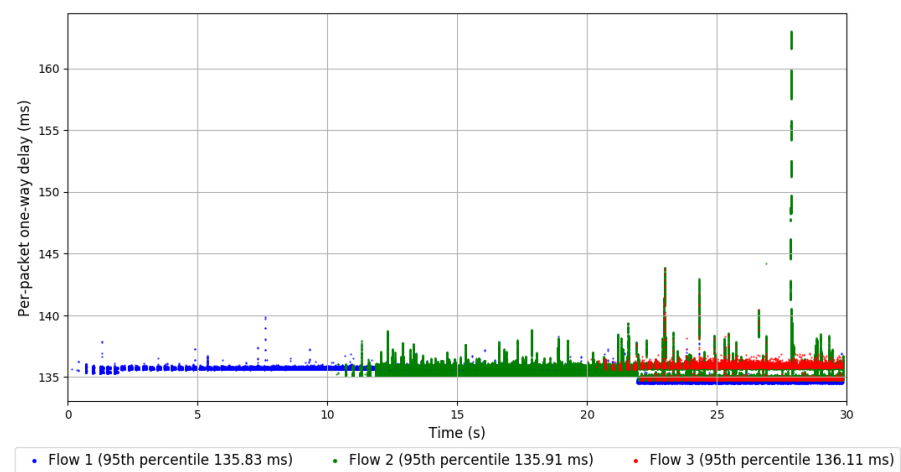
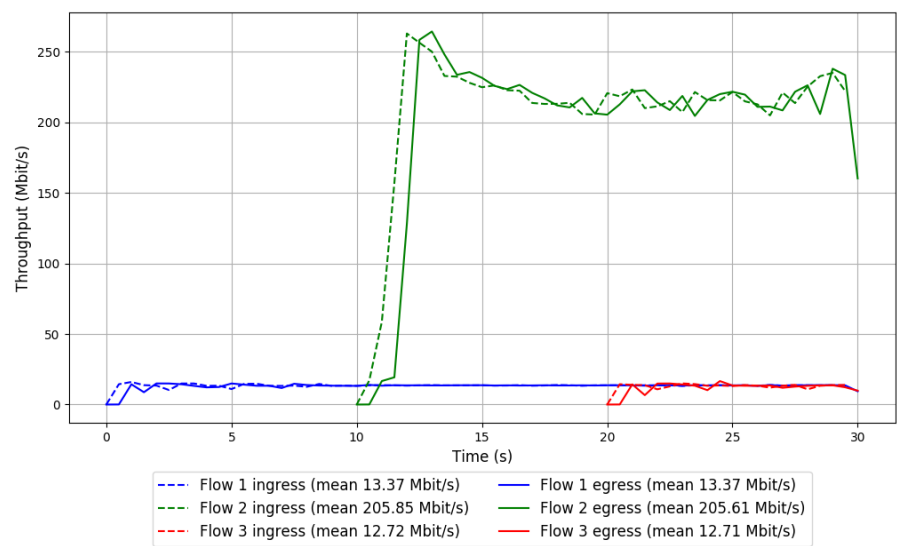
-- Flow 3:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 136.107 ms

Loss rate: 2.91%

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

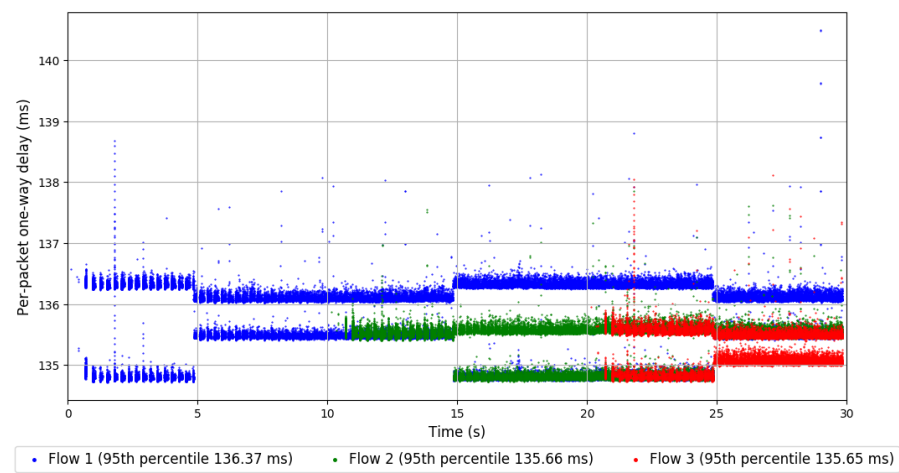
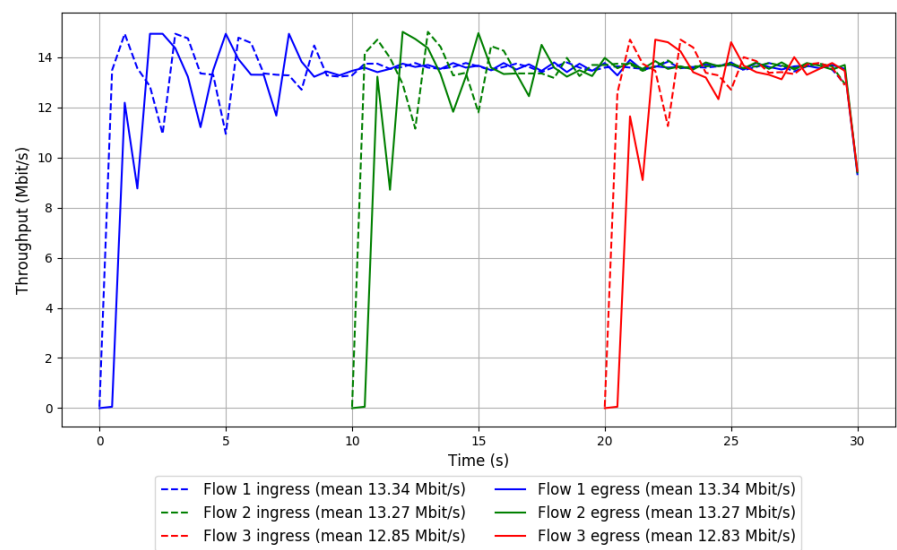


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 18:32:03
End at: 2018-06-06 18:32:33
Local clock offset: -0.423 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-06-06 23:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 136.332 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 136.372 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 13.27 Mbit/s
95th percentile per-packet one-way delay: 135.659 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 135.646 ms
Loss rate: 2.84%

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

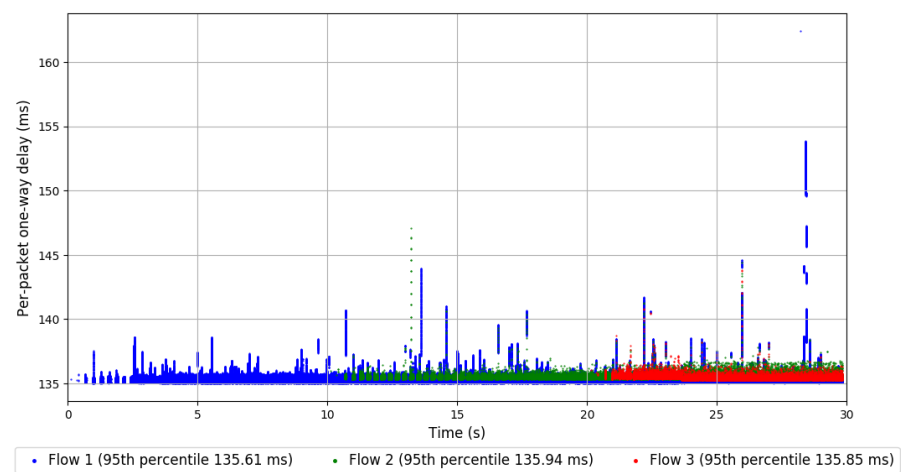
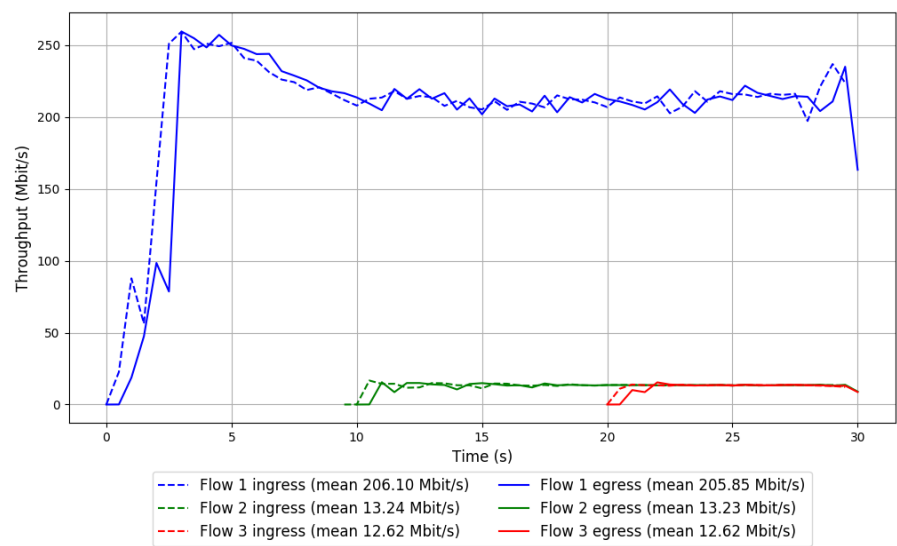


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 18:56:44
End at: 2018-06-06 18:57:14
Local clock offset: -0.393 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-06 23:30:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 218.74 Mbit/s
95th percentile per-packet one-way delay: 135.632 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 135.608 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 135.936 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 135.849 ms
Loss rate: 2.77%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 19:21:31

End at: 2018-06-06 19:22:01

Local clock offset: -0.728 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.66 Mbit/s

95th percentile per-packet one-way delay: 136.732 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 207.68 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 189.73 Mbit/s

95th percentile per-packet one-way delay: 137.104 ms

Loss rate: 1.62%

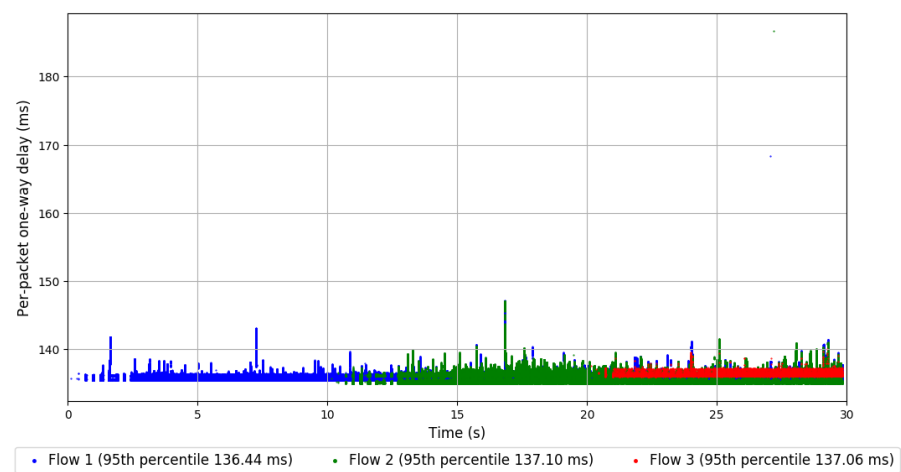
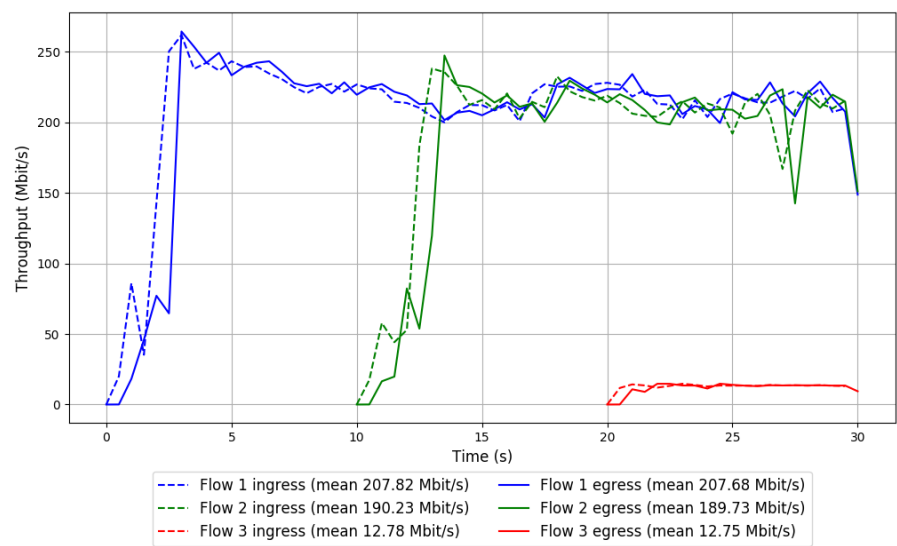
-- Flow 3:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 137.063 ms

Loss rate: 2.91%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 19:46:49

End at: 2018-06-06 19:47:19

Local clock offset: -0.726 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.94 Mbit/s

95th percentile per-packet one-way delay: 139.736 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 157.64 Mbit/s

95th percentile per-packet one-way delay: 138.728 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 164.44 Mbit/s

95th percentile per-packet one-way delay: 138.526 ms

Loss rate: 0.76%

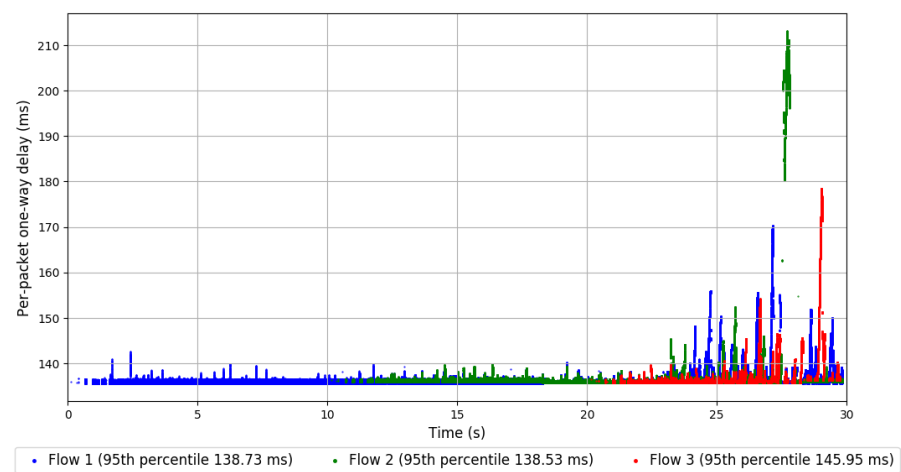
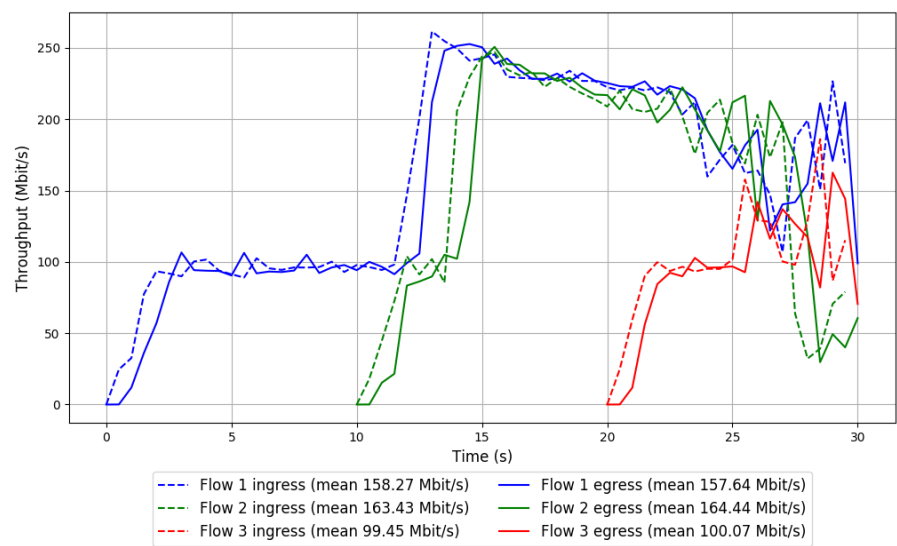
-- Flow 3:

Average throughput: 100.07 Mbit/s

95th percentile per-packet one-way delay: 145.946 ms

Loss rate: 3.15%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 20:11:59

End at: 2018-06-06 20:12:29

Local clock offset: -0.675 ms

Remote clock offset: 0.475 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.46 Mbit/s

95th percentile per-packet one-way delay: 136.053 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 197.01 Mbit/s

95th percentile per-packet one-way delay: 135.944 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 13.01 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 1.30%

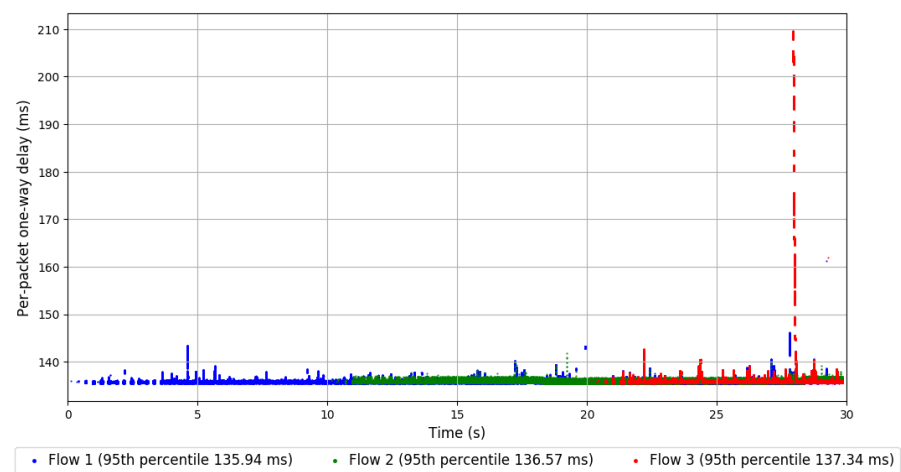
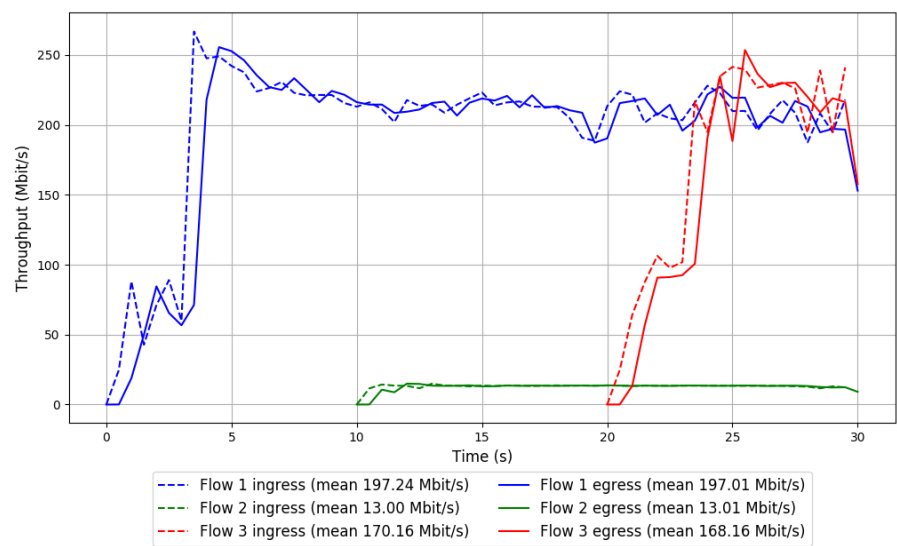
-- Flow 3:

Average throughput: 168.16 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 3.92%

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

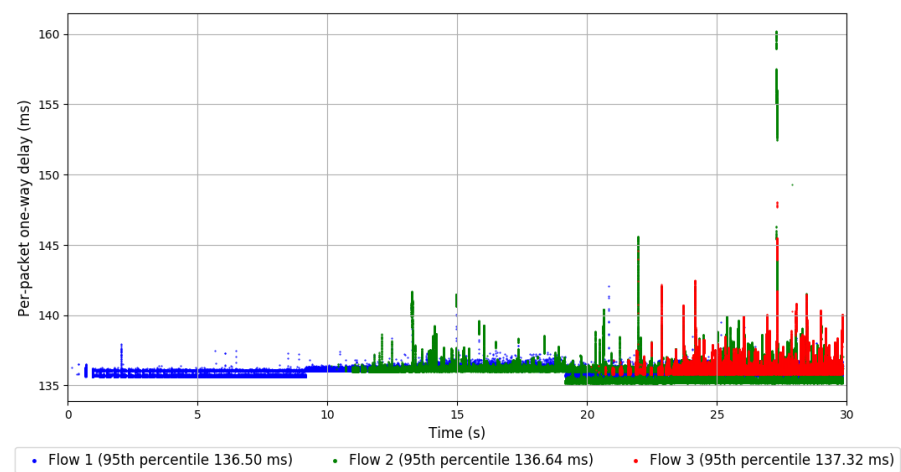
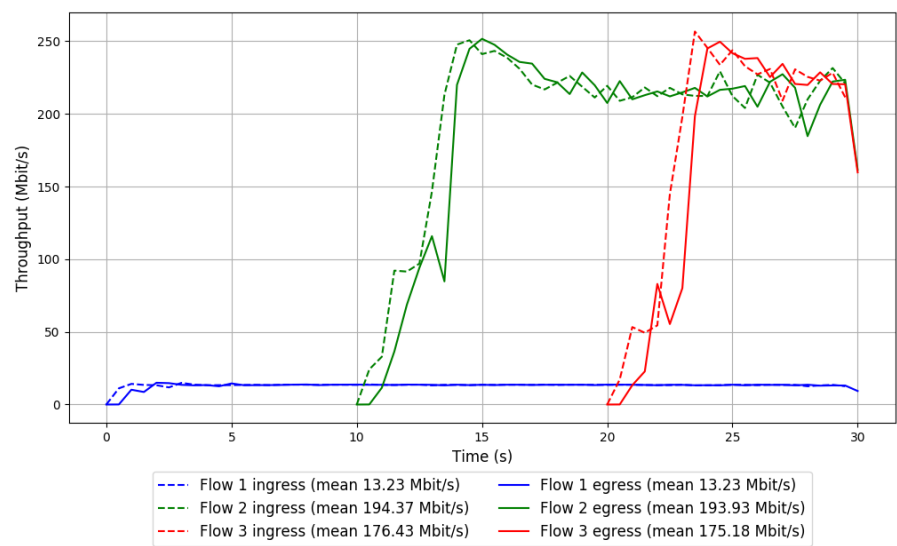


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 20:36:48
End at: 2018-06-06 20:37:18
Local clock offset: 0.718 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 198.96 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 136.502 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 193.93 Mbit/s
95th percentile per-packet one-way delay: 136.639 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 175.18 Mbit/s
95th percentile per-packet one-way delay: 137.321 ms
Loss rate: 3.42%

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

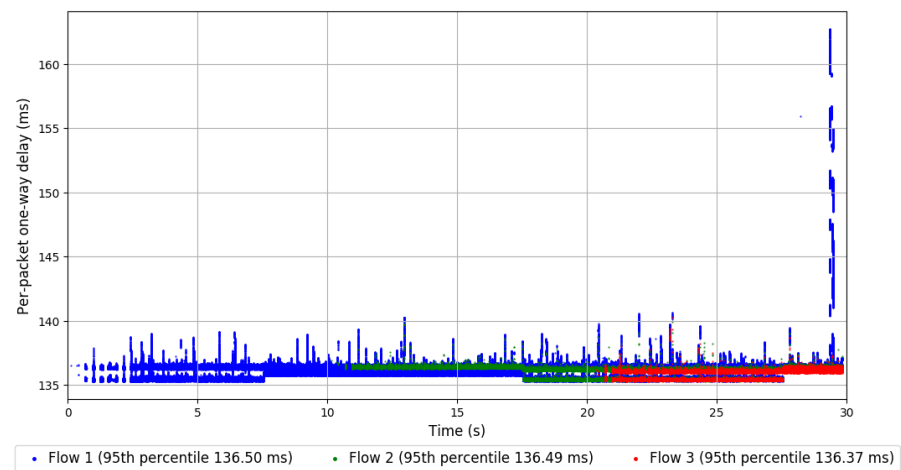
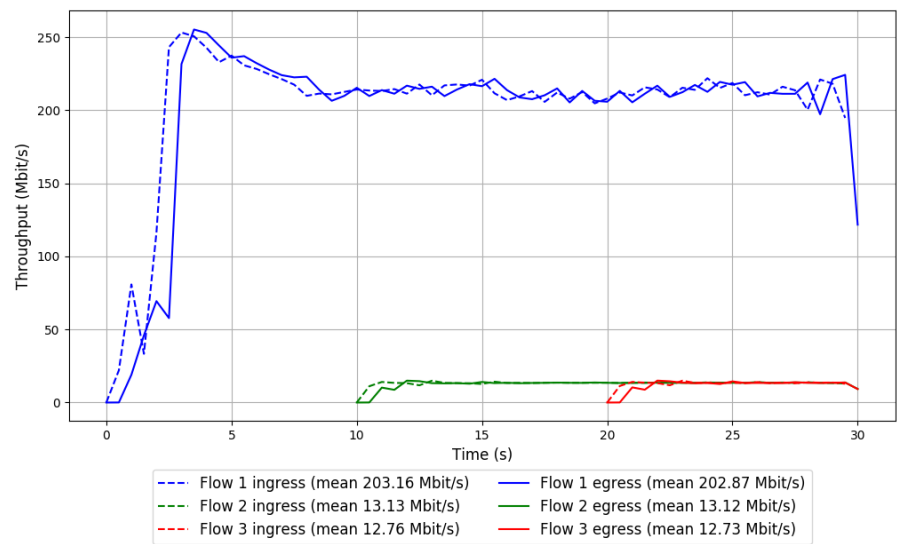


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 21:02:00
End at: 2018-06-06 21:02:30
Local clock offset: 0.602 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.72 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 136.487 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 136.371 ms
Loss rate: 2.93%

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

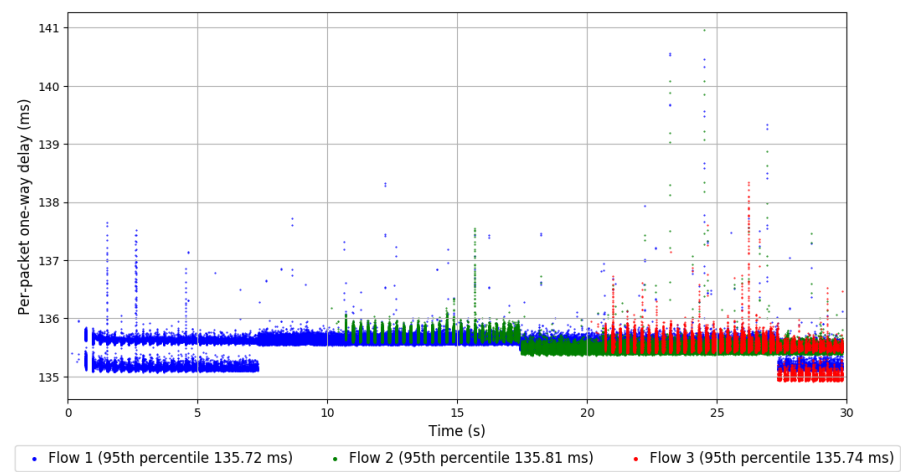
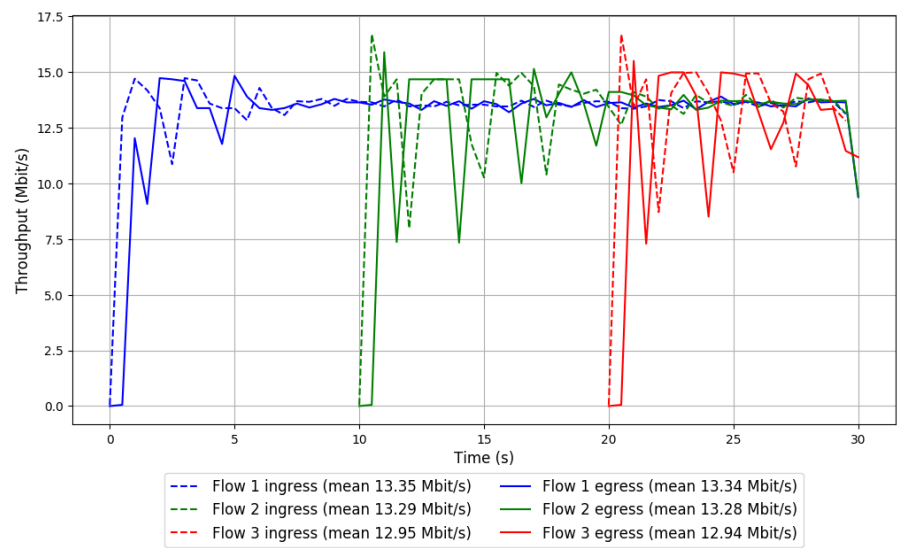


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 21:27:00
End at: 2018-06-06 21:27:30
Local clock offset: -0.252 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.37 Mbit/s
95th percentile per-packet one-way delay: 135.765 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 135.722 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 135.808 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 135.742 ms
Loss rate: 2.83%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 17:35:51

End at: 2018-06-06 17:36:21

Local clock offset: 0.386 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.99 Mbit/s

95th percentile per-packet one-way delay: 138.632 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 18.42 Mbit/s

95th percentile per-packet one-way delay: 137.514 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 59.86 Mbit/s

95th percentile per-packet one-way delay: 138.105 ms

Loss rate: 1.50%

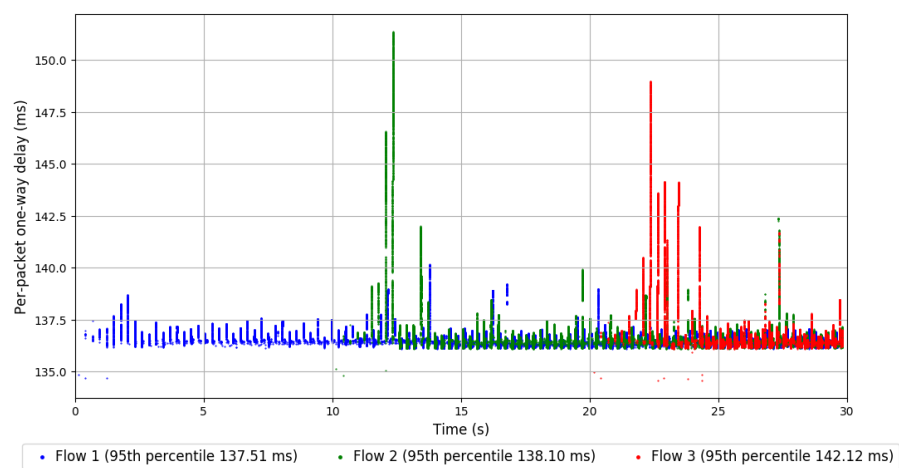
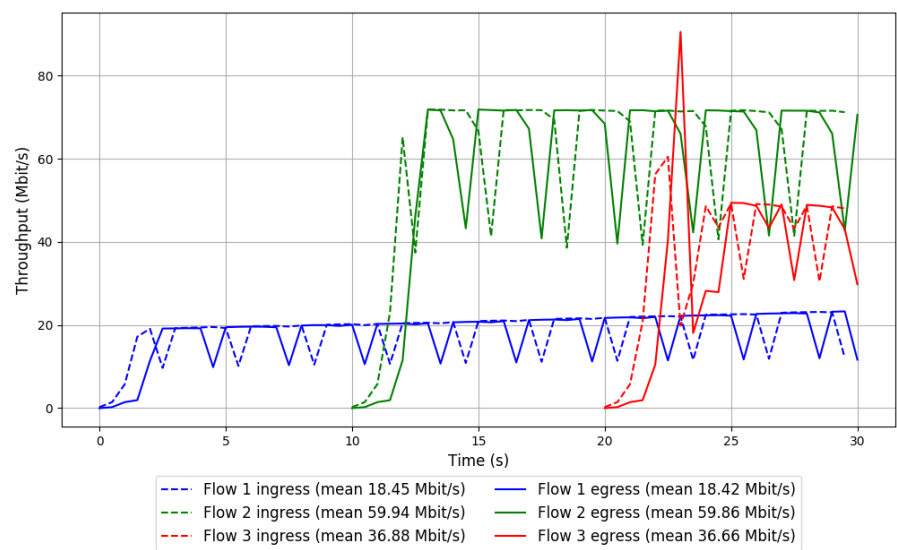
-- Flow 3:

Average throughput: 36.66 Mbit/s

95th percentile per-packet one-way delay: 142.120 ms

Loss rate: 3.30%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 18:00:37

End at: 2018-06-06 18:01:07

Local clock offset: 0.463 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 137.034 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 33.12 Mbit/s

95th percentile per-packet one-way delay: 137.026 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 1.51%

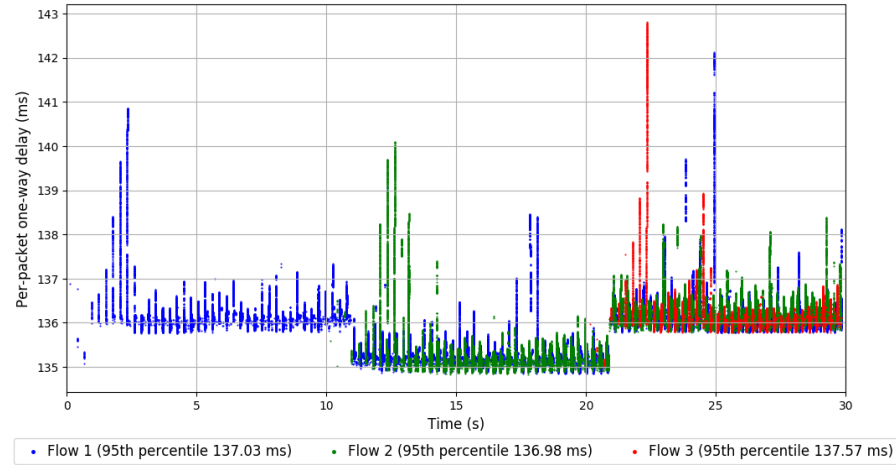
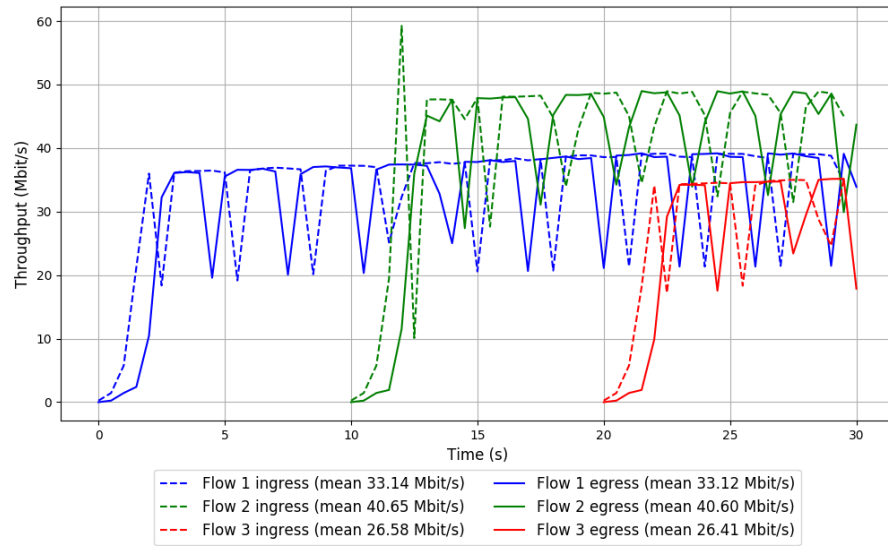
-- Flow 3:

Average throughput: 26.41 Mbit/s

95th percentile per-packet one-way delay: 137.569 ms

Loss rate: 3.34%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 18:25:36

End at: 2018-06-06 18:26:06

Local clock offset: -0.555 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 137.163 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 138.590 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 136.479 ms

Loss rate: 1.53%

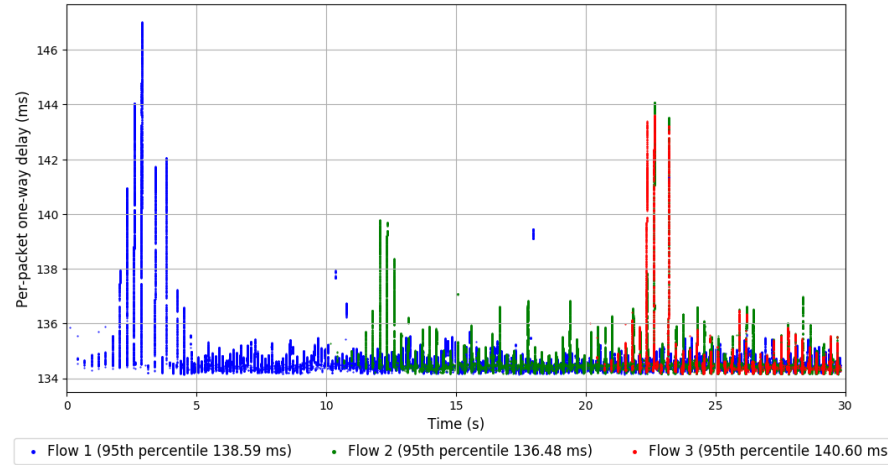
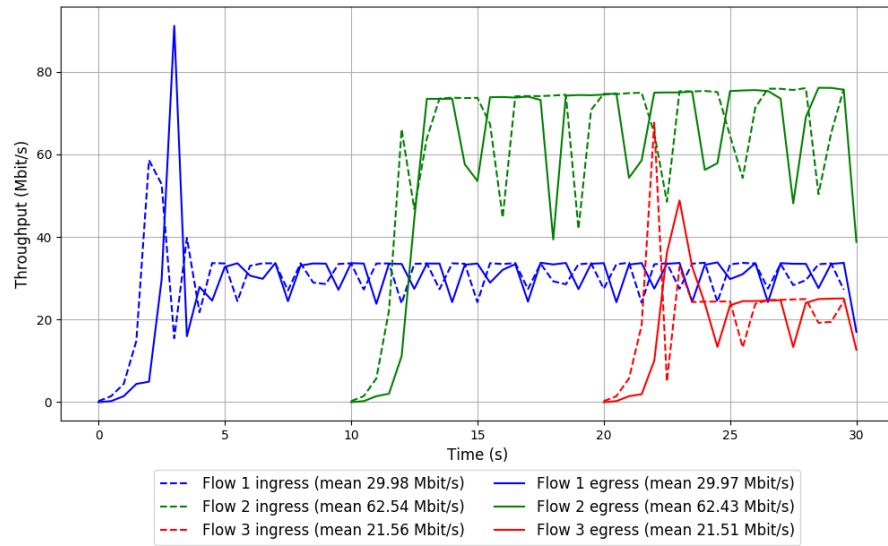
-- Flow 3:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 140.599 ms

Loss rate: 2.95%

Run 3: Report of TCP Vegas — Data Link

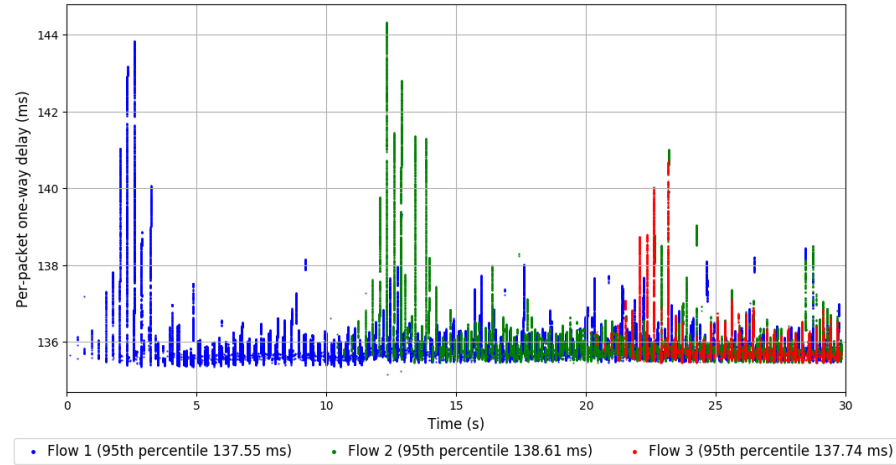
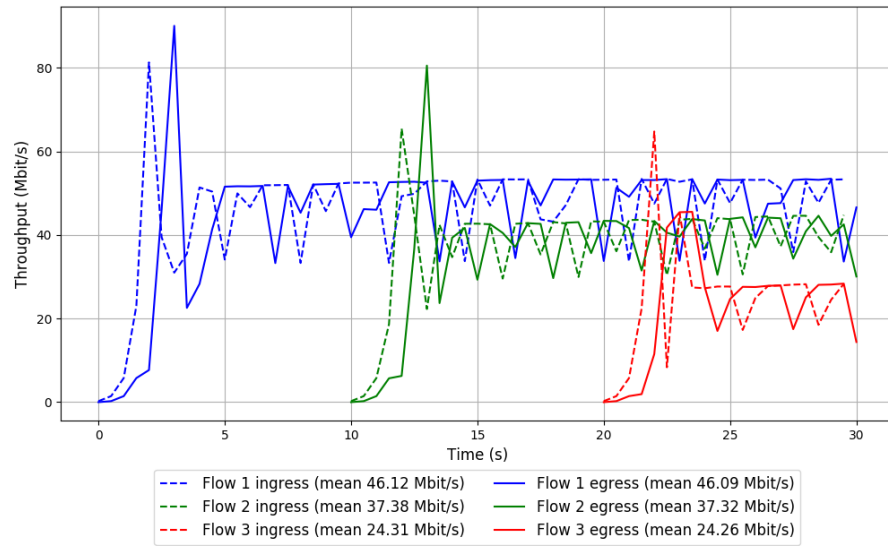


Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 18:50:16
End at: 2018-06-06 18:50:46
Local clock offset: -0.24 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.73 Mbit/s
95th percentile per-packet one-way delay: 137.934 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 137.551 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 138.611 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 137.736 ms
Loss rate: 2.95%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 19:15:03

End at: 2018-06-06 19:15:33

Local clock offset: -0.465 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 140.732 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 137.064 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 139.114 ms

Loss rate: 1.47%

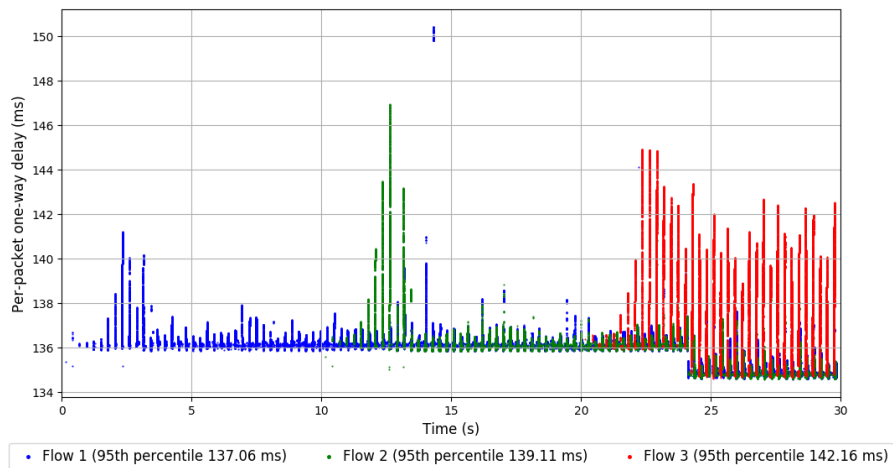
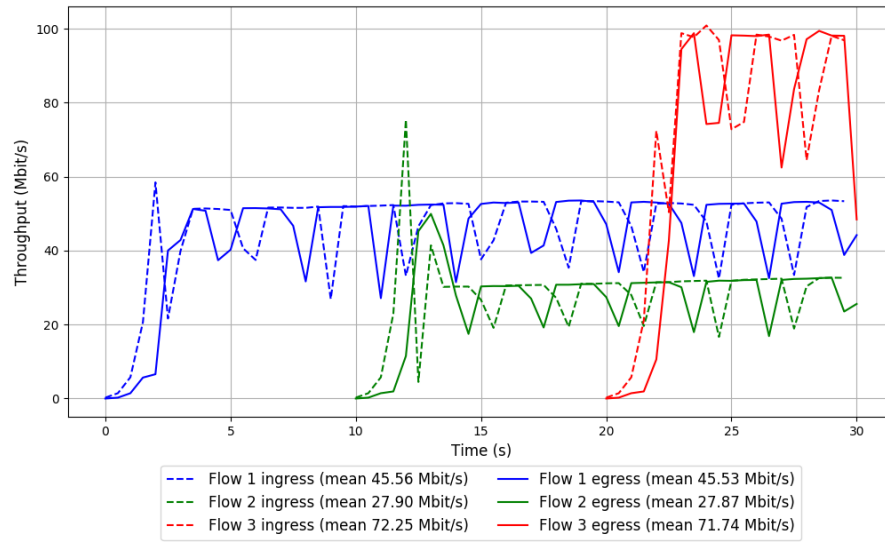
-- Flow 3:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 142.158 ms

Loss rate: 3.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 19:40:19

End at: 2018-06-06 19:40:49

Local clock offset: -0.926 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.63 Mbit/s

95th percentile per-packet one-way delay: 142.112 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 140.500 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 81.45 Mbit/s

95th percentile per-packet one-way delay: 142.624 ms

Loss rate: 1.54%

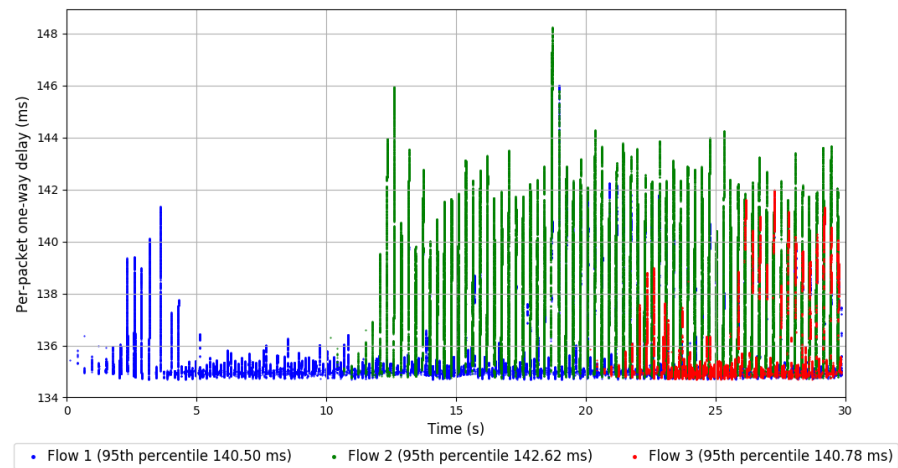
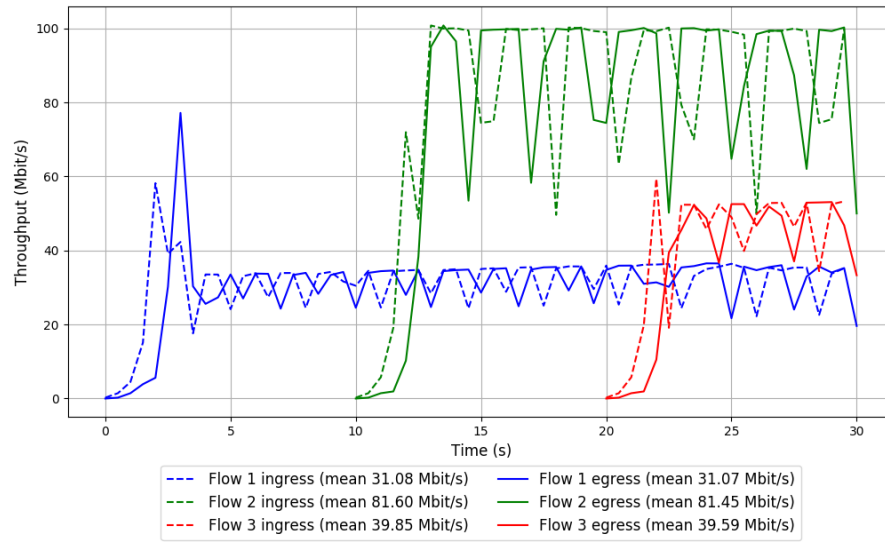
-- Flow 3:

Average throughput: 39.59 Mbit/s

95th percentile per-packet one-way delay: 140.777 ms

Loss rate: 3.37%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 20:05:30

End at: 2018-06-06 20:06:00

Local clock offset: -0.811 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.68 Mbit/s

95th percentile per-packet one-way delay: 137.334 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 137.393 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 137.149 ms

Loss rate: 1.46%

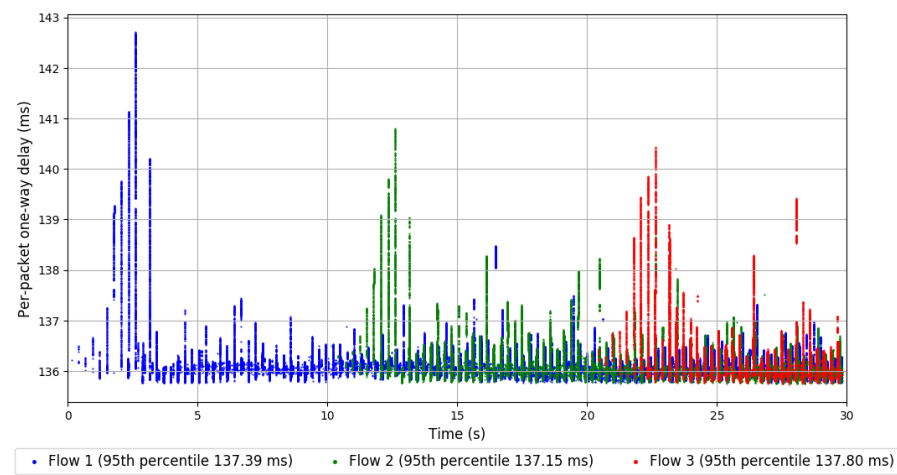
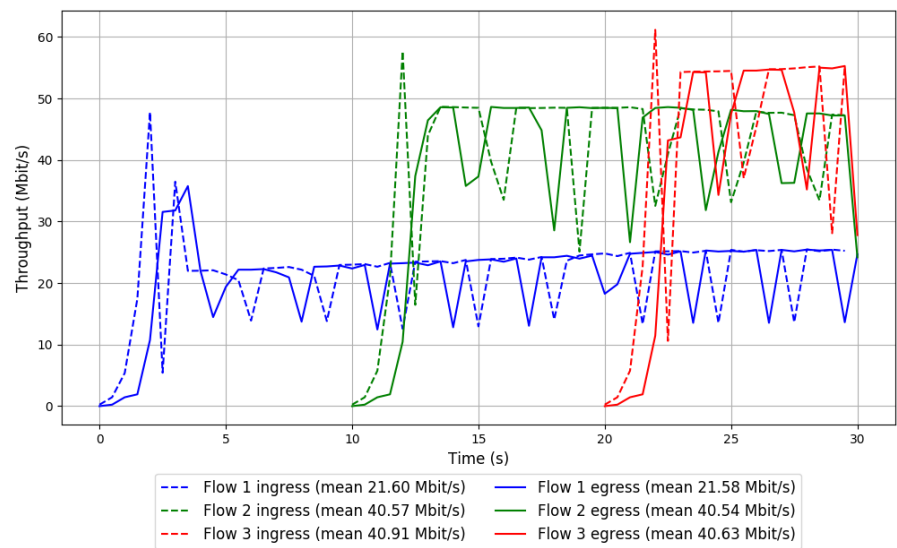
-- Flow 3:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 137.798 ms

Loss rate: 3.40%

Run 7: Report of TCP Vegas — Data Link

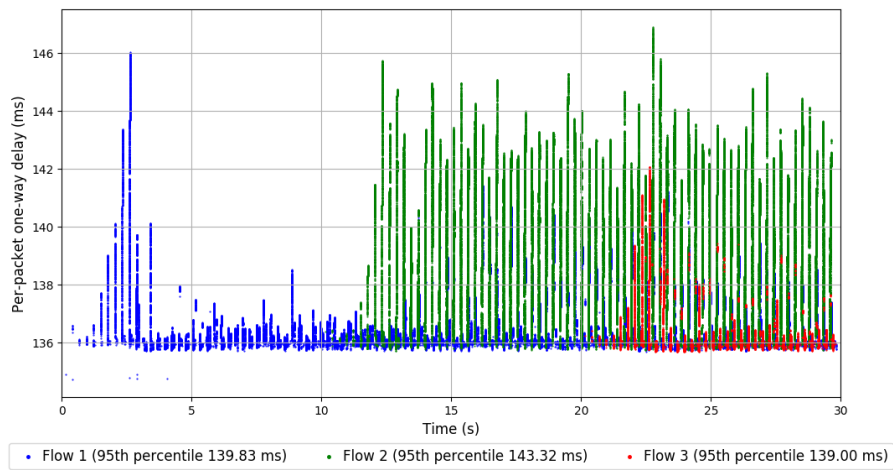
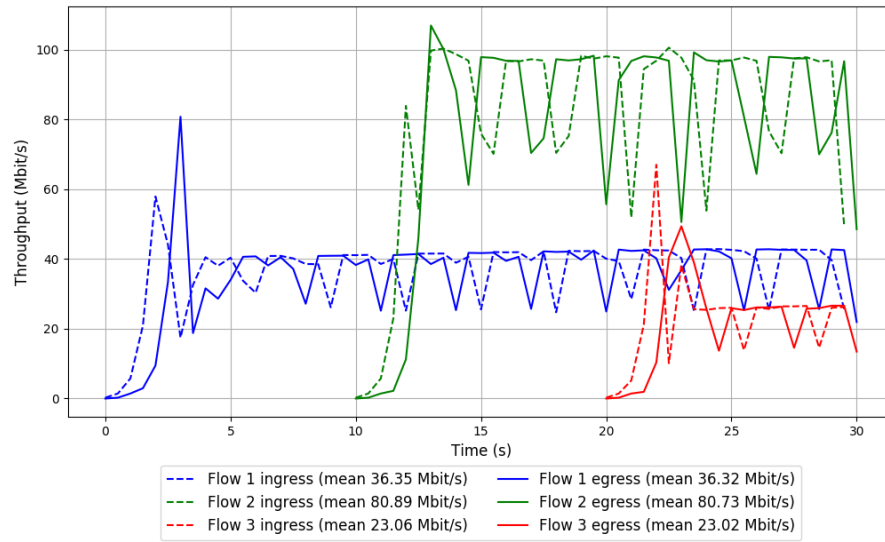


Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 20:30:20
End at: 2018-06-06 20:30:50
Local clock offset: 0.283 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 142.862 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 36.32 Mbit/s
95th percentile per-packet one-way delay: 139.833 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 143.323 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 138.997 ms
Loss rate: 2.92%

Run 8: Report of TCP Vegas — Data Link

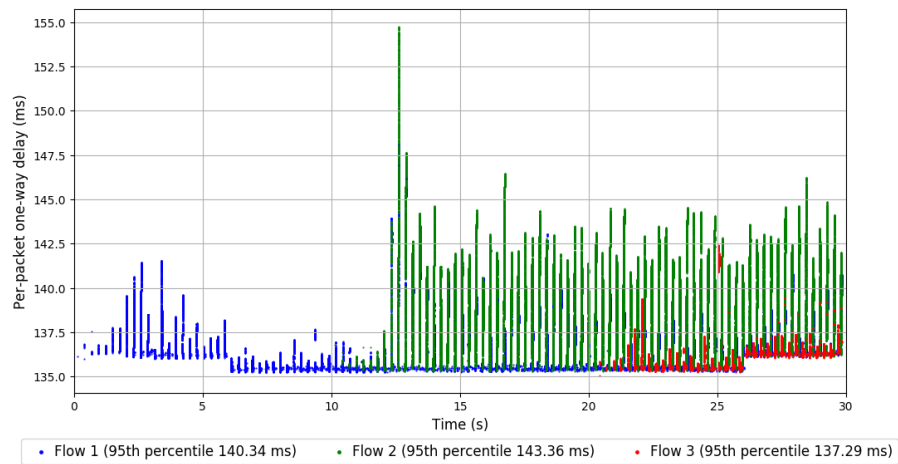
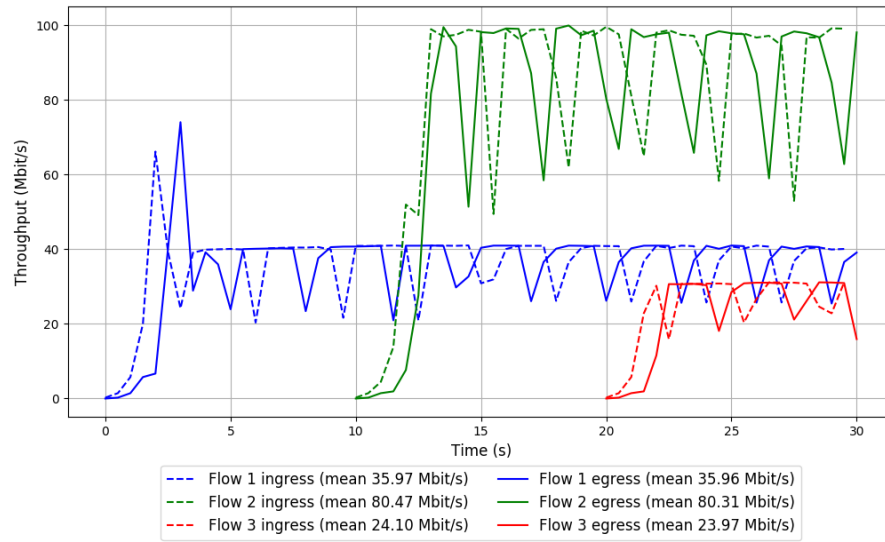


Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 20:55:31
End at: 2018-06-06 20:56:01
Local clock offset: 0.725 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-06 23:34:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 142.793 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 140.338 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 143.359 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 137.290 ms
Loss rate: 3.25%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 21:20:33

End at: 2018-06-06 21:21:03

Local clock offset: -0.134 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-06 23:34:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 137.719 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 138.132 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 137.040 ms

Loss rate: 1.41%

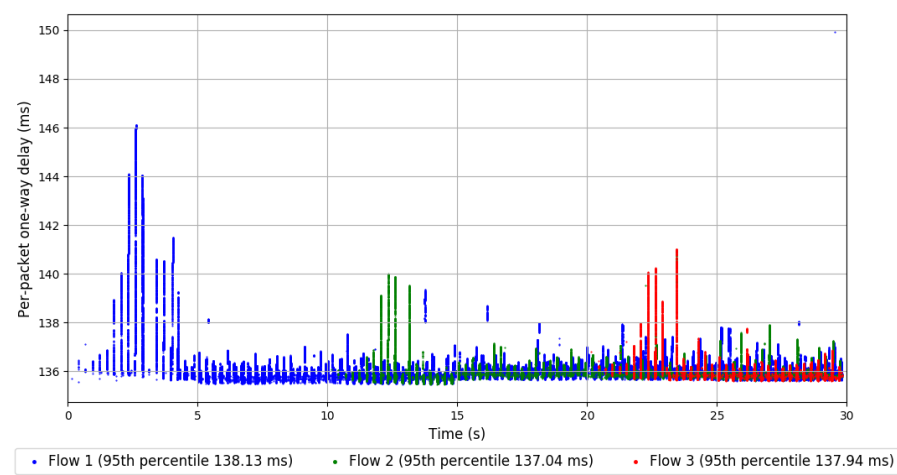
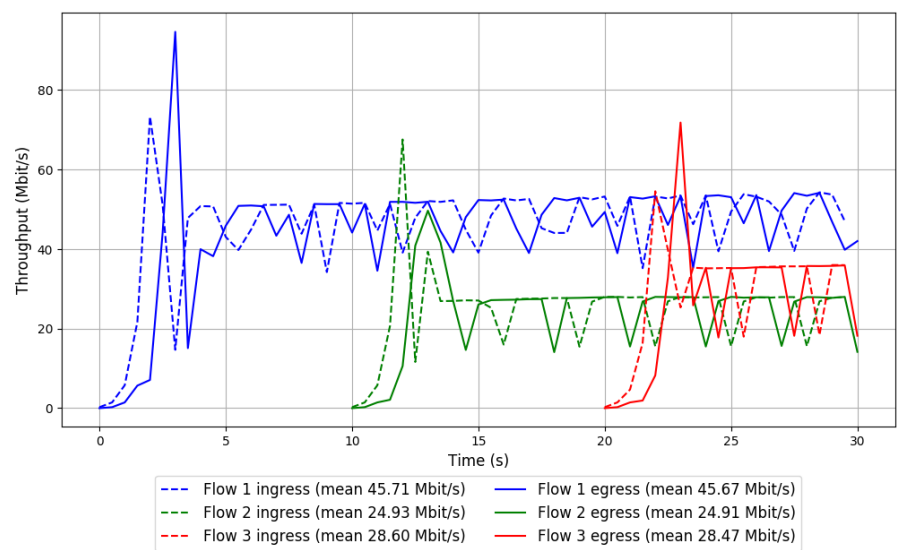
-- Flow 3:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 137.942 ms

Loss rate: 3.18%

Run 10: Report of TCP Vegas — Data Link

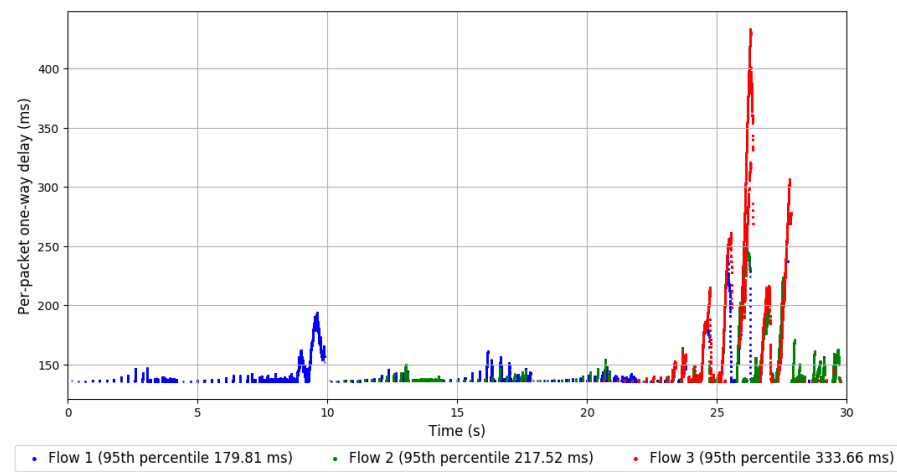
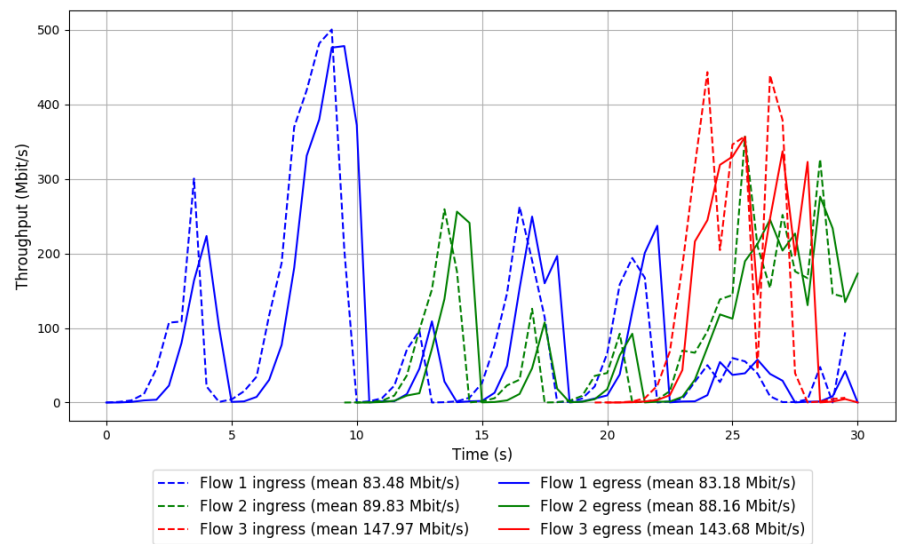


Run 1: Statistics of Verus

Start at: 2018-06-06 17:52:46
End at: 2018-06-06 17:53:16
Local clock offset: 0.514 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-06-06 23:35:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 188.06 Mbit/s
95th percentile per-packet one-way delay: 246.945 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 83.18 Mbit/s
95th percentile per-packet one-way delay: 179.805 ms
Loss rate: 1.99%
-- Flow 2:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 217.517 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 143.68 Mbit/s
95th percentile per-packet one-way delay: 333.657 ms
Loss rate: 2.96%

Run 1: Report of Verus — Data Link

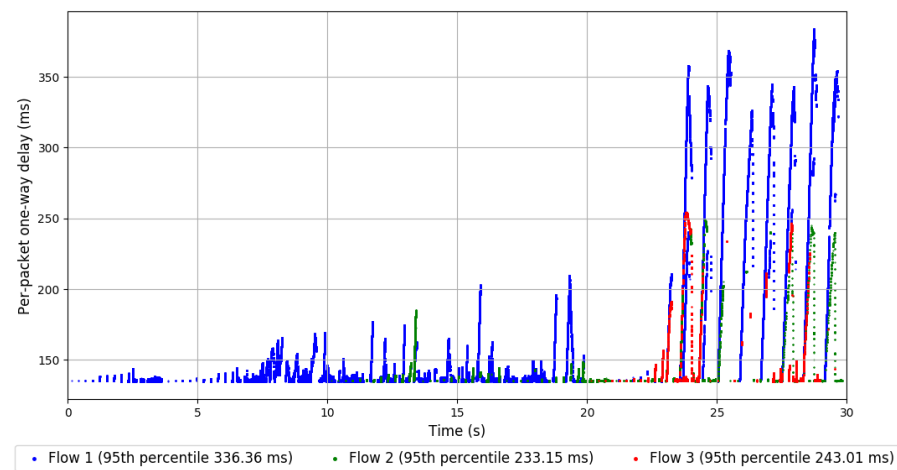
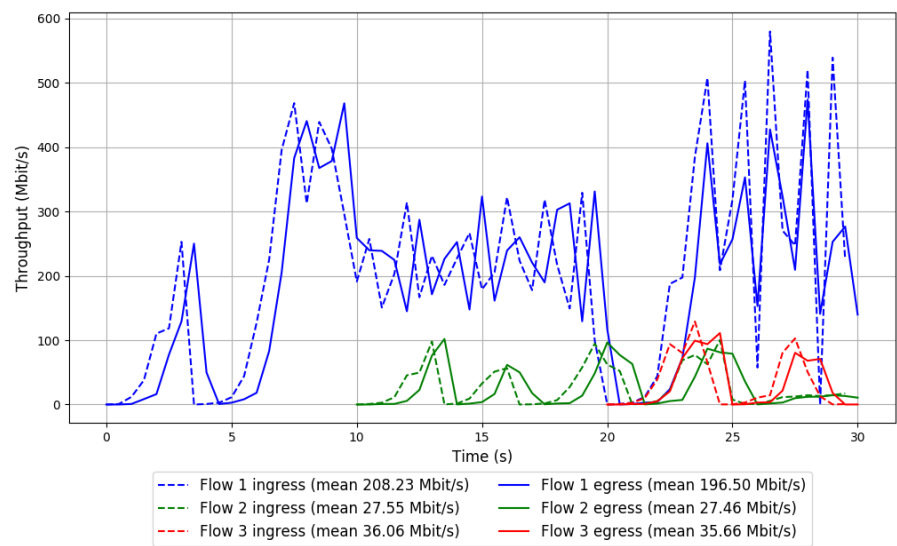


Run 2: Statistics of Verus

Start at: 2018-06-06 18:17:47
End at: 2018-06-06 18:18:17
Local clock offset: 0.017 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-06-06 23:36:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 224.91 Mbit/s
95th percentile per-packet one-way delay: 334.353 ms
Loss rate: 6.44%
-- Flow 1:
Average throughput: 196.50 Mbit/s
95th percentile per-packet one-way delay: 336.359 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 233.147 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 243.009 ms
Loss rate: 3.89%

Run 2: Report of Verus — Data Link

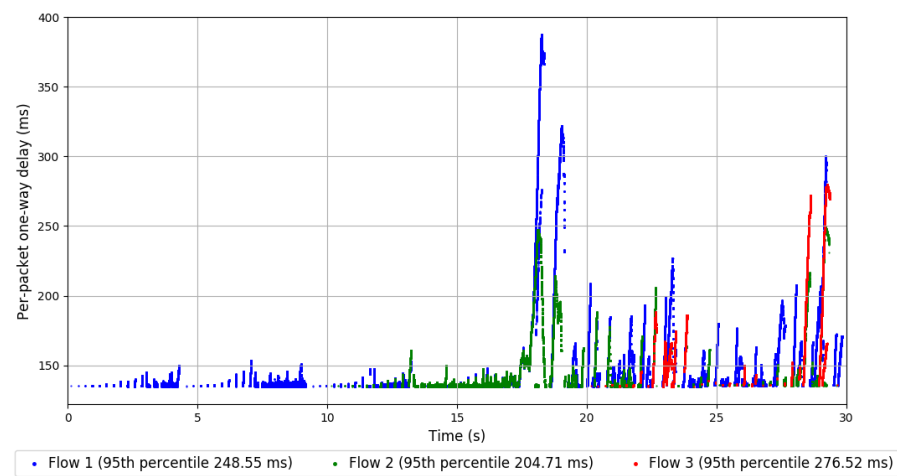
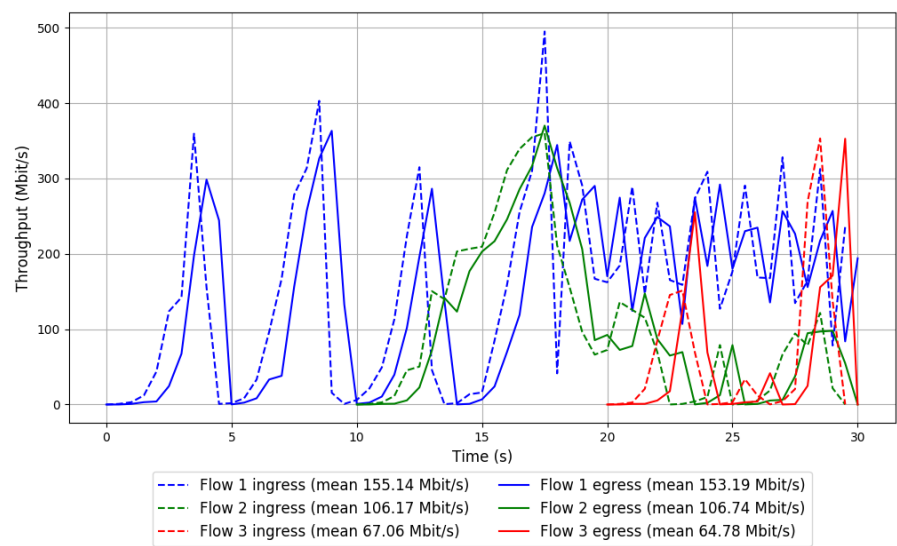


Run 3: Statistics of Verus

Start at: 2018-06-06 18:42:23
End at: 2018-06-06 18:42:53
Local clock offset: -0.363 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2018-06-06 23:37:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.84 Mbit/s
95th percentile per-packet one-way delay: 246.899 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 153.19 Mbit/s
95th percentile per-packet one-way delay: 248.553 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 106.74 Mbit/s
95th percentile per-packet one-way delay: 204.709 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 276.522 ms
Loss rate: 6.09%

Run 3: Report of Verus — Data Link

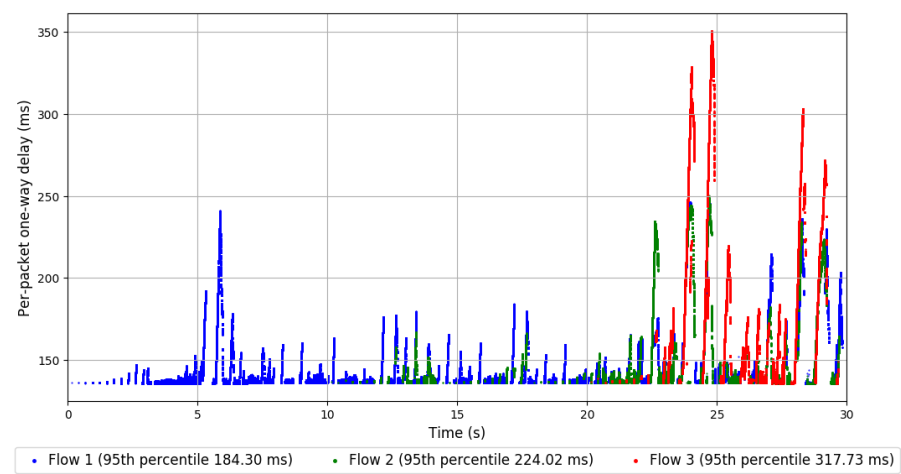
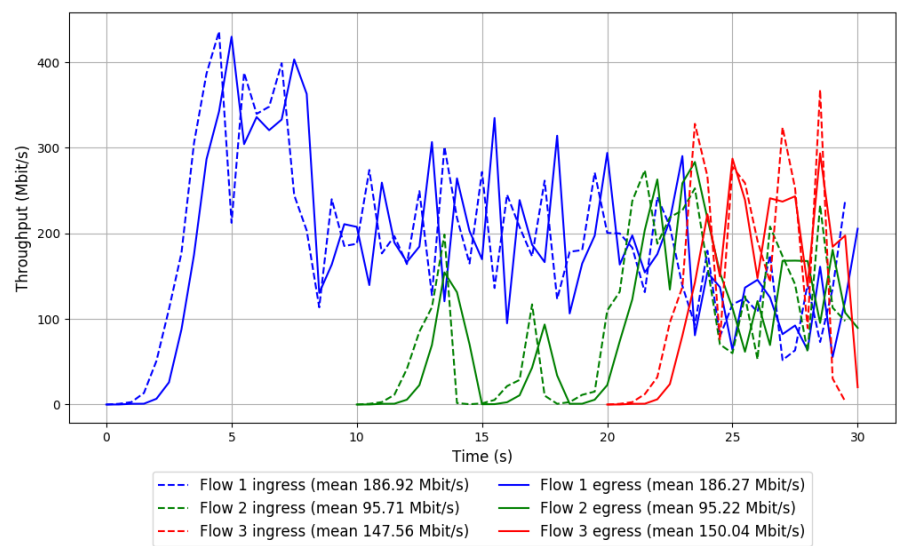


Run 4: Statistics of Verus

Start at: 2018-06-06 19:07:31
End at: 2018-06-06 19:08:01
Local clock offset: -0.423 ms
Remote clock offset: -0.624 ms

Below is generated by plot.py at 2018-06-06 23:38:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.18 Mbit/s
95th percentile per-packet one-way delay: 230.825 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 186.27 Mbit/s
95th percentile per-packet one-way delay: 184.299 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 224.016 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 150.04 Mbit/s
95th percentile per-packet one-way delay: 317.731 ms
Loss rate: 1.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-06 19:32:28

End at: 2018-06-06 19:32:59

Local clock offset: -0.84 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-06 23:38:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.33 Mbit/s

95th percentile per-packet one-way delay: 188.887 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 193.85 Mbit/s

95th percentile per-packet one-way delay: 184.519 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 312.423 ms

Loss rate: 5.25%

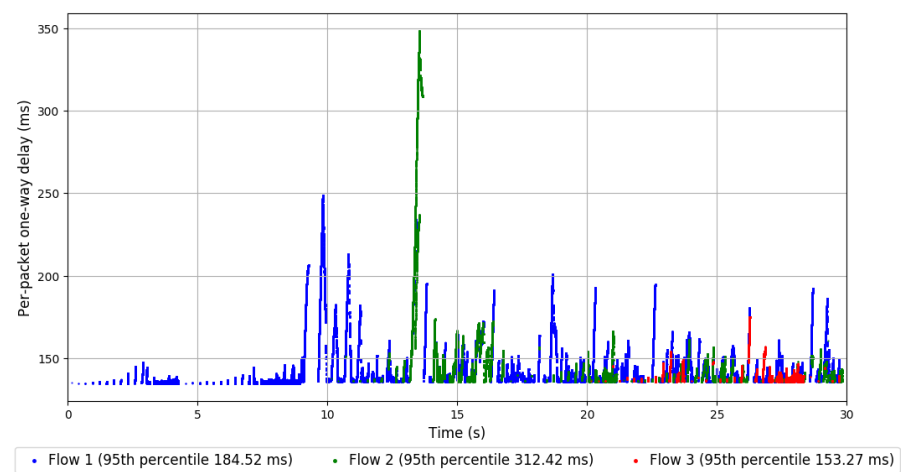
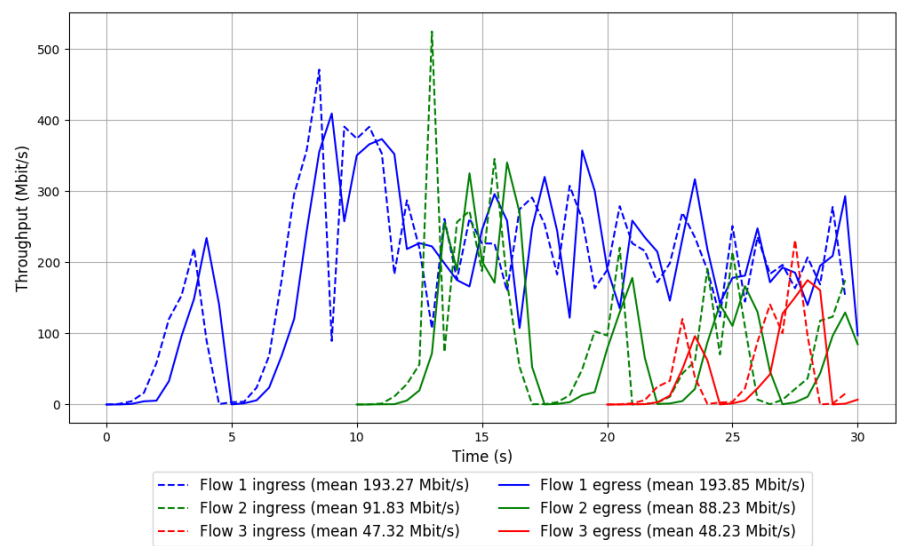
-- Flow 3:

Average throughput: 48.23 Mbit/s

95th percentile per-packet one-way delay: 153.269 ms

Loss rate: 0.90%

Run 5: Report of Verus — Data Link

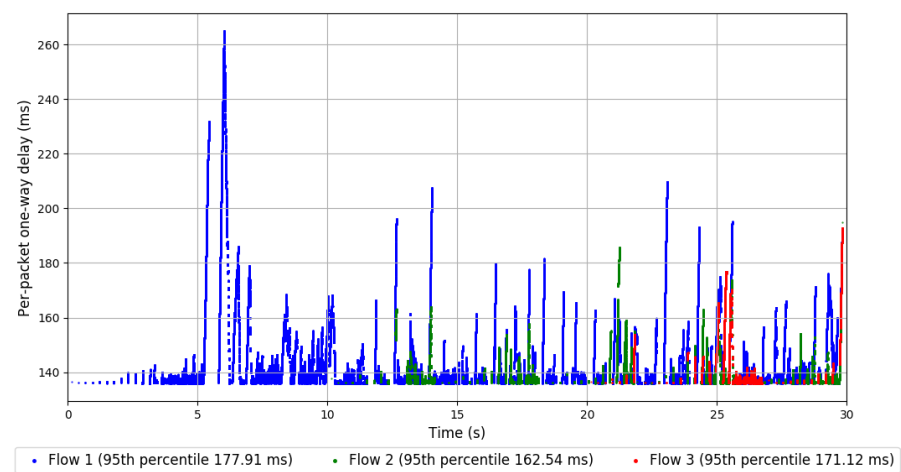
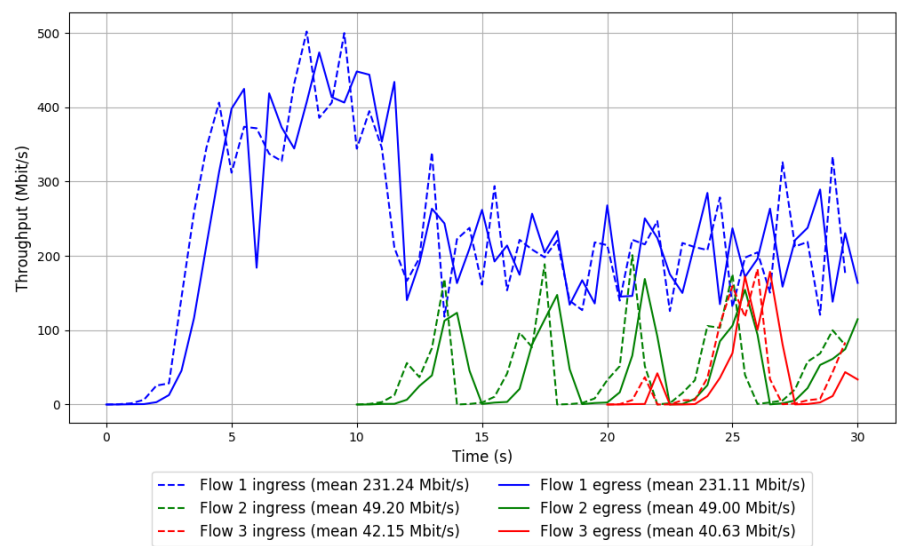


Run 6: Statistics of Verus

Start at: 2018-06-06 19:57:43
End at: 2018-06-06 19:58:13
Local clock offset: -0.571 ms
Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-06 23:38:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.78 Mbit/s
95th percentile per-packet one-way delay: 175.618 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 231.11 Mbit/s
95th percentile per-packet one-way delay: 177.908 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 49.00 Mbit/s
95th percentile per-packet one-way delay: 162.542 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 171.119 ms
Loss rate: 5.97%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-06 20:22:46

End at: 2018-06-06 20:23:16

Local clock offset: -0.453 ms

Remote clock offset: 0.388 ms

Below is generated by plot.py at 2018-06-06 23:38:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.90 Mbit/s

95th percentile per-packet one-way delay: 232.605 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 162.463 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 101.24 Mbit/s

95th percentile per-packet one-way delay: 279.181 ms

Loss rate: 2.01%

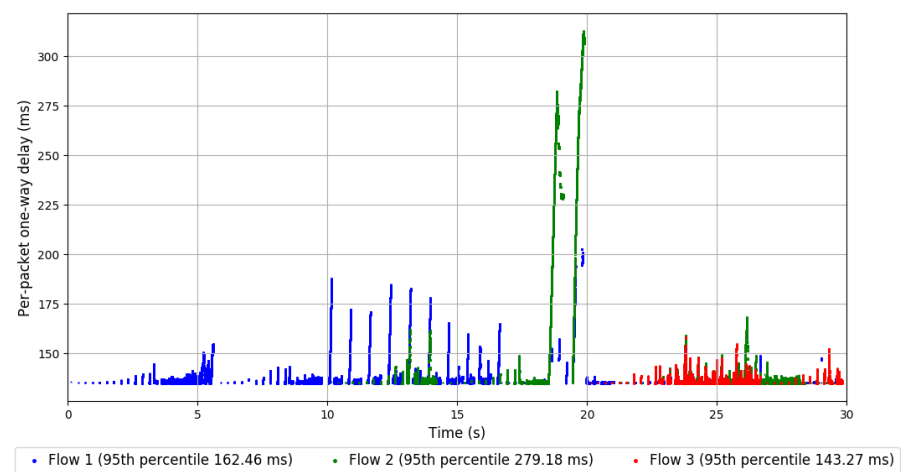
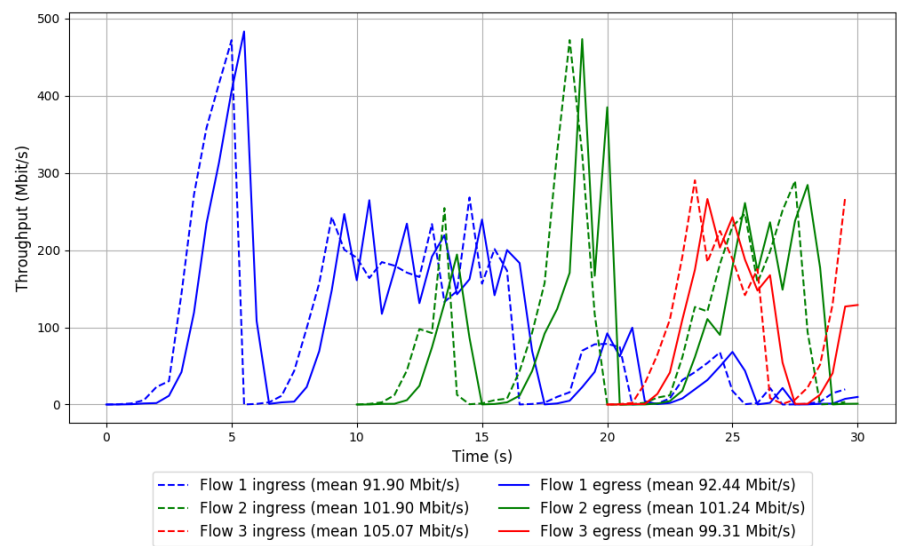
-- Flow 3:

Average throughput: 99.31 Mbit/s

95th percentile per-packet one-way delay: 143.266 ms

Loss rate: 8.06%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-06 20:47:41

End at: 2018-06-06 20:48:11

Local clock offset: 0.652 ms

Remote clock offset: 0.316 ms

Below is generated by plot.py at 2018-06-06 23:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.96 Mbit/s

95th percentile per-packet one-way delay: 219.858 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 114.93 Mbit/s

95th percentile per-packet one-way delay: 177.587 ms

Loss rate: 5.22%

-- Flow 2:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 254.013 ms

Loss rate: 0.00%

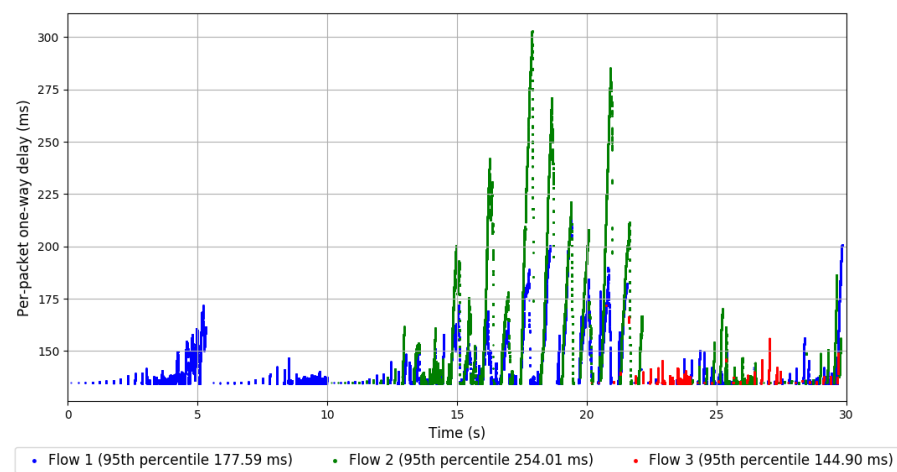
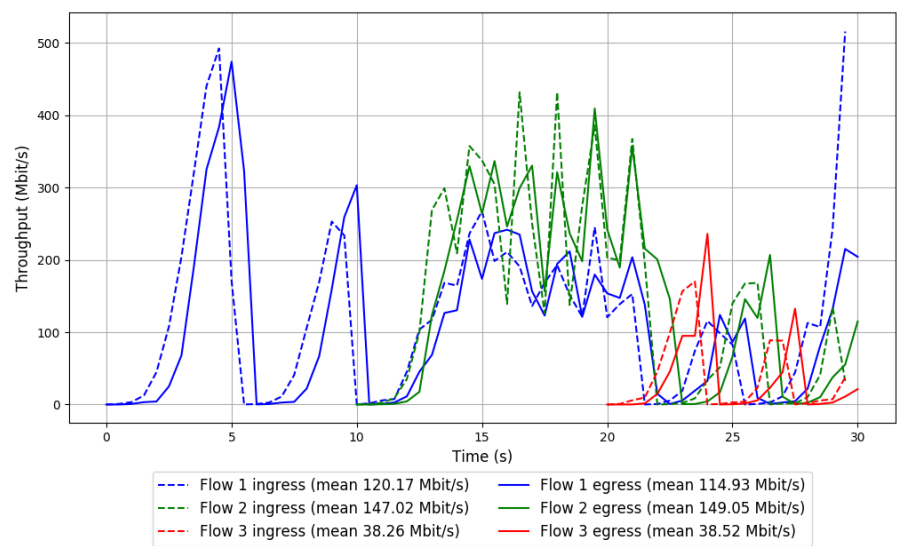
-- Flow 3:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 144.900 ms

Loss rate: 2.15%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-06 21:12:40

End at: 2018-06-06 21:13:10

Local clock offset: 0.204 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-06 23:41:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.54 Mbit/s

95th percentile per-packet one-way delay: 205.772 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 216.73 Mbit/s

95th percentile per-packet one-way delay: 209.818 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 180.173 ms

Loss rate: 0.03%

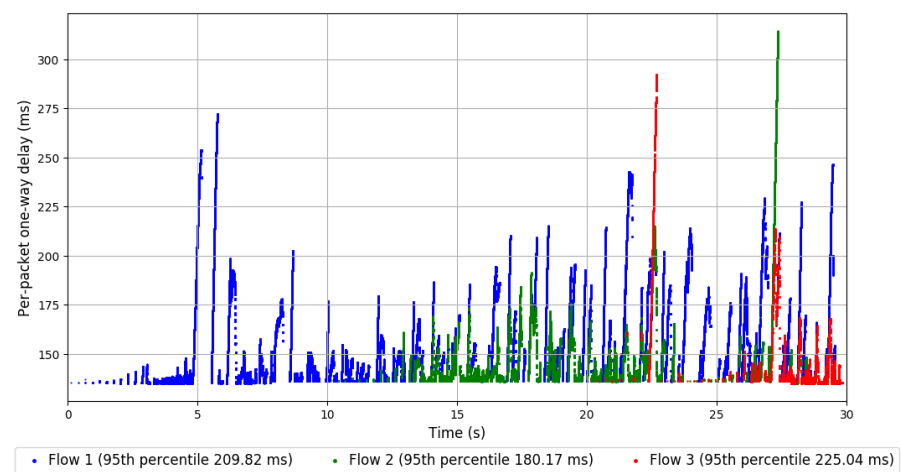
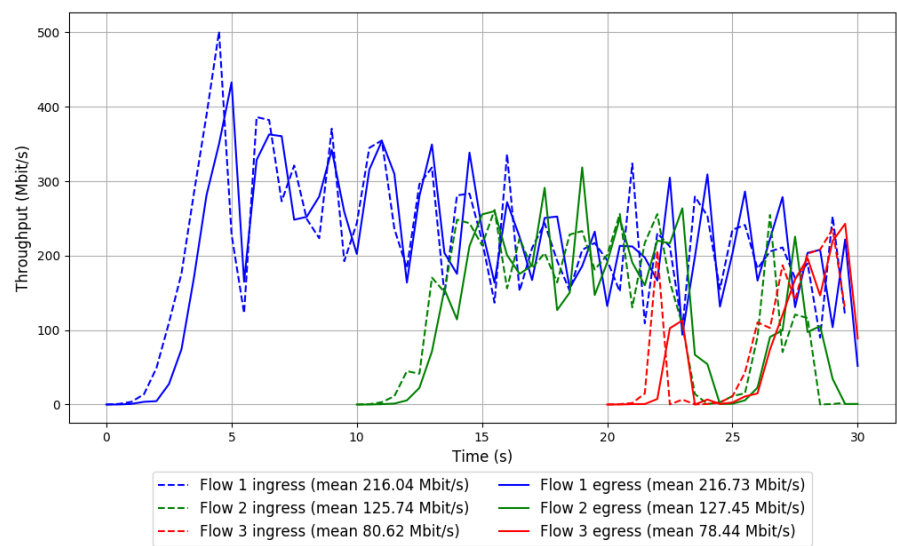
-- Flow 3:

Average throughput: 78.44 Mbit/s

95th percentile per-packet one-way delay: 225.044 ms

Loss rate: 5.37%

Run 9: Report of Verus — Data Link

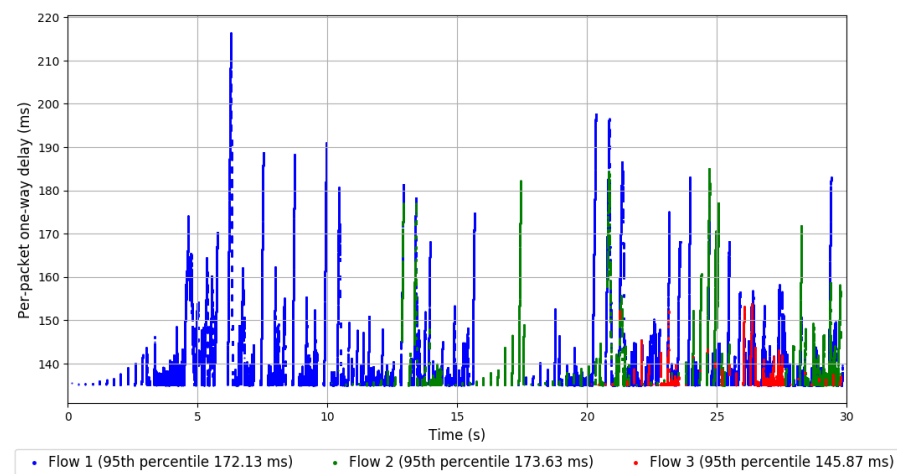
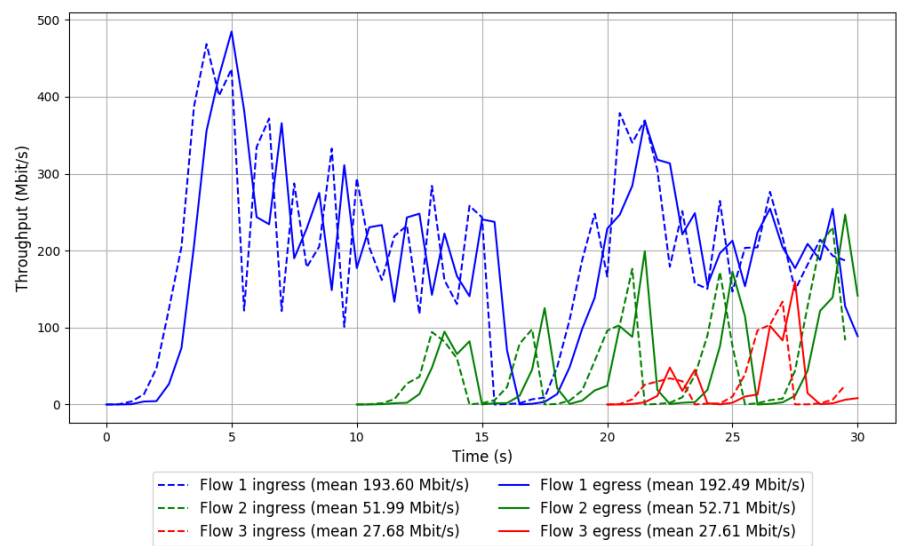


Run 10: Statistics of Verus

Start at: 2018-06-06 21:37:28
End at: 2018-06-06 21:37:58
Local clock offset: -0.308 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-06-06 23:41:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.25 Mbit/s
95th percentile per-packet one-way delay: 171.851 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 192.49 Mbit/s
95th percentile per-packet one-way delay: 172.135 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 173.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 145.868 ms
Loss rate: 3.05%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 17:33:54

End at: 2018-06-06 17:34:24

Local clock offset: 0.479 ms

Remote clock offset: 0.54 ms

Below is generated by plot.py at 2018-06-06 23:45:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.25 Mbit/s

95th percentile per-packet one-way delay: 144.679 ms

Loss rate: 2.04%

-- Flow 1:

Average throughput: 307.49 Mbit/s

95th percentile per-packet one-way delay: 159.951 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 235.34 Mbit/s

95th percentile per-packet one-way delay: 138.605 ms

Loss rate: 1.82%

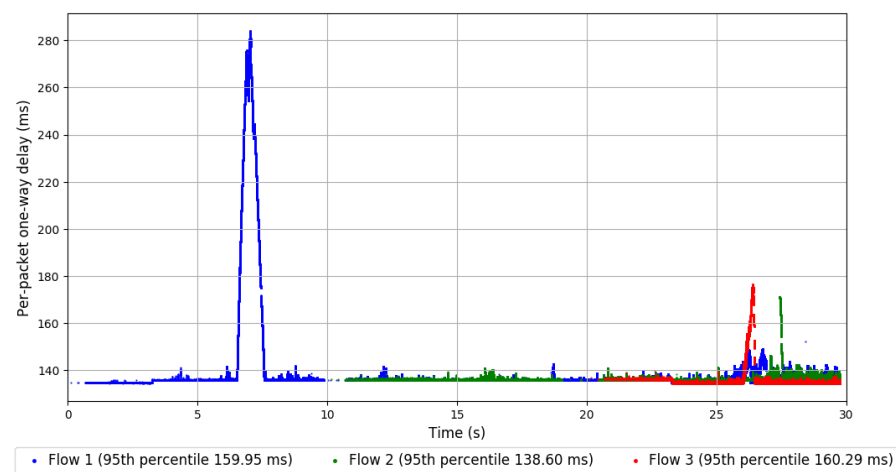
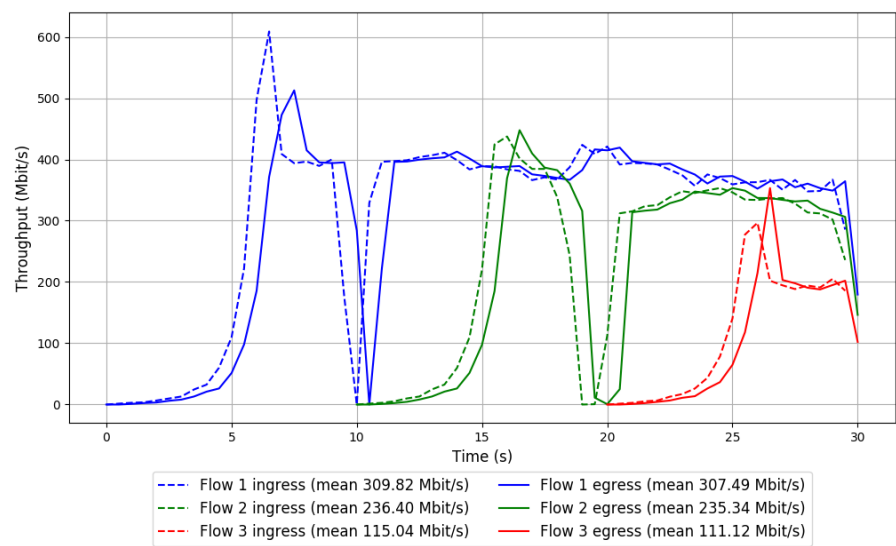
-- Flow 3:

Average throughput: 111.12 Mbit/s

95th percentile per-packet one-way delay: 160.290 ms

Loss rate: 6.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 17:58:37

End at: 2018-06-06 17:59:07

Local clock offset: 0.512 ms

Remote clock offset: 0.185 ms

Below is generated by plot.py at 2018-06-06 23:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 533.51 Mbit/s

95th percentile per-packet one-way delay: 150.288 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 324.19 Mbit/s

95th percentile per-packet one-way delay: 141.730 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 257.10 Mbit/s

95th percentile per-packet one-way delay: 207.584 ms

Loss rate: 1.96%

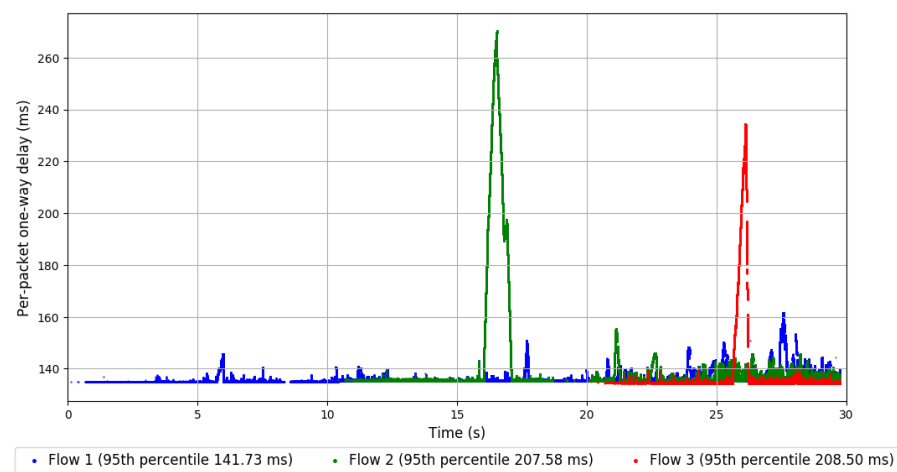
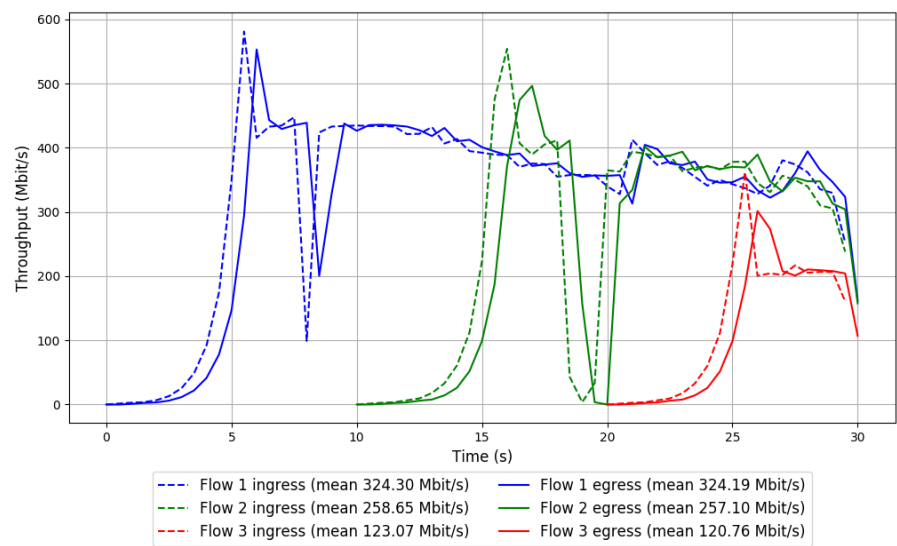
-- Flow 3:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 208.503 ms

Loss rate: 4.58%

Run 2: Report of PCC-Vivace — Data Link

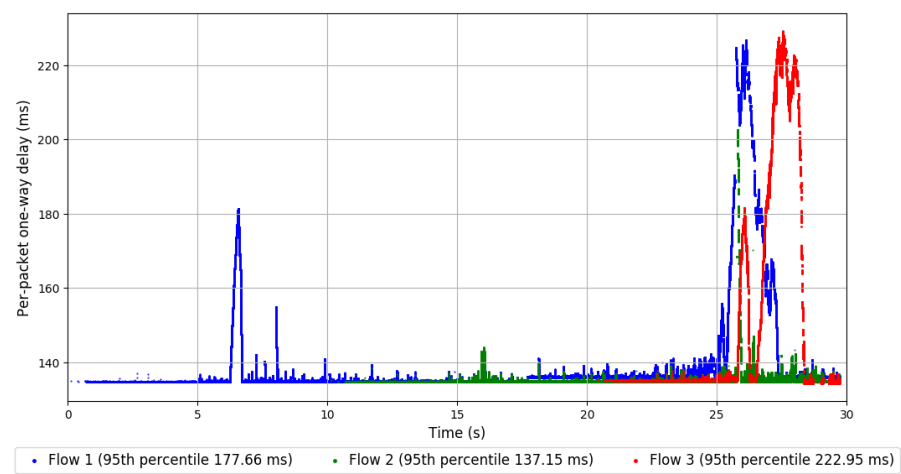
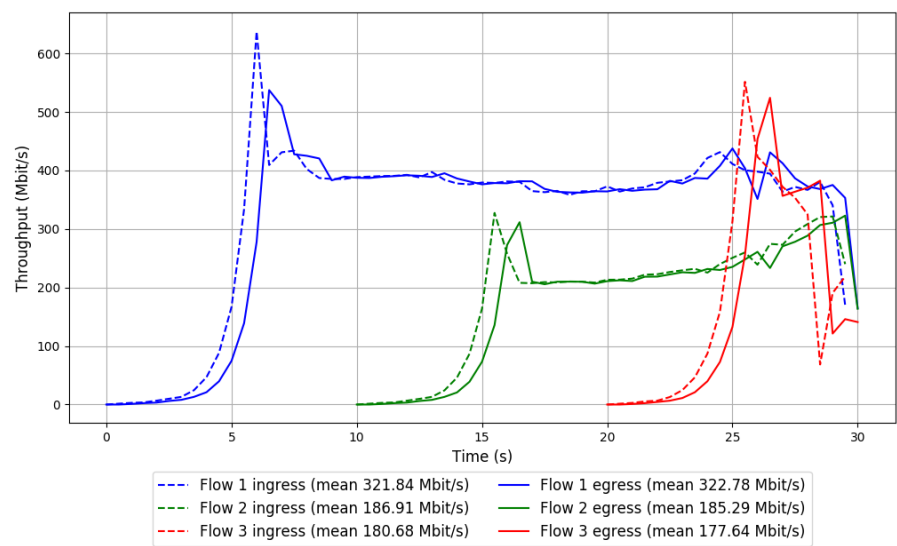


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 18:23:40
End at: 2018-06-06 18:24:10
Local clock offset: -0.418 ms
Remote clock offset: -0.393 ms

Below is generated by plot.py at 2018-06-06 23:47:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 502.95 Mbit/s
95th percentile per-packet one-way delay: 190.571 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 322.78 Mbit/s
95th percentile per-packet one-way delay: 177.656 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 185.29 Mbit/s
95th percentile per-packet one-way delay: 137.146 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 177.64 Mbit/s
95th percentile per-packet one-way delay: 222.954 ms
Loss rate: 4.39%

Run 3: Report of PCC-Vivace — Data Link

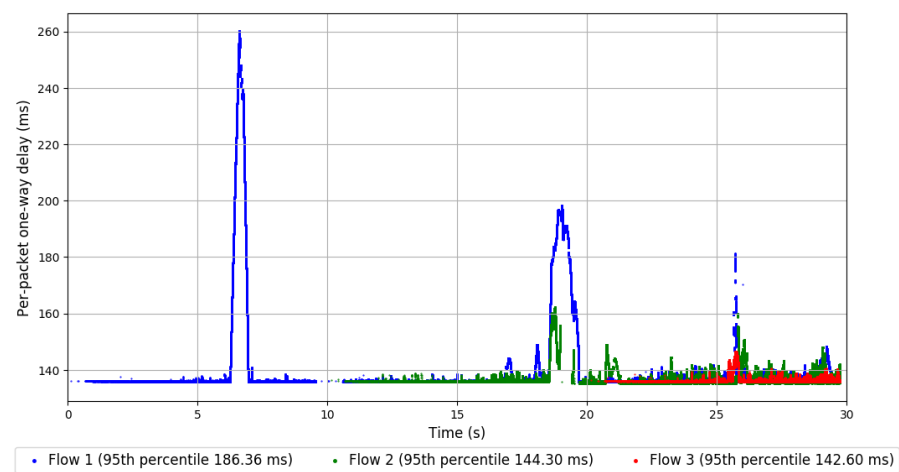
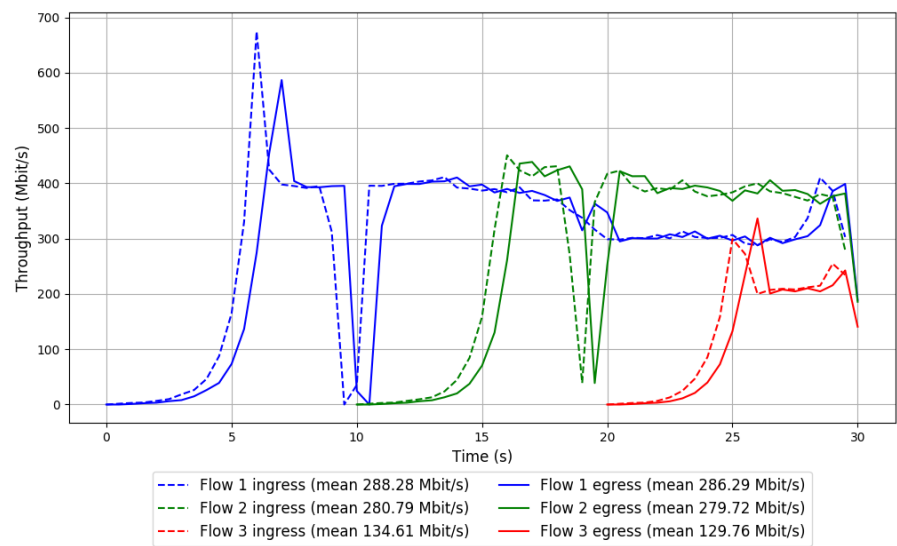


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 18:48:18
End at: 2018-06-06 18:48:48
Local clock offset: -0.401 ms
Remote clock offset: -0.554 ms

Below is generated by plot.py at 2018-06-06 23:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 513.47 Mbit/s
95th percentile per-packet one-way delay: 157.739 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 286.29 Mbit/s
95th percentile per-packet one-way delay: 186.359 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 279.72 Mbit/s
95th percentile per-packet one-way delay: 144.302 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 129.76 Mbit/s
95th percentile per-packet one-way delay: 142.598 ms
Loss rate: 6.30%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 19:13:10

End at: 2018-06-06 19:13:40

Local clock offset: -0.57 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-06 23:47:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 464.04 Mbit/s

95th percentile per-packet one-way delay: 143.357 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 314.75 Mbit/s

95th percentile per-packet one-way delay: 147.222 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 194.78 Mbit/s

95th percentile per-packet one-way delay: 137.223 ms

Loss rate: 1.97%

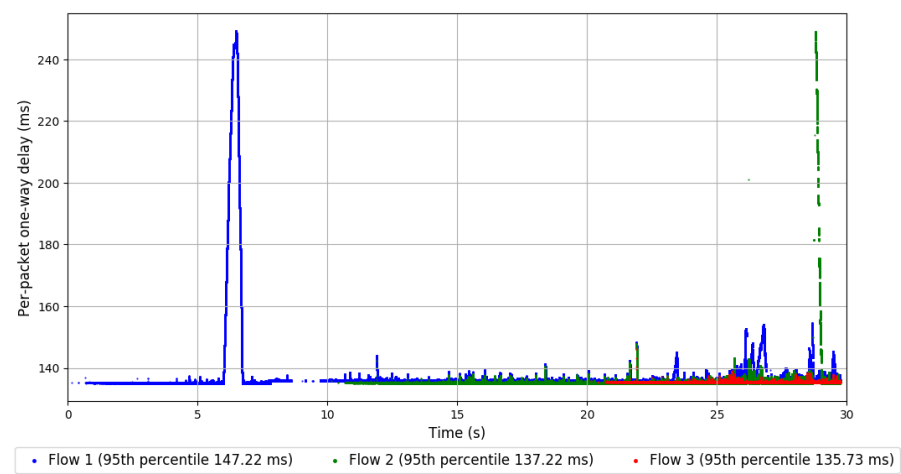
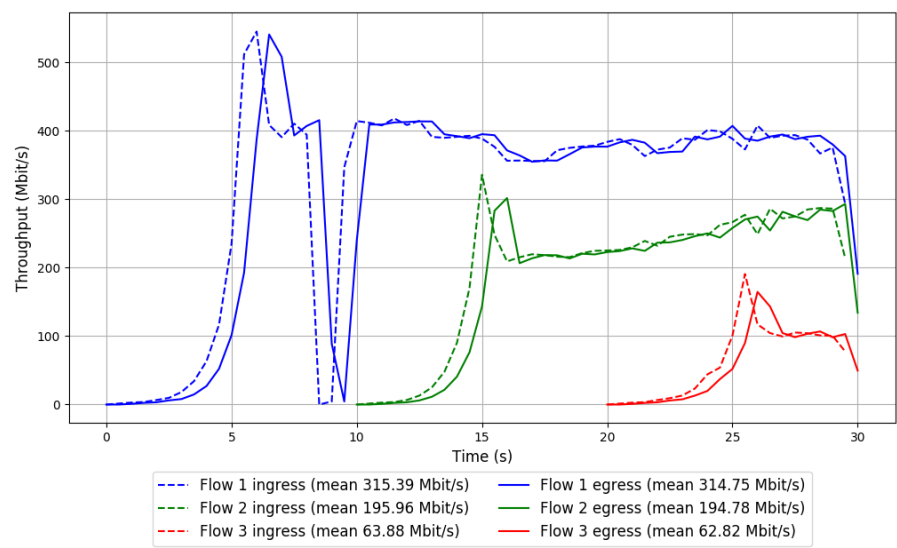
-- Flow 3:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 135.729 ms

Loss rate: 4.38%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 19:38:22

End at: 2018-06-06 19:38:52

Local clock offset: -0.547 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-06 23:47:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.14 Mbit/s

95th percentile per-packet one-way delay: 211.733 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 228.840 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 167.99 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 1.79%

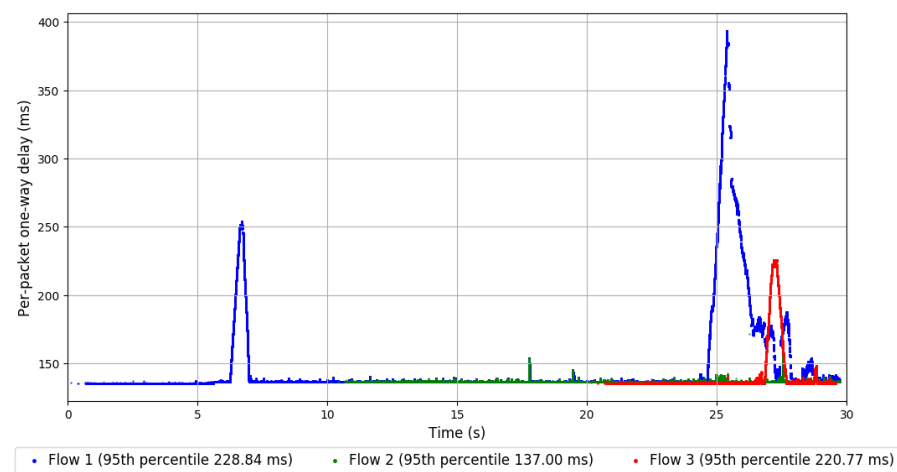
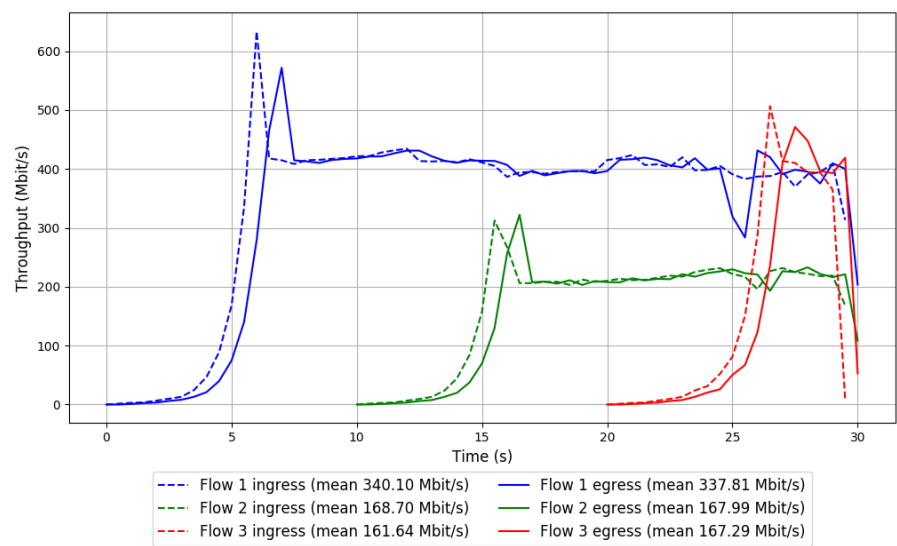
-- Flow 3:

Average throughput: 167.29 Mbit/s

95th percentile per-packet one-way delay: 220.772 ms

Loss rate: 0.24%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 20:03:37

End at: 2018-06-06 20:04:07

Local clock offset: -0.826 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-06-06 23:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.96 Mbit/s

95th percentile per-packet one-way delay: 146.540 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 312.67 Mbit/s

95th percentile per-packet one-way delay: 174.233 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 162.53 Mbit/s

95th percentile per-packet one-way delay: 137.355 ms

Loss rate: 1.66%

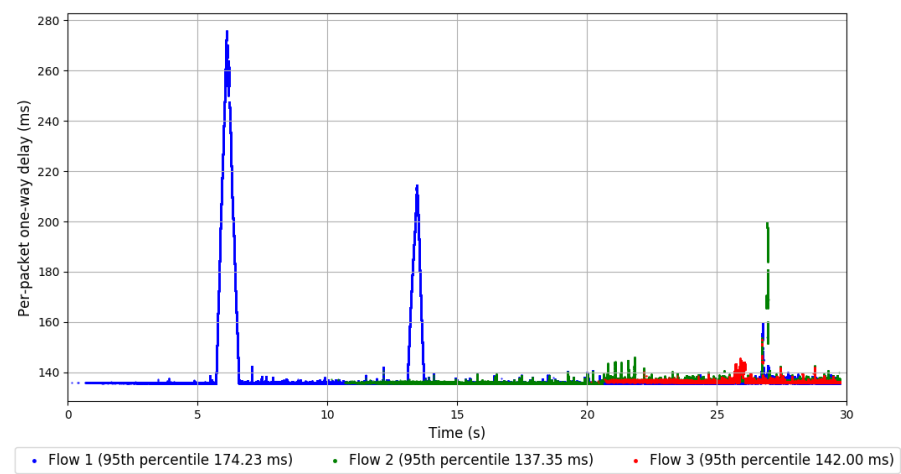
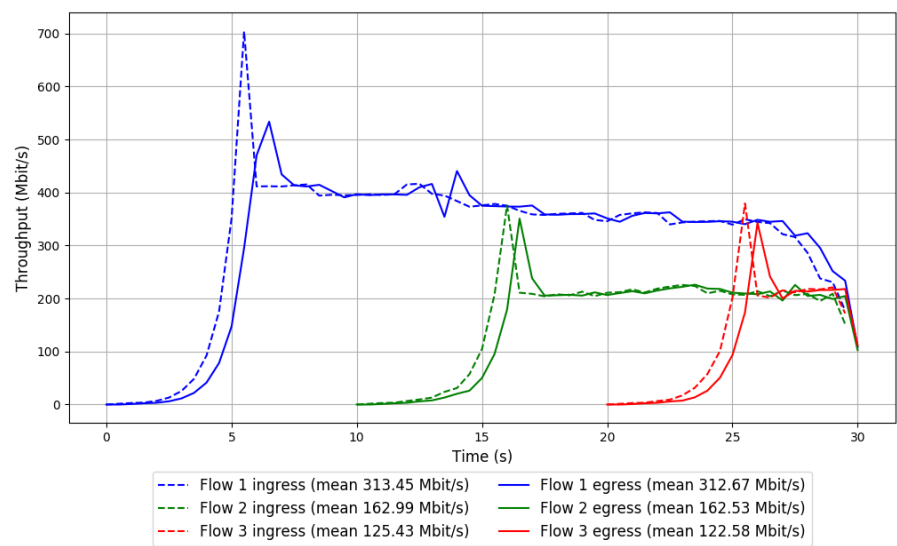
-- Flow 3:

Average throughput: 122.58 Mbit/s

95th percentile per-packet one-way delay: 142.003 ms

Loss rate: 4.98%

Run 7: Report of PCC-Vivace — Data Link

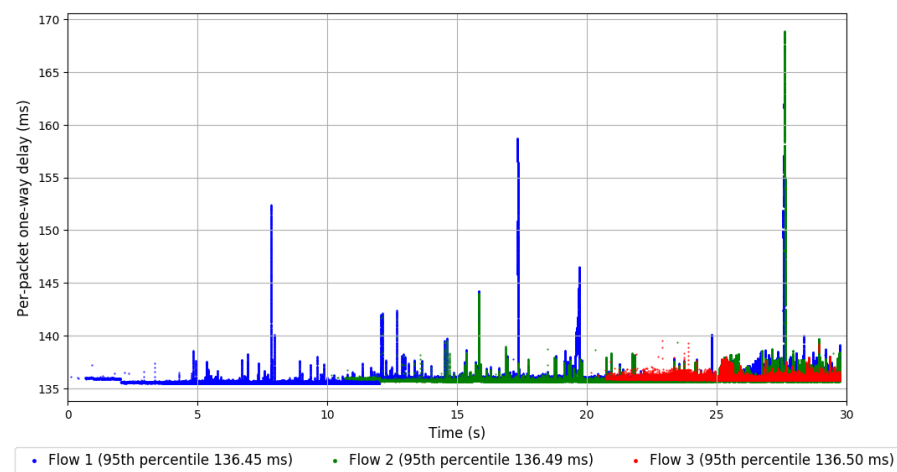
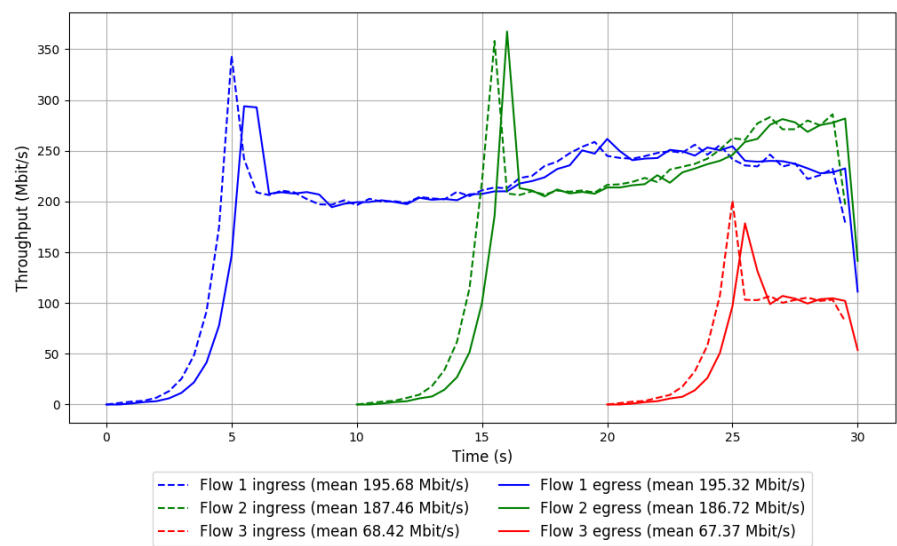


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 20:28:35
End at: 2018-06-06 20:29:05
Local clock offset: 0.142 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-06 23:48:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.76 Mbit/s
95th percentile per-packet one-way delay: 136.470 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 195.32 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 186.72 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 4.26%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 20:53:33

End at: 2018-06-06 20:54:03

Local clock offset: 0.568 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-06-06 23:49:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.55 Mbit/s

95th percentile per-packet one-way delay: 168.874 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 322.10 Mbit/s

95th percentile per-packet one-way delay: 192.220 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 260.49 Mbit/s

95th percentile per-packet one-way delay: 147.228 ms

Loss rate: 1.17%

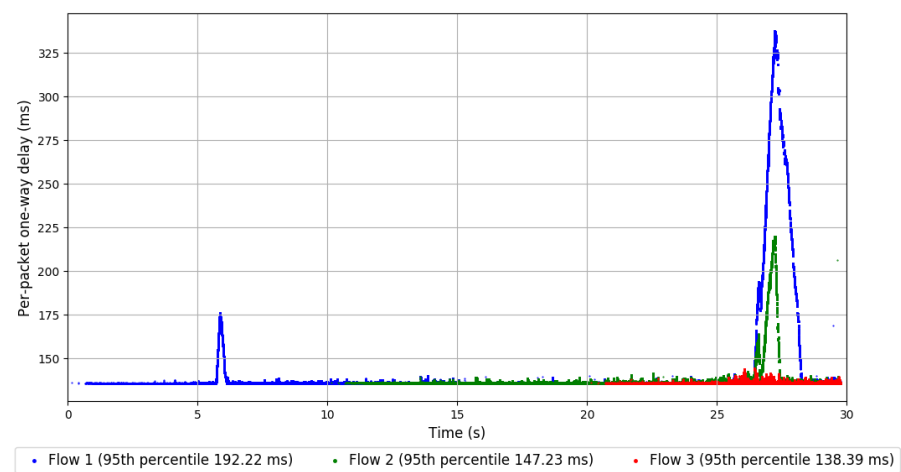
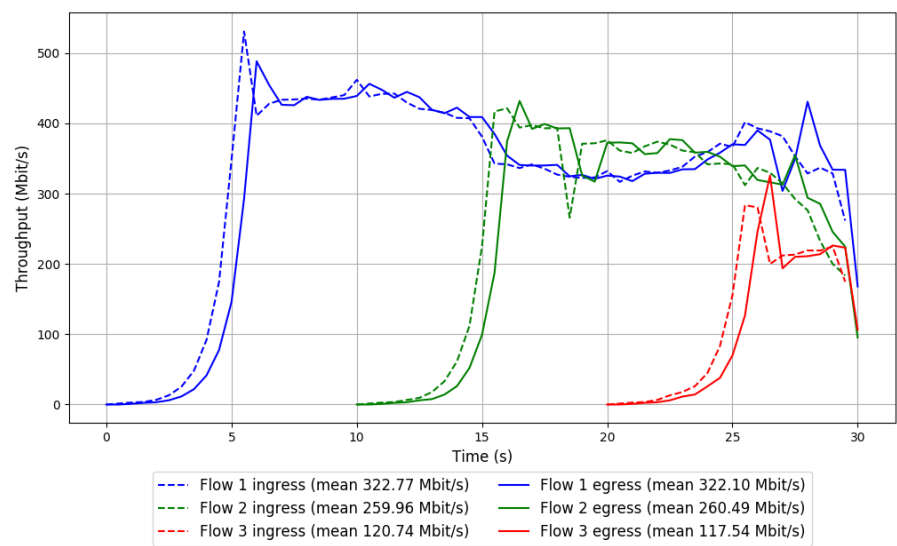
-- Flow 3:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 138.392 ms

Loss rate: 5.33%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 21:18:34

End at: 2018-06-06 21:19:04

Local clock offset: 0.174 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-06 23:49:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.15 Mbit/s

95th percentile per-packet one-way delay: 175.283 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 301.67 Mbit/s

95th percentile per-packet one-way delay: 145.008 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 264.00 Mbit/s

95th percentile per-packet one-way delay: 219.174 ms

Loss rate: 2.04%

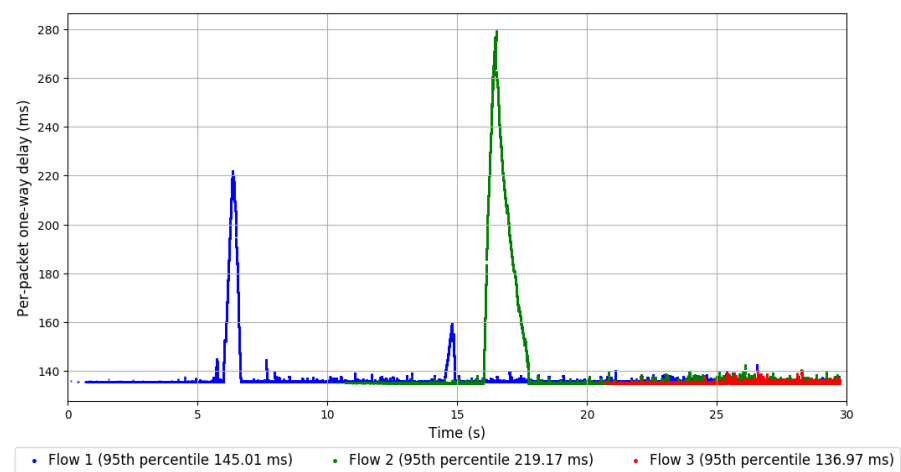
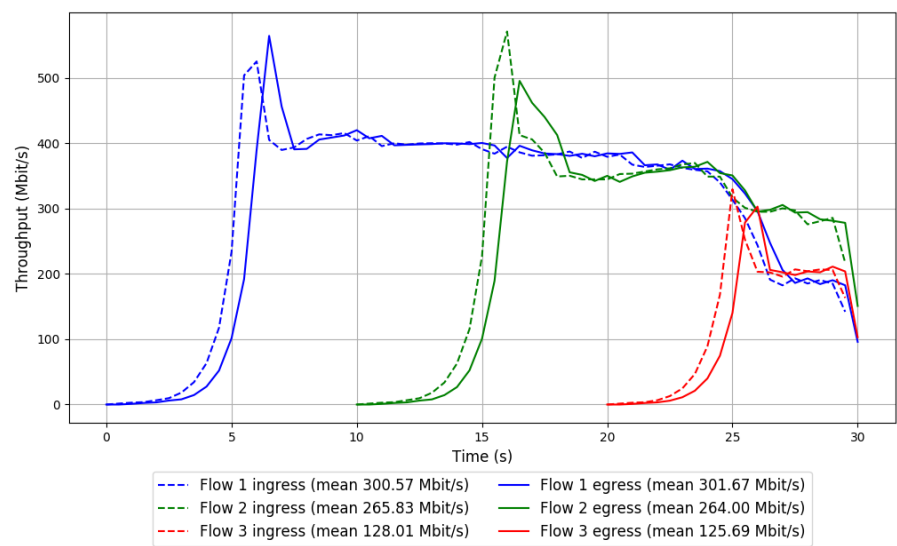
-- Flow 3:

Average throughput: 125.69 Mbit/s

95th percentile per-packet one-way delay: 136.971 ms

Loss rate: 4.52%

Run 10: Report of PCC-Vivace — Data Link

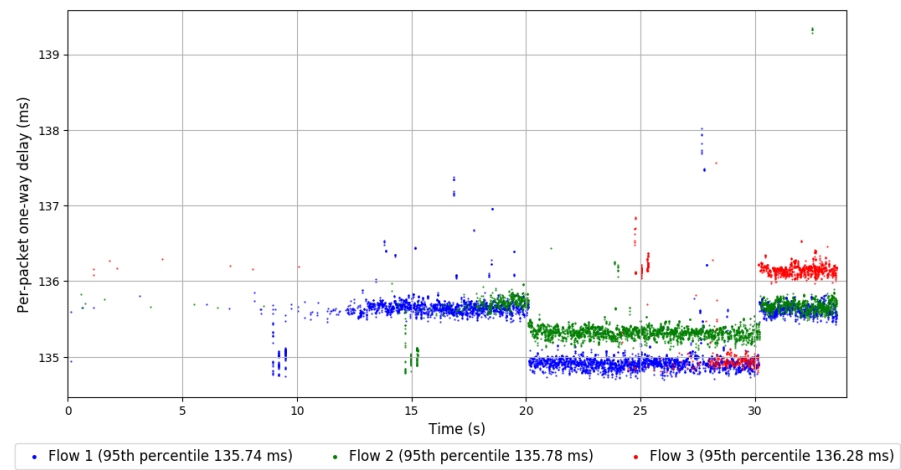
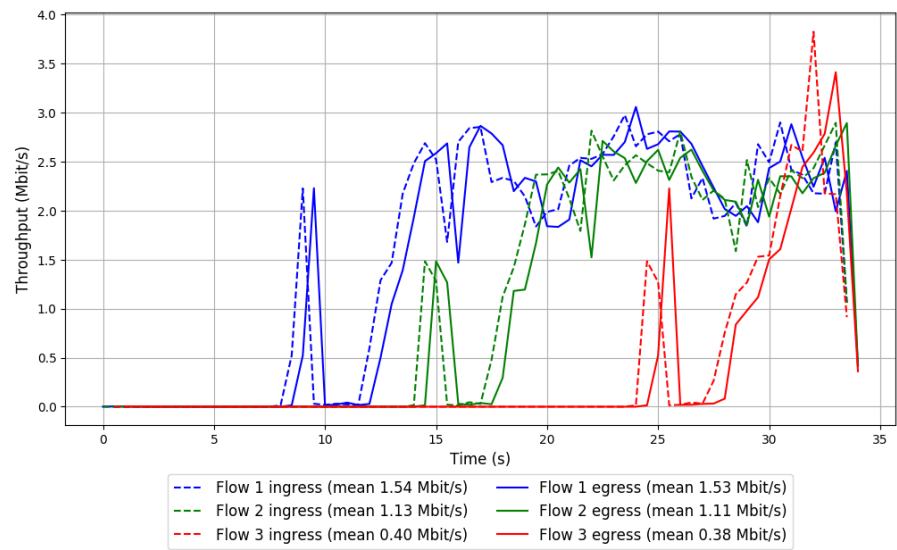


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 17:37:11
End at: 2018-06-06 17:37:41
Local clock offset: 0.598 ms
Remote clock offset: 0.436 ms

# Below is generated by plot.py at 2018-06-06 23:49:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 136.159 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 135.743 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.777 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.283 ms
Loss rate: 4.25%
```

Run 1: Report of WebRTC media — Data Link

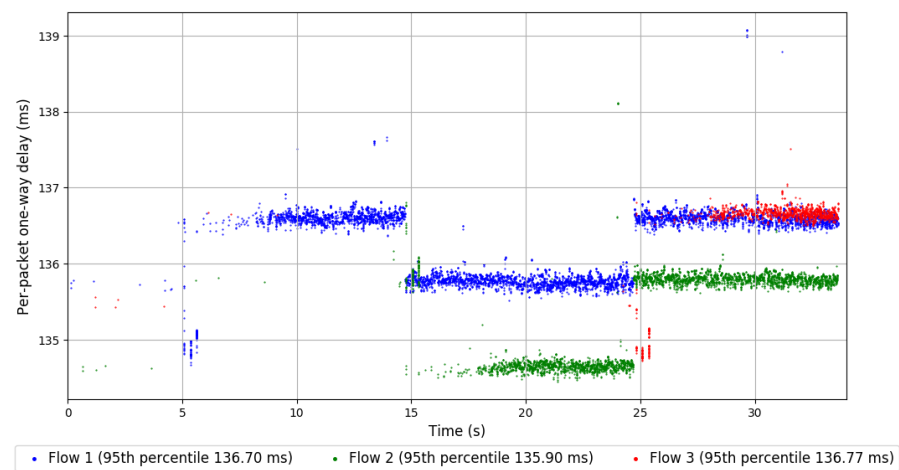
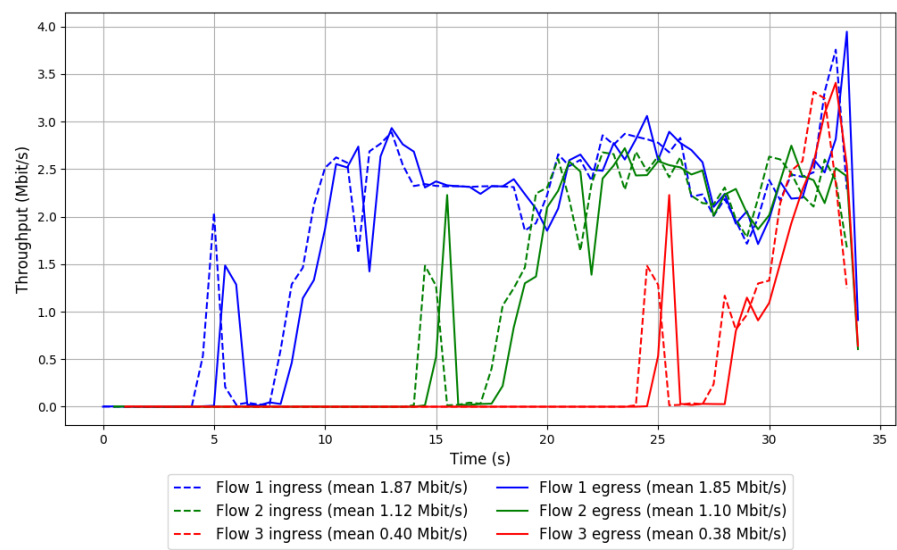


Run 2: Statistics of WebRTC media

Start at: 2018-06-06 18:01:57
End at: 2018-06-06 18:02:27
Local clock offset: 0.218 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 136.707 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 136.704 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 135.897 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 4.78%

Run 2: Report of WebRTC media — Data Link

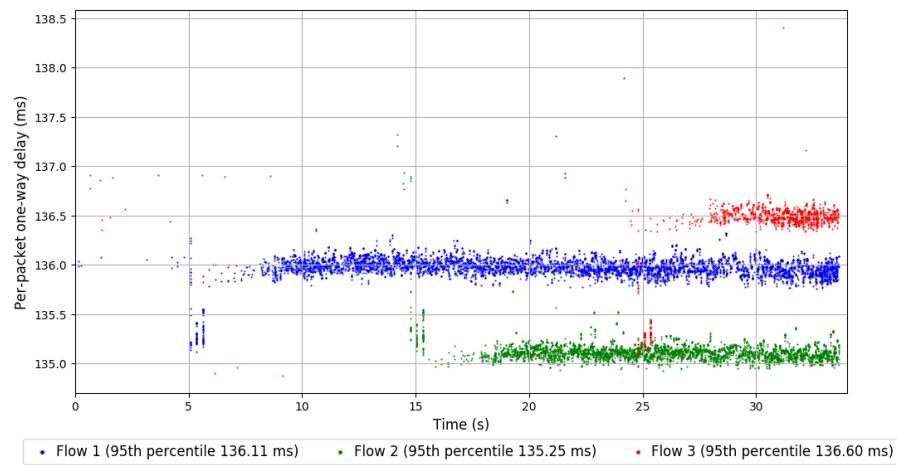
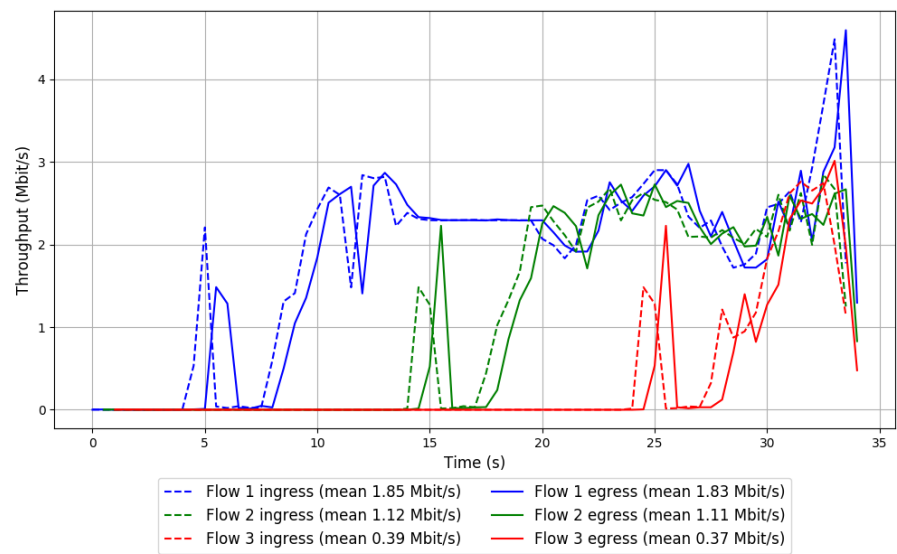


Run 3: Statistics of WebRTC media

Start at: 2018-06-06 18:26:56
End at: 2018-06-06 18:27:26
Local clock offset: -0.062 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 136.495 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 136.108 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.246 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.602 ms
Loss rate: 4.51%

Run 3: Report of WebRTC media — Data Link

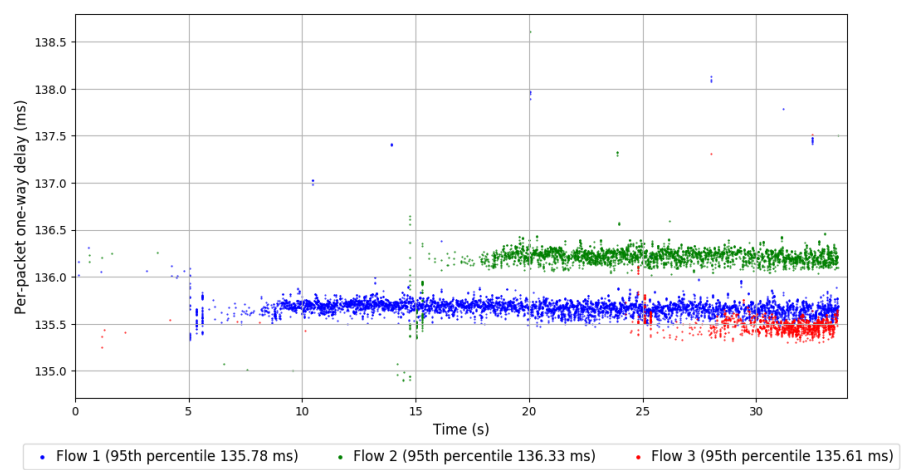
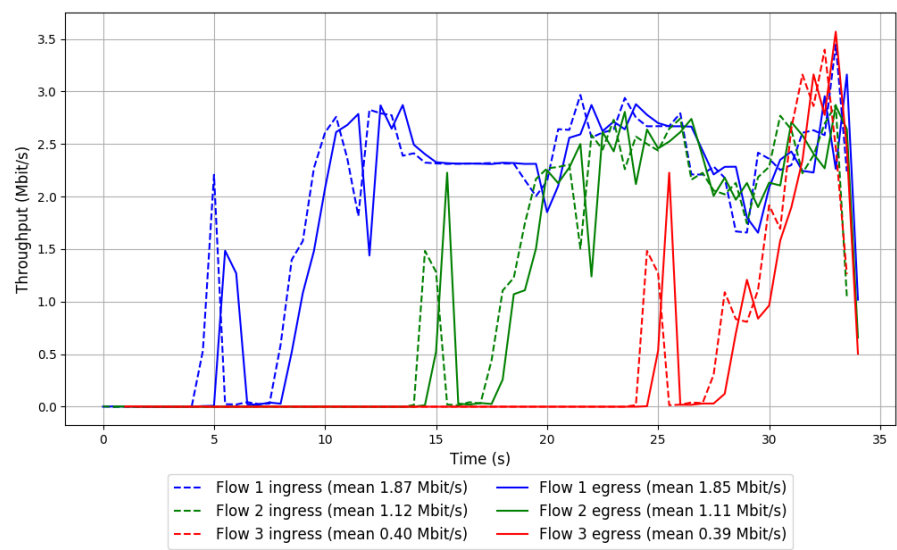


Run 4: Statistics of WebRTC media

Start at: 2018-06-06 18:51:36
End at: 2018-06-06 18:52:06
Local clock offset: -0.449 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 136.285 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 135.777 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.327 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 135.609 ms
Loss rate: 5.46%

Run 4: Report of WebRTC media — Data Link

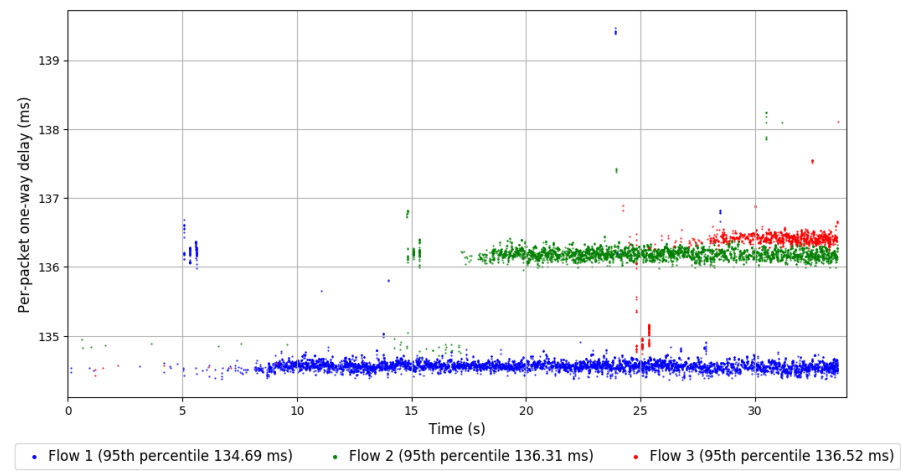
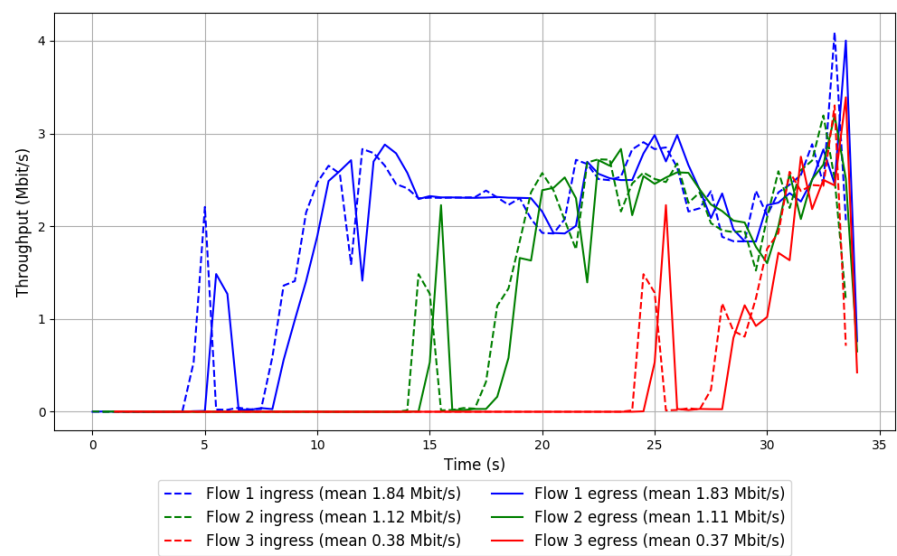


Run 5: Statistics of WebRTC media

Start at: 2018-06-06 19:16:24
End at: 2018-06-06 19:16:54
Local clock offset: -0.808 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 136.420 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 134.688 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 136.312 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.518 ms
Loss rate: 3.67%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-06 19:41:40

End at: 2018-06-06 19:42:10

Local clock offset: -0.744 ms

Remote clock offset: 0.497 ms

Below is generated by plot.py at 2018-06-06 23:49:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 136.083 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 135.247 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 136.131 ms

Loss rate: 1.80%

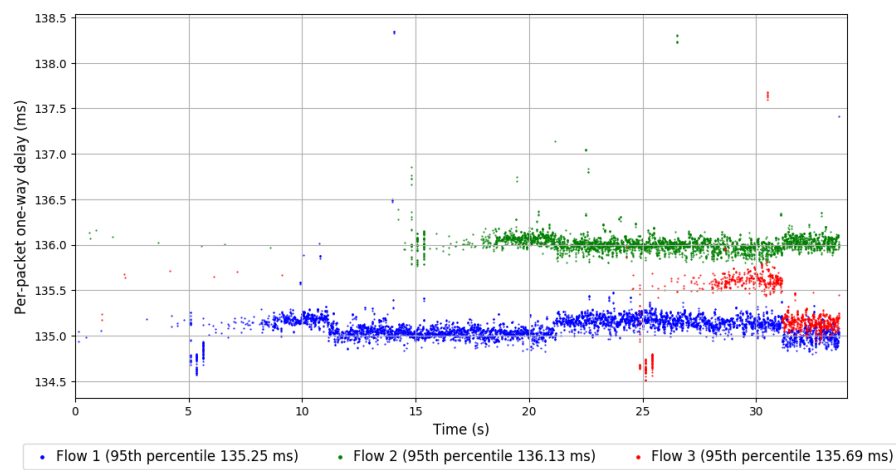
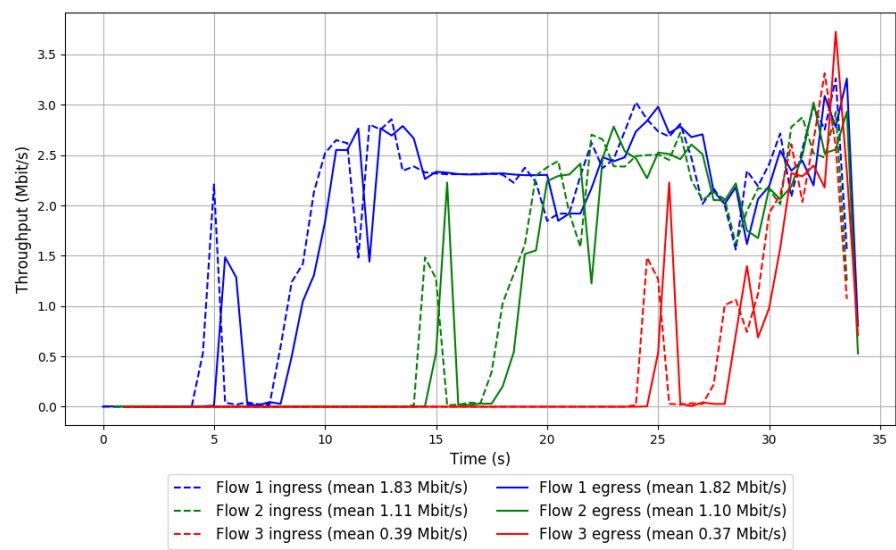
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 135.693 ms

Loss rate: 4.37%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-06 20:06:50

End at: 2018-06-06 20:07:20

Local clock offset: -0.838 ms

Remote clock offset: 0.481 ms

Below is generated by plot.py at 2018-06-06 23:49:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 135.999 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 135.821 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 136.034 ms

Loss rate: 2.00%

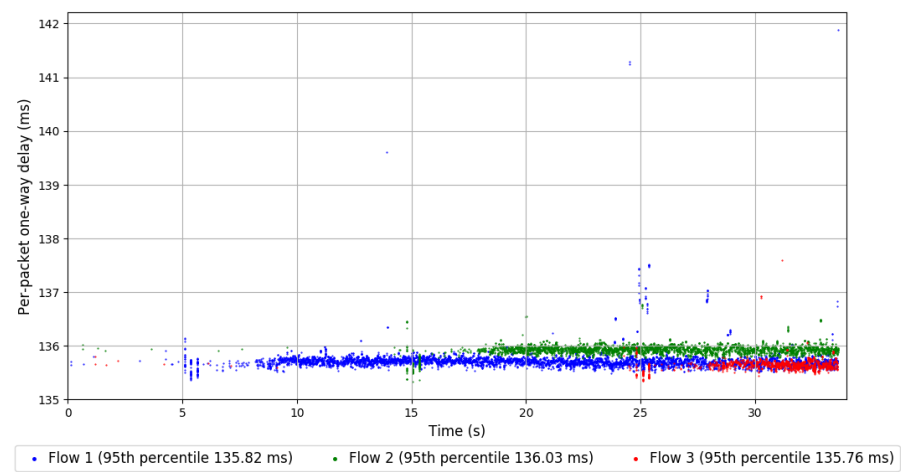
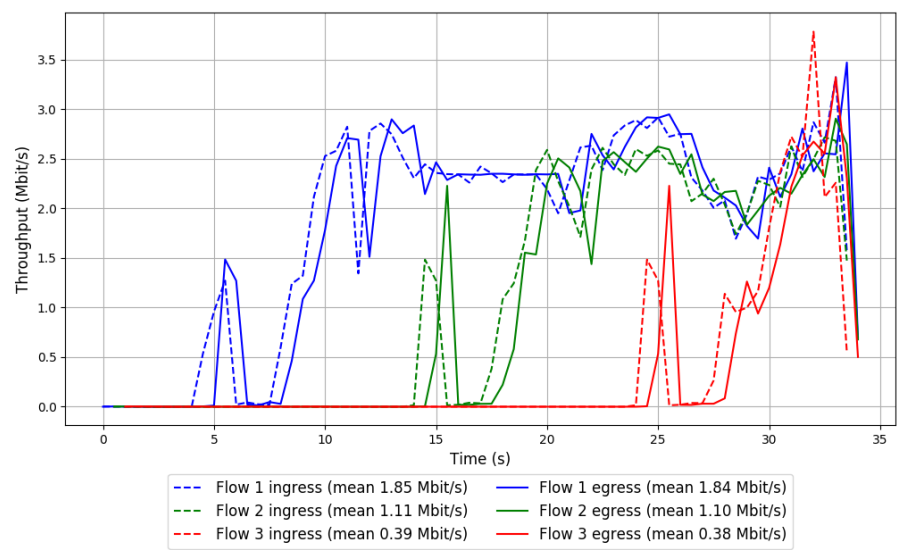
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.758 ms

Loss rate: 2.73%

Run 7: Report of WebRTC media — Data Link

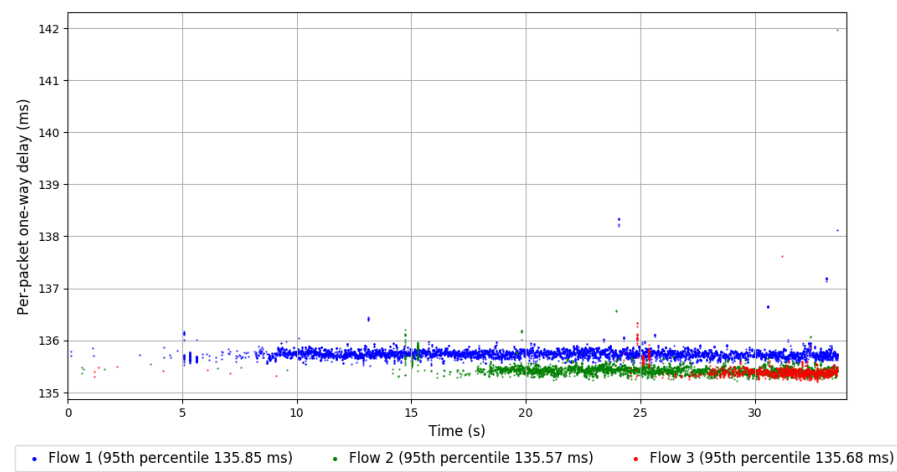
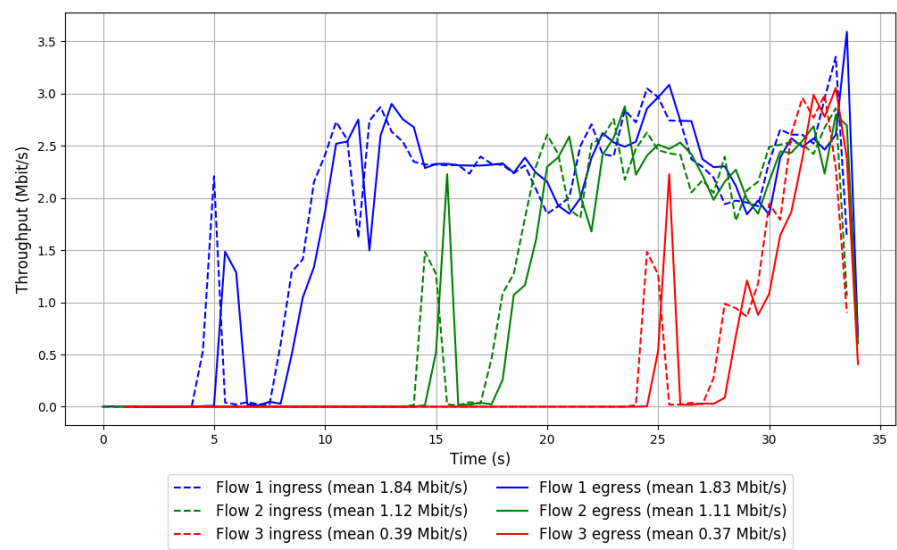


Run 8: Statistics of WebRTC media

Start at: 2018-06-06 20:31:41
End at: 2018-06-06 20:32:11
Local clock offset: -0.023 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 135.835 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 135.855 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 135.566 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 135.679 ms
Loss rate: 4.24%

Run 8: Report of WebRTC media — Data Link

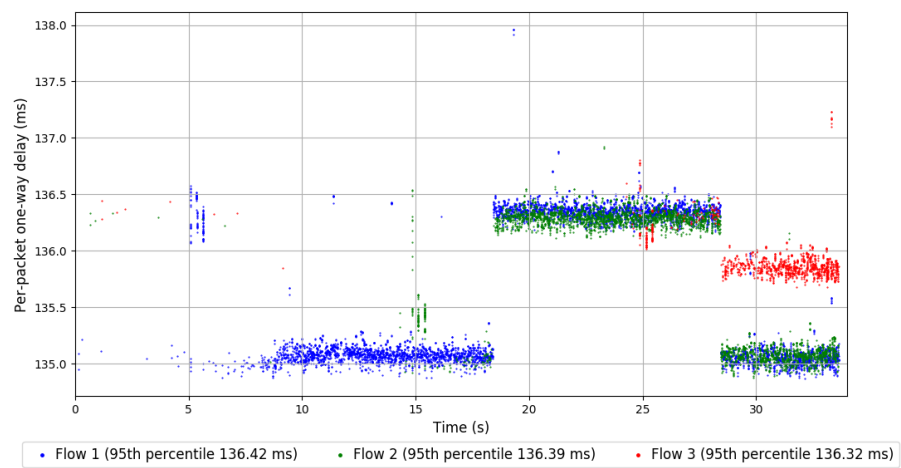
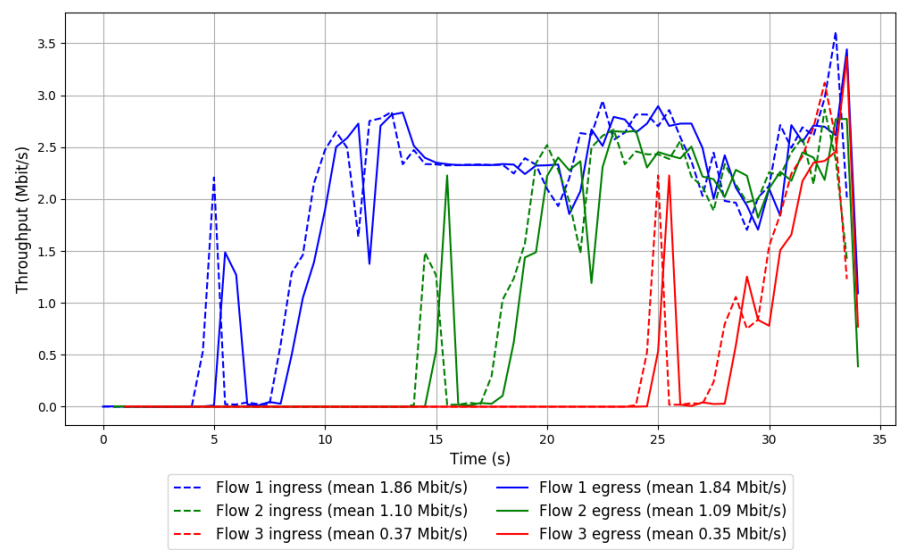


Run 9: Statistics of WebRTC media

Start at: 2018-06-06 20:56:53
End at: 2018-06-06 20:57:23
Local clock offset: 0.589 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 136.410 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 136.419 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 136.394 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.323 ms
Loss rate: 5.07%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 21:21:52
End at: 2018-06-06 21:22:22
Local clock offset: -0.011 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-06 23:49:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.284 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 136.714 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.098 ms
Loss rate: 2.25%

Run 10: Report of WebRTC media — Data Link

