

Pantheon Report

Generated at 2018-05-31 05:33:58 (UTC).

Data path: GCE Iowa 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.

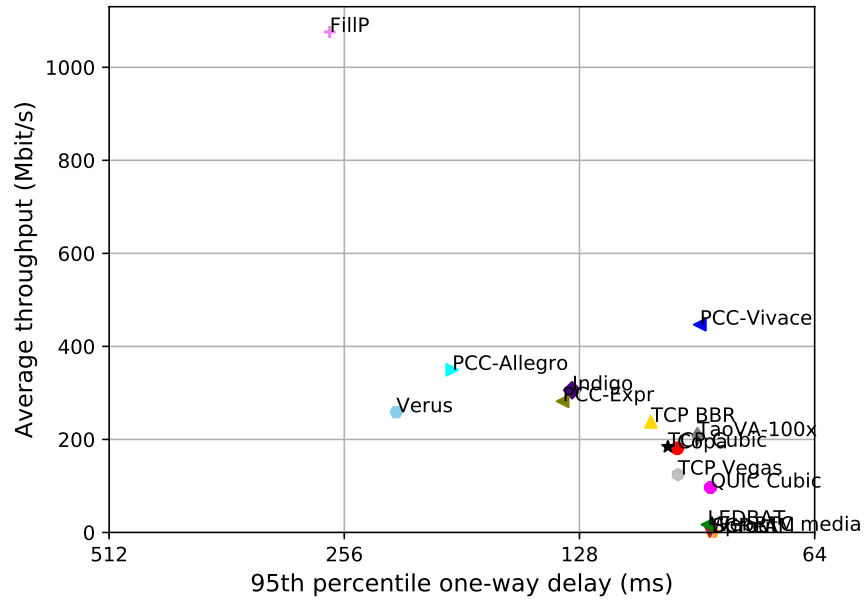
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

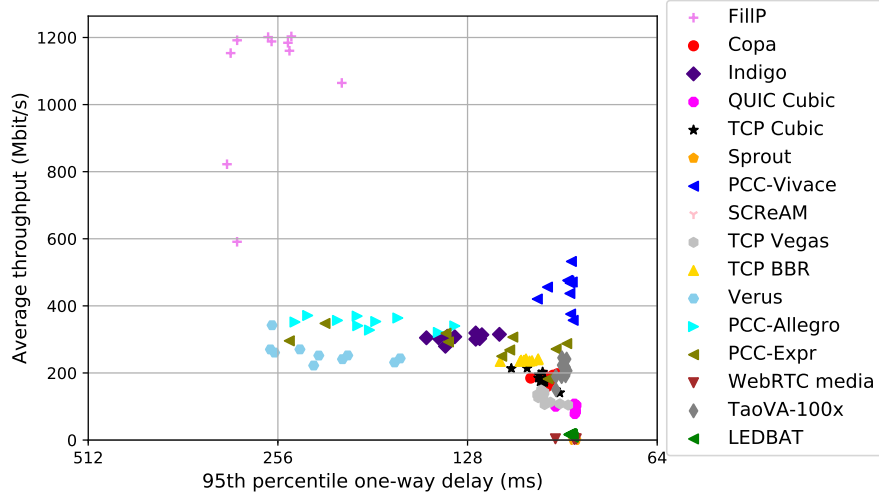
Git summary:

```
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-quirk @ 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 Iowa 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 Iowa to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



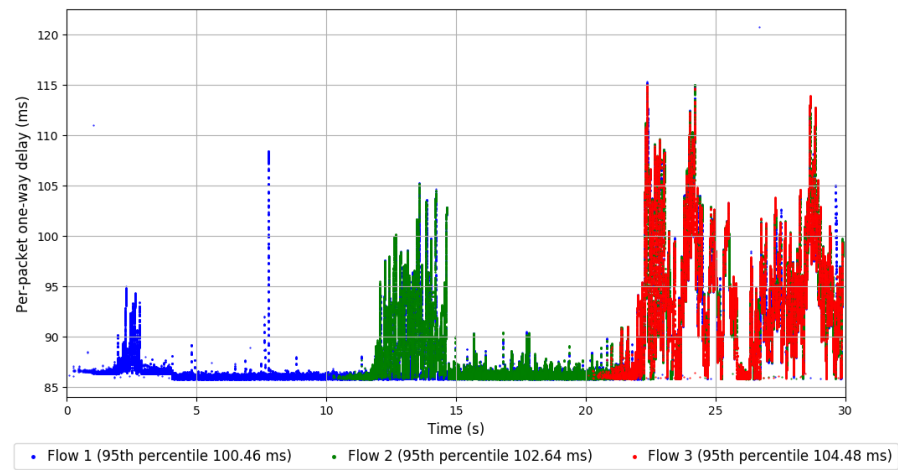
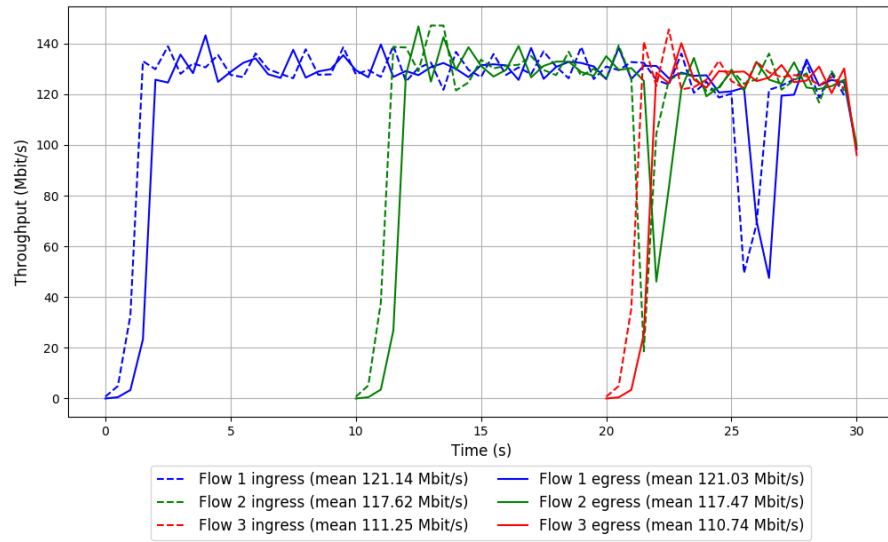
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	122.12	119.12	111.31	100.75	103.88	108.05	0.61	0.94	2.06
Copa	10	106.21	78.56	71.59	94.90	97.57	98.35	0.40	0.62	2.14
TCP Cubic	10	100.95	91.93	68.43	98.12	98.51	99.13	0.52	1.27	3.96
FillP	10	549.42	536.72	522.05	264.58	252.70	161.61	2.04	1.96	2.58
Indigo	10	174.66	149.31	100.45	121.39	131.97	140.11	0.53	0.88	2.19
LEDBAT	10	10.77	7.77	2.70	87.84	87.63	87.02	1.27	1.76	3.16
PCC-Allegro	10	309.08	49.01	24.83	186.06	185.26	172.98	1.13	1.26	2.34
PCC-Expr	10	196.89	109.80	37.89	131.83	138.59	149.76	0.95	1.43	2.92
QUIC Cubic	10	49.84	48.93	43.66	86.87	86.91	86.96	0.67	1.34	1.96
SCReAM	10	0.22	0.22	0.22	86.50	86.38	86.54	0.51	0.86	1.69
Sprout	10	0.24	0.32	0.31	86.49	86.45	86.55	0.50	0.74	0.96
TaoVA-100x	10	114.29	100.84	84.94	89.05	91.42	93.52	0.37	0.71	2.18
TCP Vegas	10	59.90	56.74	81.69	94.56	95.62	95.81	0.52	1.01	2.13
Verus	10	173.58	105.78	51.72	205.18	232.82	213.28	1.84	3.15	4.44
PCC-Vivace	10	266.47	205.66	134.71	90.00	96.79	90.89	0.66	1.15	3.13
WebRTC media	10	1.95	1.22	0.46	87.00	86.87	87.14	0.74	1.12	2.50

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 23:57:10
End at: 2018-05-30 23:57:40
Local clock offset: -0.233 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-05-31 03:48:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.43 Mbit/s
95th percentile per-packet one-way delay: 102.059 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 121.03 Mbit/s
95th percentile per-packet one-way delay: 100.462 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 117.47 Mbit/s
95th percentile per-packet one-way delay: 102.640 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 104.485 ms
Loss rate: 2.21%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-31 00:19:54

End at: 2018-05-31 00:20:24

Local clock offset: -0.401 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-05-31 03:48:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.78 Mbit/s

95th percentile per-packet one-way delay: 104.148 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 101.733 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 116.52 Mbit/s

95th percentile per-packet one-way delay: 104.698 ms

Loss rate: 0.89%

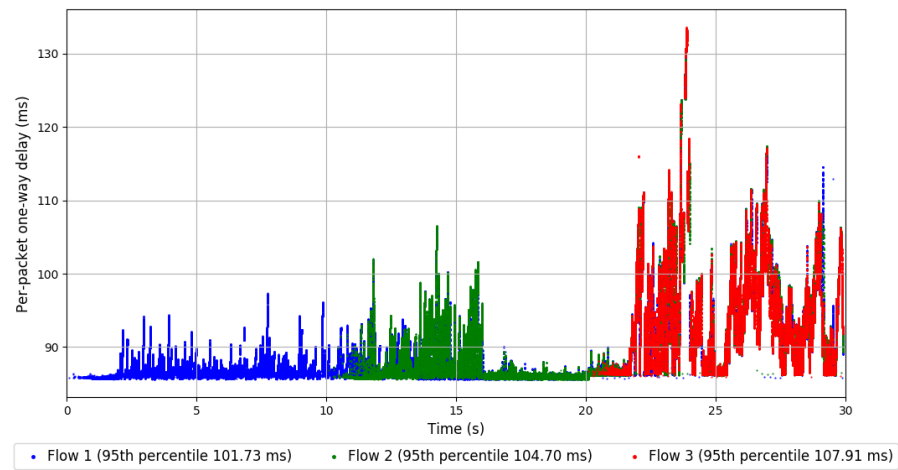
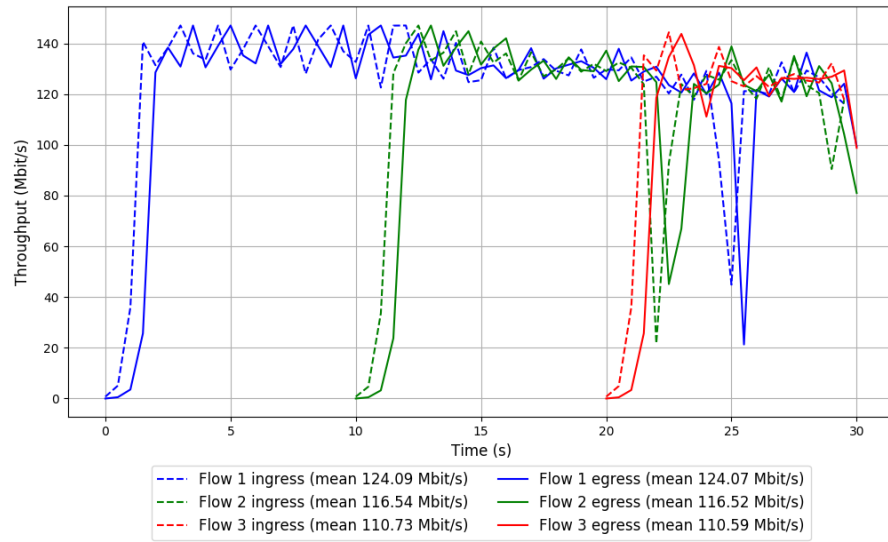
-- Flow 3:

Average throughput: 110.59 Mbit/s

95th percentile per-packet one-way delay: 107.910 ms

Loss rate: 1.97%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-31 00:42:40

End at: 2018-05-31 00:43:10

Local clock offset: -0.06 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-31 03:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.35 Mbit/s

95th percentile per-packet one-way delay: 103.878 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 120.47 Mbit/s

95th percentile per-packet one-way delay: 101.501 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 119.70 Mbit/s

95th percentile per-packet one-way delay: 105.603 ms

Loss rate: 0.89%

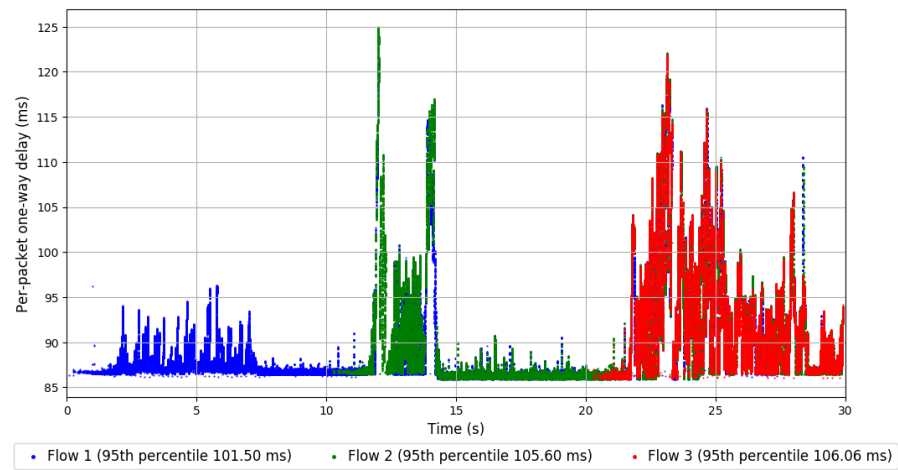
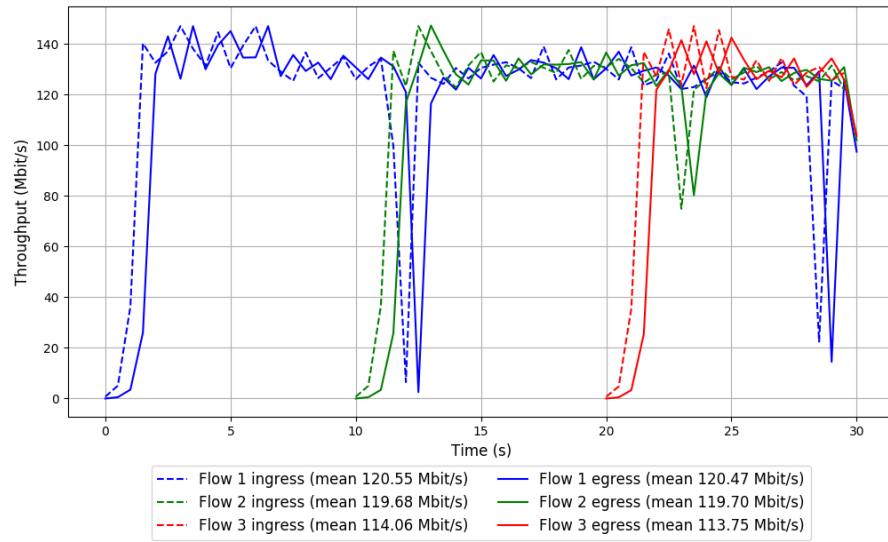
-- Flow 3:

Average throughput: 113.75 Mbit/s

95th percentile per-packet one-way delay: 106.058 ms

Loss rate: 2.00%

Run 3: Report of TCP BBR — Data Link

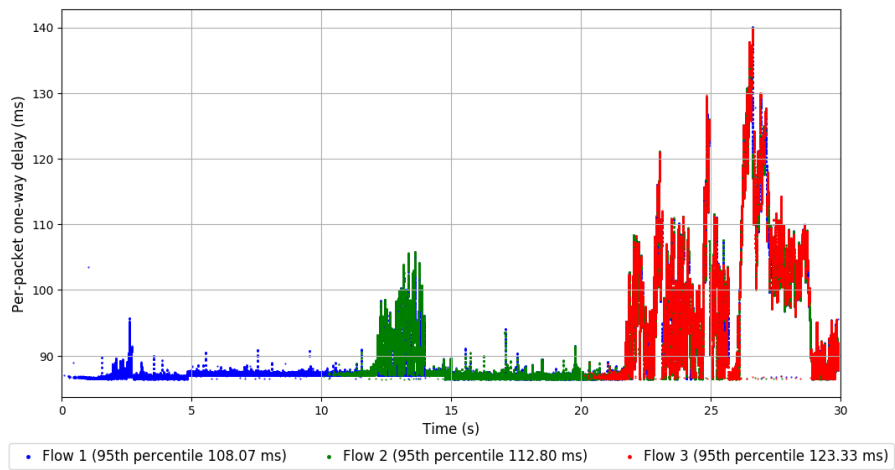
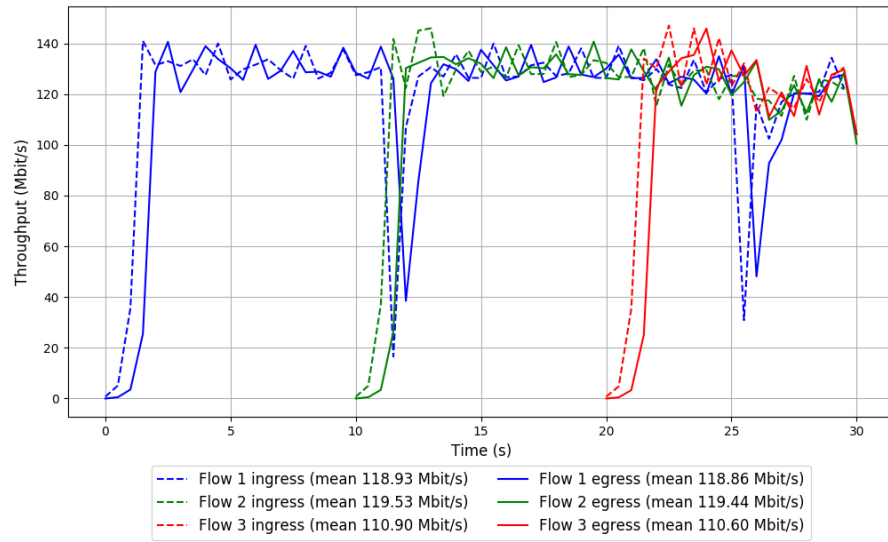


Run 4: Statistics of TCP BBR

Start at: 2018-05-31 01:05:49
End at: 2018-05-31 01:06:19
Local clock offset: 0.506 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-05-31 03:48:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 113.588 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 118.86 Mbit/s
95th percentile per-packet one-way delay: 108.072 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 119.44 Mbit/s
95th percentile per-packet one-way delay: 112.803 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 110.60 Mbit/s
95th percentile per-packet one-way delay: 123.328 ms
Loss rate: 2.01%

Run 4: Report of TCP BBR — Data Link

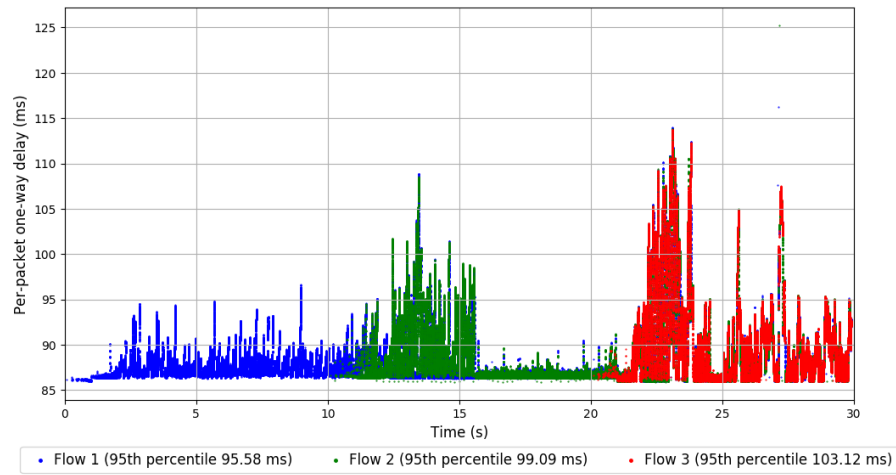
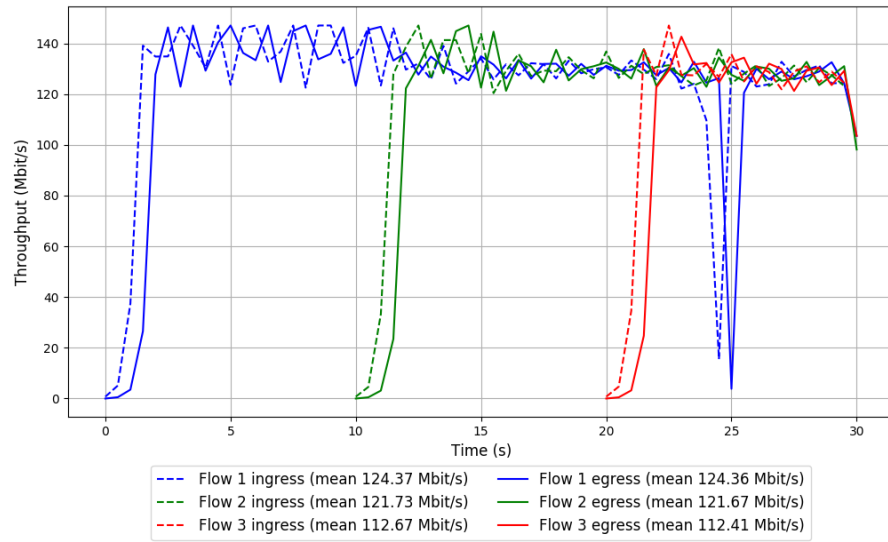


Run 5: Statistics of TCP BBR

Start at: 2018-05-31 01:28:33
End at: 2018-05-31 01:29:03
Local clock offset: 0.038 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-31 03:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.05 Mbit/s
95th percentile per-packet one-way delay: 98.890 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 124.36 Mbit/s
95th percentile per-packet one-way delay: 95.582 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 121.67 Mbit/s
95th percentile per-packet one-way delay: 99.094 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 112.41 Mbit/s
95th percentile per-packet one-way delay: 103.117 ms
Loss rate: 1.96%

Run 5: Report of TCP BBR — Data Link

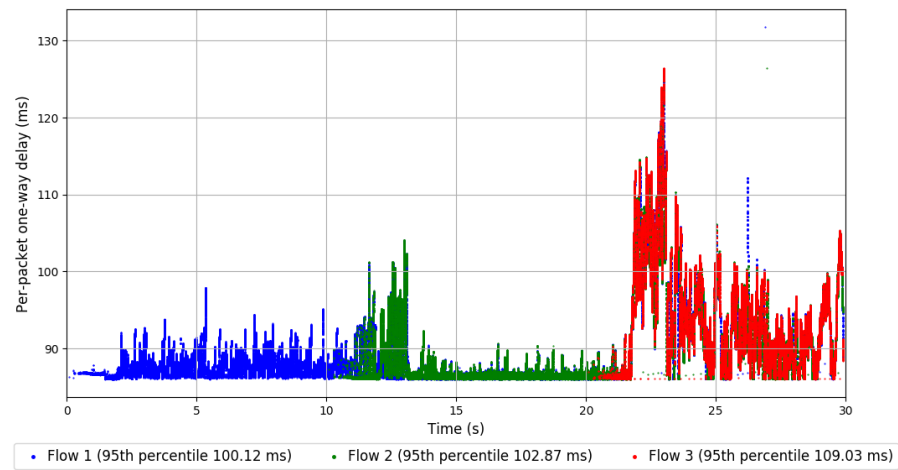
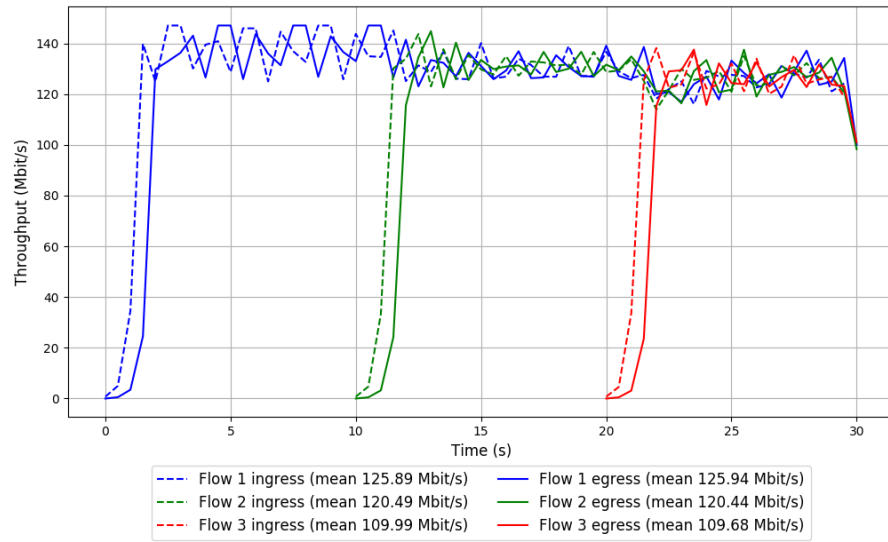


Run 6: Statistics of TCP BBR

Start at: 2018-05-31 01:51:33
End at: 2018-05-31 01:52:03
Local clock offset: -0.058 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-31 03:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.89 Mbit/s
95th percentile per-packet one-way delay: 103.375 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 125.94 Mbit/s
95th percentile per-packet one-way delay: 100.116 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 120.44 Mbit/s
95th percentile per-packet one-way delay: 102.870 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 109.68 Mbit/s
95th percentile per-packet one-way delay: 109.026 ms
Loss rate: 2.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-31 02:14:53

End at: 2018-05-31 02:15:23

Local clock offset: -0.401 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-05-31 03:48:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.62 Mbit/s

95th percentile per-packet one-way delay: 101.133 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 120.41 Mbit/s

95th percentile per-packet one-way delay: 97.956 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 118.81 Mbit/s

95th percentile per-packet one-way delay: 100.858 ms

Loss rate: 0.97%

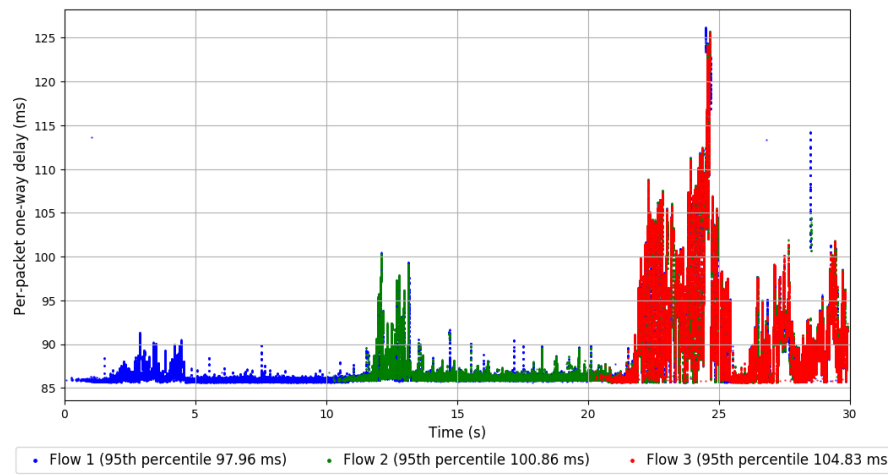
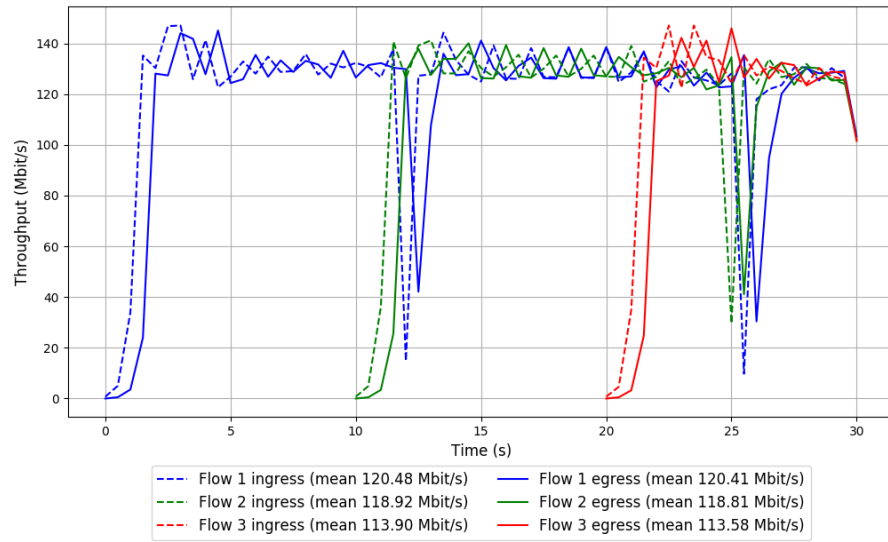
-- Flow 3:

Average throughput: 113.58 Mbit/s

95th percentile per-packet one-way delay: 104.833 ms

Loss rate: 2.01%

Run 7: Report of TCP BBR — Data Link

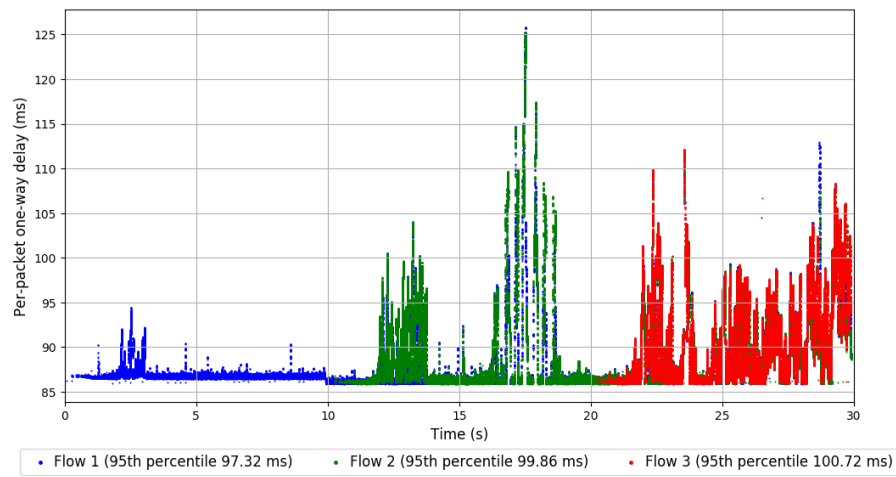
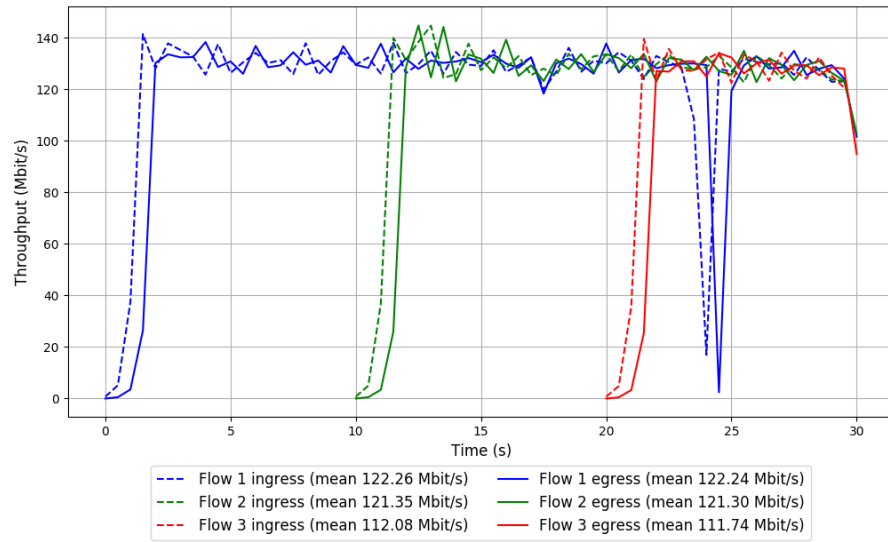


Run 8: Statistics of TCP BBR

Start at: 2018-05-31 02:37:54
End at: 2018-05-31 02:38:24
Local clock offset: -0.224 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-31 03:48:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 239.45 Mbit/s
95th percentile per-packet one-way delay: 98.956 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 122.24 Mbit/s
95th percentile per-packet one-way delay: 97.317 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 121.30 Mbit/s
95th percentile per-packet one-way delay: 99.859 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 111.74 Mbit/s
95th percentile per-packet one-way delay: 100.717 ms
Loss rate: 2.20%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-31 03:01:08

End at: 2018-05-31 03:01:38

Local clock offset: -0.004 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-31 03:51:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.12 Mbit/s

95th percentile per-packet one-way delay: 105.253 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 122.11 Mbit/s

95th percentile per-packet one-way delay: 102.830 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 118.39 Mbit/s

95th percentile per-packet one-way delay: 105.088 ms

Loss rate: 0.96%

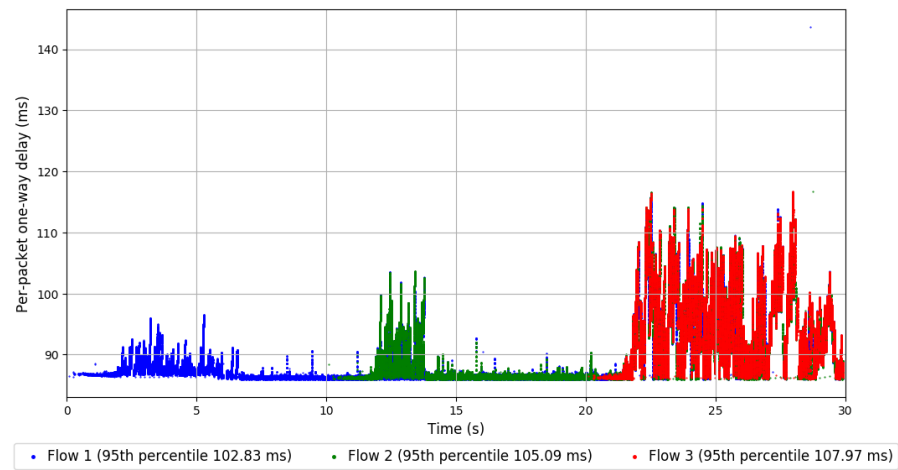
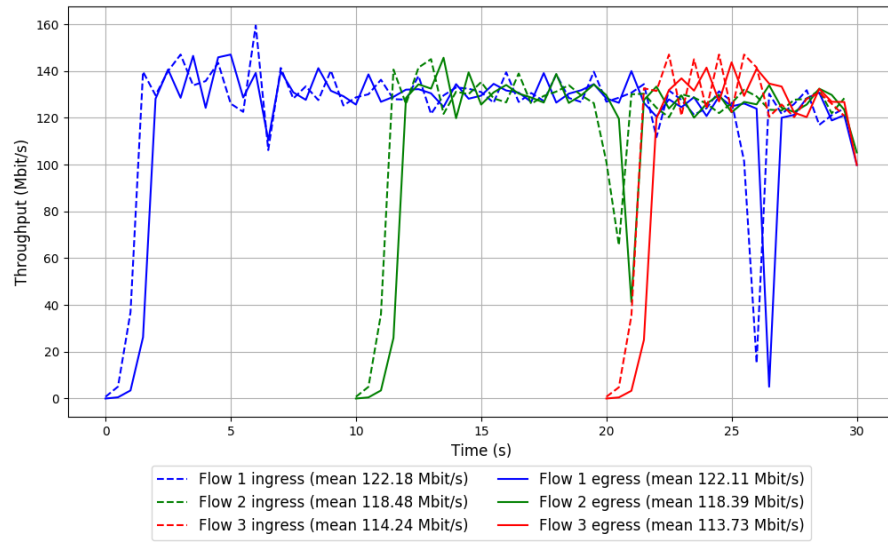
-- Flow 3:

Average throughput: 113.73 Mbit/s

95th percentile per-packet one-way delay: 107.970 ms

Loss rate: 1.96%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-31 03:24:27

End at: 2018-05-31 03:24:57

Local clock offset: 0.015 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-05-31 03:51:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.62 Mbit/s

95th percentile per-packet one-way delay: 105.634 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 121.74 Mbit/s

95th percentile per-packet one-way delay: 101.900 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 117.45 Mbit/s

95th percentile per-packet one-way delay: 105.250 ms

Loss rate: 0.95%

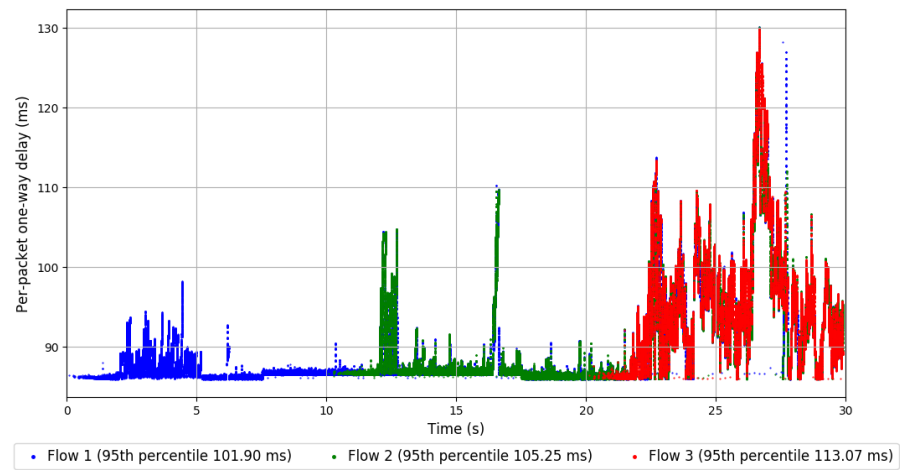
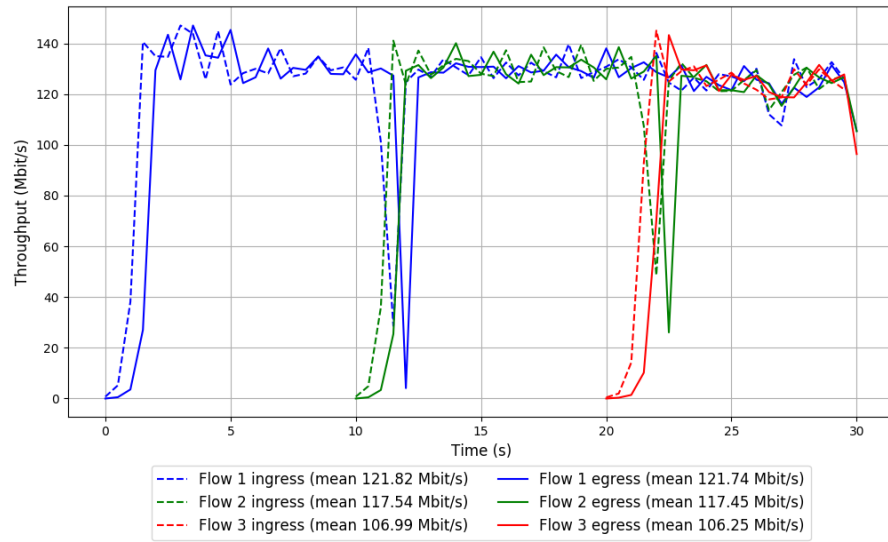
-- Flow 3:

Average throughput: 106.25 Mbit/s

95th percentile per-packet one-way delay: 113.072 ms

Loss rate: 2.28%

Run 10: Report of TCP BBR — Data Link

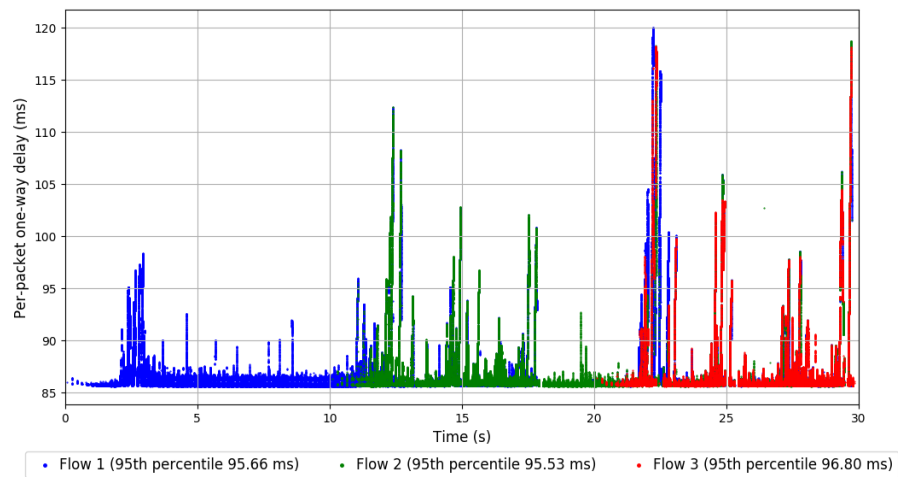
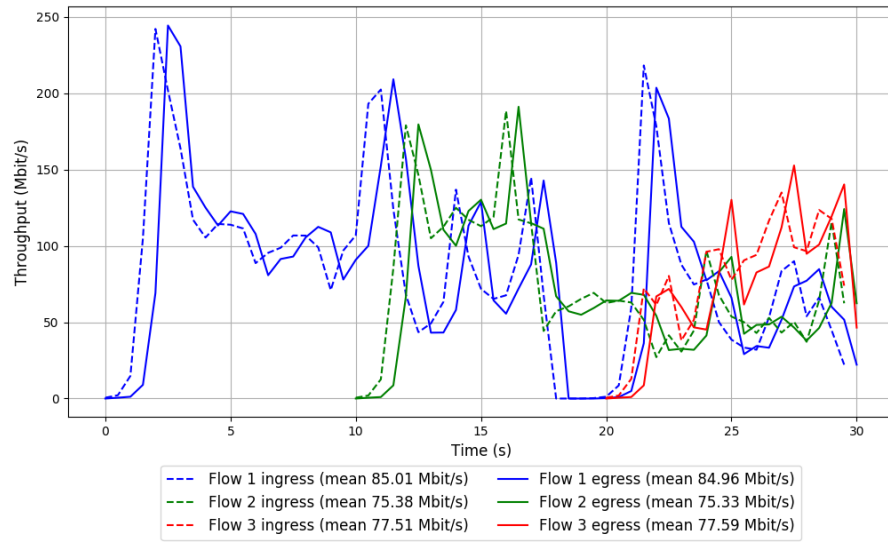


Run 1: Statistics of Copa

Start at: 2018-05-30 23:48:31
End at: 2018-05-30 23:49:01
Local clock offset: -0.307 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-05-31 03:53:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 95.708 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 95.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 75.33 Mbit/s
95th percentile per-packet one-way delay: 95.532 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 96.801 ms
Loss rate: 1.78%

Run 1: Report of Copa — Data Link

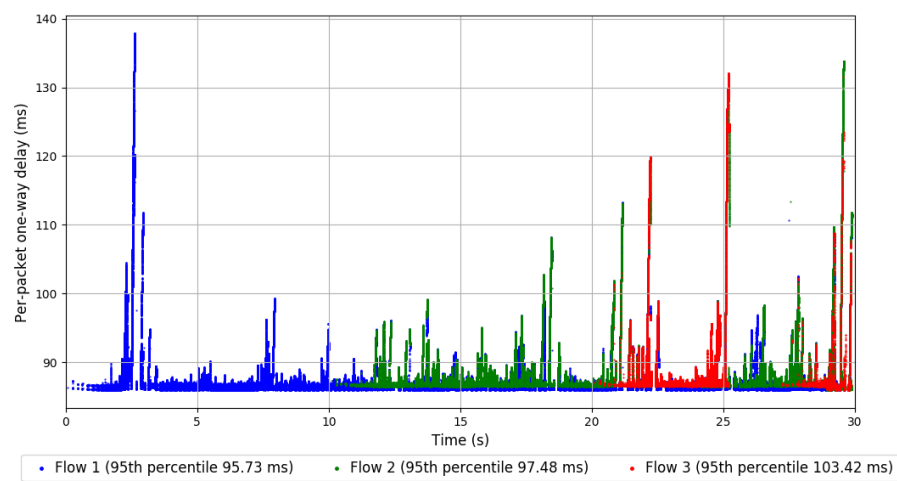
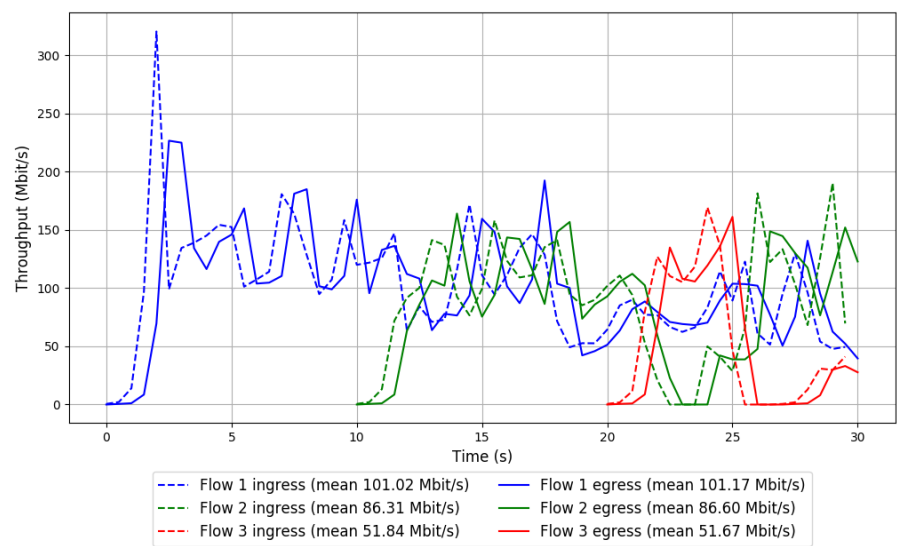


Run 2: Statistics of Copa

Start at: 2018-05-31 00:11:15
End at: 2018-05-31 00:11:45
Local clock offset: -0.037 ms
Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-31 03:53:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 175.55 Mbit/s
95th percentile per-packet one-way delay: 96.901 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 101.17 Mbit/s
95th percentile per-packet one-way delay: 95.733 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 97.478 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 103.422 ms
Loss rate: 1.64%

Run 2: Report of Copa — Data Link

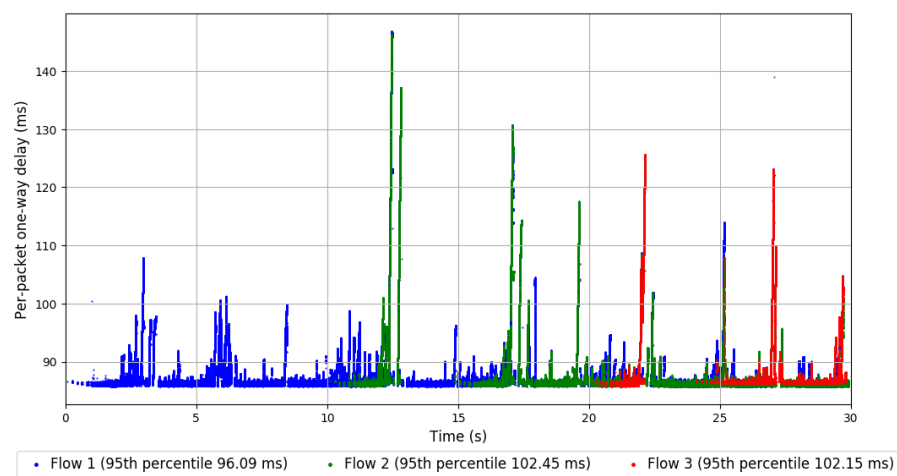
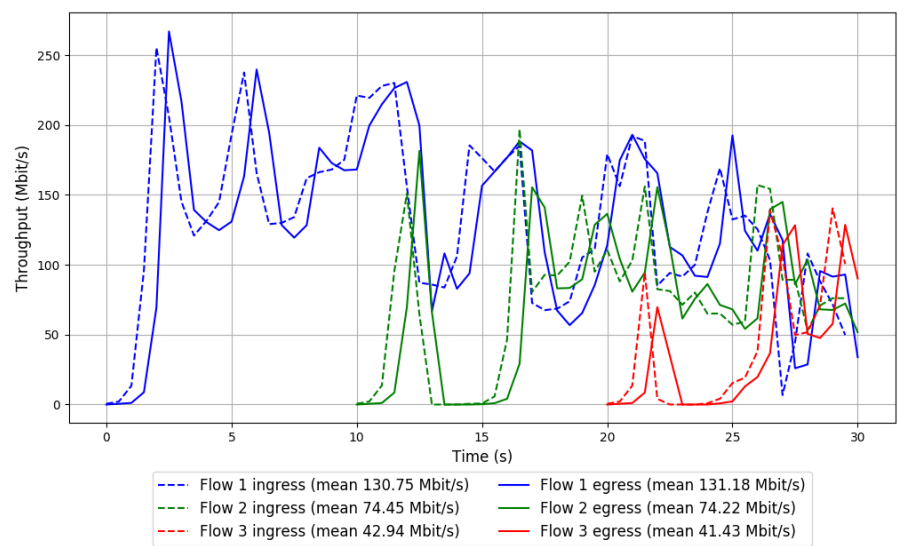


Run 3: Statistics of Copa

Start at: 2018-05-31 00:34:00
End at: 2018-05-31 00:34:30
Local clock offset: -0.151 ms
Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-05-31 03:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.97 Mbit/s
95th percentile per-packet one-way delay: 96.975 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 131.18 Mbit/s
95th percentile per-packet one-way delay: 96.089 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 102.454 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 102.154 ms
Loss rate: 5.45%

Run 3: Report of Copa — Data Link

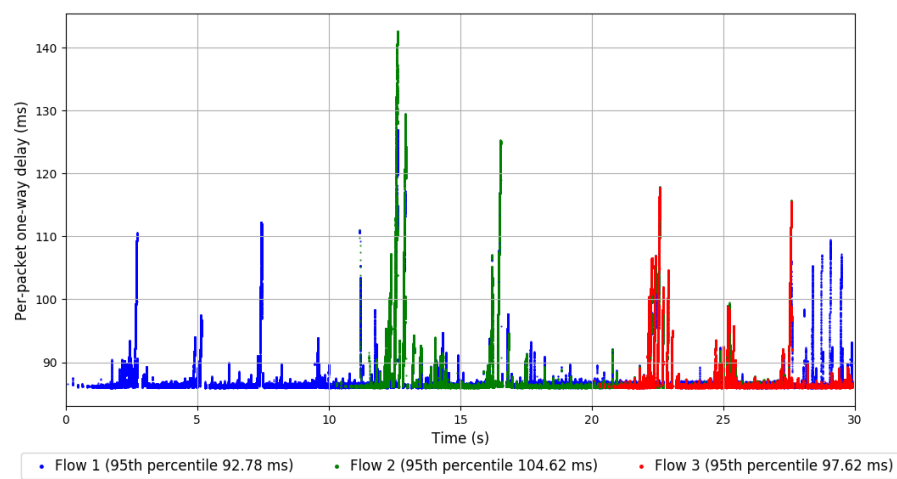
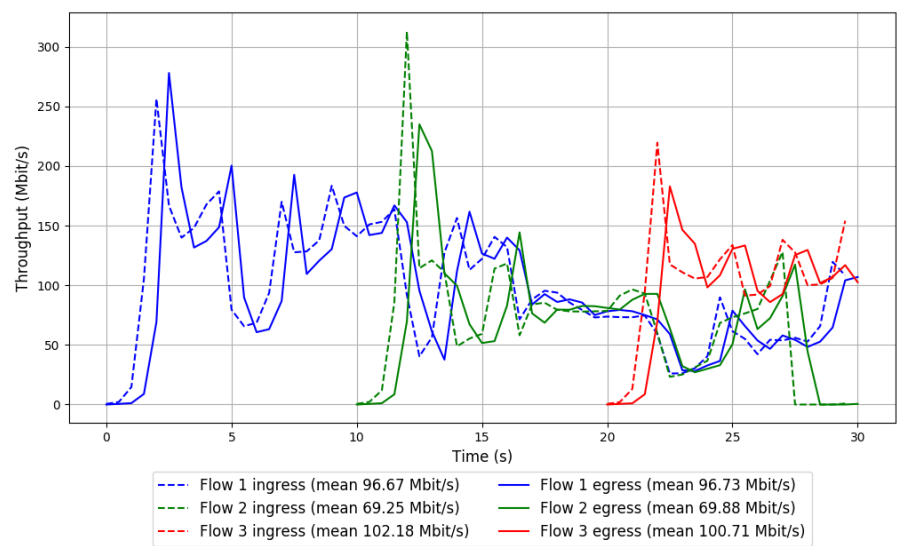


Run 4: Statistics of Copa

Start at: 2018-05-31 00:57:07
End at: 2018-05-31 00:57:37
Local clock offset: 0.022 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-05-31 03:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 176.12 Mbit/s
95th percentile per-packet one-way delay: 97.032 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 92.776 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 69.88 Mbit/s
95th percentile per-packet one-way delay: 104.622 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 100.71 Mbit/s
95th percentile per-packet one-way delay: 97.623 ms
Loss rate: 3.14%

Run 4: Report of Copa — Data Link

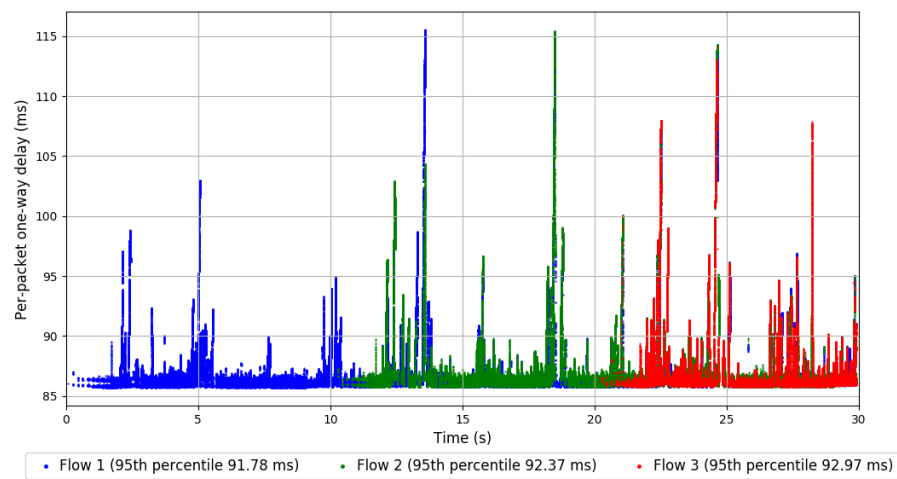
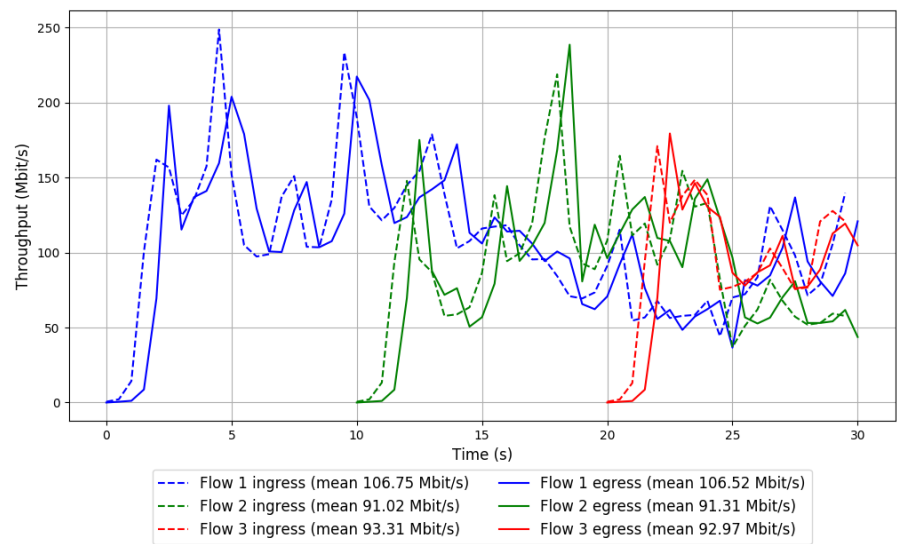


Run 5: Statistics of Copa

Start at: 2018-05-31 01:19:45
End at: 2018-05-31 01:20:15
Local clock offset: -0.11 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-31 03:54:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 197.72 Mbit/s
95th percentile per-packet one-way delay: 92.140 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 106.52 Mbit/s
95th percentile per-packet one-way delay: 91.784 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 92.373 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 92.972 ms
Loss rate: 2.02%

Run 5: Report of Copa — Data Link

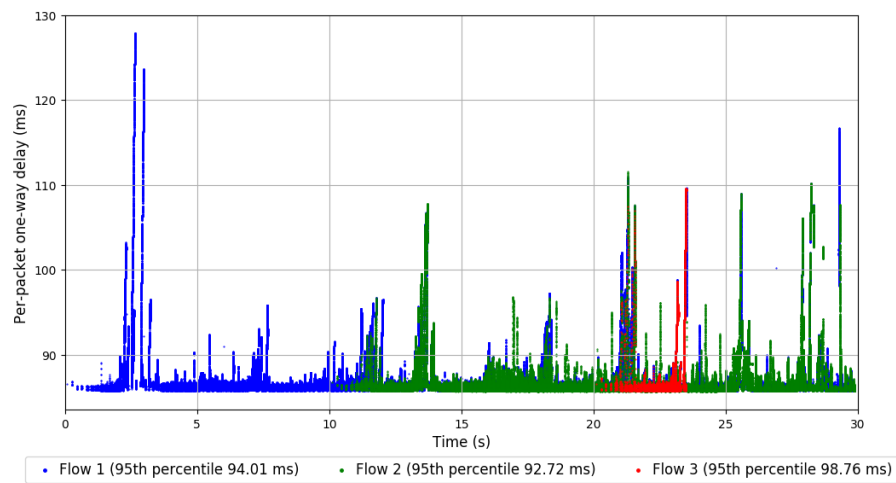
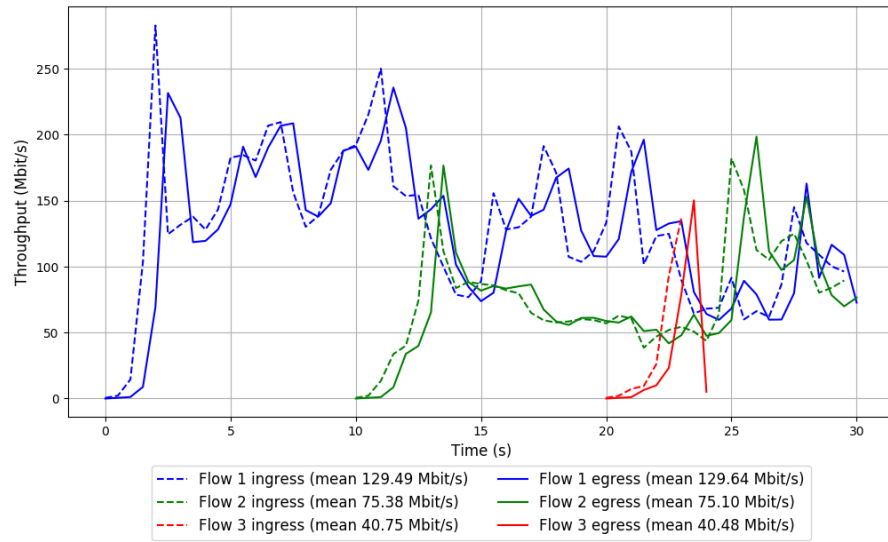


Run 6: Statistics of Copa

Start at: 2018-05-31 01:42:50
End at: 2018-05-31 01:43:20
Local clock offset: -0.188 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-31 03:54:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 183.95 Mbit/s
95th percentile per-packet one-way delay: 94.039 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 129.64 Mbit/s
95th percentile per-packet one-way delay: 94.014 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 92.719 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 98.762 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

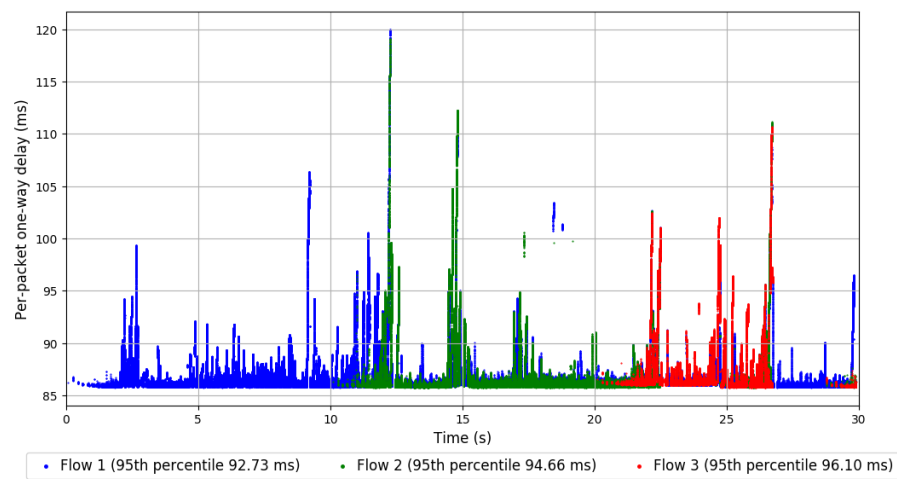
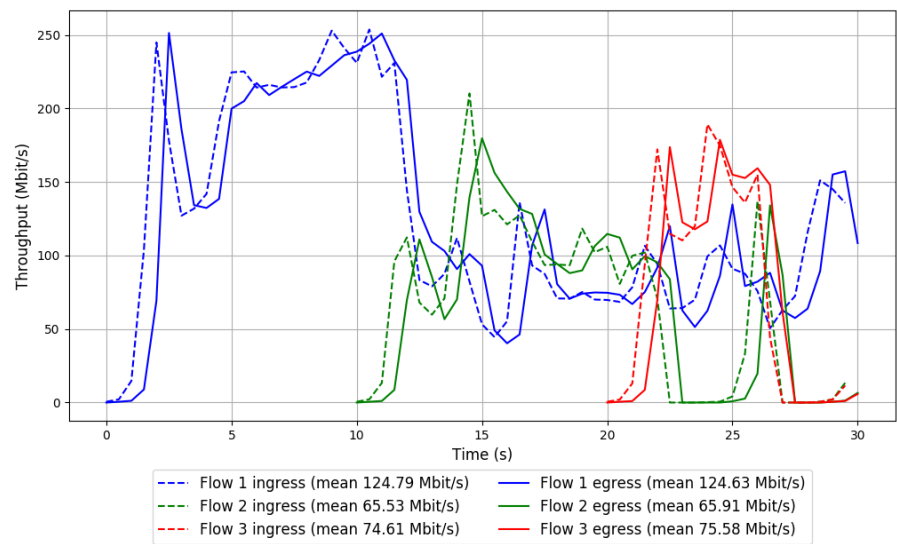


Run 7: Statistics of Copa

Start at: 2018-05-31 02:05:59
End at: 2018-05-31 02:06:29
Local clock offset: -0.281 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-05-31 03:58:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.23 Mbit/s
95th percentile per-packet one-way delay: 93.686 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 124.63 Mbit/s
95th percentile per-packet one-way delay: 92.730 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 65.91 Mbit/s
95th percentile per-packet one-way delay: 94.660 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 75.58 Mbit/s
95th percentile per-packet one-way delay: 96.103 ms
Loss rate: 0.45%

Run 7: Report of Copa — Data Link

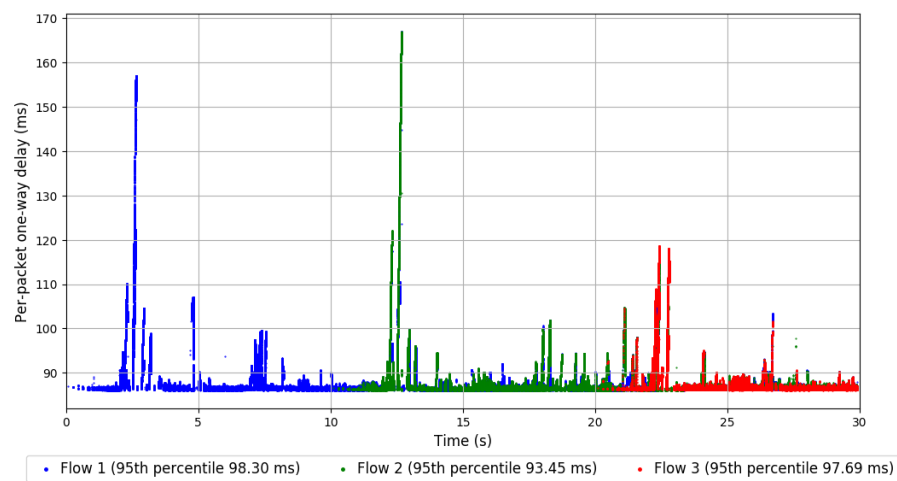
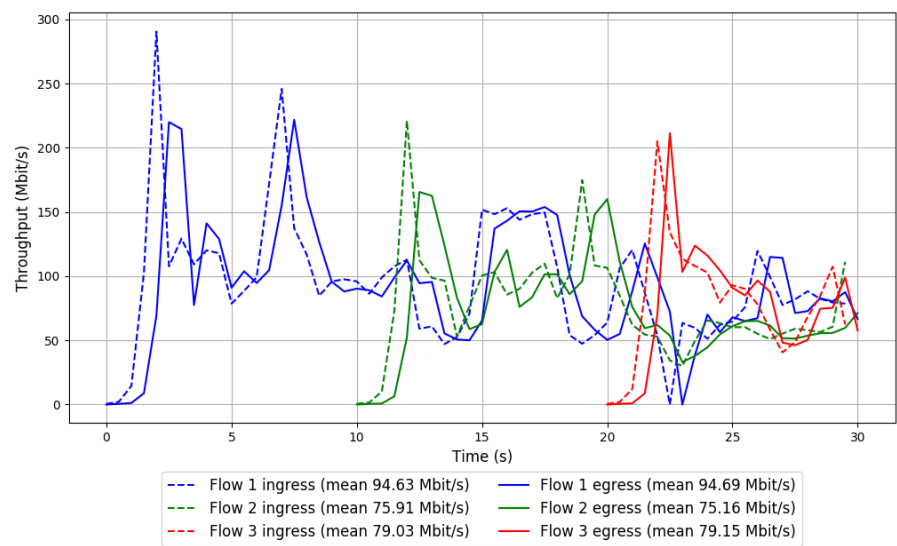


Run 8: Statistics of Copa

Start at: 2018-05-31 02:29:21
End at: 2018-05-31 02:29:51
Local clock offset: -0.031 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-05-31 03:58:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 170.61 Mbit/s
95th percentile per-packet one-way delay: 96.756 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 98.297 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 75.16 Mbit/s
95th percentile per-packet one-way delay: 93.449 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 79.15 Mbit/s
95th percentile per-packet one-way delay: 97.687 ms
Loss rate: 1.58%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-31 02:52:23

End at: 2018-05-31 02:52:53

Local clock offset: 6.047 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-05-31 03:59:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.70 Mbit/s

95th percentile per-packet one-way delay: 101.606 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 100.029 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 106.827 ms

Loss rate: 0.83%

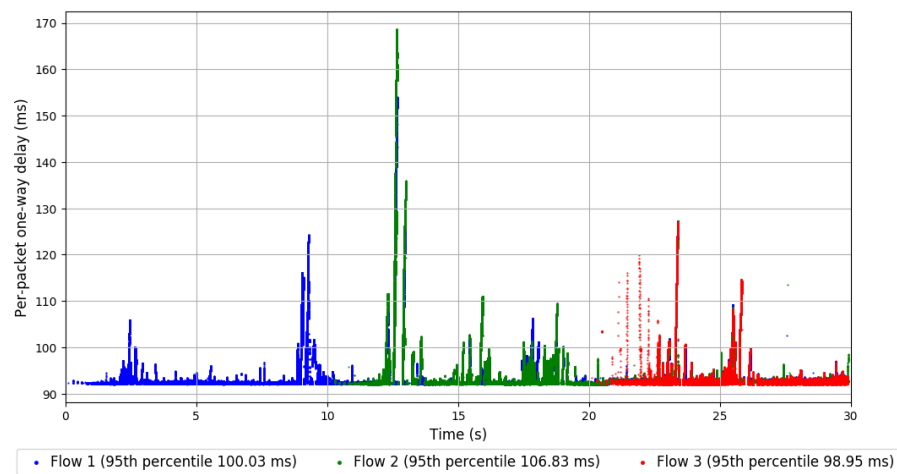
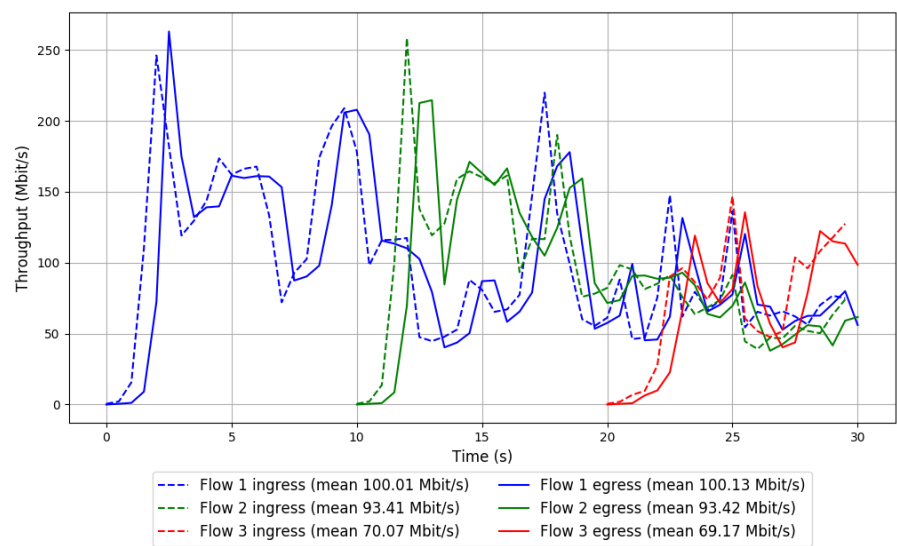
-- Flow 3:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 98.950 ms

Loss rate: 3.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-31 03:15:36

End at: 2018-05-31 03:16:06

Local clock offset: -0.109 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-05-31 03:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 94.896 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 91.931 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 95.561 ms

Loss rate: 0.05%

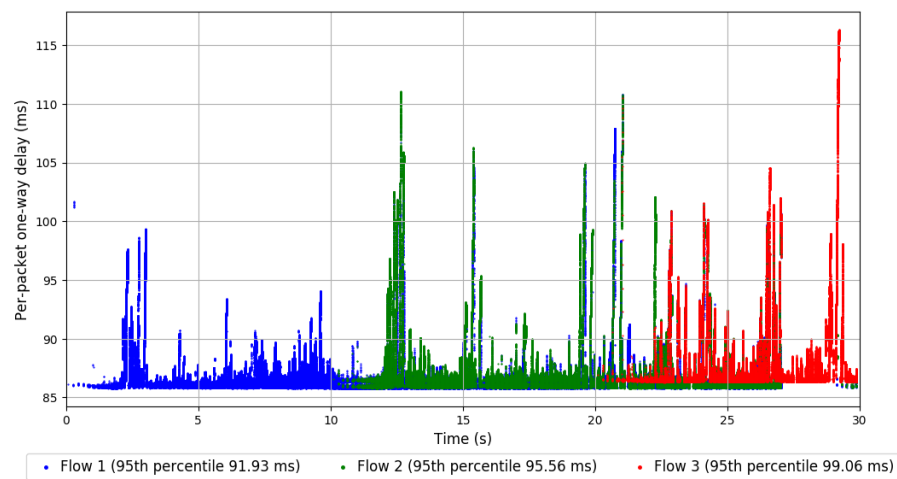
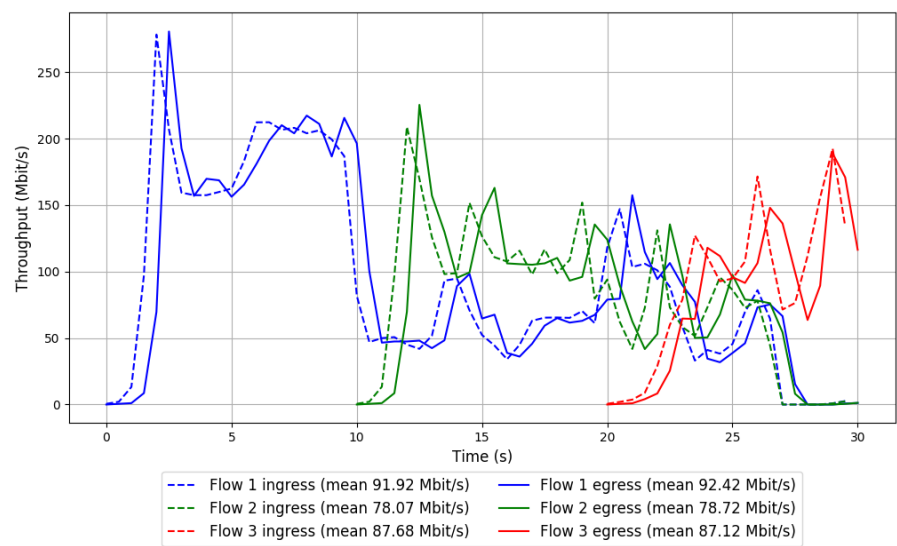
-- Flow 3:

Average throughput: 87.12 Mbit/s

95th percentile per-packet one-way delay: 99.059 ms

Loss rate: 2.38%

Run 10: Report of Copa — Data Link

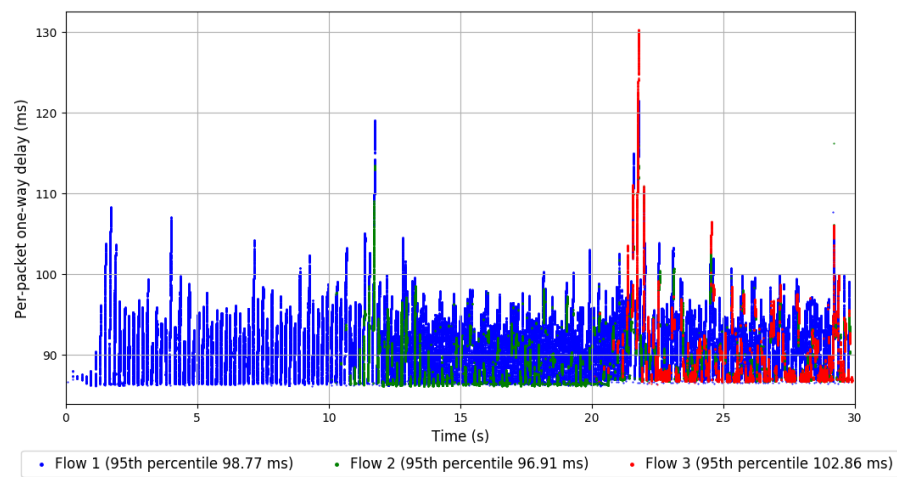
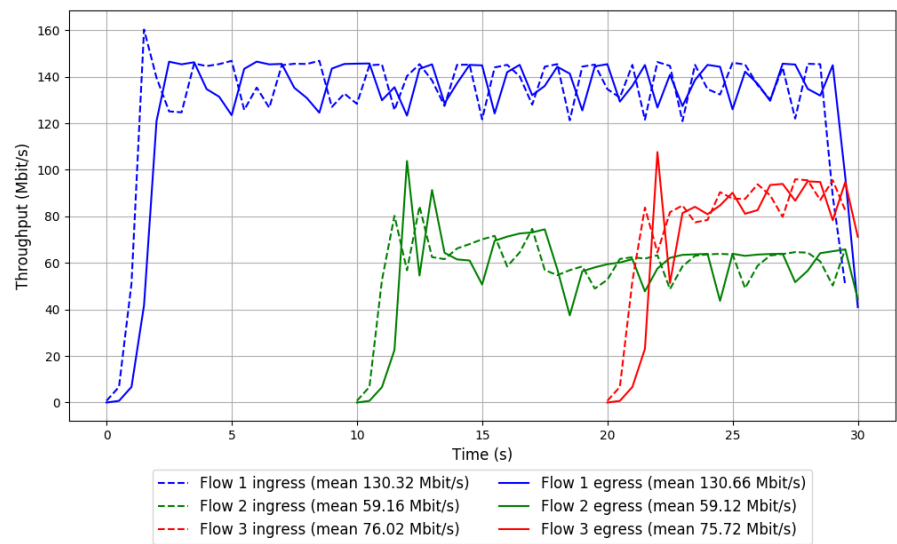


Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 23:52:53
End at: 2018-05-30 23:53:23
Local clock offset: 0.048 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2018-05-31 03:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.41 Mbit/s
95th percentile per-packet one-way delay: 98.608 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 130.66 Mbit/s
95th percentile per-packet one-way delay: 98.770 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 59.12 Mbit/s
95th percentile per-packet one-way delay: 96.908 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 102.860 ms
Loss rate: 2.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-31 00:15:37

End at: 2018-05-31 00:16:07

Local clock offset: -0.467 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-05-31 03:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.10 Mbit/s

95th percentile per-packet one-way delay: 91.387 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 91.769 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 67.79 Mbit/s

95th percentile per-packet one-way delay: 90.895 ms

Loss rate: 1.19%

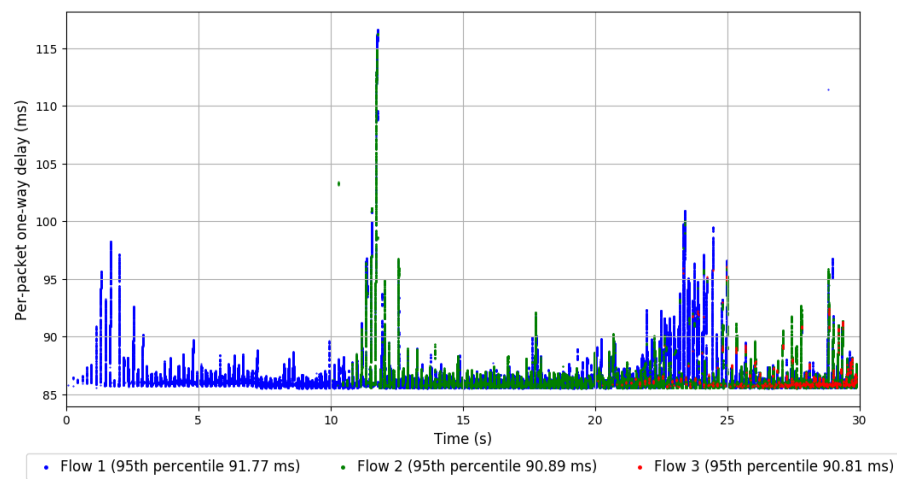
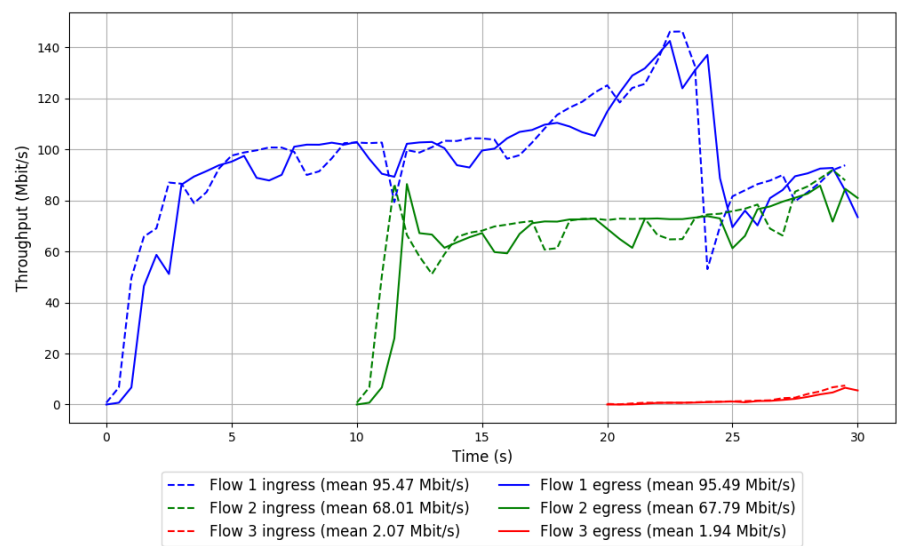
-- Flow 3:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 90.808 ms

Loss rate: 7.82%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-31 00:38:27

End at: 2018-05-31 00:38:57

Local clock offset: -0.022 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-31 03:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.04 Mbit/s

95th percentile per-packet one-way delay: 96.525 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 124.64 Mbit/s

95th percentile per-packet one-way delay: 96.981 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 94.118 ms

Loss rate: 1.15%

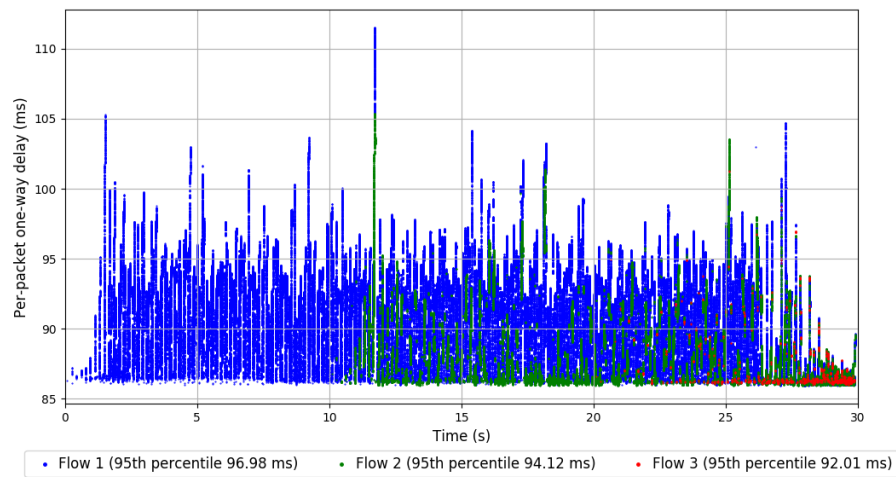
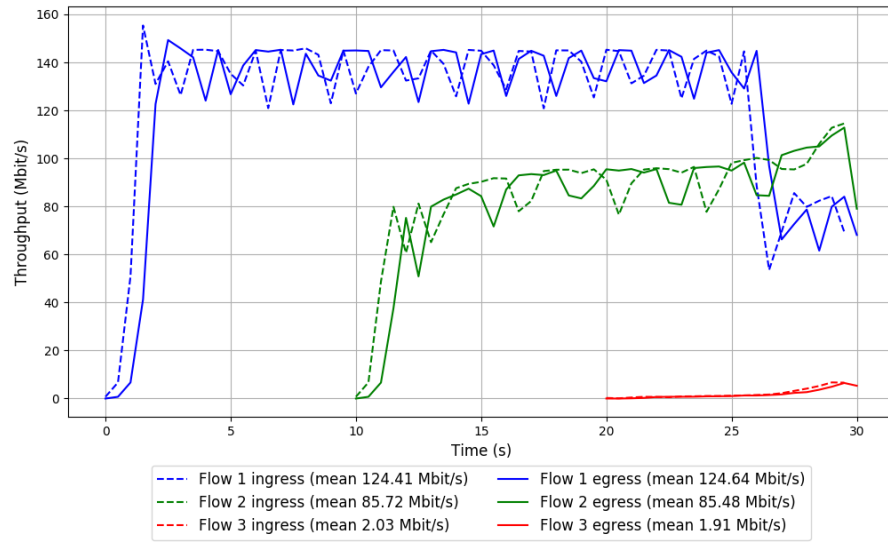
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 92.007 ms

Loss rate: 7.83%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-31 01:01:31

End at: 2018-05-31 01:02:01

Local clock offset: -0.212 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-05-31 03:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 174.60 Mbit/s

95th percentile per-packet one-way delay: 98.157 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 95.433 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 128.91 Mbit/s

95th percentile per-packet one-way delay: 99.231 ms

Loss rate: 0.94%

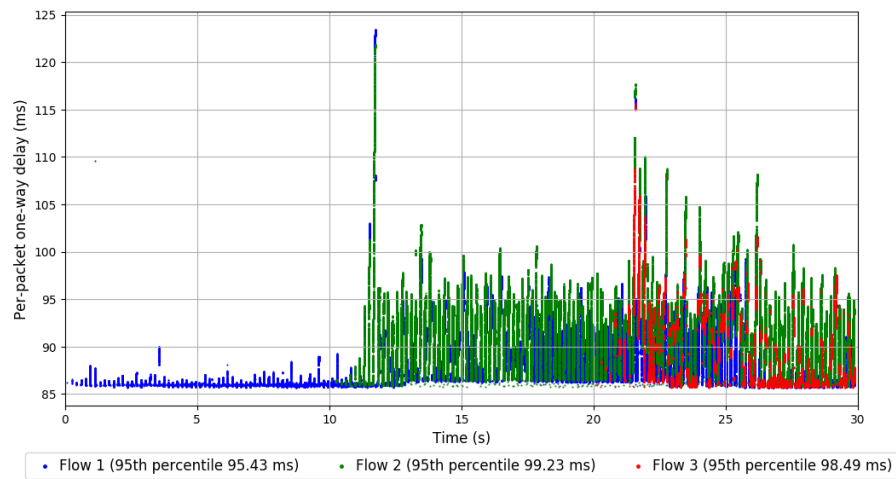
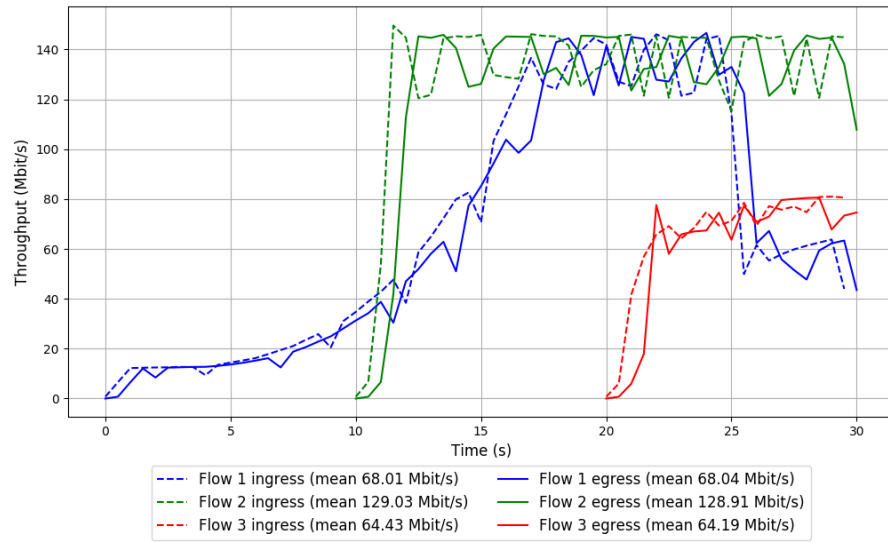
-- Flow 3:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 98.489 ms

Loss rate: 2.10%

Run 4: Report of TCP Cubic — Data Link

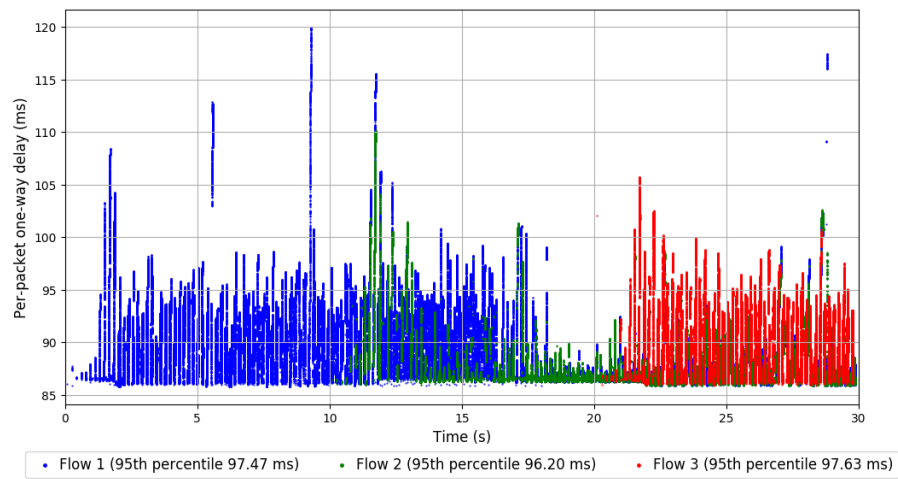
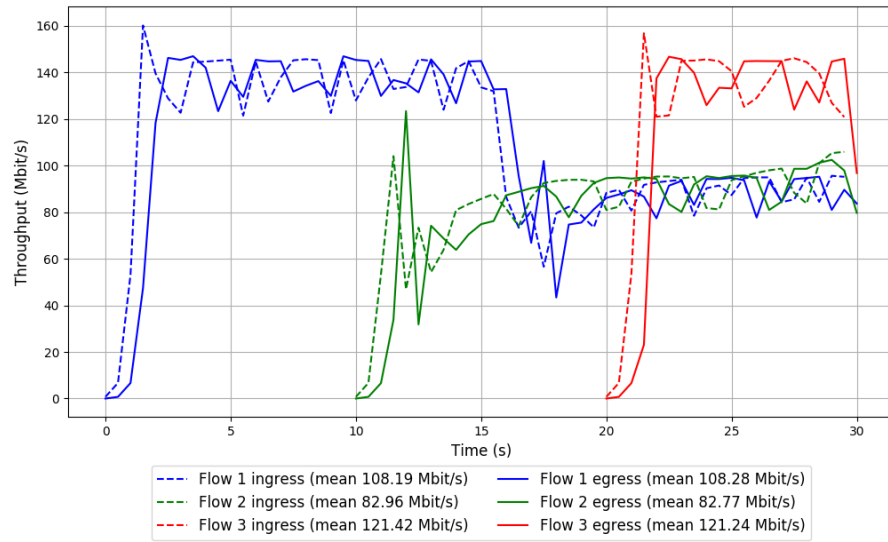


Run 5: Statistics of TCP Cubic

Start at: 2018-05-31 01:24:12
End at: 2018-05-31 01:24:42
Local clock offset: -0.033 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-05-31 04:00:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 202.60 Mbit/s
95th percentile per-packet one-way delay: 97.296 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 108.28 Mbit/s
95th percentile per-packet one-way delay: 97.471 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 82.77 Mbit/s
95th percentile per-packet one-way delay: 96.196 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 121.24 Mbit/s
95th percentile per-packet one-way delay: 97.634 ms
Loss rate: 2.02%

Run 5: Report of TCP Cubic — Data Link

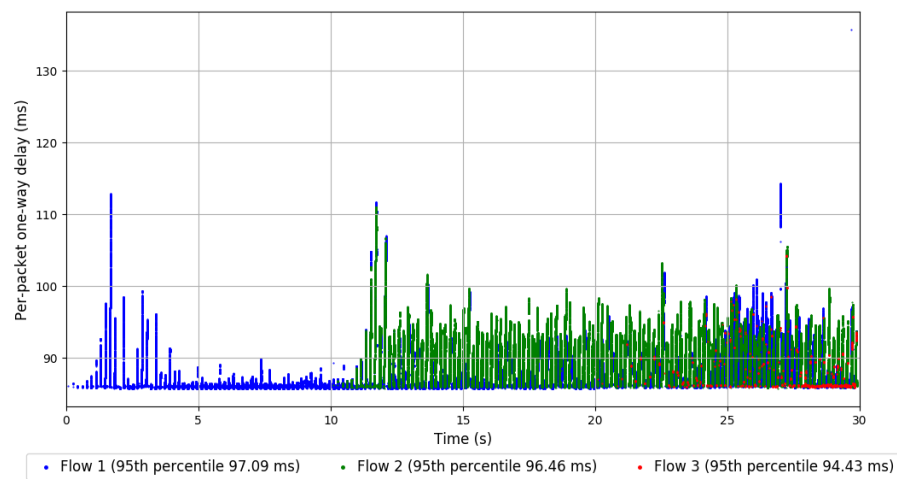
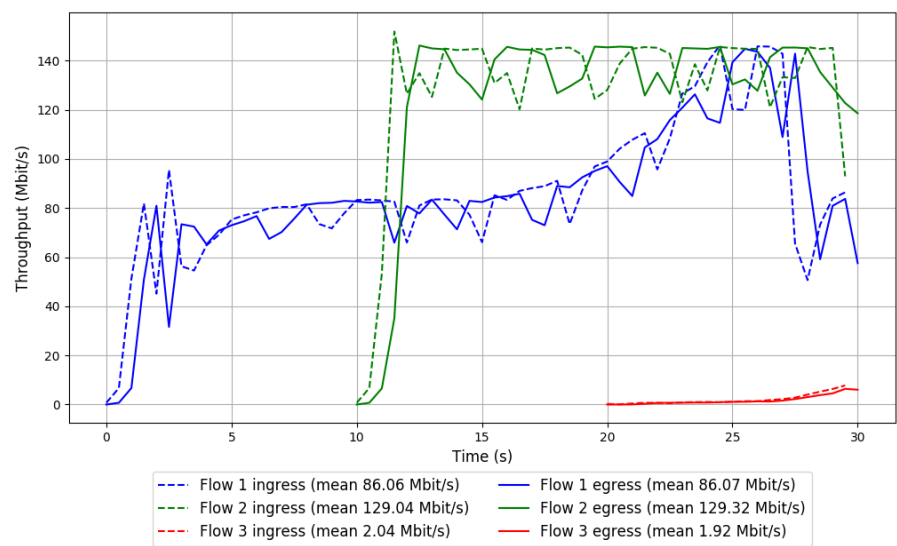


Run 6: Statistics of TCP Cubic

Start at: 2018-05-31 01:47:14
End at: 2018-05-31 01:47:44
Local clock offset: -0.153 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-31 04:00:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.53 Mbit/s
95th percentile per-packet one-way delay: 96.623 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 97.088 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 129.32 Mbit/s
95th percentile per-packet one-way delay: 96.461 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 94.428 ms
Loss rate: 7.90%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-31 02:10:27

End at: 2018-05-31 02:10:57

Local clock offset: -0.272 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-05-31 04:01:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.28 Mbit/s

95th percentile per-packet one-way delay: 109.062 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 91.35 Mbit/s

95th percentile per-packet one-way delay: 107.299 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 126.92 Mbit/s

95th percentile per-packet one-way delay: 109.011 ms

Loss rate: 0.96%

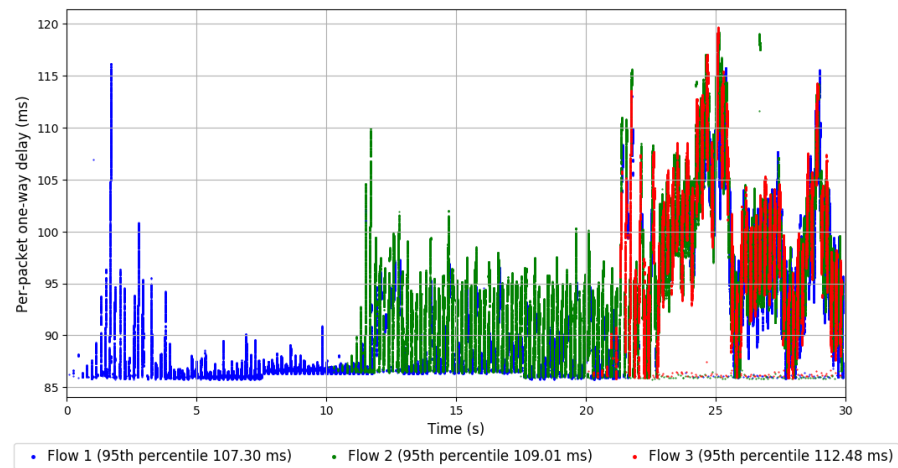
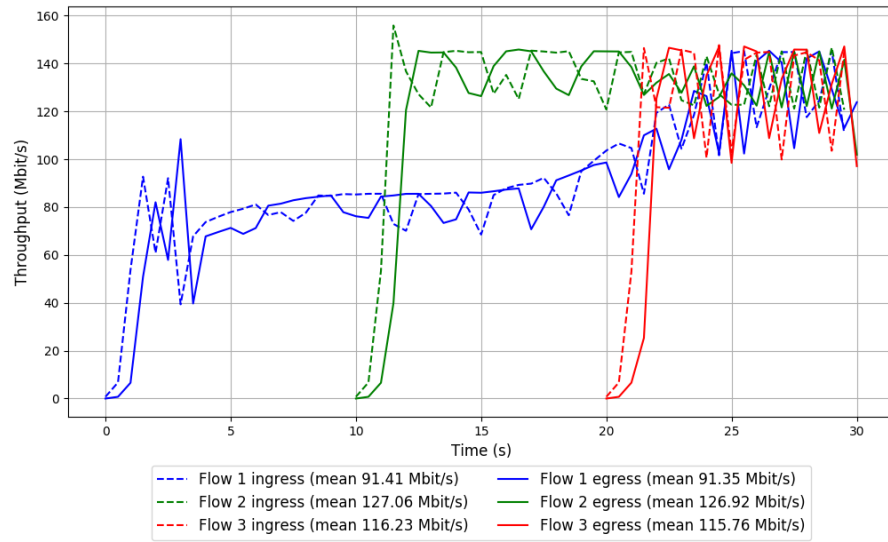
-- Flow 3:

Average throughput: 115.76 Mbit/s

95th percentile per-packet one-way delay: 112.477 ms

Loss rate: 2.09%

Run 7: Report of TCP Cubic — Data Link

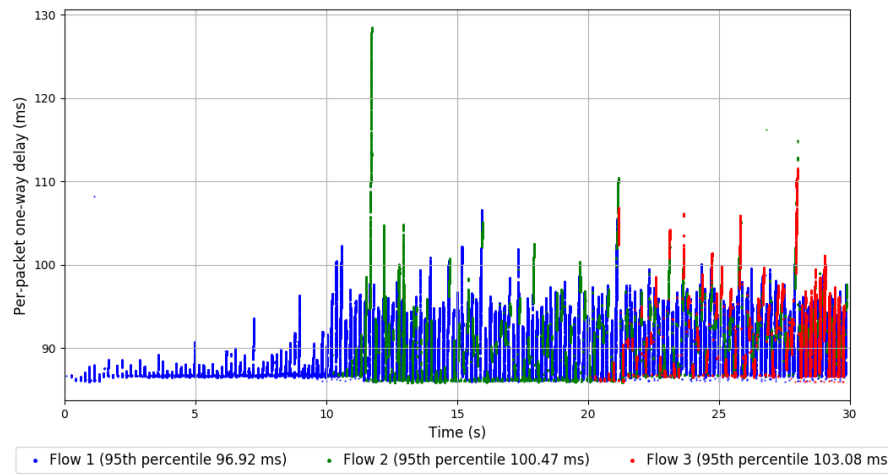
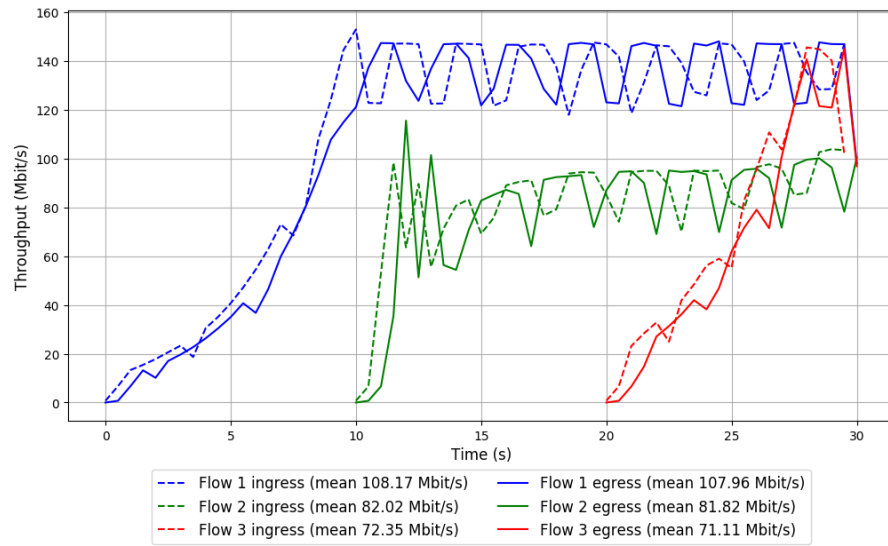


Run 8: Statistics of TCP Cubic

Start at: 2018-05-31 02:33:43
End at: 2018-05-31 02:34:13
Local clock offset: -0.293 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-31 04:01:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 185.25 Mbit/s
95th percentile per-packet one-way delay: 98.739 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 107.96 Mbit/s
95th percentile per-packet one-way delay: 96.919 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 100.475 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 103.082 ms
Loss rate: 3.39%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-31 02:56:48

End at: 2018-05-31 02:57:18

Local clock offset: -0.192 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-05-31 04:01:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.06 Mbit/s

95th percentile per-packet one-way delay: 97.109 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 103.37 Mbit/s

95th percentile per-packet one-way delay: 97.176 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 98.083 ms

Loss rate: 3.89%

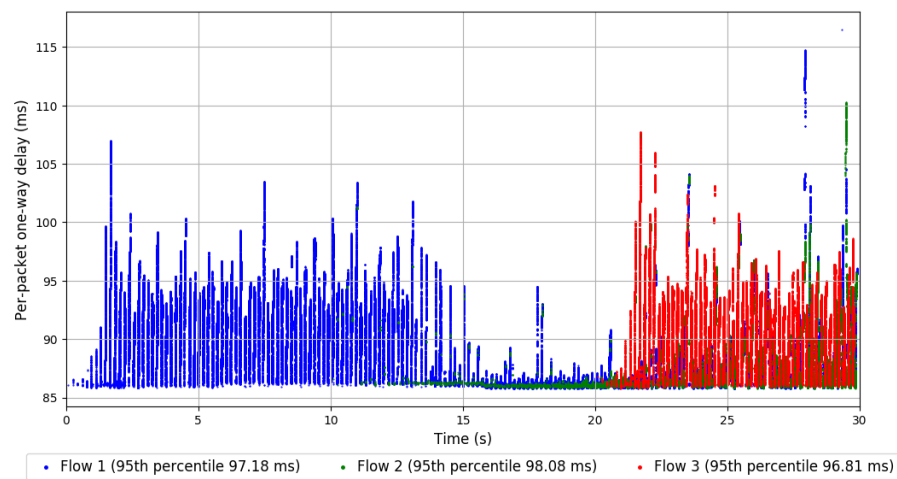
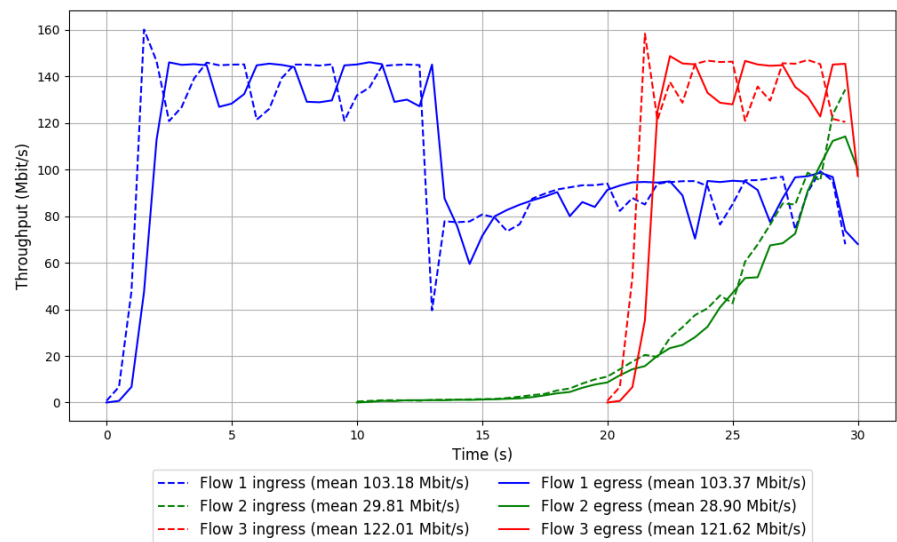
-- Flow 3:

Average throughput: 121.62 Mbit/s

95th percentile per-packet one-way delay: 96.805 ms

Loss rate: 2.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-31 03:20:07

End at: 2018-05-31 03:20:37

Local clock offset: -0.142 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-31 04:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.27 Mbit/s

95th percentile per-packet one-way delay: 102.947 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 102.342 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 128.31 Mbit/s

95th percentile per-packet one-way delay: 103.766 ms

Loss rate: 0.95%

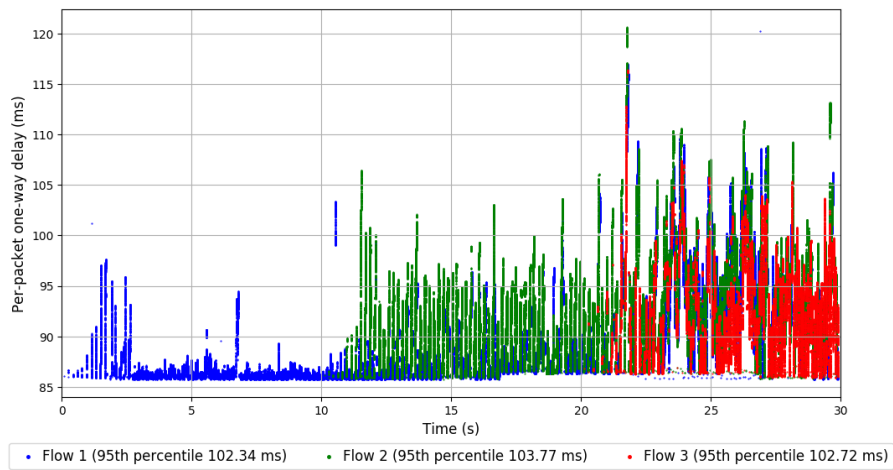
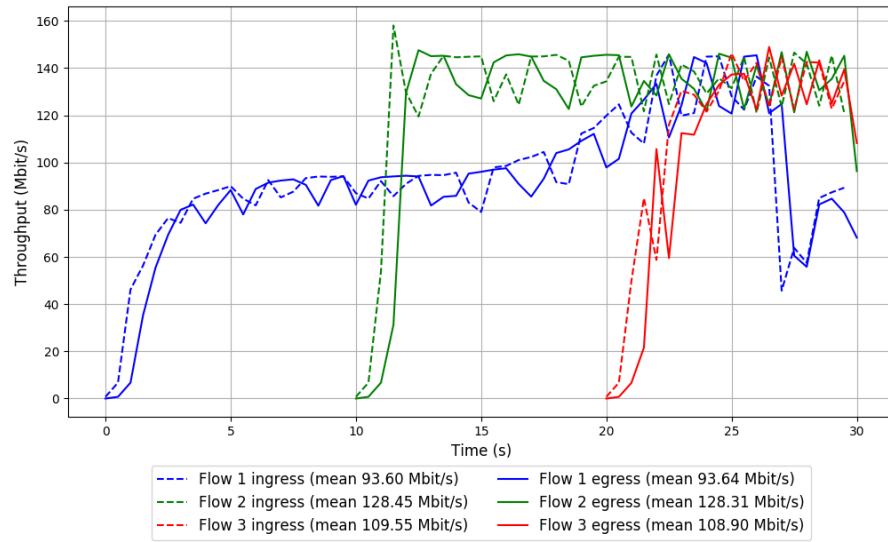
-- Flow 3:

Average throughput: 108.90 Mbit/s

95th percentile per-packet one-way delay: 102.719 ms

Loss rate: 2.32%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-30 23:58:35

End at: 2018-05-30 23:59:05

Local clock offset: -0.094 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-05-31 04:16:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 822.22 Mbit/s

95th percentile per-packet one-way delay: 308.302 ms

Loss rate: 3.33%

-- Flow 1:

Average throughput: 461.53 Mbit/s

95th percentile per-packet one-way delay: 313.459 ms

Loss rate: 3.30%

-- Flow 2:

Average throughput: 244.96 Mbit/s

95th percentile per-packet one-way delay: 313.435 ms

Loss rate: 4.01%

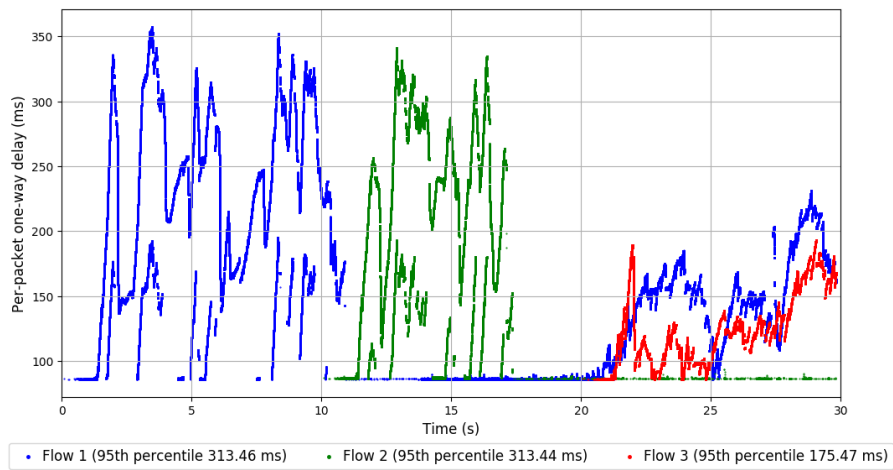
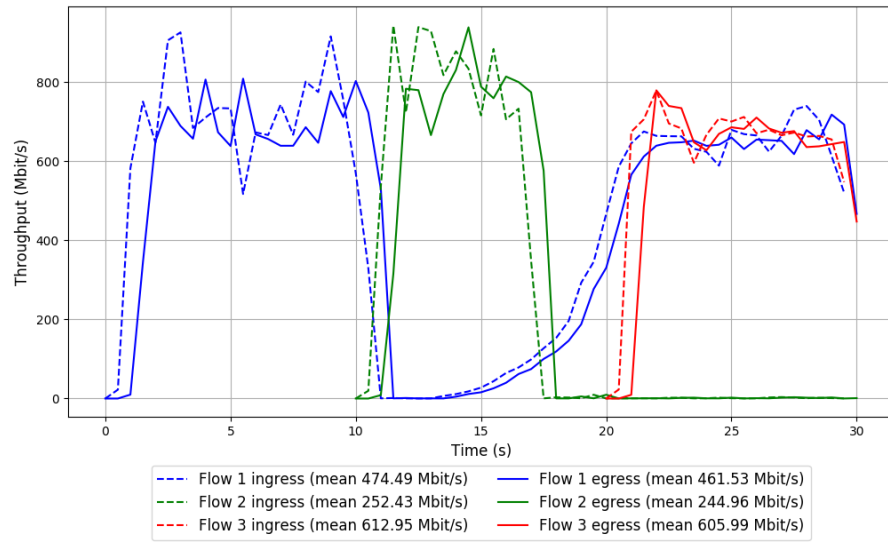
-- Flow 3:

Average throughput: 605.99 Mbit/s

95th percentile per-packet one-way delay: 175.471 ms

Loss rate: 2.86%

Run 1: Report of FillP — Data Link

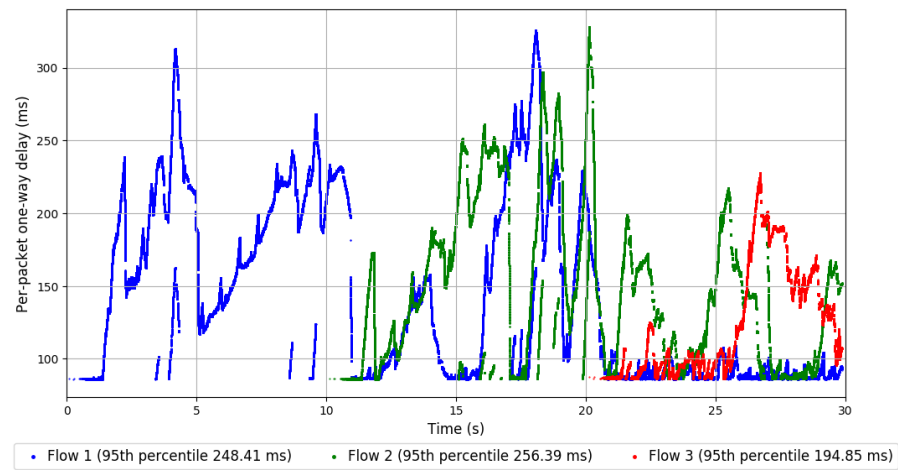
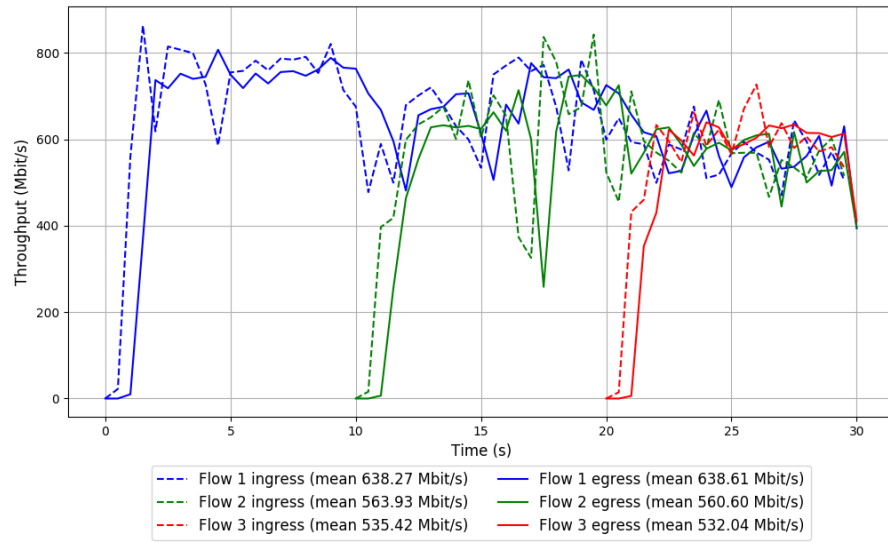


Run 2: Statistics of FillP

Start at: 2018-05-31 00:21:19
End at: 2018-05-31 00:21:49
Local clock offset: -0.042 ms
Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-31 04:25:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 1184.26 Mbit/s
95th percentile per-packet one-way delay: 246.768 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 638.61 Mbit/s
95th percentile per-packet one-way delay: 248.407 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 560.60 Mbit/s
95th percentile per-packet one-way delay: 256.389 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 532.04 Mbit/s
95th percentile per-packet one-way delay: 194.850 ms
Loss rate: 2.37%

Run 2: Report of FillP — Data Link

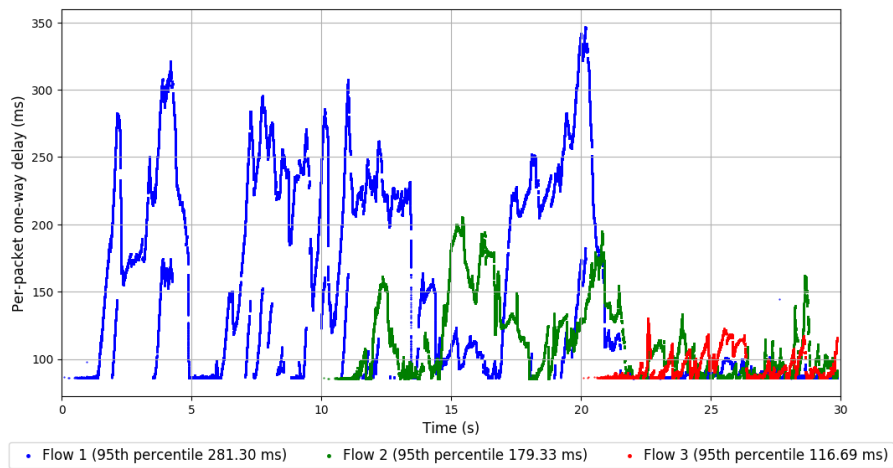
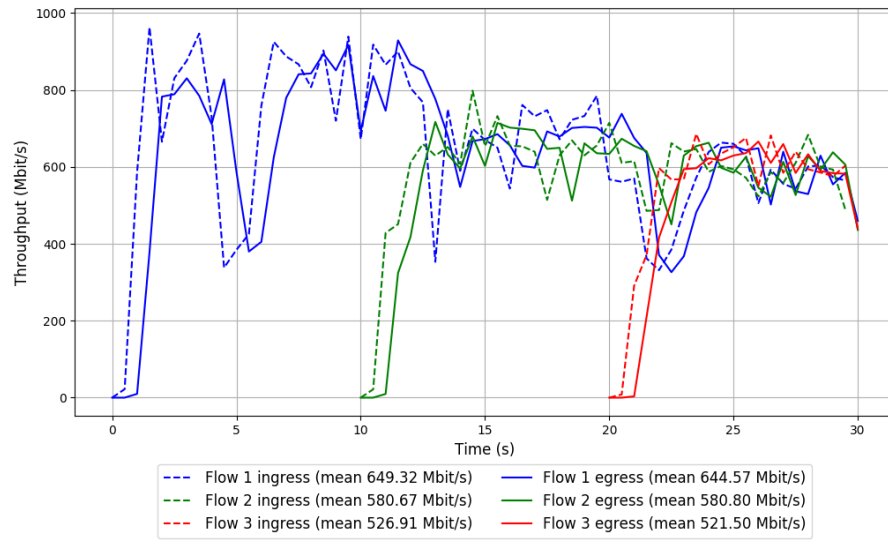


Run 3: Statistics of FillP

Start at: 2018-05-31 00:44:05
End at: 2018-05-31 00:44:35
Local clock offset: -0.442 ms
Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-31 04:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1201.20 Mbit/s
95th percentile per-packet one-way delay: 265.306 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 644.57 Mbit/s
95th percentile per-packet one-way delay: 281.302 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 580.80 Mbit/s
95th percentile per-packet one-way delay: 179.329 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 521.50 Mbit/s
95th percentile per-packet one-way delay: 116.686 ms
Loss rate: 2.76%

Run 3: Report of FillP — Data Link

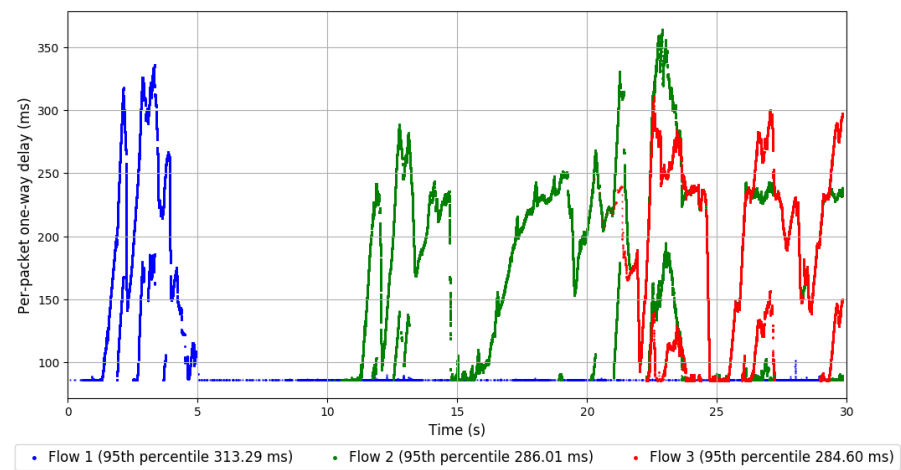
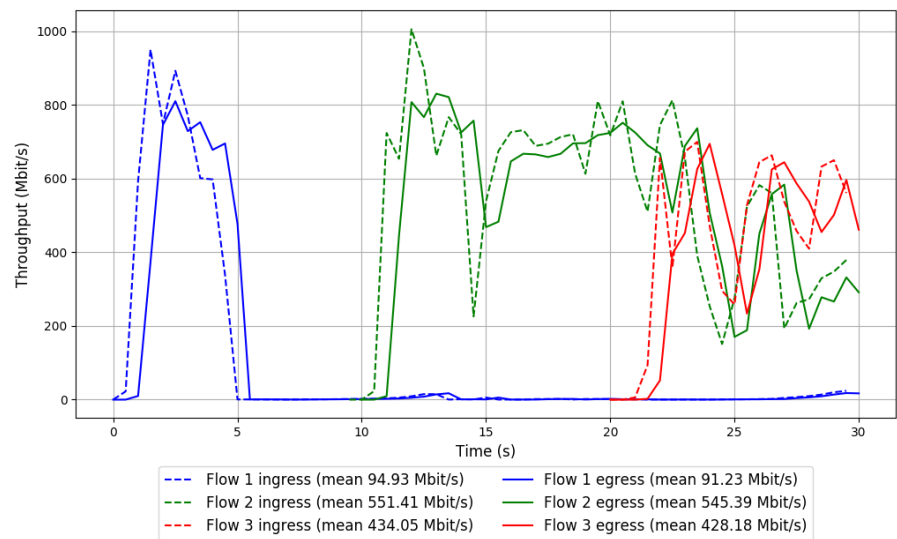


Run 4: Statistics of FillP

Start at: 2018-05-31 01:07:14
End at: 2018-05-31 01:07:44
Local clock offset: -0.181 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-05-31 04:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 591.01 Mbit/s
95th percentile per-packet one-way delay: 297.176 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 313.291 ms
Loss rate: 4.46%
-- Flow 2:
Average throughput: 545.39 Mbit/s
95th percentile per-packet one-way delay: 286.014 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 428.18 Mbit/s
95th percentile per-packet one-way delay: 284.604 ms
Loss rate: 4.68%

Run 4: Report of FillP — Data Link

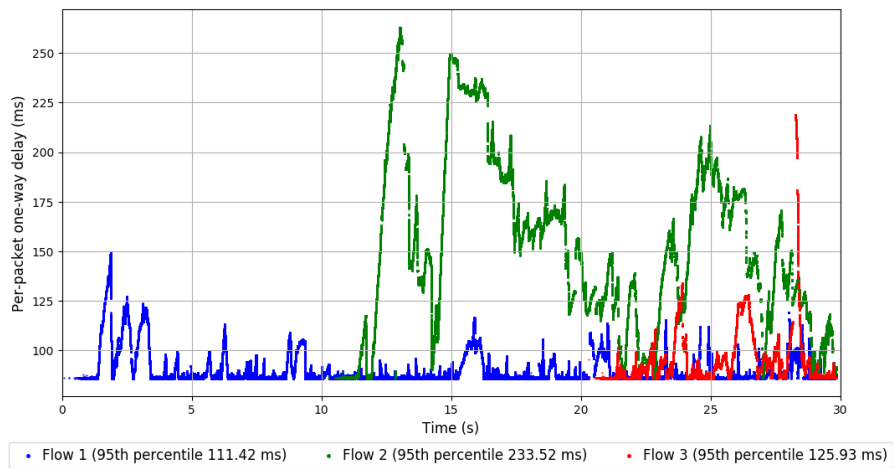
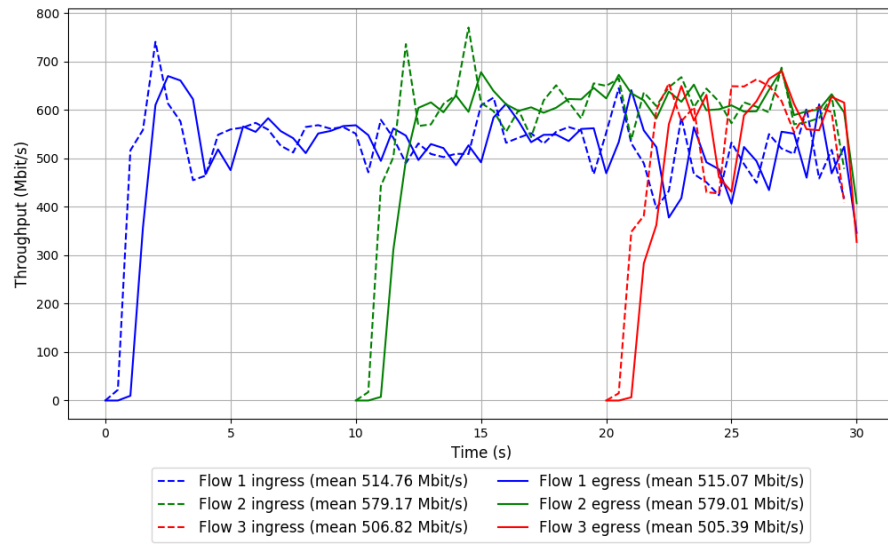


Run 5: Statistics of FillP

Start at: 2018-05-31 01:29:58
End at: 2018-05-31 01:30:28
Local clock offset: -0.072 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-05-31 04:27:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1064.54 Mbit/s
95th percentile per-packet one-way delay: 202.674 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 515.07 Mbit/s
95th percentile per-packet one-way delay: 111.425 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 579.01 Mbit/s
95th percentile per-packet one-way delay: 233.523 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 505.39 Mbit/s
95th percentile per-packet one-way delay: 125.934 ms
Loss rate: 2.02%

Run 5: Report of FillP — Data Link

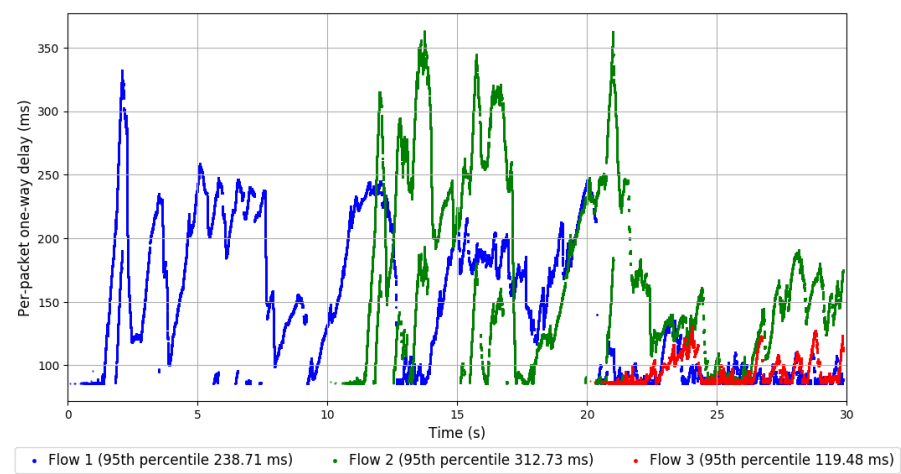
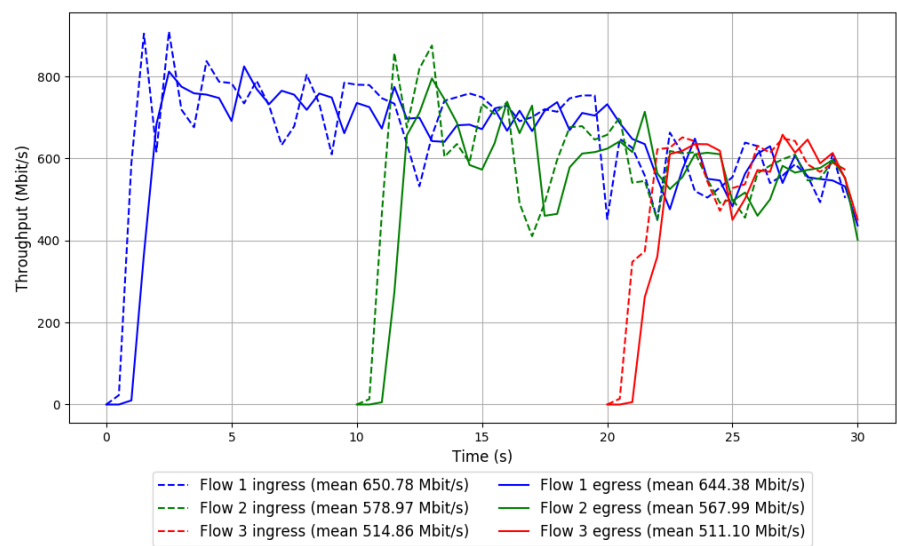


Run 6: Statistics of FillP

Start at: 2018-05-31 01:52:58
End at: 2018-05-31 01:53:28
Local clock offset: -0.239 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-05-31 04:27:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 1188.21 Mbit/s
95th percentile per-packet one-way delay: 261.972 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 644.38 Mbit/s
95th percentile per-packet one-way delay: 238.708 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 567.99 Mbit/s
95th percentile per-packet one-way delay: 312.727 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 511.10 Mbit/s
95th percentile per-packet one-way delay: 119.477 ms
Loss rate: 2.47%

Run 6: Report of FillP — Data Link

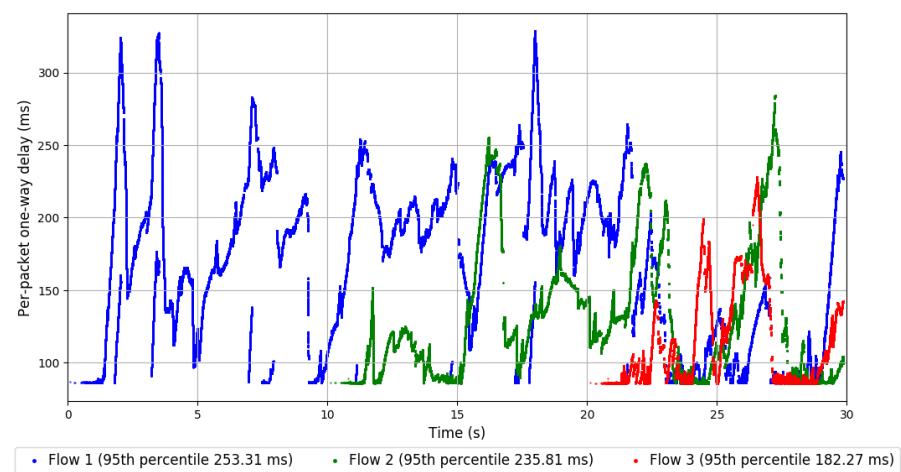
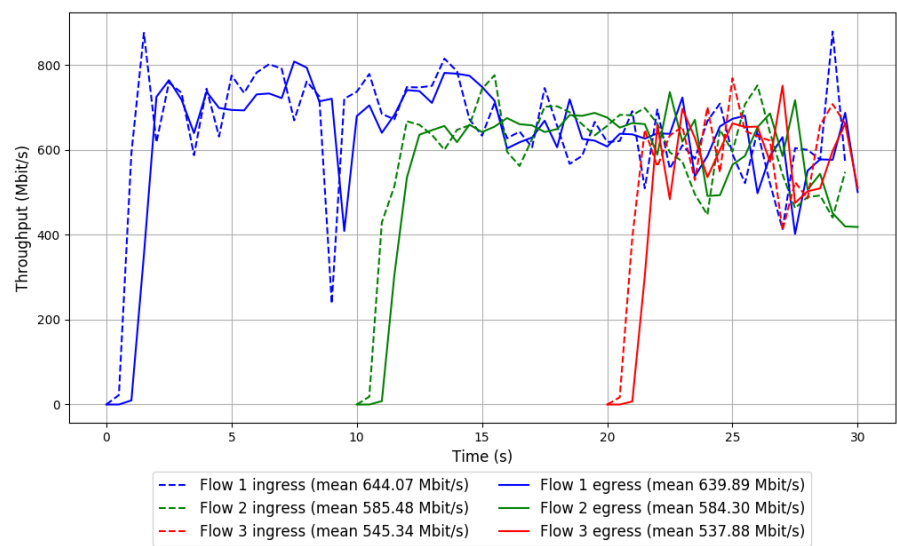


Run 7: Statistics of FillP

Start at: 2018-05-31 02:16:18
End at: 2018-05-31 02:16:48
Local clock offset: -0.306 ms
Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-05-31 04:28:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 1203.18 Mbit/s
95th percentile per-packet one-way delay: 243.704 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 639.89 Mbit/s
95th percentile per-packet one-way delay: 253.310 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 584.30 Mbit/s
95th percentile per-packet one-way delay: 235.806 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 537.88 Mbit/s
95th percentile per-packet one-way delay: 182.269 ms
Loss rate: 3.10%

Run 7: Report of FillP — Data Link

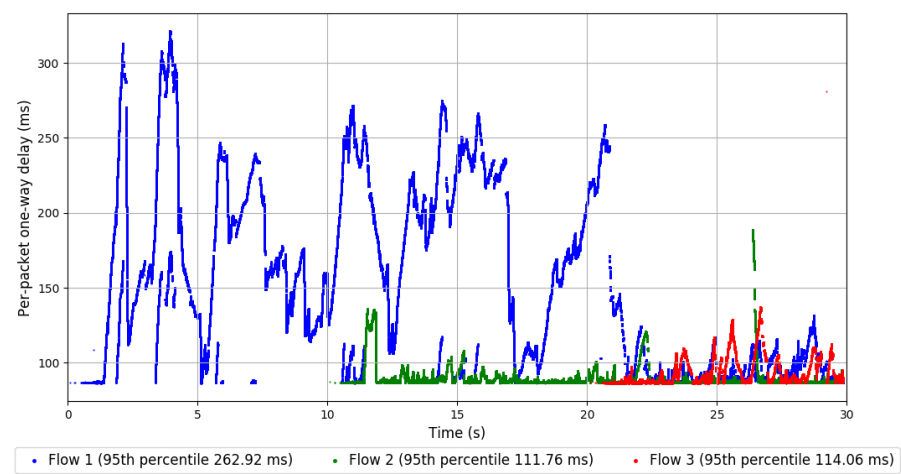
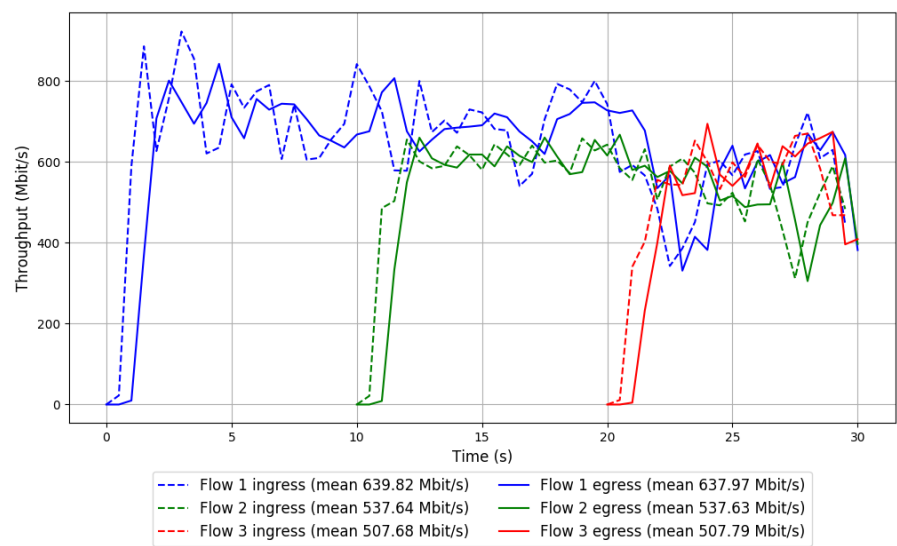


Run 8: Statistics of FillP

Start at: 2018-05-31 02:39:19
End at: 2018-05-31 02:39:49
Local clock offset: -0.163 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-31 04:28:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1160.46 Mbit/s
95th percentile per-packet one-way delay: 245.403 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 637.97 Mbit/s
95th percentile per-packet one-way delay: 262.917 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 537.63 Mbit/s
95th percentile per-packet one-way delay: 111.761 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 507.79 Mbit/s
95th percentile per-packet one-way delay: 114.056 ms
Loss rate: 1.75%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-31 03:02:33

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

Local clock offset: -0.279 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-31 04:42:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 1191.66 Mbit/s

95th percentile per-packet one-way delay: 297.109 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 619.72 Mbit/s

95th percentile per-packet one-way delay: 313.271 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 597.91 Mbit/s

95th percentile per-packet one-way delay: 294.293 ms

Loss rate: 2.25%

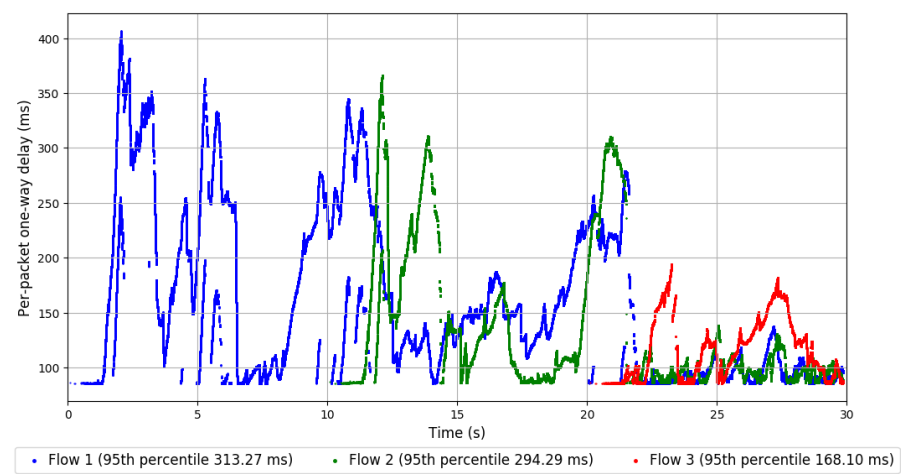
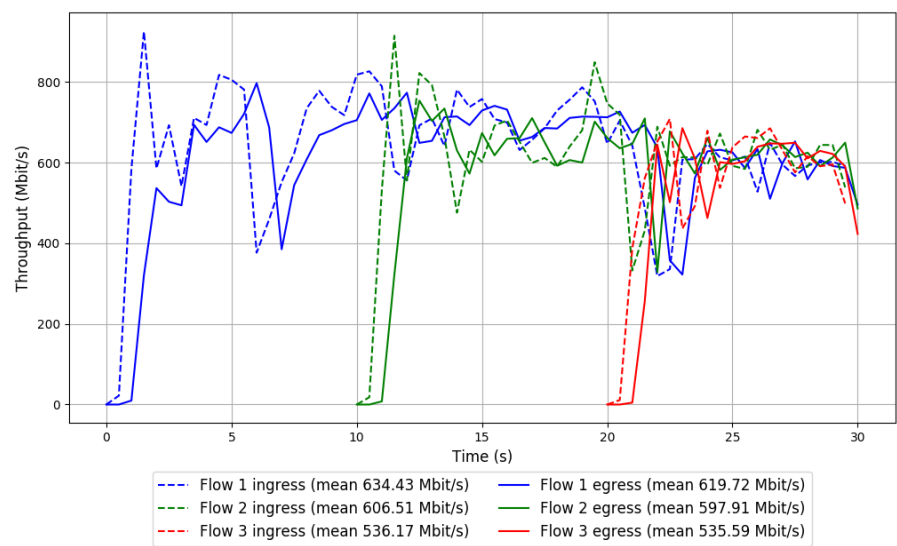
-- Flow 3:

Average throughput: 535.59 Mbit/s

95th percentile per-packet one-way delay: 168.100 ms

Loss rate: 1.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-31 03:25:51

End at: 2018-05-31 03:26:21

Local clock offset: -0.129 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 1153.48 Mbit/s

95th percentile per-packet one-way delay: 304.238 ms

Loss rate: 3.38%

-- Flow 1:

Average throughput: 601.22 Mbit/s

95th percentile per-packet one-way delay: 309.725 ms

Loss rate: 3.71%

-- Flow 2:

Average throughput: 568.58 Mbit/s

95th percentile per-packet one-way delay: 303.678 ms

Loss rate: 3.48%

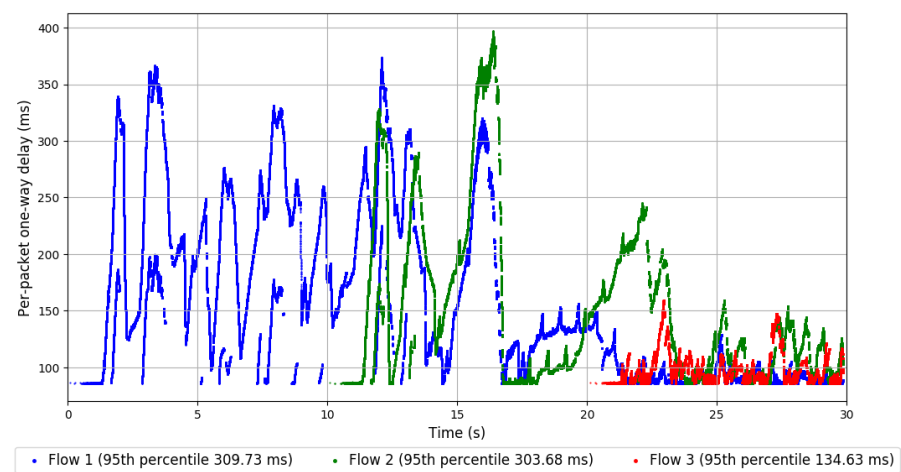
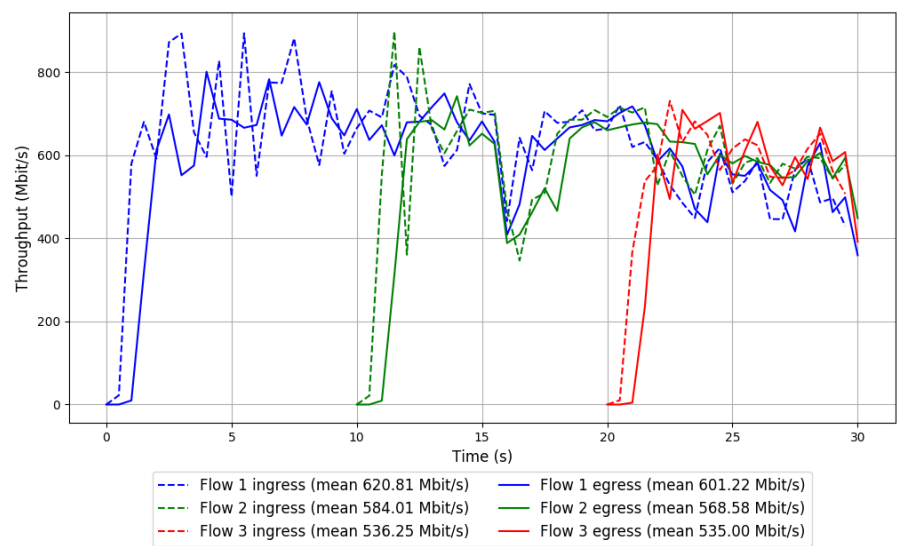
-- Flow 3:

Average throughput: 535.00 Mbit/s

95th percentile per-packet one-way delay: 134.626 ms

Loss rate: 1.98%

Run 10: Report of FillP — Data Link

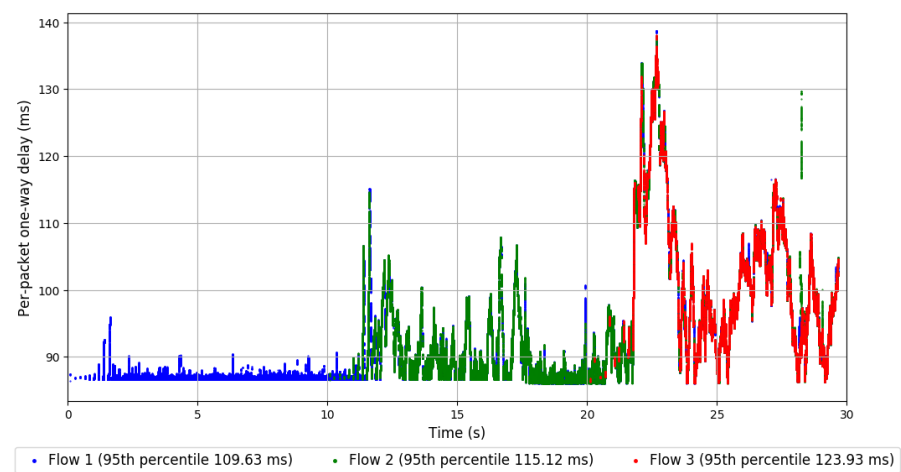
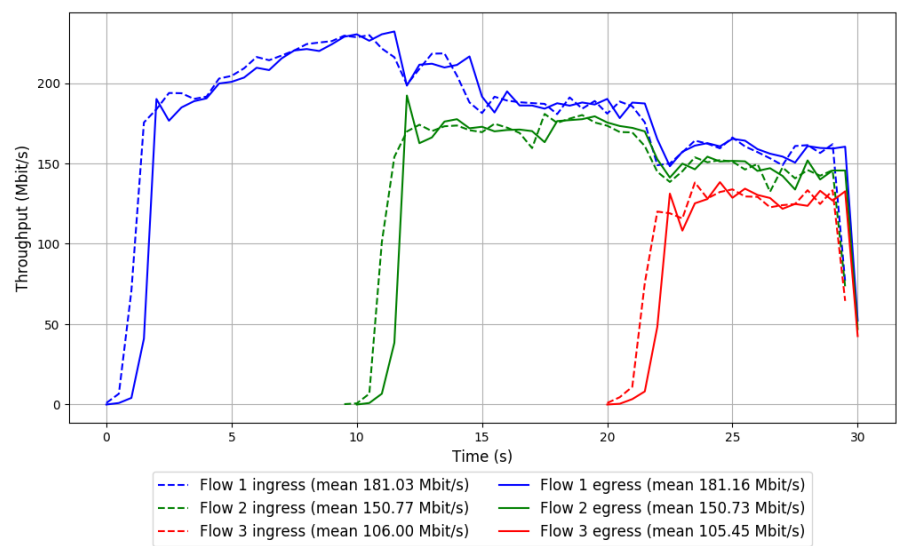


```
Run 1: Statistics of Indigo

Start at: 2018-05-30 23:45:46
End at: 2018-05-30 23:46:16
Local clock offset: 0.105 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2018-05-31 04:46:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.12 Mbit/s
95th percentile per-packet one-way delay: 113.923 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 181.16 Mbit/s
95th percentile per-packet one-way delay: 109.634 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 150.73 Mbit/s
95th percentile per-packet one-way delay: 115.116 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 105.45 Mbit/s
95th percentile per-packet one-way delay: 123.926 ms
Loss rate: 2.28%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-31 00:08:31

End at: 2018-05-31 00:09:01

Local clock offset: -0.034 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.59 Mbit/s

95th percentile per-packet one-way delay: 124.231 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 178.01 Mbit/s

95th percentile per-packet one-way delay: 118.916 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 125.288 ms

Loss rate: 0.87%

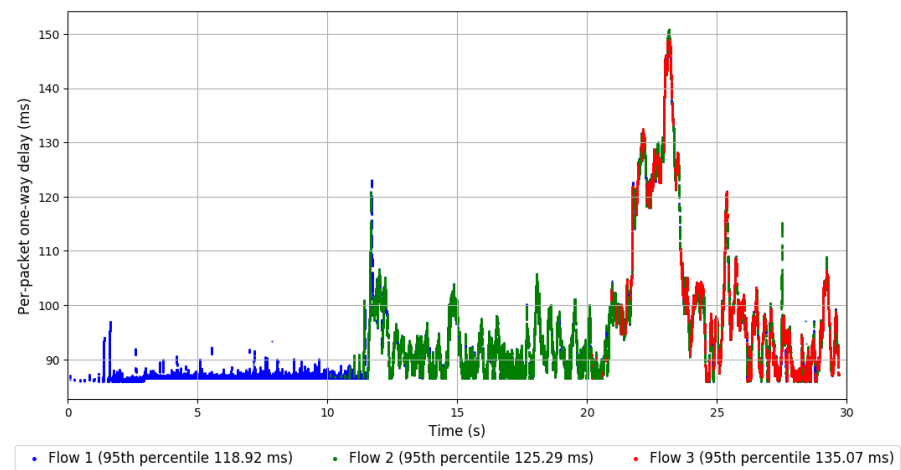
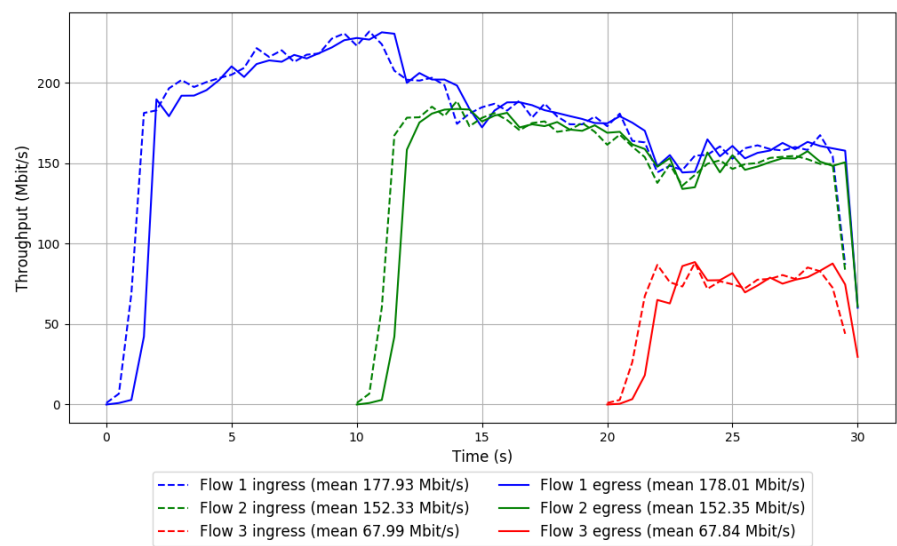
-- Flow 3:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 135.071 ms

Loss rate: 1.99%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-31 00:31:17

End at: 2018-05-31 00:31:47

Local clock offset: 0.091 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.65 Mbit/s

95th percentile per-packet one-way delay: 138.779 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 166.72 Mbit/s

95th percentile per-packet one-way delay: 126.119 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 126.50 Mbit/s

95th percentile per-packet one-way delay: 140.960 ms

Loss rate: 0.85%

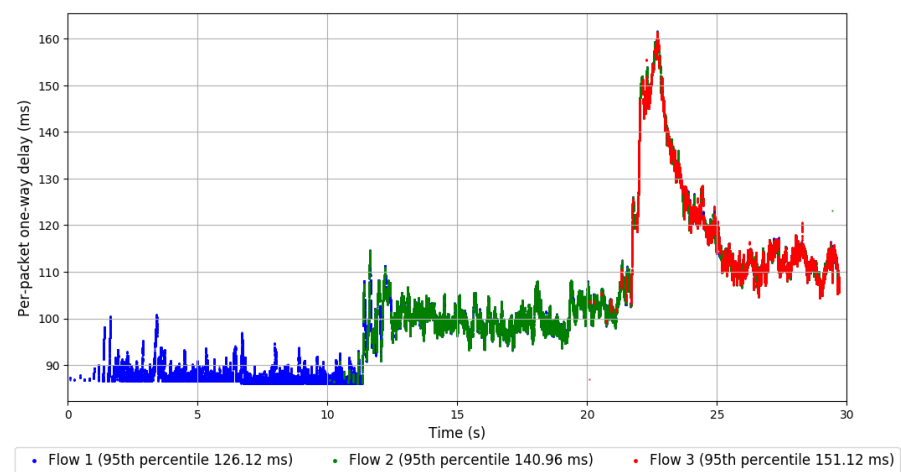
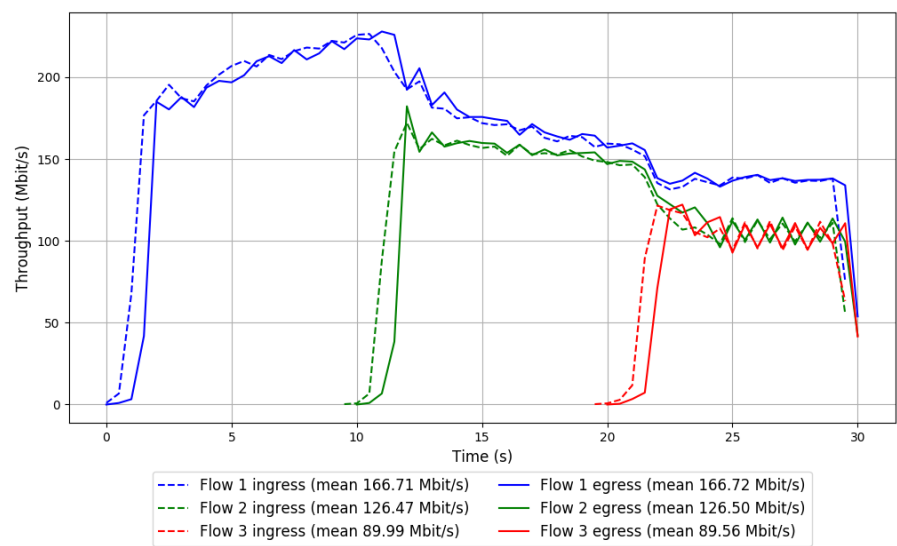
-- Flow 3:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 151.125 ms

Loss rate: 2.24%

Run 3: Report of Indigo — Data Link

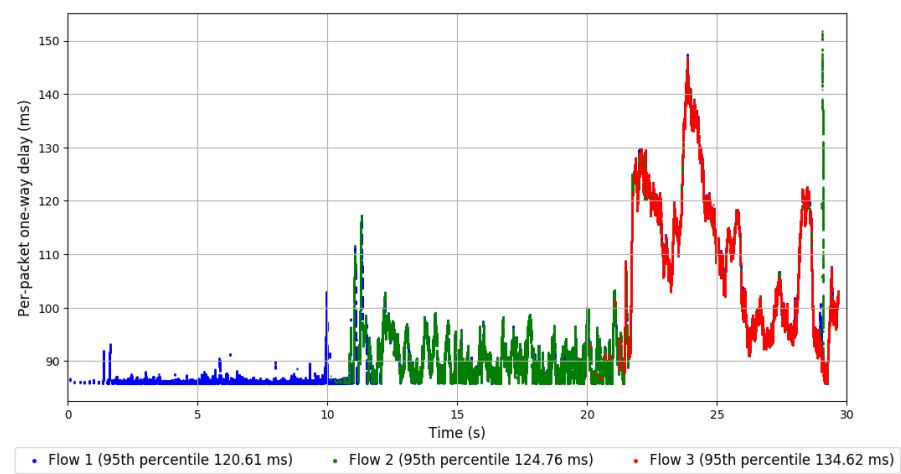
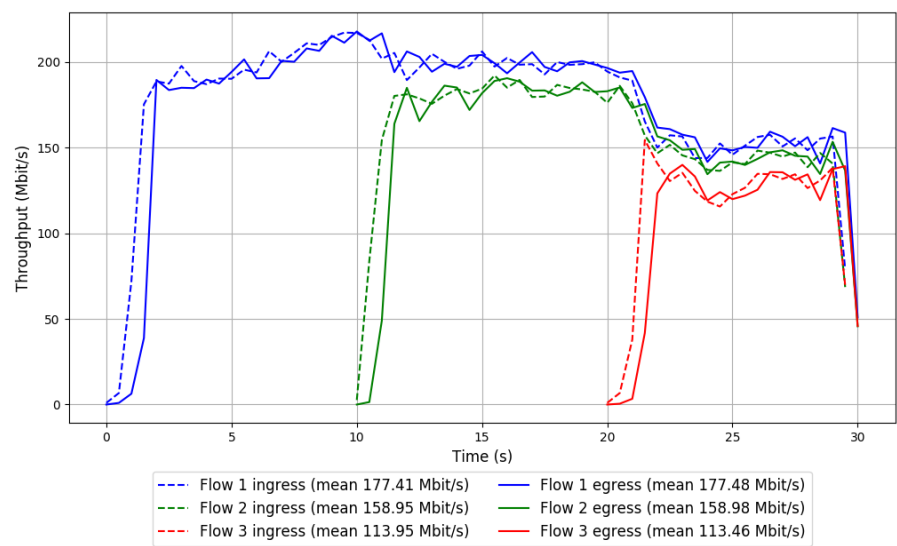


Run 4: Statistics of Indigo

Start at: 2018-05-31 00:54:21
End at: 2018-05-31 00:54:51
Local clock offset: -0.114 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.23 Mbit/s
95th percentile per-packet one-way delay: 124.240 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 177.48 Mbit/s
95th percentile per-packet one-way delay: 120.608 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 158.98 Mbit/s
95th percentile per-packet one-way delay: 124.762 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 113.46 Mbit/s
95th percentile per-packet one-way delay: 134.620 ms
Loss rate: 2.21%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-31 01:17:00

End at: 2018-05-31 01:17:30

Local clock offset: -0.037 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.32 Mbit/s

95th percentile per-packet one-way delay: 122.449 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 170.99 Mbit/s

95th percentile per-packet one-way delay: 116.855 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.93%

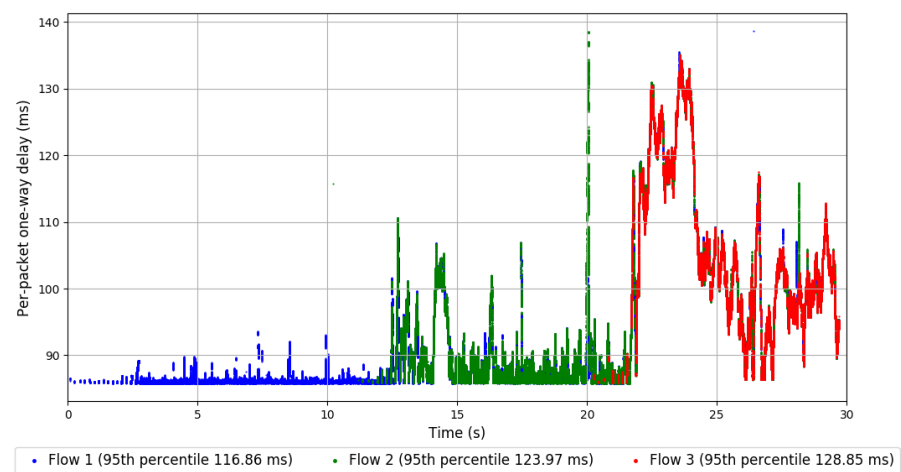
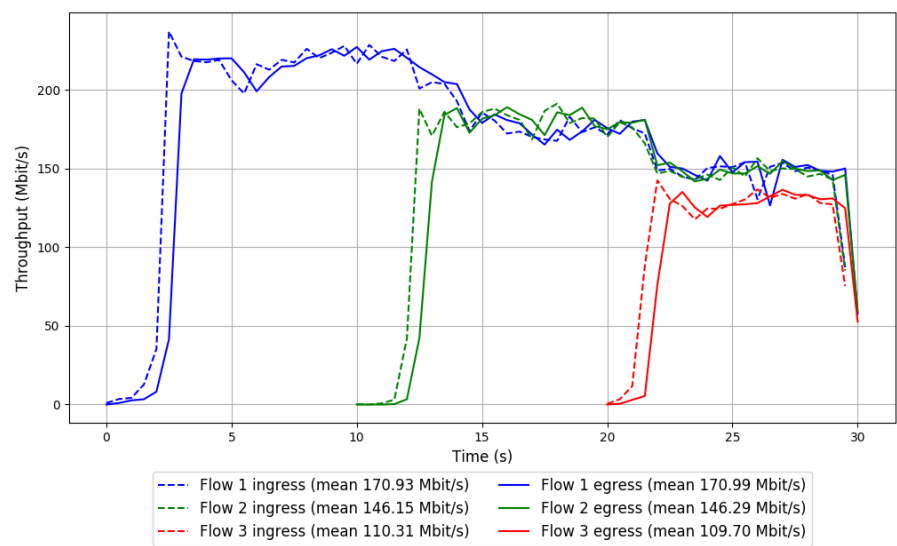
-- Flow 3:

Average throughput: 109.70 Mbit/s

95th percentile per-packet one-way delay: 128.847 ms

Loss rate: 2.34%

Run 5: Report of Indigo — Data Link

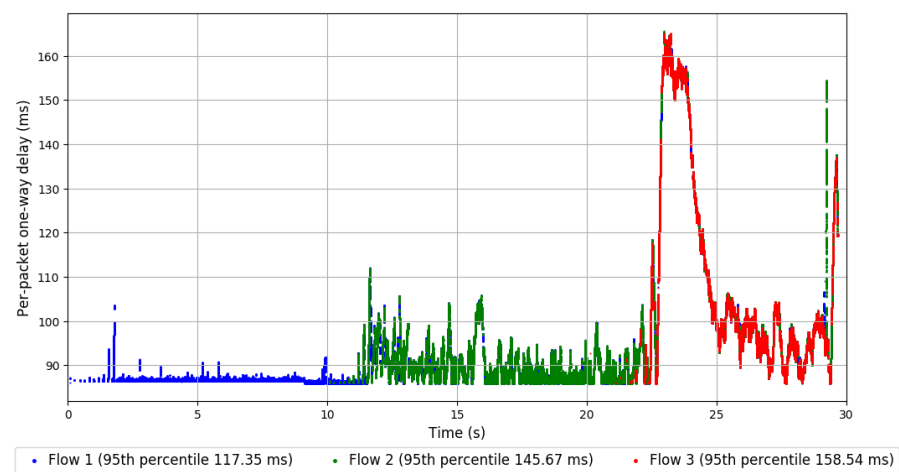
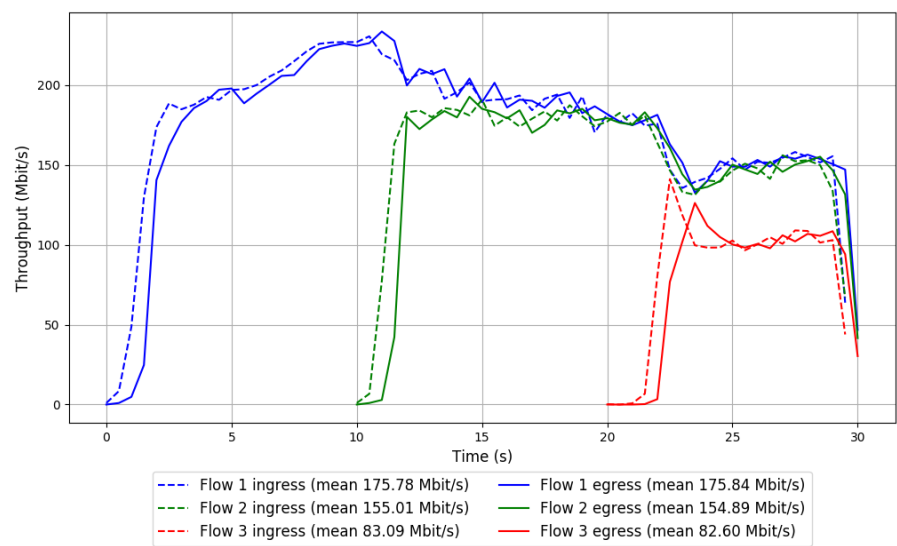


Run 6: Statistics of Indigo

Start at: 2018-05-31 01:40:05
End at: 2018-05-31 01:40:35
Local clock offset: 0.072 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.97 Mbit/s
95th percentile per-packet one-way delay: 142.303 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 175.84 Mbit/s
95th percentile per-packet one-way delay: 117.350 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 154.89 Mbit/s
95th percentile per-packet one-way delay: 145.671 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 158.544 ms
Loss rate: 2.42%

Run 6: Report of Indigo — Data Link

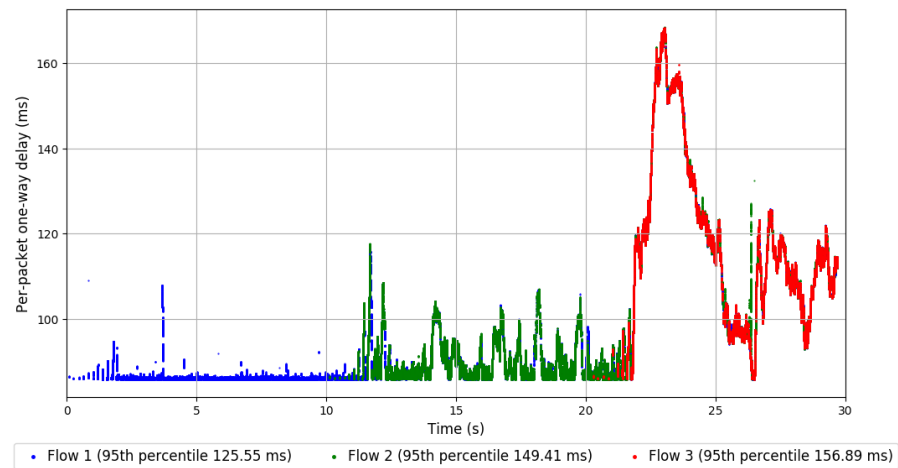
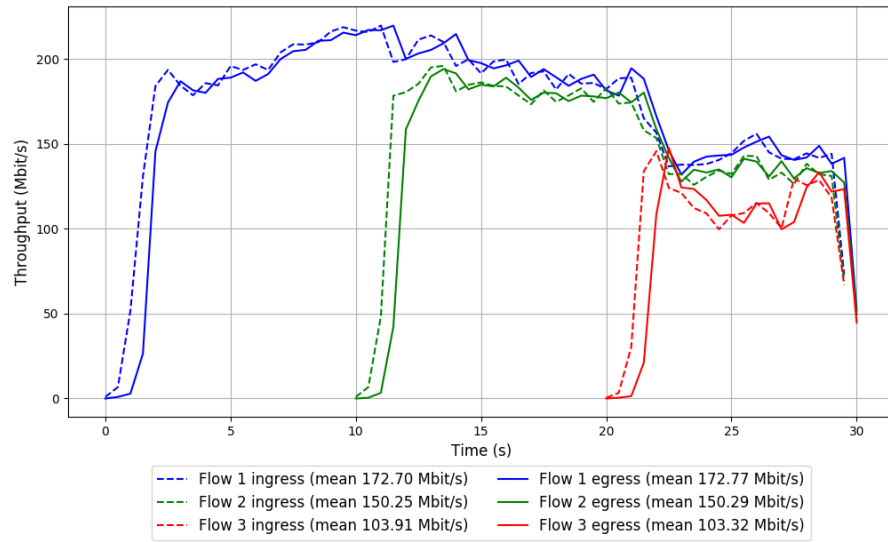


Run 7: Statistics of Indigo

Start at: 2018-05-31 02:03:14
End at: 2018-05-31 02:03:44
Local clock offset: -0.211 ms
Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.87 Mbit/s
95th percentile per-packet one-way delay: 148.752 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 172.77 Mbit/s
95th percentile per-packet one-way delay: 125.549 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 150.29 Mbit/s
95th percentile per-packet one-way delay: 149.406 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 103.32 Mbit/s
95th percentile per-packet one-way delay: 156.890 ms
Loss rate: 2.36%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-31 02:26:36

End at: 2018-05-31 02:27:06

Local clock offset: -0.082 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.85 Mbit/s

95th percentile per-packet one-way delay: 134.120 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 171.85 Mbit/s

95th percentile per-packet one-way delay: 130.473 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 150.78 Mbit/s

95th percentile per-packet one-way delay: 134.407 ms

Loss rate: 0.86%

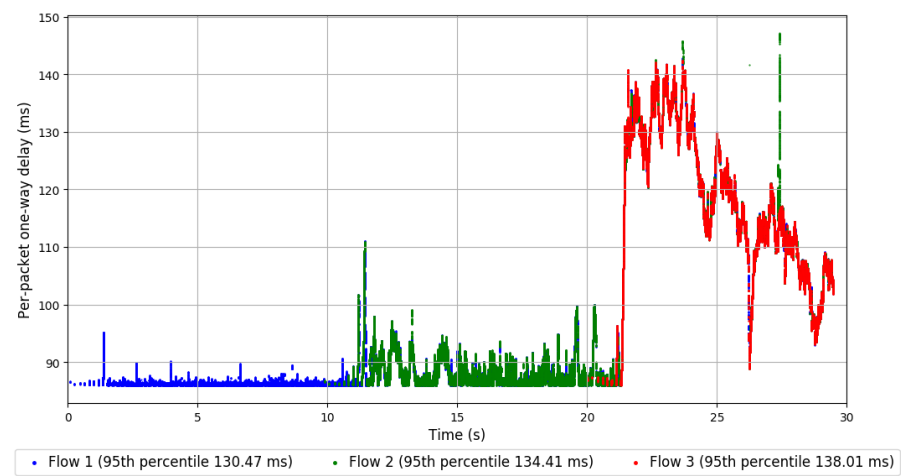
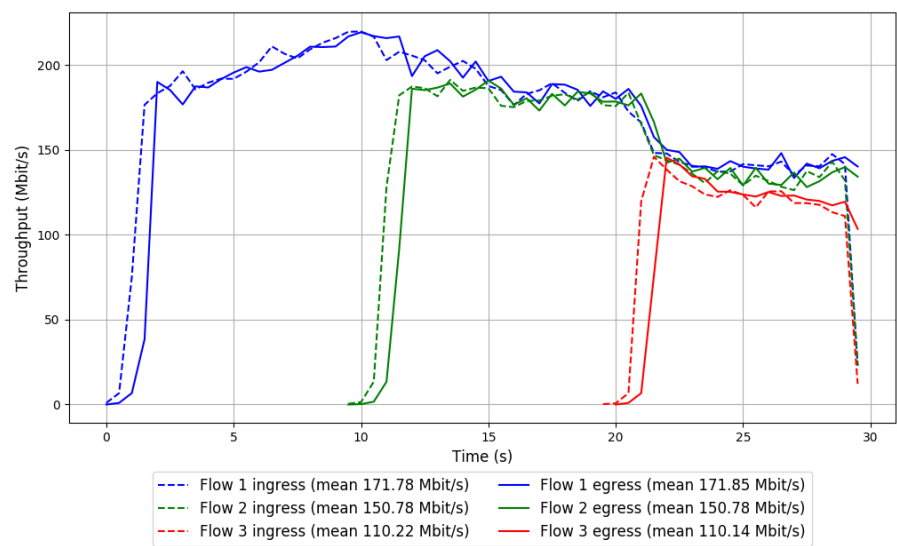
-- Flow 3:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 138.009 ms

Loss rate: 1.85%

Run 8: Report of Indigo — Data Link

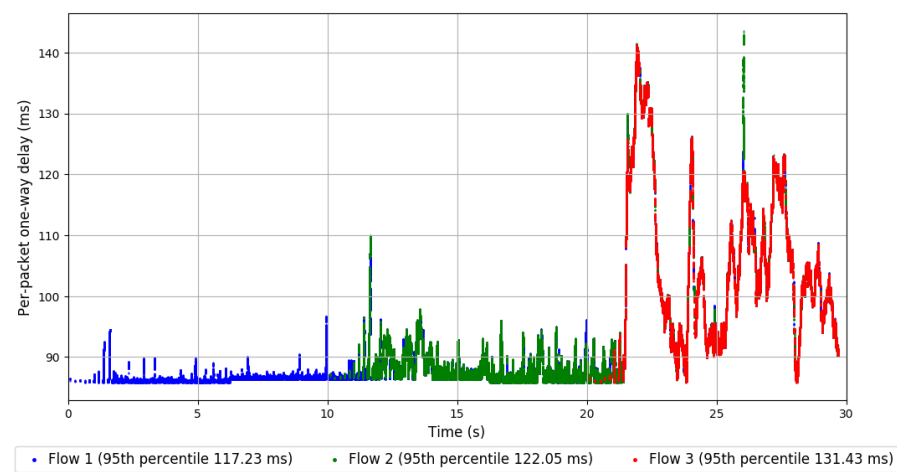
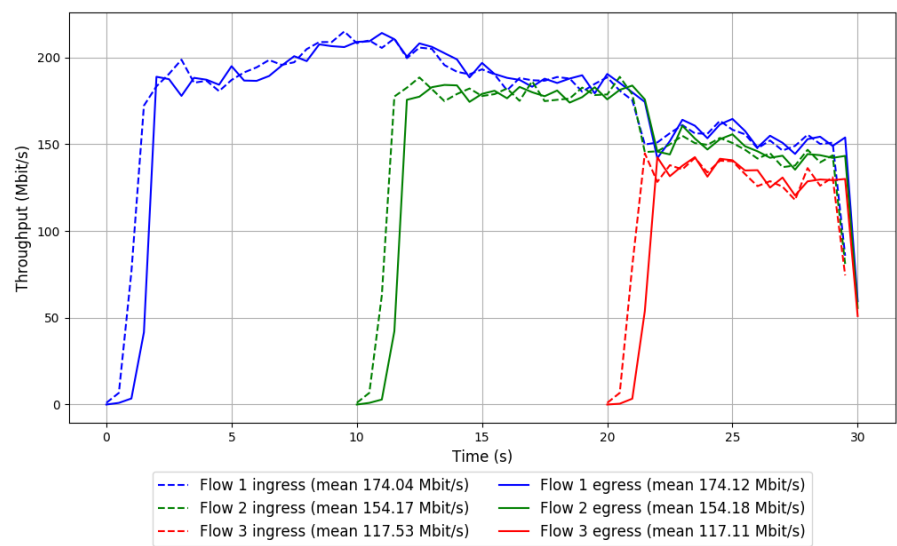


Run 9: Statistics of Indigo

Start at: 2018-05-31 02:49:38
End at: 2018-05-31 02:50:08
Local clock offset: -0.23 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.93 Mbit/s
95th percentile per-packet one-way delay: 121.466 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 174.12 Mbit/s
95th percentile per-packet one-way delay: 117.230 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 154.18 Mbit/s
95th percentile per-packet one-way delay: 122.051 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 117.11 Mbit/s
95th percentile per-packet one-way delay: 131.432 ms
Loss rate: 2.14%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-31 03:12:51

End at: 2018-05-31 03:13:21

Local clock offset: 6.15 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.43 Mbit/s

95th percentile per-packet one-way delay: 137.803 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 177.69 Mbit/s

95th percentile per-packet one-way delay: 131.157 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 148.15 Mbit/s

95th percentile per-packet one-way delay: 138.113 ms

Loss rate: 0.88%

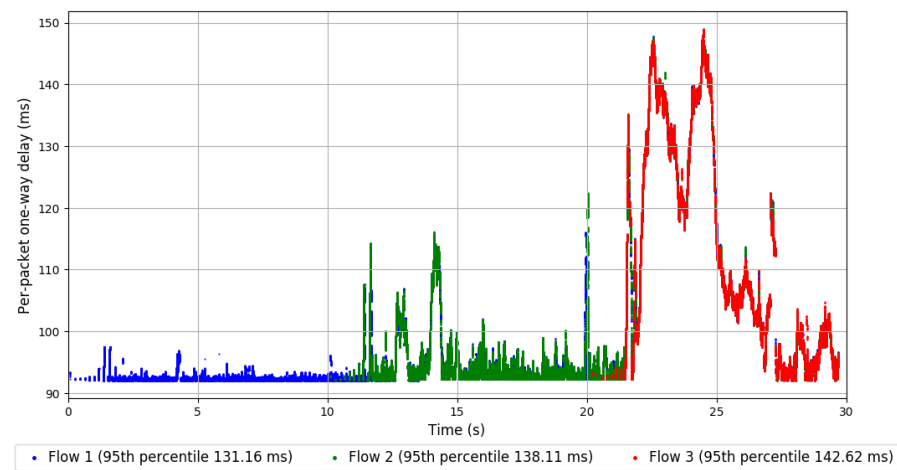
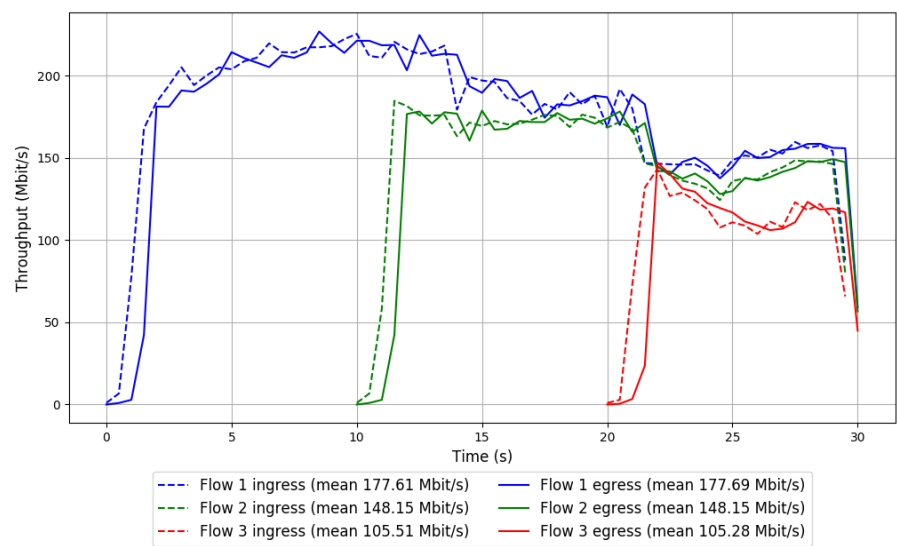
-- Flow 3:

Average throughput: 105.28 Mbit/s

95th percentile per-packet one-way delay: 142.619 ms

Loss rate: 2.04%

Run 10: Report of Indigo — Data Link

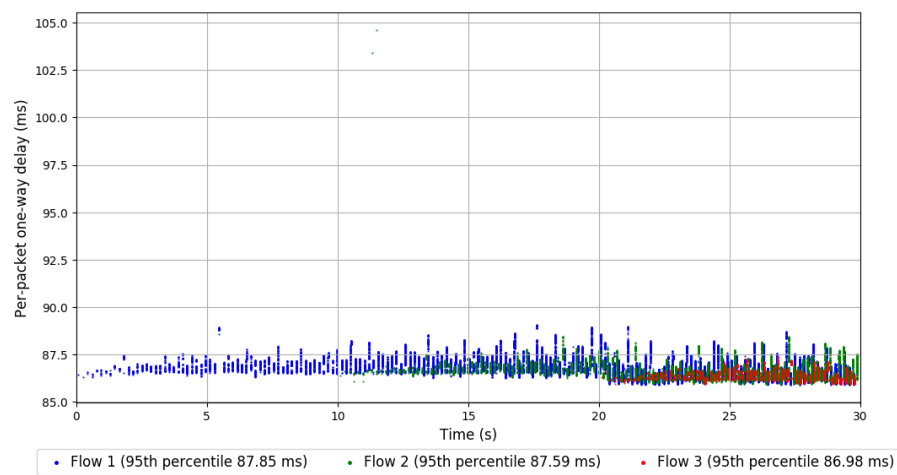
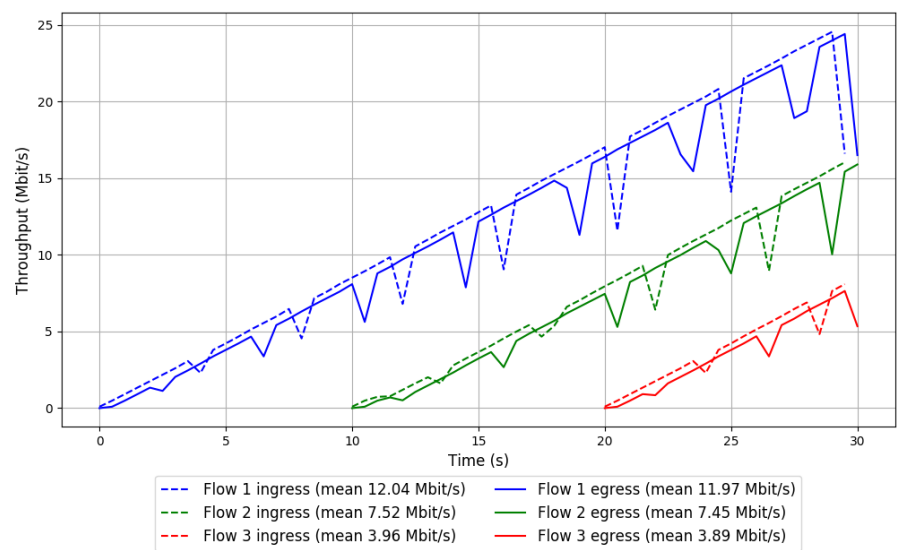


Run 1: Statistics of LEDBAT

Start at: 2018-05-30 23:44:34
End at: 2018-05-30 23:45:04
Local clock offset: -0.278 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 87.756 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 87.851 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 87.592 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 86.977 ms
Loss rate: 3.51%

Run 1: Report of LEDBAT — Data Link

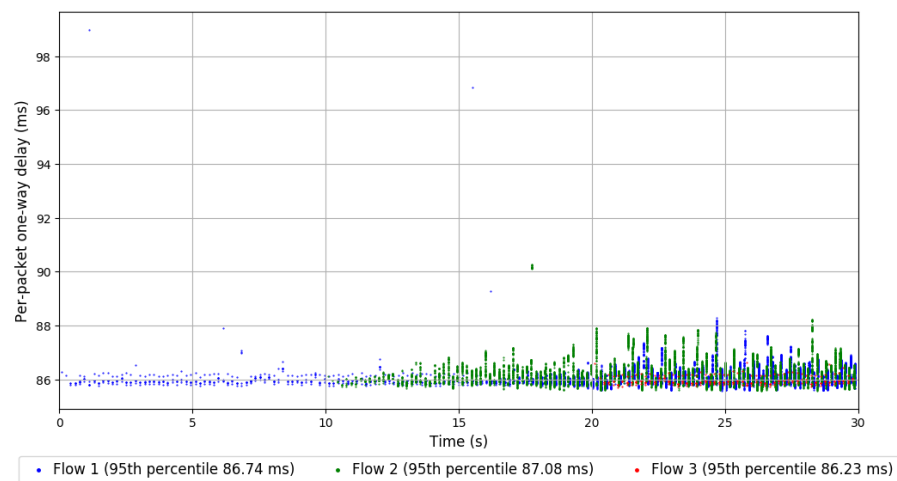
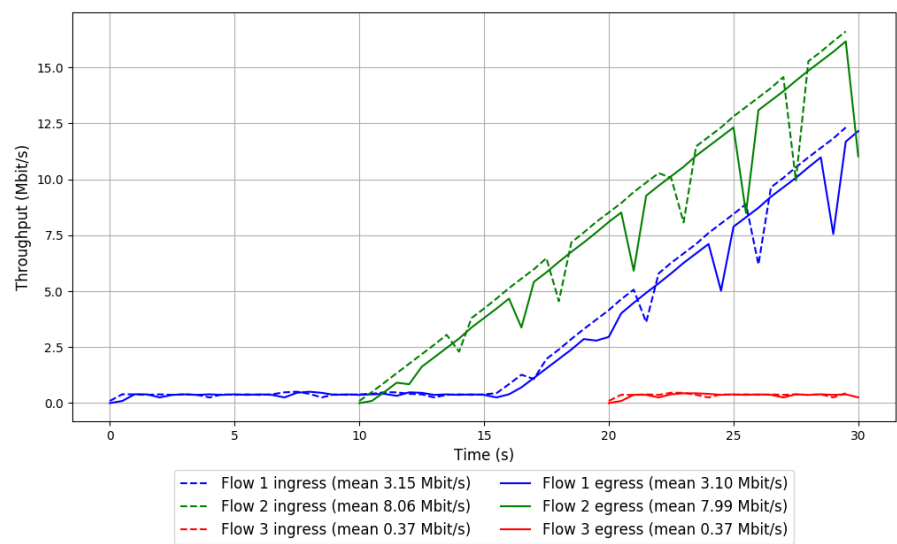


Run 2: Statistics of LEDBAT

Start at: 2018-05-31 00:07:19
End at: 2018-05-31 00:07:49
Local clock offset: -0.416 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 86.992 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 86.736 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 87.075 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 86.232 ms
Loss rate: 2.52%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-31 00:30:05

End at: 2018-05-31 00:30:35

Local clock offset: -0.19 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 88.310 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 88.558 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 88.155 ms

Loss rate: 1.74%

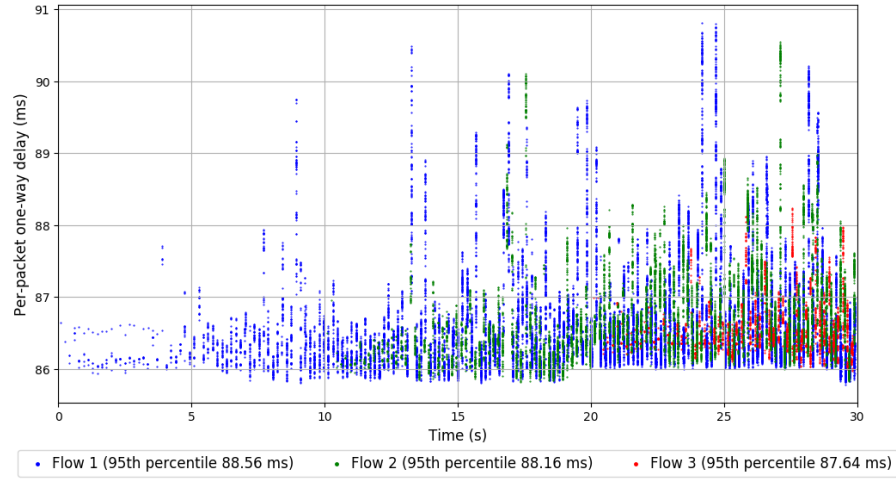
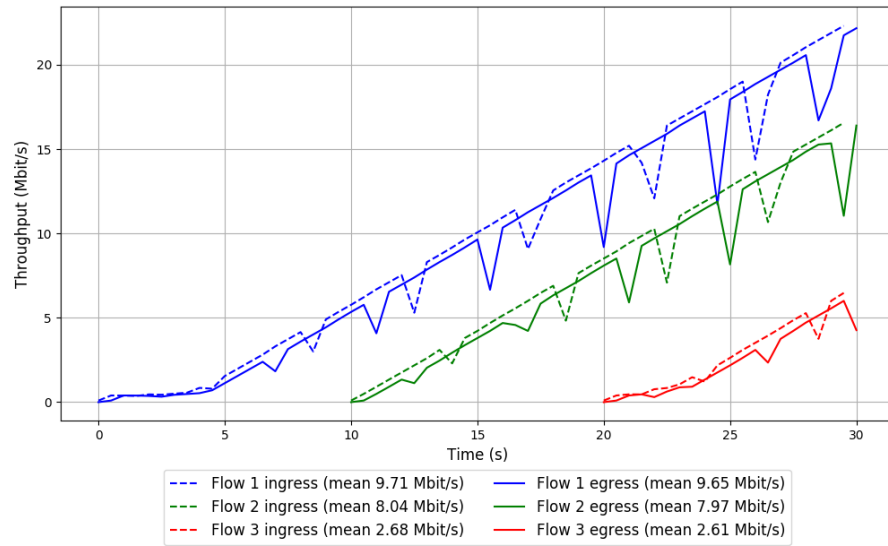
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 87.639 ms

Loss rate: 4.17%

Run 3: Report of LEDBAT — Data Link

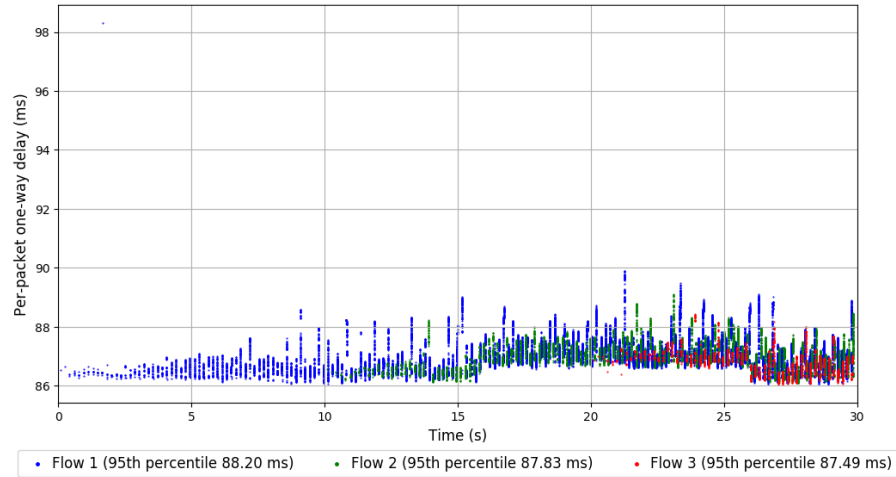
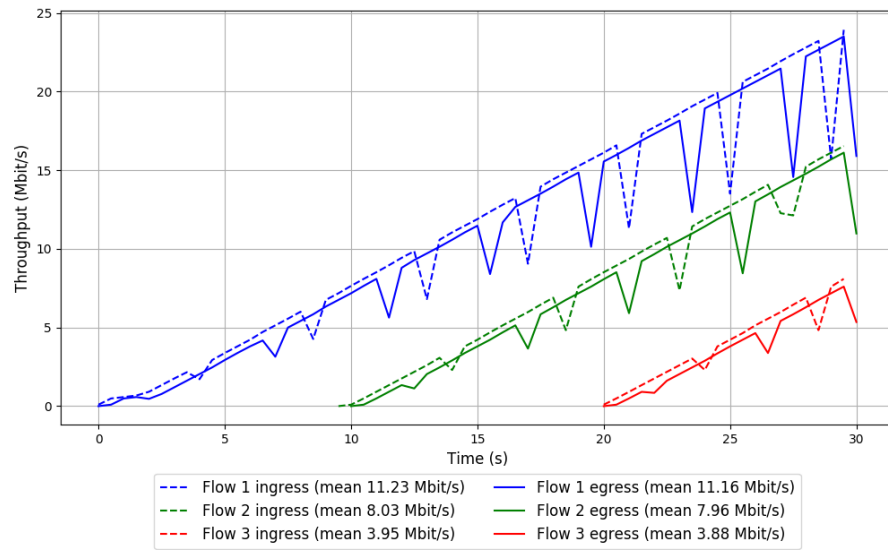


Run 4: Statistics of LEDBAT

Start at: 2018-05-31 00:53:08
End at: 2018-05-31 00:53:38
Local clock offset: 0.072 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 88.064 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 11.16 Mbit/s
95th percentile per-packet one-way delay: 88.196 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 87.829 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.491 ms
Loss rate: 3.52%

Run 4: Report of LEDBAT — Data Link

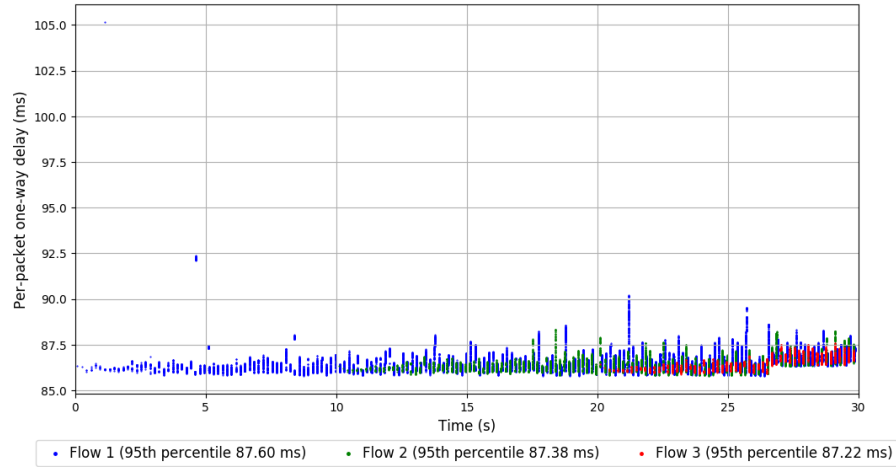
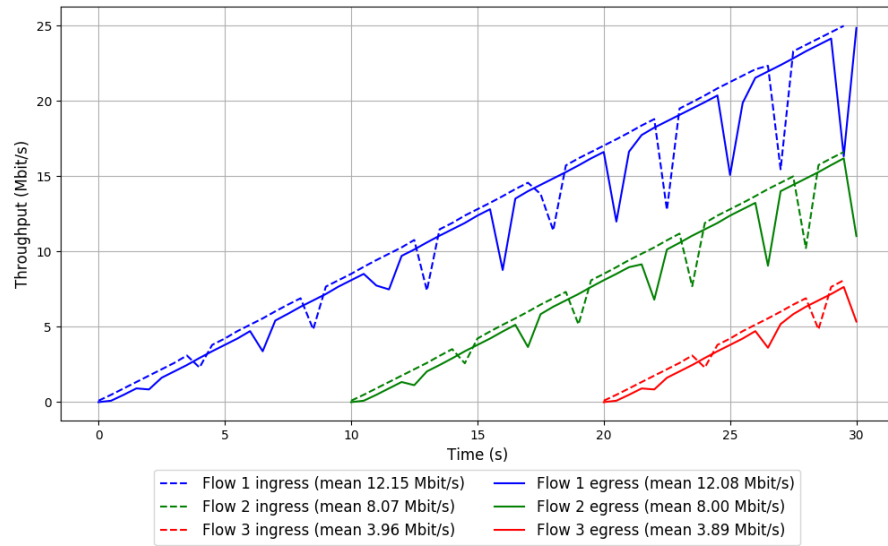


Run 5: Statistics of LEDBAT

Start at: 2018-05-31 01:15:48
End at: 2018-05-31 01:16:18
Local clock offset: -0.035 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 87.518 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 87.601 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.376 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.219 ms
Loss rate: 3.51%

Run 5: Report of LEDBAT — Data Link

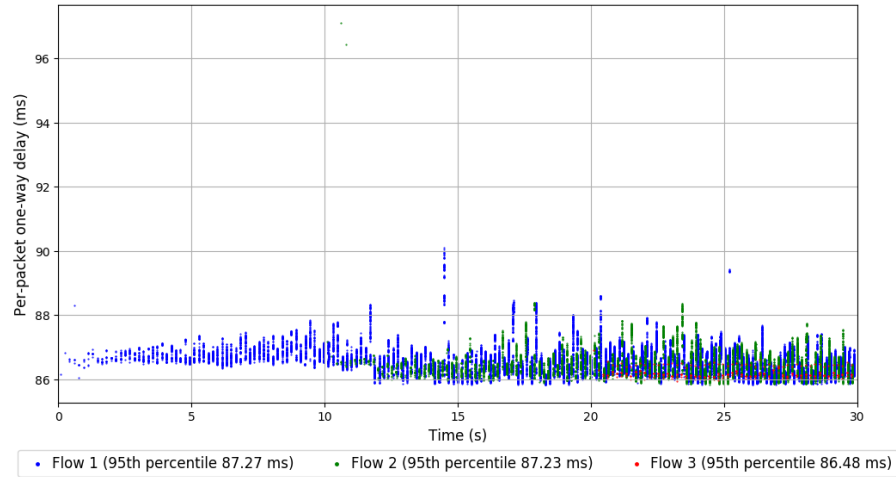
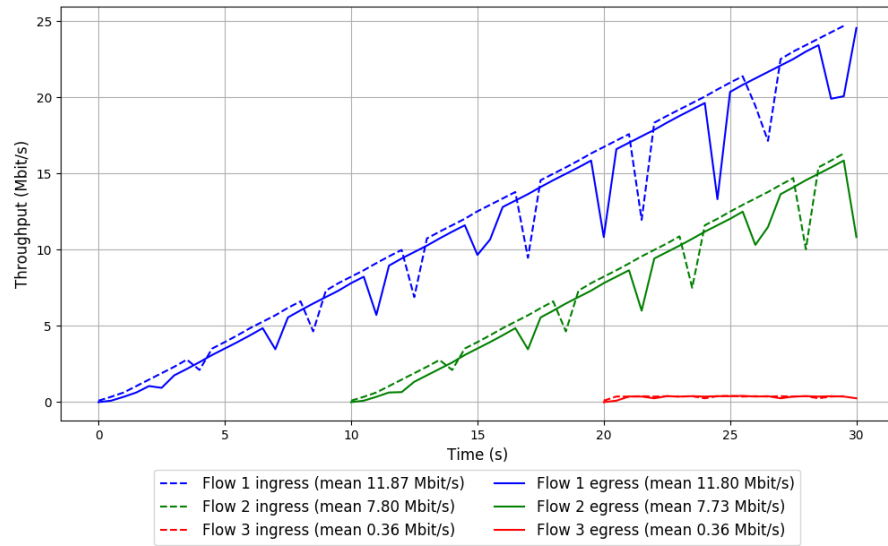


Run 6: Statistics of LEDBAT

Start at: 2018-05-31 01:38:52
End at: 2018-05-31 01:39:22
Local clock offset: 0.022 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 87.263 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 87.271 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 87.232 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.478 ms
Loss rate: 1.94%

Run 6: Report of LEDBAT — Data Link

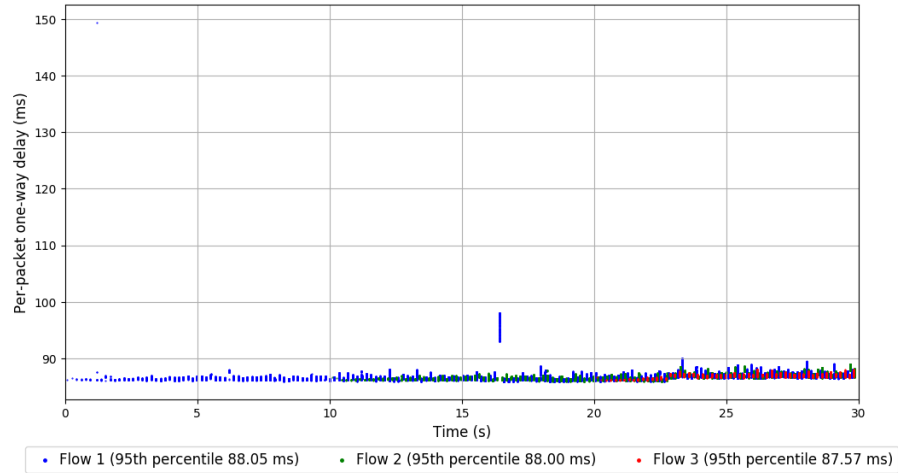
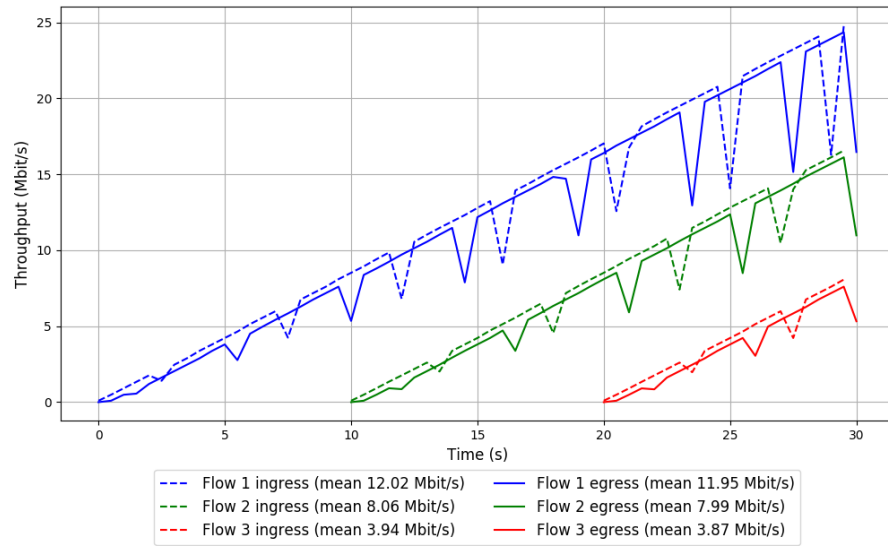


Run 7: Statistics of LEDBAT

Start at: 2018-05-31 02:02:01
End at: 2018-05-31 02:02:31
Local clock offset: -0.215 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.48 Mbit/s
95th percentile per-packet one-way delay: 87.991 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 88.048 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 88.000 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.568 ms
Loss rate: 3.52%

Run 7: Report of LEDBAT — Data Link

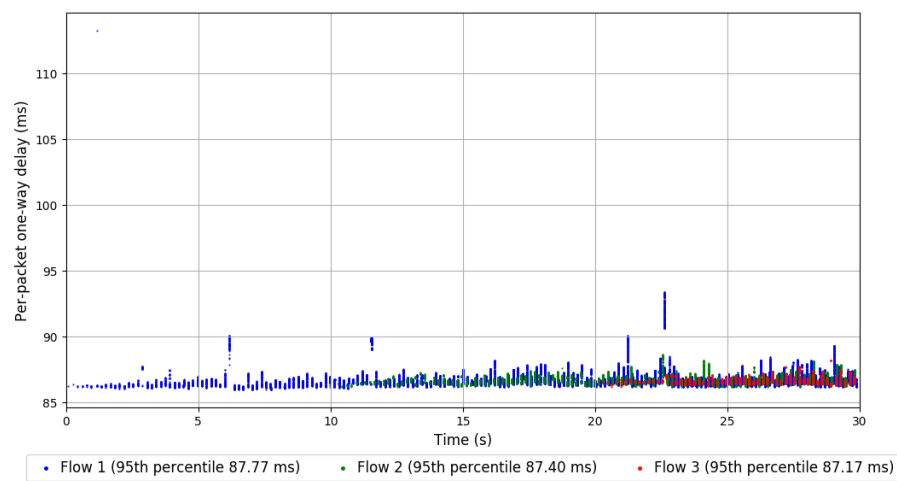
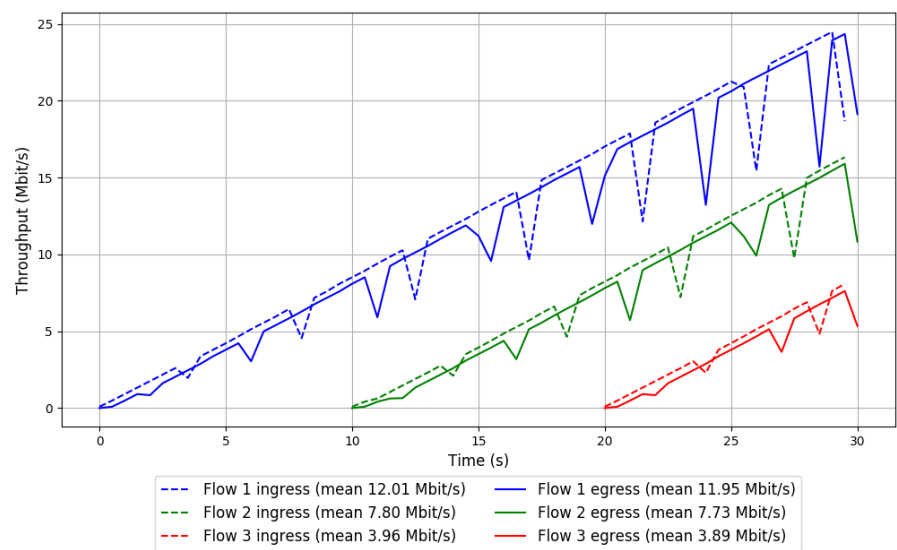


Run 8: Statistics of LEDBAT

Start at: 2018-05-31 02:25:23
End at: 2018-05-31 02:25:53
Local clock offset: -0.147 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 87.655 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 87.766 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 87.396 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.171 ms
Loss rate: 3.52%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-31 02:48:25

End at: 2018-05-31 02:48:55

Local clock offset: -0.366 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.49 Mbit/s

95th percentile per-packet one-way delay: 87.781 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 11.96 Mbit/s

95th percentile per-packet one-way delay: 87.997 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 87.256 ms

Loss rate: 1.74%

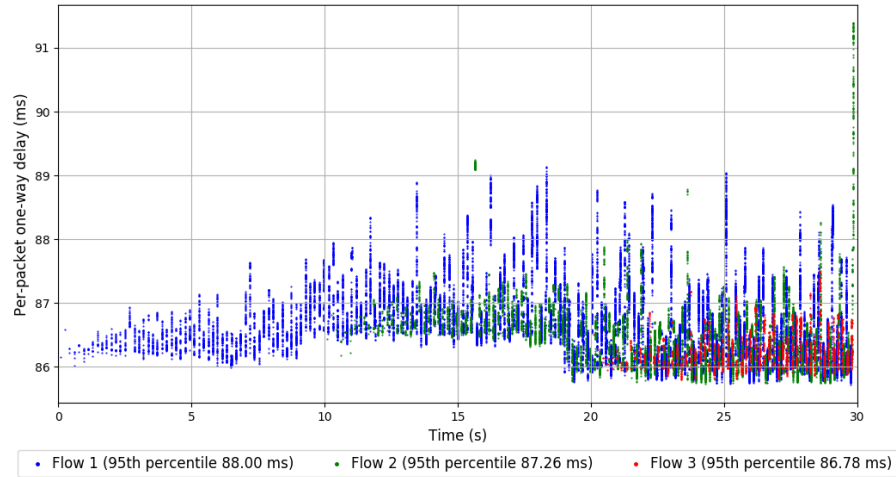
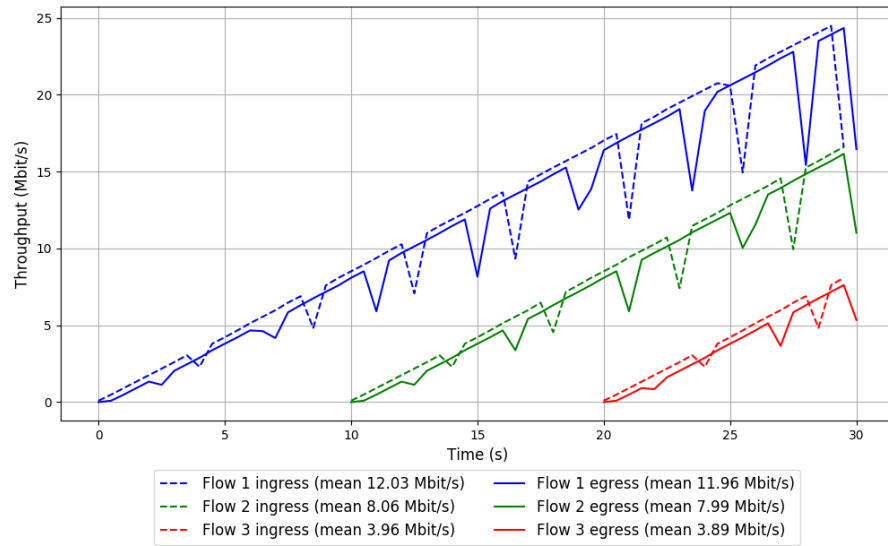
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 86.777 ms

Loss rate: 3.52%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-31 03:11:38

End at: 2018-05-31 03:12:08

Local clock offset: -0.044 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.74 Mbit/s

95th percentile per-packet one-way delay: 88.380 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 88.385 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 88.379 ms

Loss rate: 1.87%

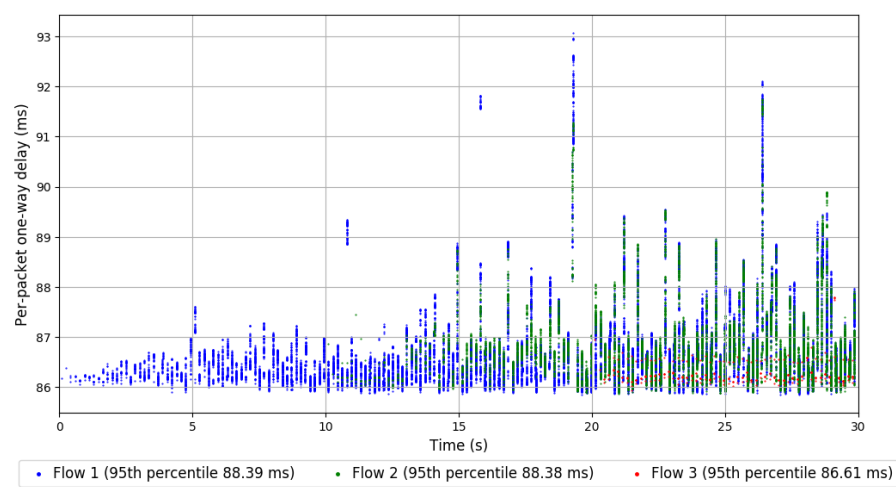
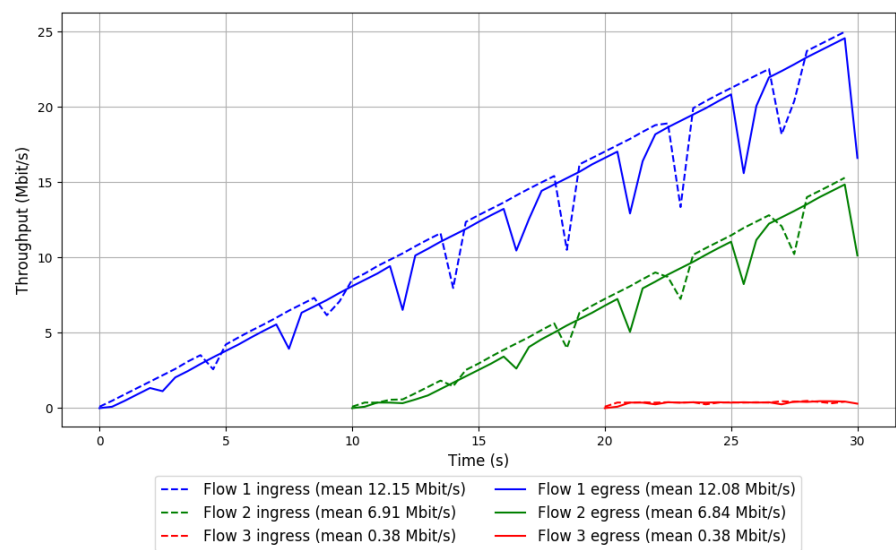
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 86.606 ms

Loss rate: 1.85%

Run 10: Report of LEDBAT — Data Link

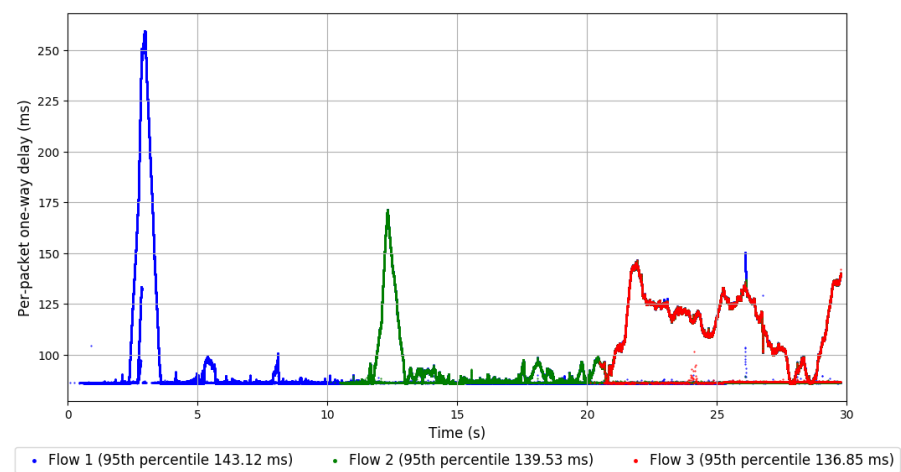
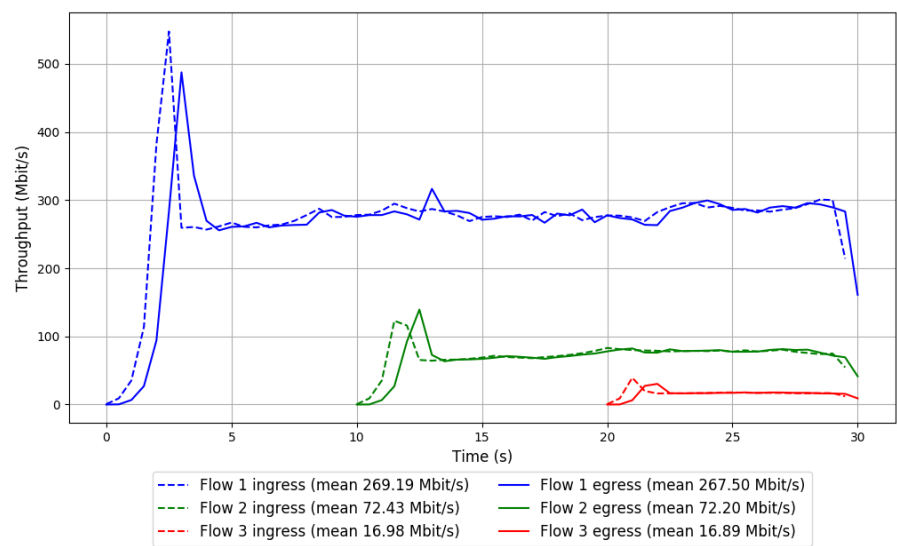


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 23:51:29
End at: 2018-05-30 23:51:59
Local clock offset: -0.091 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-31 04:46:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.79 Mbit/s
95th percentile per-packet one-way delay: 142.412 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 267.50 Mbit/s
95th percentile per-packet one-way delay: 143.120 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 139.528 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 16.89 Mbit/s
95th percentile per-packet one-way delay: 136.855 ms
Loss rate: 2.25%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-31 00:14:12

End at: 2018-05-31 00:14:42

Local clock offset: 0.028 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.84 Mbit/s

95th percentile per-packet one-way delay: 183.158 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 281.55 Mbit/s

95th percentile per-packet one-way delay: 182.787 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 67.82 Mbit/s

95th percentile per-packet one-way delay: 184.785 ms

Loss rate: 1.06%

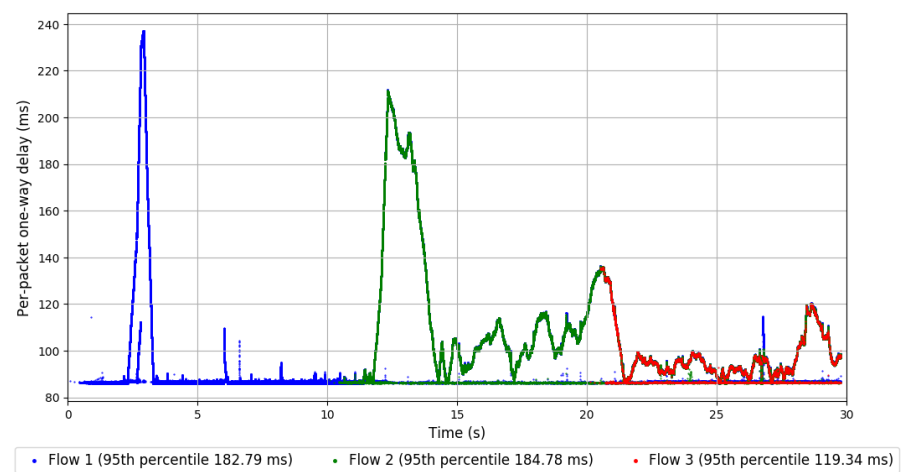
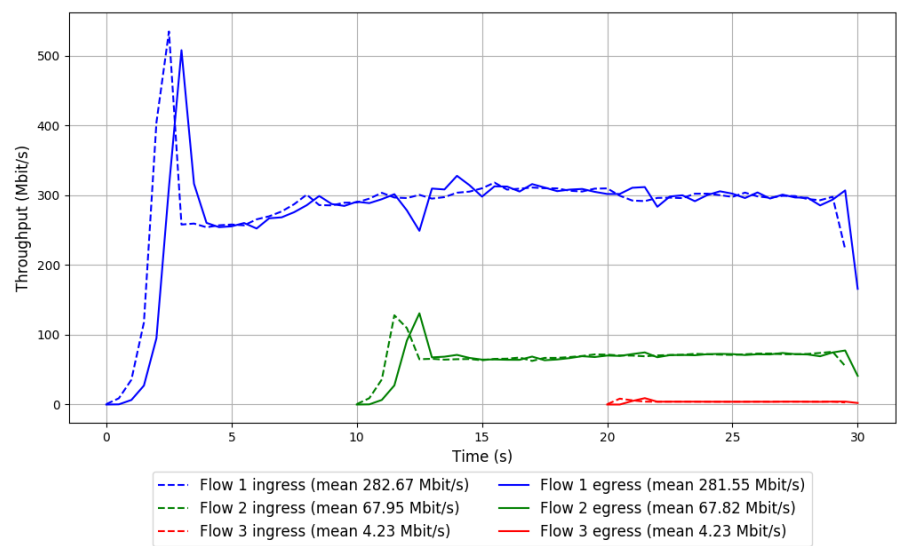
-- Flow 3:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 119.337 ms

Loss rate: 1.84%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-31 00:37:01

End at: 2018-05-31 00:37:31

Local clock offset: -0.098 ms

Remote clock offset: 0.044 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.86 Mbit/s

95th percentile per-packet one-way delay: 191.198 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 297.70 Mbit/s

95th percentile per-packet one-way delay: 190.943 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 195.382 ms

Loss rate: 1.13%

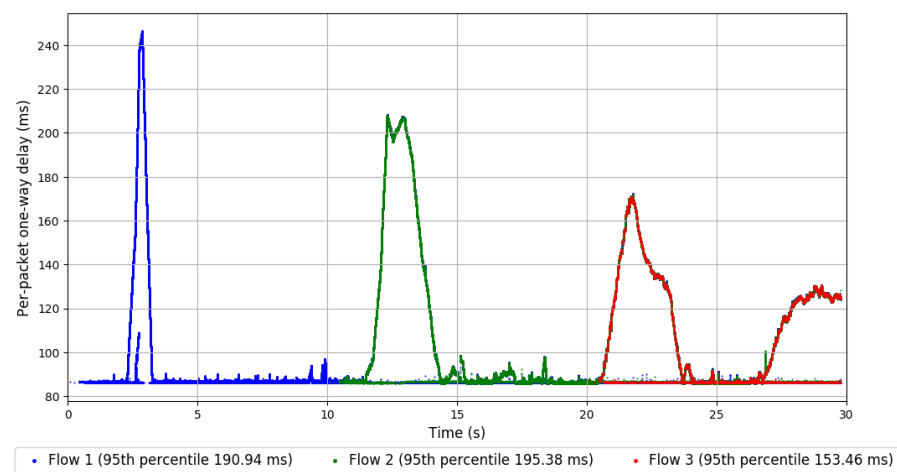
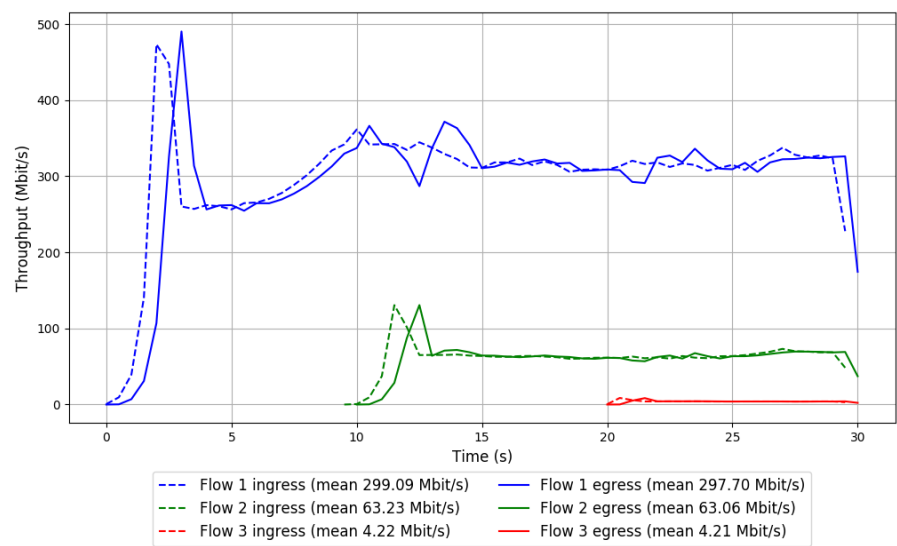
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 153.458 ms

Loss rate: 2.13%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-31 01:00:05

End at: 2018-05-31 01:00:35

Local clock offset: -0.107 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-31 04:46:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.82 Mbit/s

95th percentile per-packet one-way delay: 240.484 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 249.59 Mbit/s

95th percentile per-packet one-way delay: 240.007 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 124.24 Mbit/s

95th percentile per-packet one-way delay: 240.955 ms

Loss rate: 2.29%

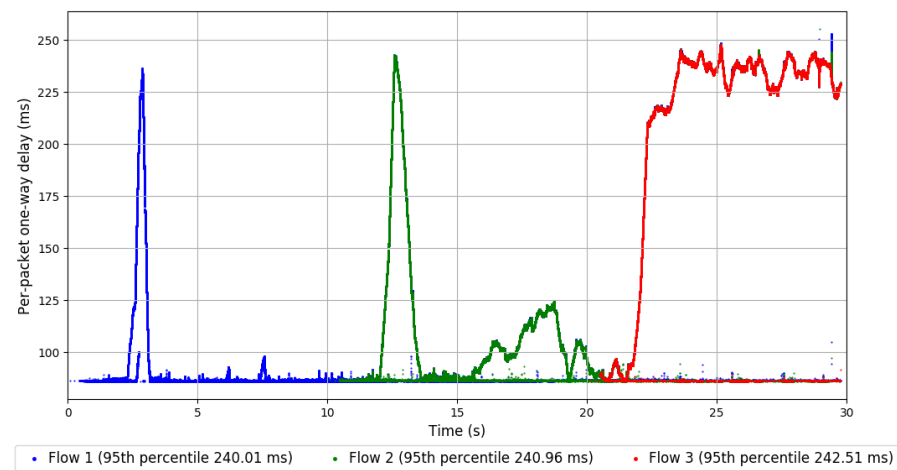
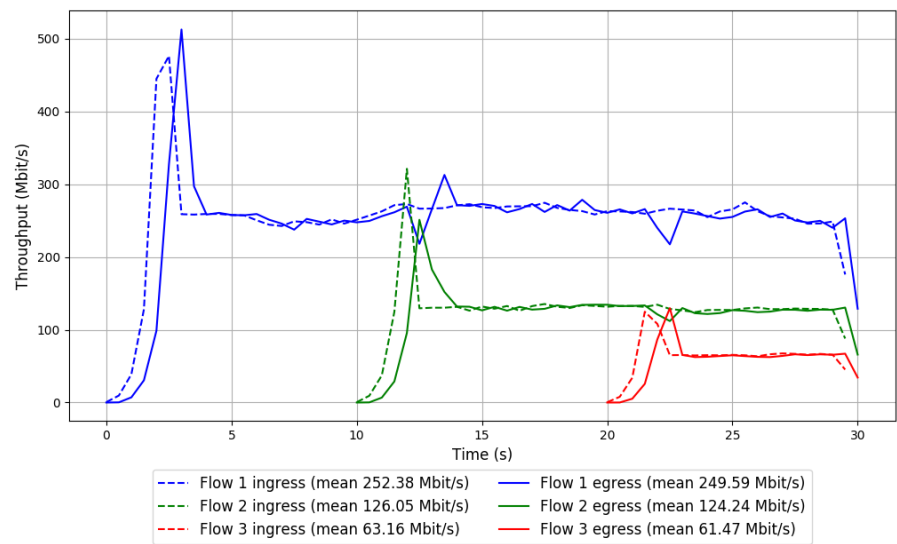
-- Flow 3:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 242.514 ms

Loss rate: 4.34%

Run 4: Report of PCC-Allegro — Data Link

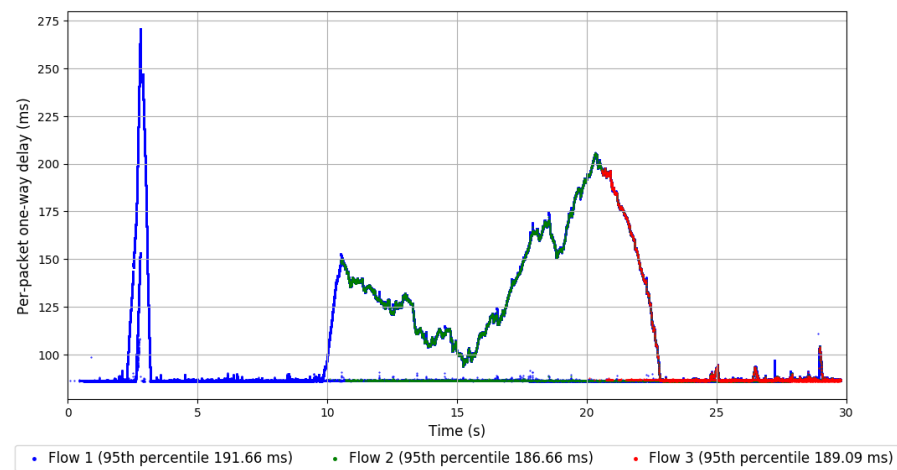
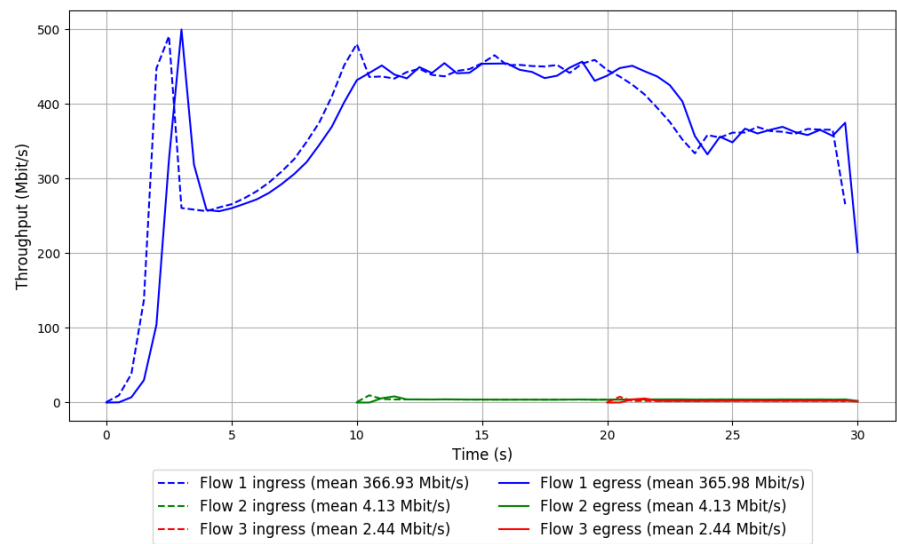


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-31 01:22:46
End at: 2018-05-31 01:23:16
Local clock offset: 0.09 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-05-31 04:46:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 369.49 Mbit/s
95th percentile per-packet one-way delay: 191.601 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 365.98 Mbit/s
95th percentile per-packet one-way delay: 191.657 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 186.663 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 189.085 ms
Loss rate: 1.67%

Run 5: Report of PCC-Allegro — Data Link

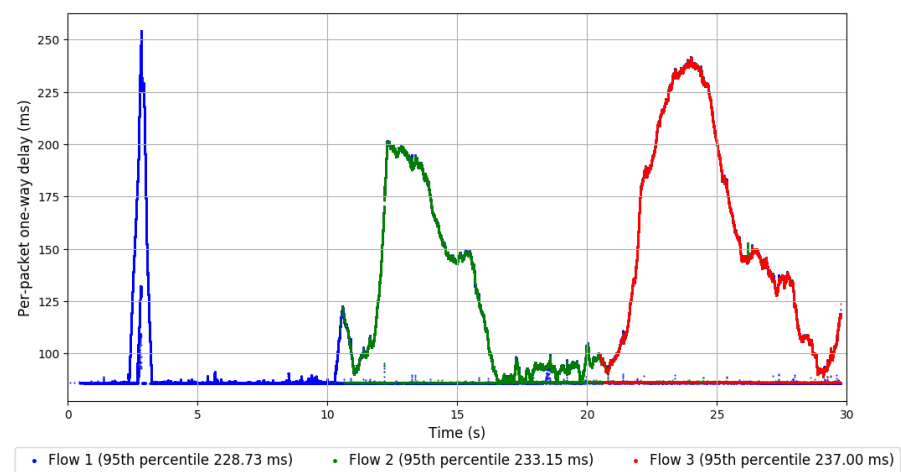
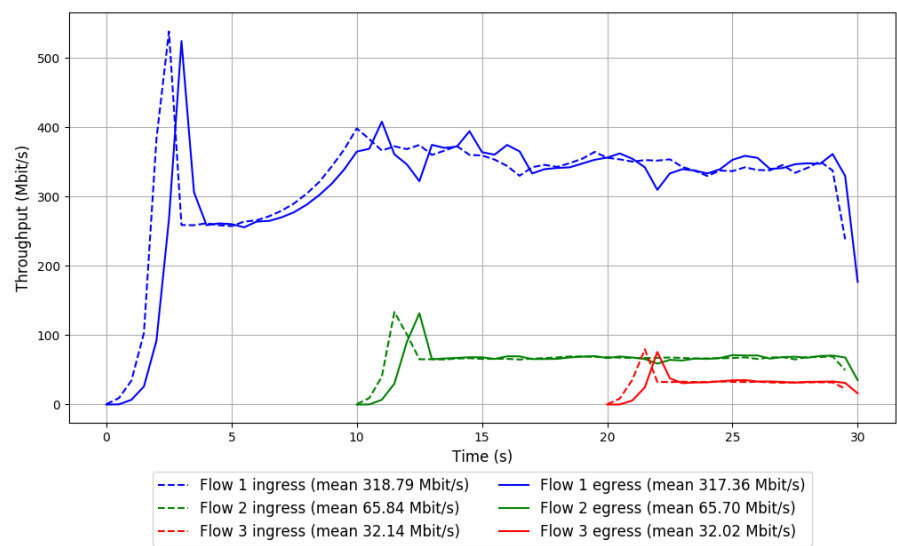


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-31 01:45:47
End at: 2018-05-31 01:46:17
Local clock offset: -0.154 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-05-31 04:47:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 371.31 Mbit/s
95th percentile per-packet one-way delay: 229.567 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 317.36 Mbit/s
95th percentile per-packet one-way delay: 228.728 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 65.70 Mbit/s
95th percentile per-packet one-way delay: 233.149 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 32.02 Mbit/s
95th percentile per-packet one-way delay: 237.005 ms
Loss rate: 2.09%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-31 02:09:01

End at: 2018-05-31 02:09:31

Local clock offset: -0.261 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-05-31 04:49:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.08 Mbit/s

95th percentile per-packet one-way delay: 134.095 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 292.89 Mbit/s

95th percentile per-packet one-way delay: 134.440 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 129.263 ms

Loss rate: 1.35%

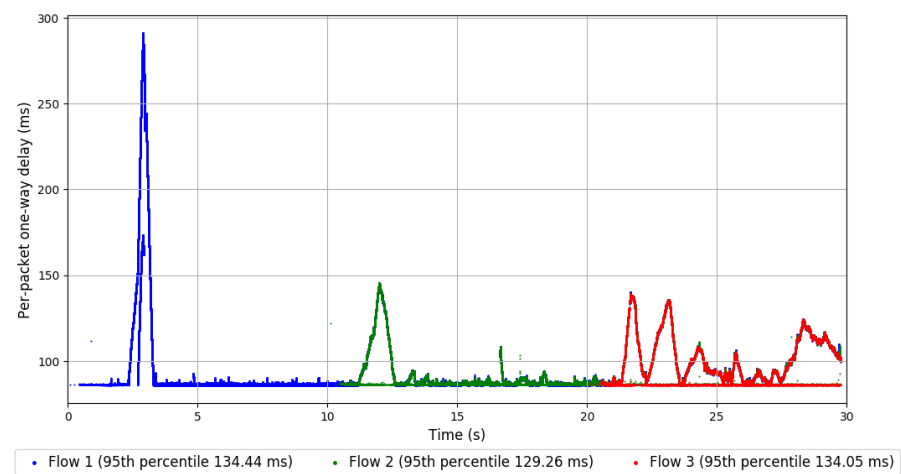
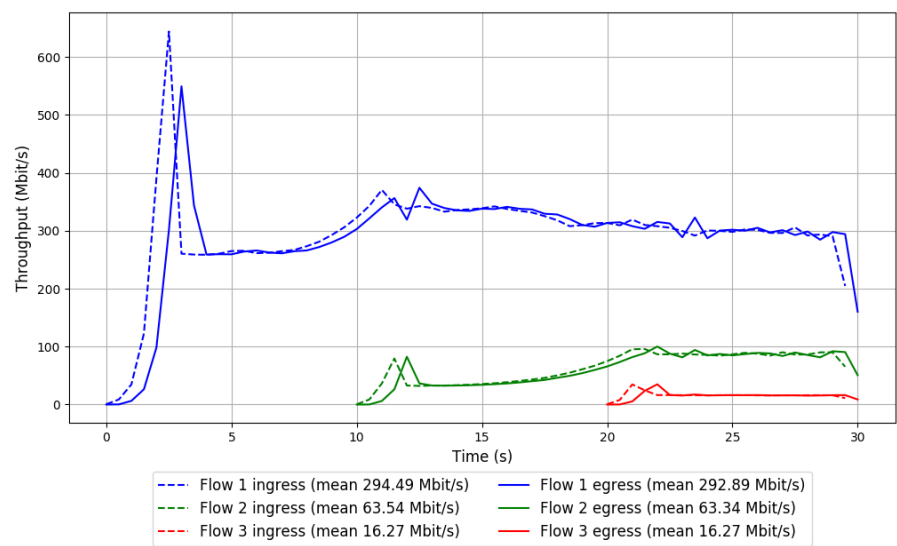
-- Flow 3:

Average throughput: 16.27 Mbit/s

95th percentile per-packet one-way delay: 134.051 ms

Loss rate: 1.79%

Run 7: Report of PCC-Allegro — Data Link

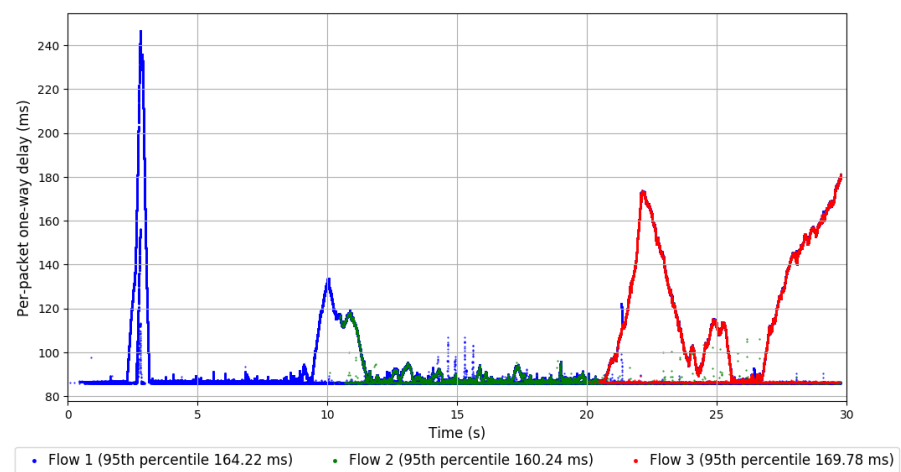
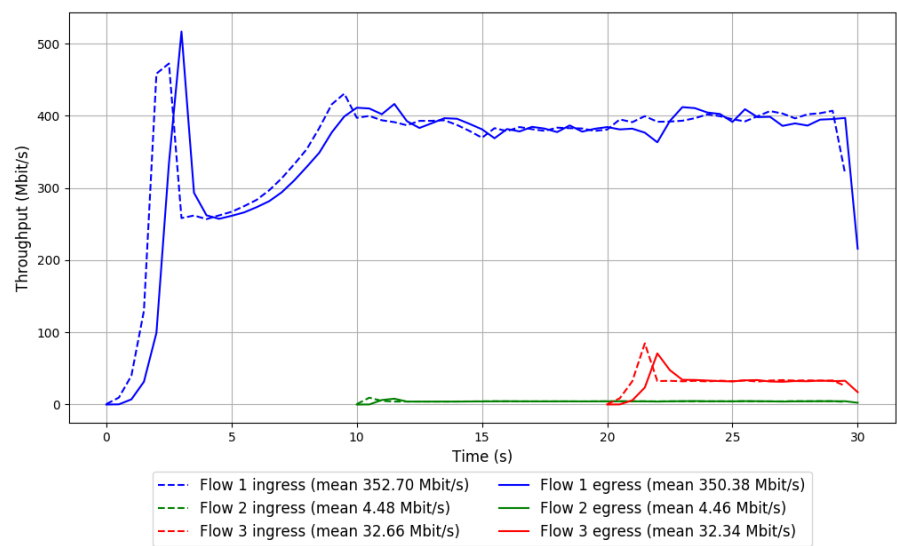


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-31 02:32:17
End at: 2018-05-31 02:32:47
Local clock offset: -0.28 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-05-31 04:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.86 Mbit/s
95th percentile per-packet one-way delay: 165.143 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 350.38 Mbit/s
95th percentile per-packet one-way delay: 164.220 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 160.243 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 169.780 ms
Loss rate: 3.05%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-31 02:55:22

End at: 2018-05-31 02:55:52

Local clock offset: -0.073 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-31 04:50:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.67 Mbit/s

95th percentile per-packet one-way delay: 205.887 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 325.62 Mbit/s

95th percentile per-packet one-way delay: 205.475 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 16.59 Mbit/s

95th percentile per-packet one-way delay: 205.456 ms

Loss rate: 1.03%

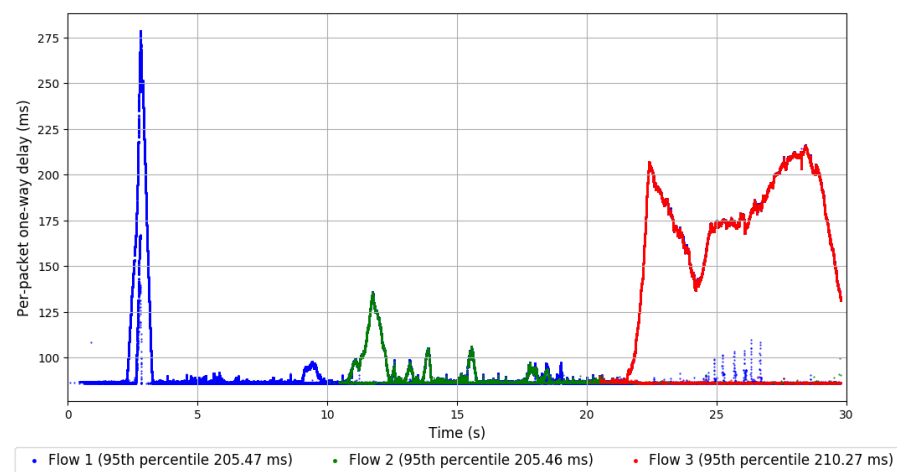
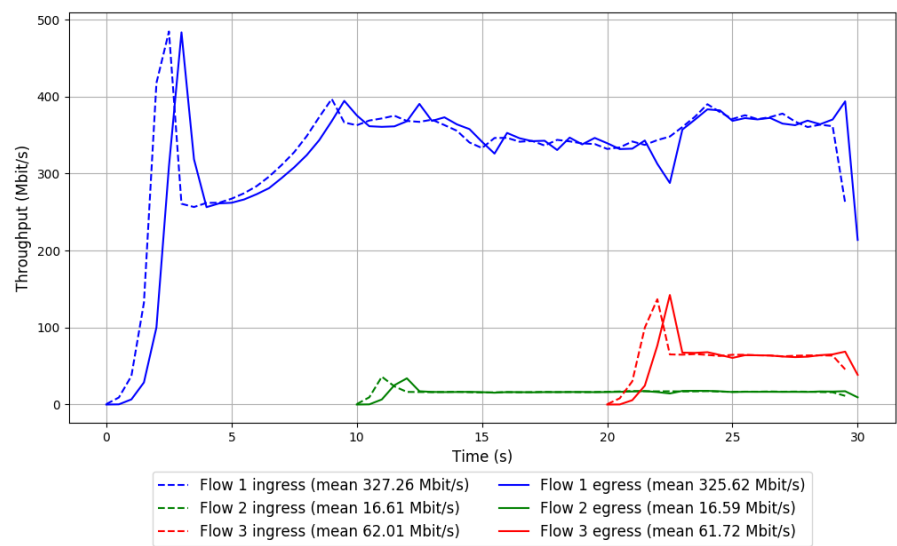
-- Flow 3:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 210.274 ms

Loss rate: 2.24%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-31 03:18:41

End at: 2018-05-31 03:19:11

Local clock offset: -0.063 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-31 04:50:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.33 Mbit/s

95th percentile per-packet one-way delay: 179.010 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 342.25 Mbit/s

95th percentile per-packet one-way delay: 179.256 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 177.153 ms

Loss rate: 1.07%

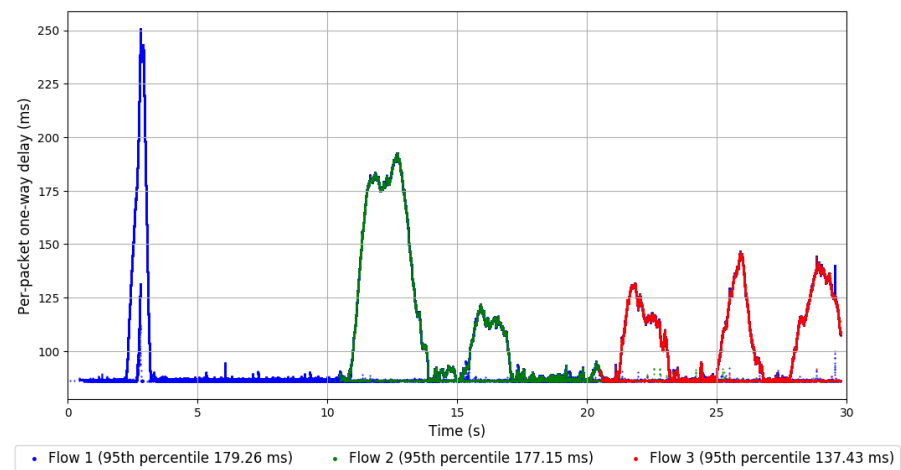
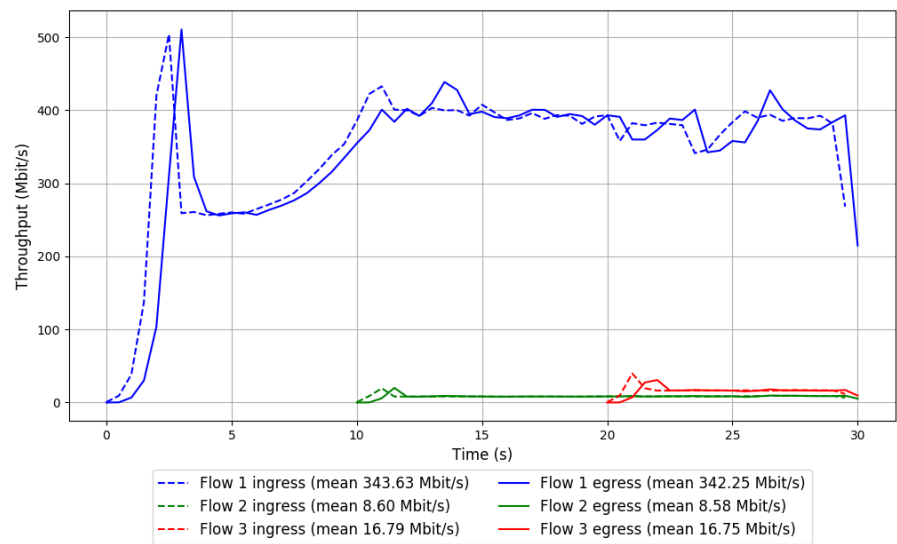
-- Flow 3:

Average throughput: 16.75 Mbit/s

95th percentile per-packet one-way delay: 137.432 ms

Loss rate: 1.97%

Run 10: Report of PCC-Allegro — Data Link

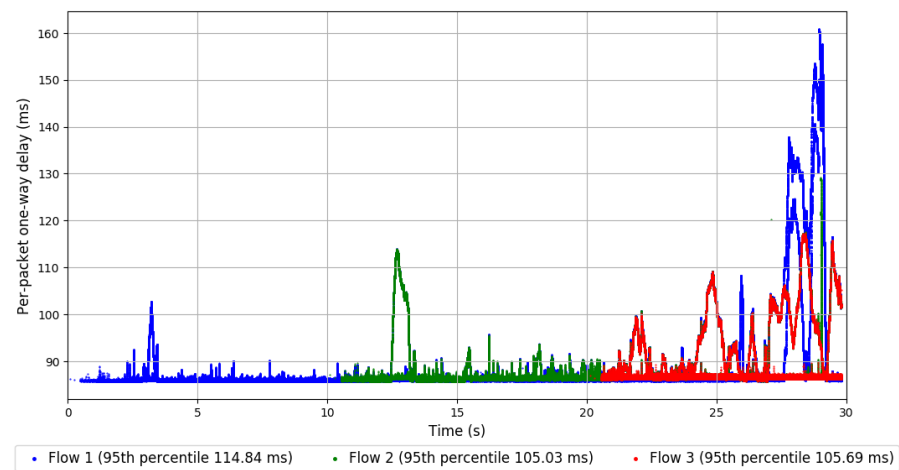
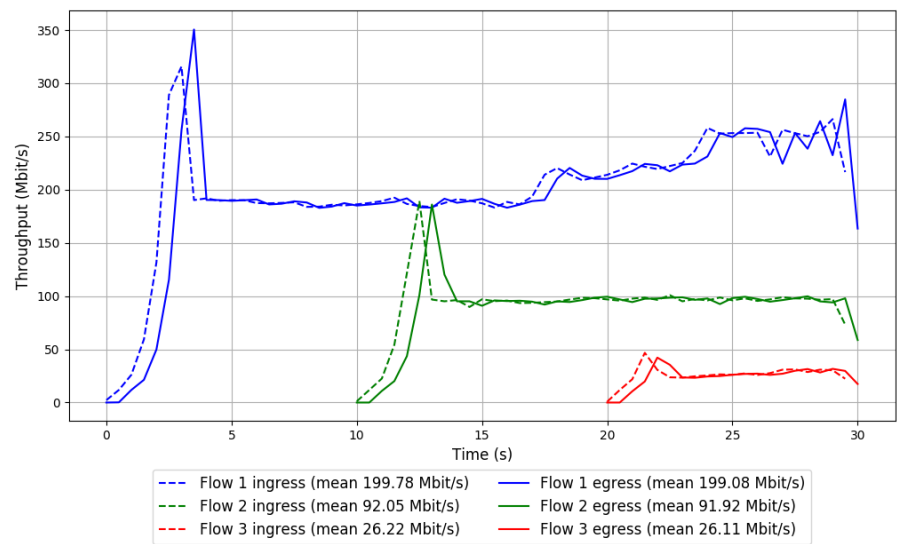


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 23:41:28
End at: 2018-05-30 23:41:58
Local clock offset: -0.187 ms
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-05-31 04:54:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.48 Mbit/s
95th percentile per-packet one-way delay: 109.736 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 199.08 Mbit/s
95th percentile per-packet one-way delay: 114.842 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 105.029 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 26.11 Mbit/s
95th percentile per-packet one-way delay: 105.695 ms
Loss rate: 2.15%
```

Run 1: Report of PCC-Expr — Data Link

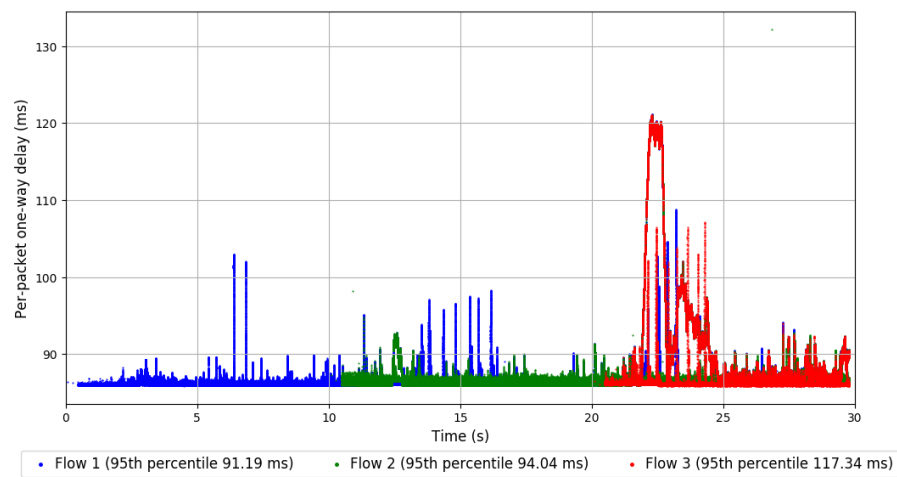
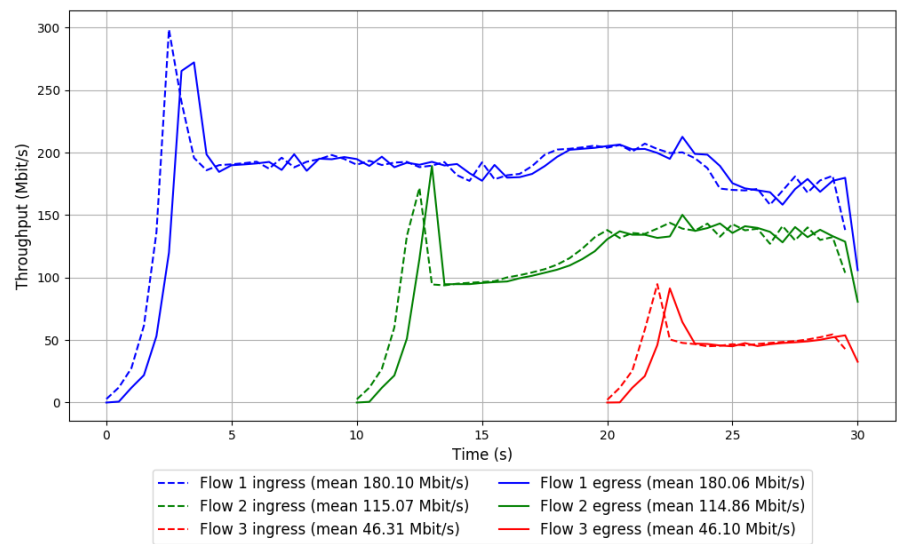


Run 2: Statistics of PCC-Expr

Start at: 2018-05-31 00:04:11
End at: 2018-05-31 00:04:41
Local clock offset: -0.086 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-31 04:55:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.23 Mbit/s
95th percentile per-packet one-way delay: 92.616 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 180.06 Mbit/s
95th percentile per-packet one-way delay: 91.195 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 114.86 Mbit/s
95th percentile per-packet one-way delay: 94.042 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 117.341 ms
Loss rate: 2.20%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-31 00:27:10

End at: 2018-05-31 00:27:40

Local clock offset: 0.027 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-31 04:55:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.25 Mbit/s

95th percentile per-packet one-way delay: 95.338 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 92.420 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 89.27 Mbit/s

95th percentile per-packet one-way delay: 96.771 ms

Loss rate: 0.83%

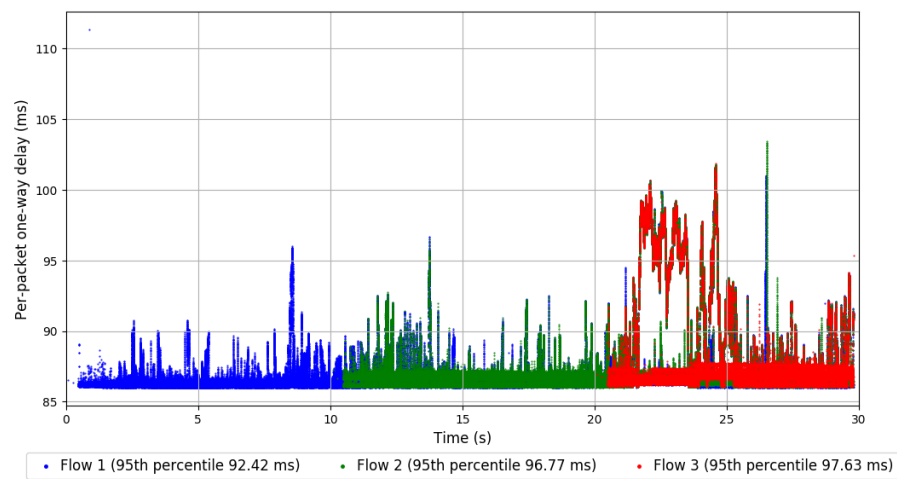
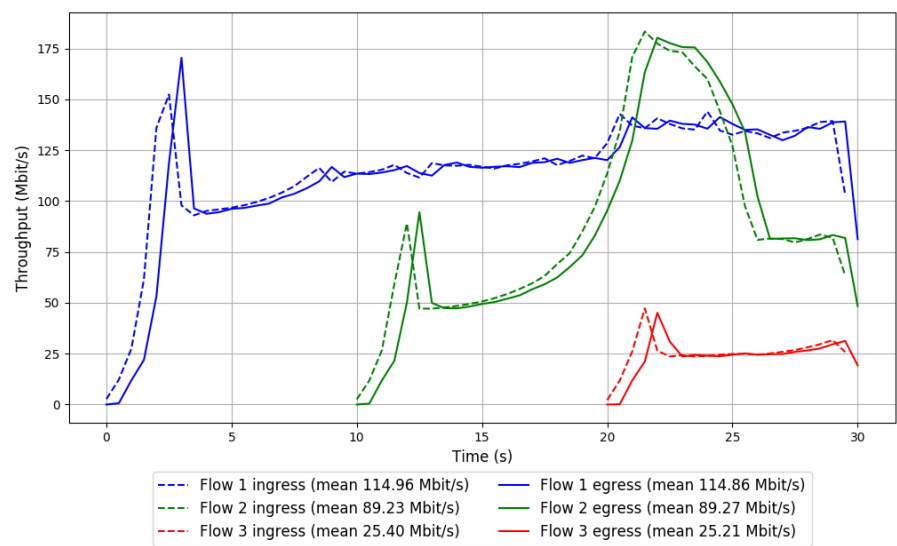
-- Flow 3:

Average throughput: 25.21 Mbit/s

95th percentile per-packet one-way delay: 97.631 ms

Loss rate: 2.43%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-31 00:49:56

End at: 2018-05-31 00:50:26

Local clock offset: 0.135 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-05-31 04:59:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.62 Mbit/s

95th percentile per-packet one-way delay: 215.526 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 263.53 Mbit/s

95th percentile per-packet one-way delay: 215.616 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 115.33 Mbit/s

95th percentile per-packet one-way delay: 214.766 ms

Loss rate: 2.17%

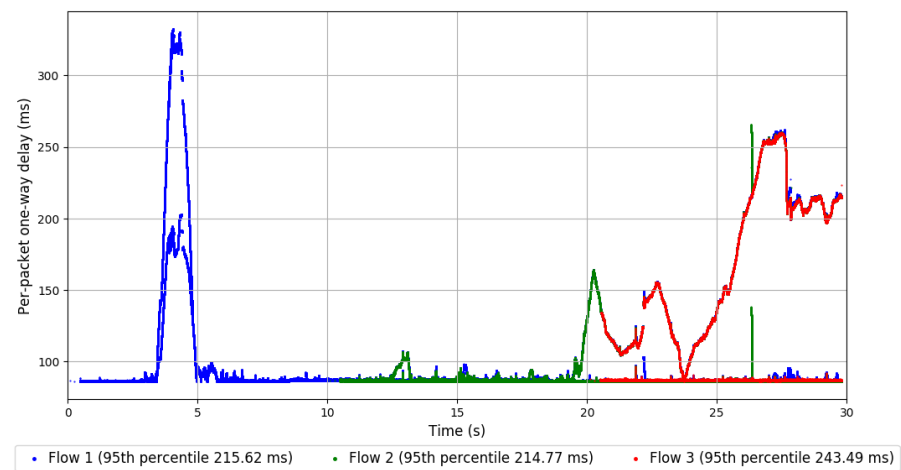
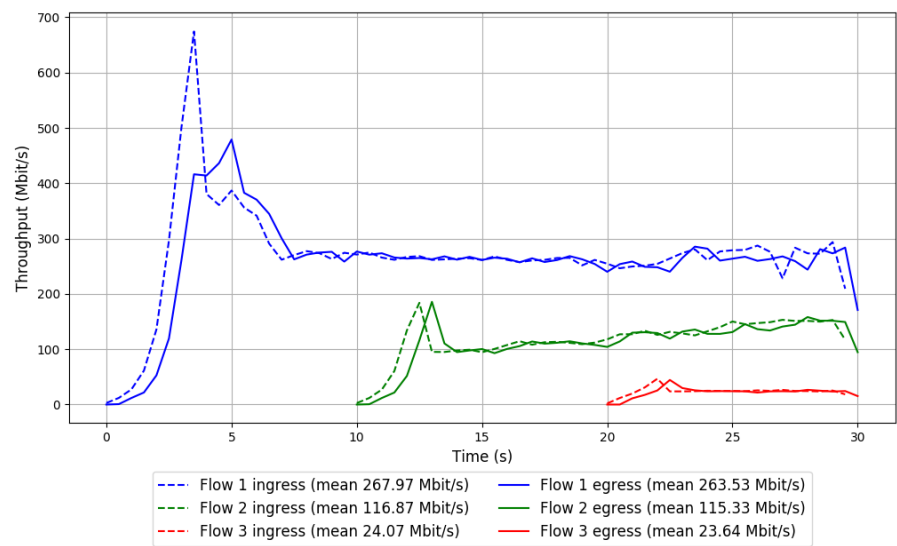
-- Flow 3:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 243.485 ms

Loss rate: 3.40%

Run 4: Report of PCC-Expr — Data Link

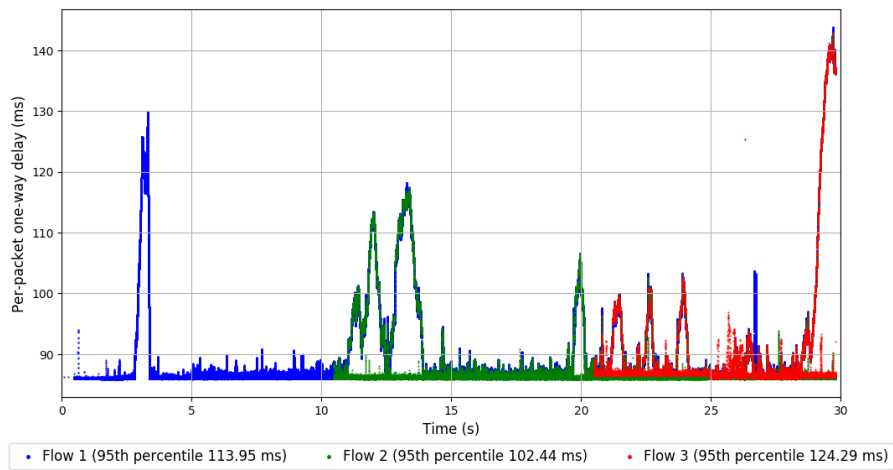
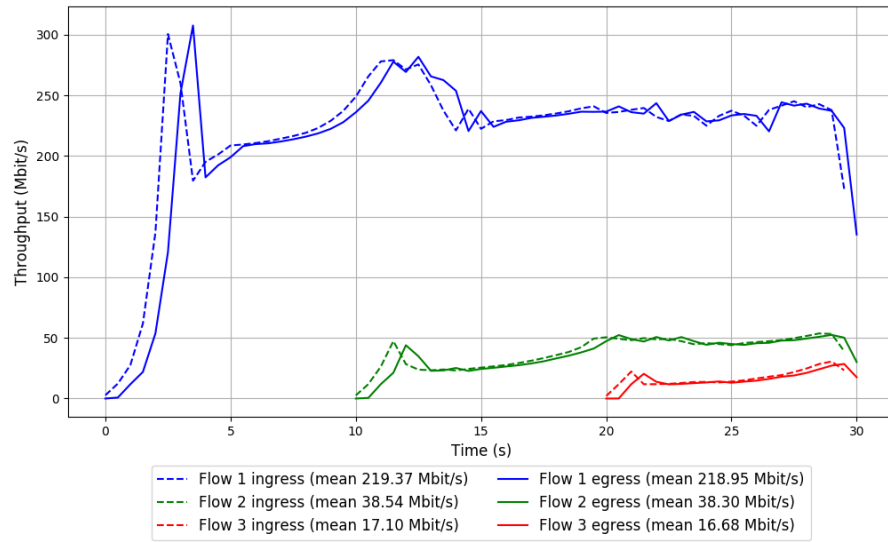


Run 5: Statistics of PCC-Expr

Start at: 2018-05-31 01:12:39
End at: 2018-05-31 01:13:09
Local clock offset: 0.017 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-31 04:59:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 249.75 Mbit/s
95th percentile per-packet one-way delay: 112.984 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 218.95 Mbit/s
95th percentile per-packet one-way delay: 113.954 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 102.435 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 16.68 Mbit/s
95th percentile per-packet one-way delay: 124.294 ms
Loss rate: 4.10%

Run 5: Report of PCC-Expr — Data Link

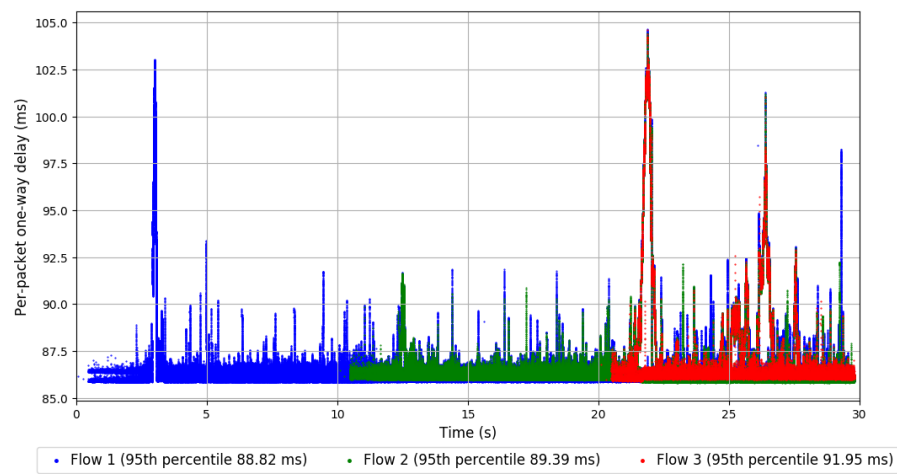
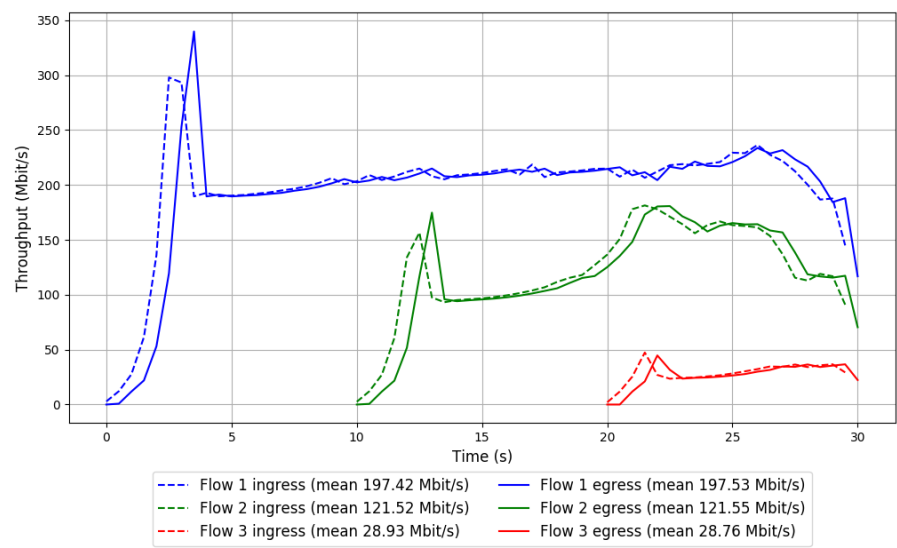


Run 6: Statistics of PCC-Expr

Start at: 2018-05-31 01:35:42
End at: 2018-05-31 01:36:12
Local clock offset: 0.071 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-05-31 05:00:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.51 Mbit/s
95th percentile per-packet one-way delay: 89.087 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 197.53 Mbit/s
95th percentile per-packet one-way delay: 88.821 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 121.55 Mbit/s
95th percentile per-packet one-way delay: 89.389 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 91.948 ms
Loss rate: 2.34%

Run 6: Report of PCC-Expr — Data Link

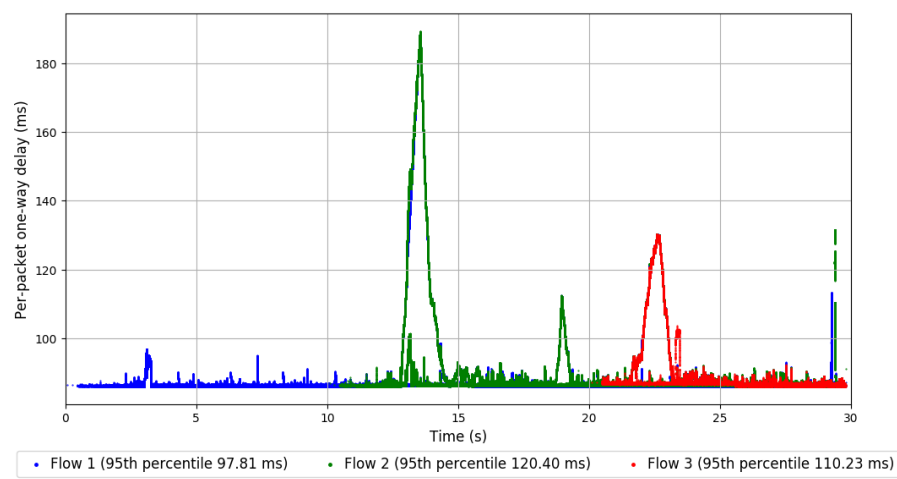
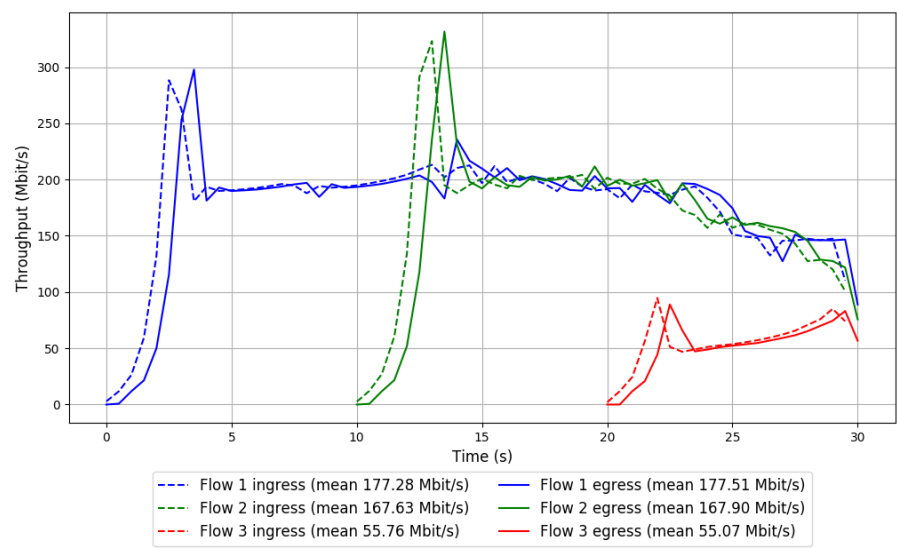


Run 7: Statistics of PCC-Expr

Start at: 2018-05-31 01:58:48
End at: 2018-05-31 01:59:18
Local clock offset: -0.088 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-31 05:01:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.80 Mbit/s
95th percentile per-packet one-way delay: 108.491 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 177.51 Mbit/s
95th percentile per-packet one-way delay: 97.811 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 167.90 Mbit/s
95th percentile per-packet one-way delay: 120.397 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 110.229 ms
Loss rate: 2.99%

Run 7: Report of PCC-Expr — Data Link

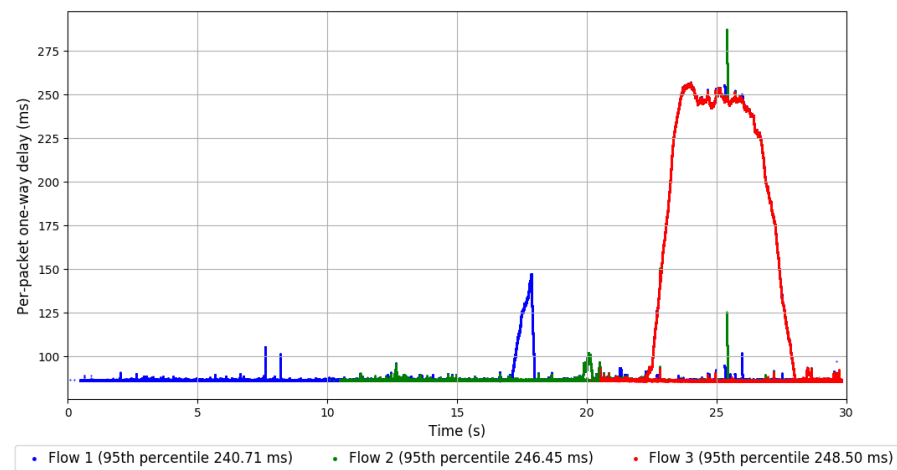
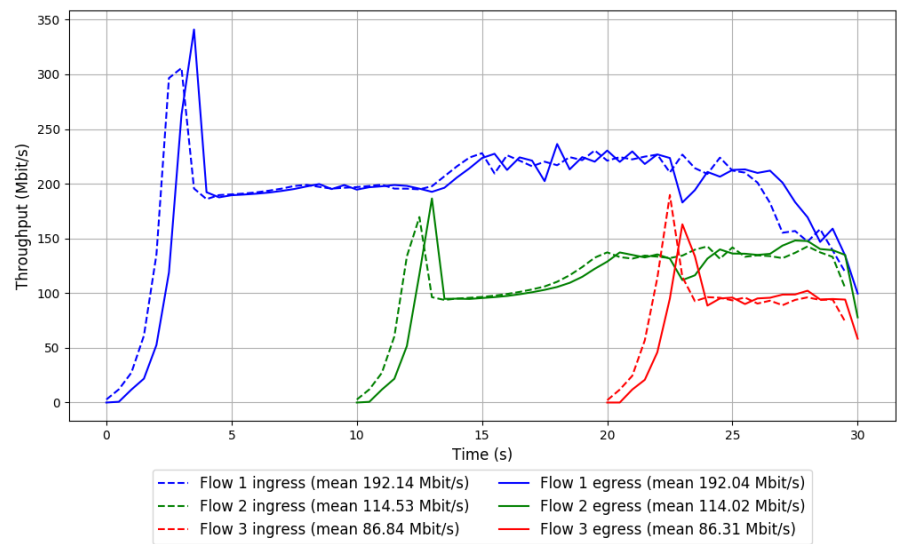


Run 8: Statistics of PCC-Expr

Start at: 2018-05-31 02:22:10
End at: 2018-05-31 02:22:40
Local clock offset: -0.222 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-05-31 05:01:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.79 Mbit/s
95th percentile per-packet one-way delay: 245.553 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 192.04 Mbit/s
95th percentile per-packet one-way delay: 240.709 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 114.02 Mbit/s
95th percentile per-packet one-way delay: 246.446 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 86.31 Mbit/s
95th percentile per-packet one-way delay: 248.502 ms
Loss rate: 2.36%

Run 8: Report of PCC-Expr — Data Link

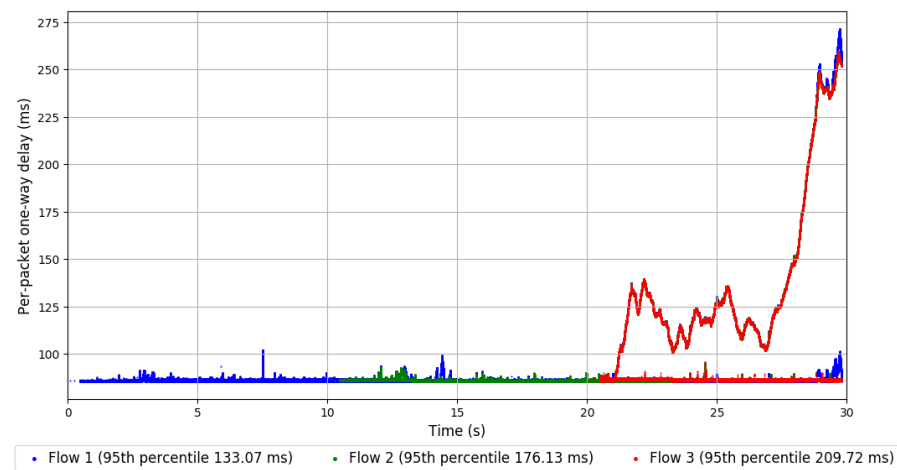
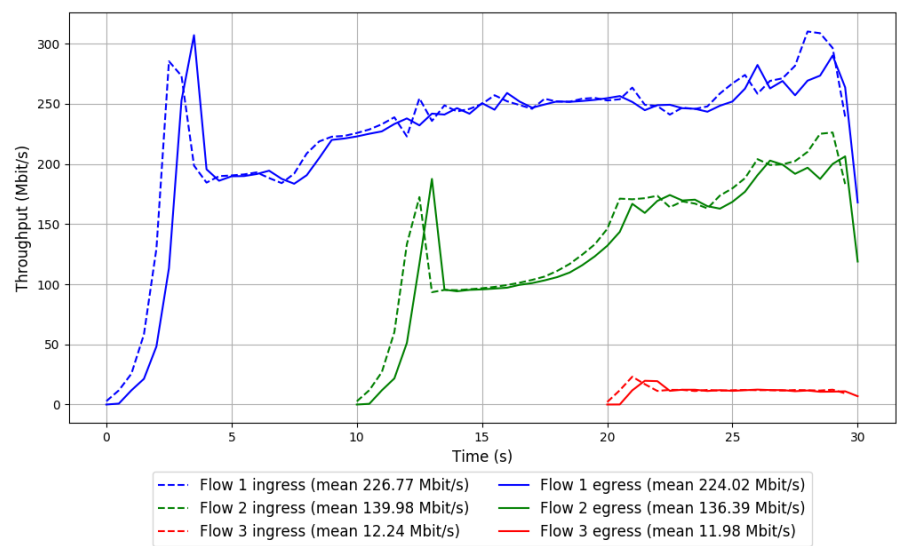


Run 9: Statistics of PCC-Expr

Start at: 2018-05-31 02:45:11
End at: 2018-05-31 02:45:41
Local clock offset: -0.429 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-05-31 05:05:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 318.37 Mbit/s
95th percentile per-packet one-way delay: 138.489 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 224.02 Mbit/s
95th percentile per-packet one-way delay: 133.070 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 136.39 Mbit/s
95th percentile per-packet one-way delay: 176.126 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 209.722 ms
Loss rate: 3.87%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-31 03:08:28

End at: 2018-05-31 03:08:58

Local clock offset: 0.155 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-31 05:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.56 Mbit/s

95th percentile per-packet one-way delay: 137.259 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 201.37 Mbit/s

95th percentile per-packet one-way delay: 129.855 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 108.50 Mbit/s

95th percentile per-packet one-way delay: 140.468 ms

Loss rate: 1.47%

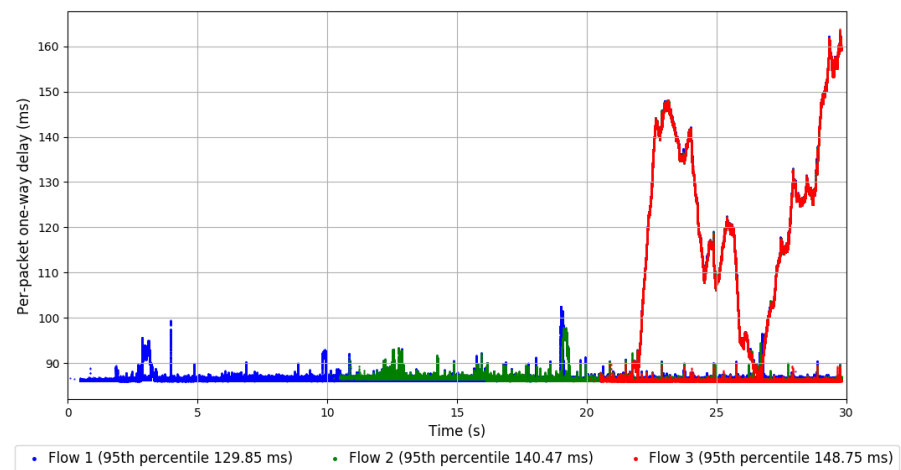
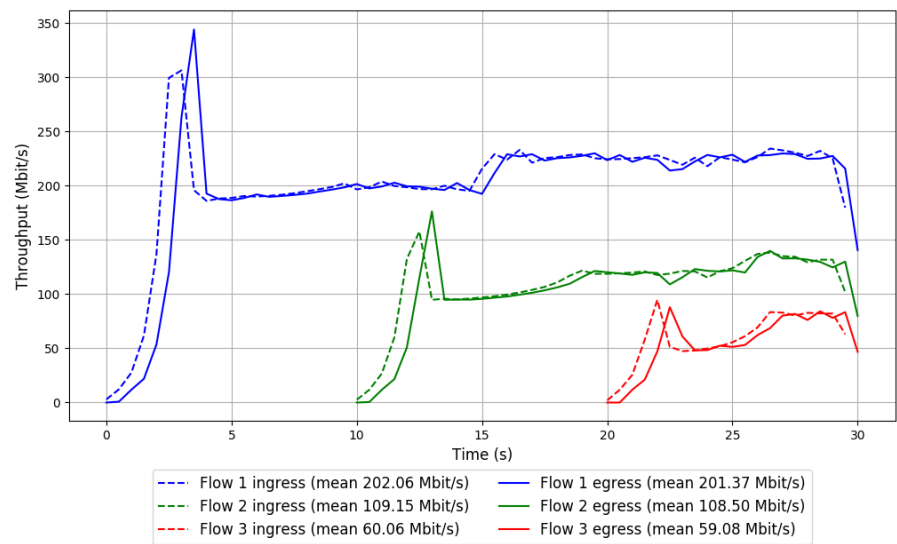
-- Flow 3:

Average throughput: 59.08 Mbit/s

95th percentile per-packet one-way delay: 148.750 ms

Loss rate: 3.35%

Run 10: Report of PCC-Expr — Data Link

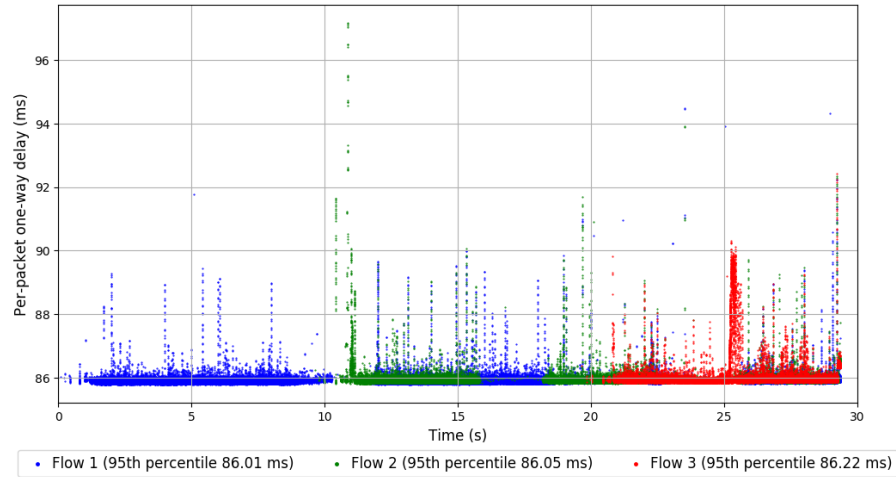
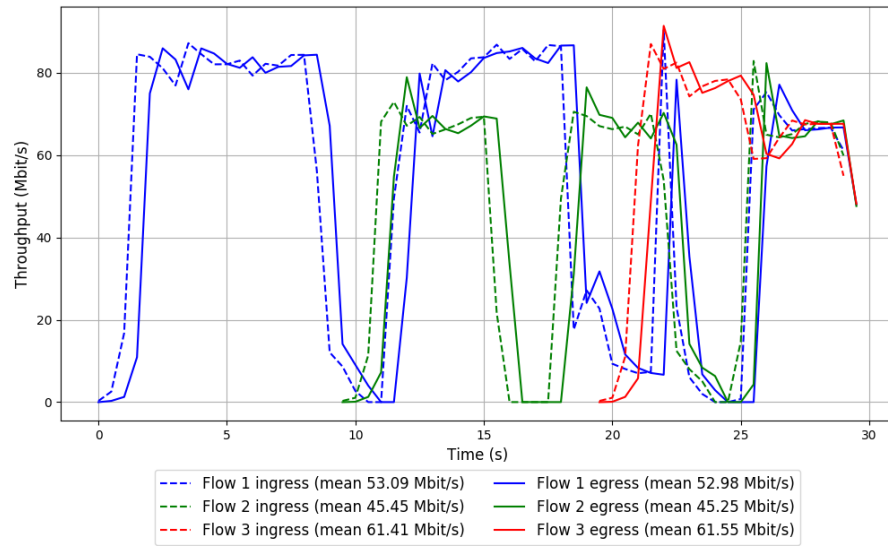


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-31 00:00:24
End at: 2018-05-31 00:00:54
Local clock offset: -0.163 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-05-31 05:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 103.89 Mbit/s
95th percentile per-packet one-way delay: 86.041 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 52.98 Mbit/s
95th percentile per-packet one-way delay: 86.014 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 86.052 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 86.222 ms
Loss rate: 1.52%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-31 00:23:23

End at: 2018-05-31 00:23:53

Local clock offset: -0.093 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-05-31 05:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 86.327 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 86.366 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 86.148 ms

Loss rate: 1.07%

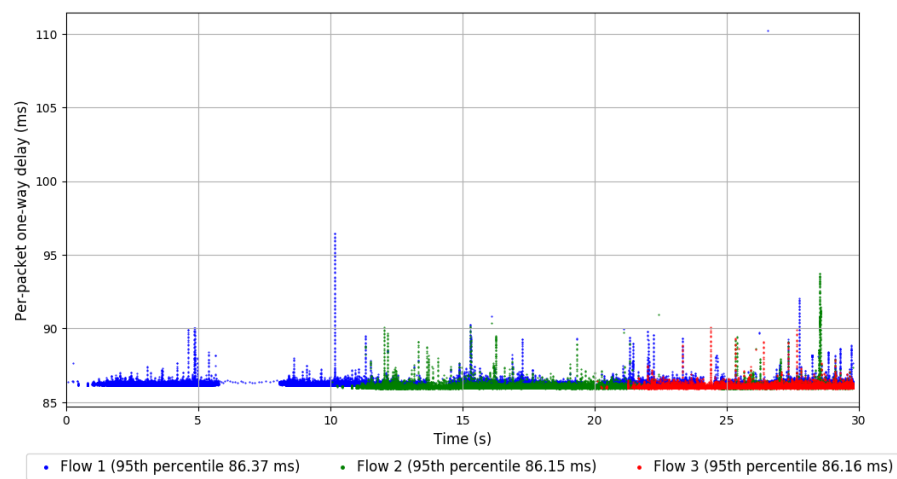
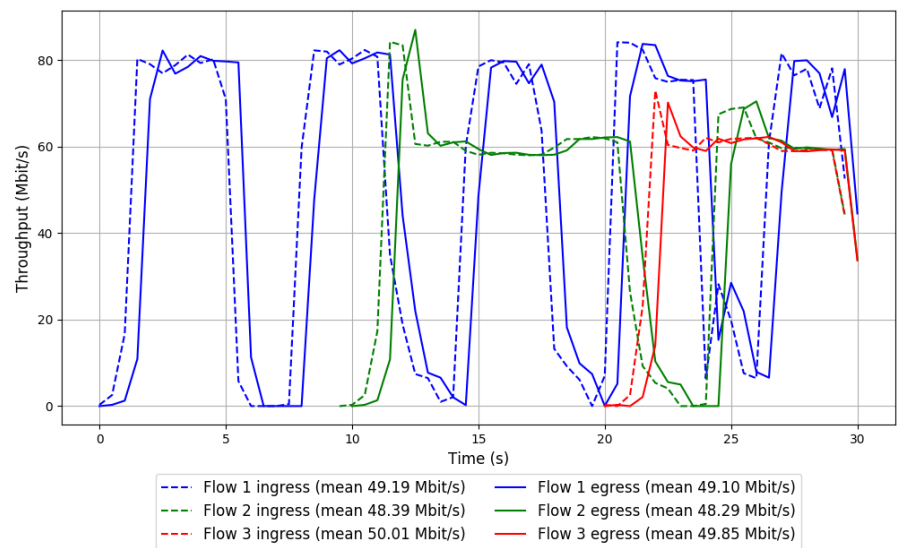
-- Flow 3:

Average throughput: 49.85 Mbit/s

95th percentile per-packet one-way delay: 86.160 ms

Loss rate: 2.08%

Run 2: Report of QUIC Cubic — Data Link

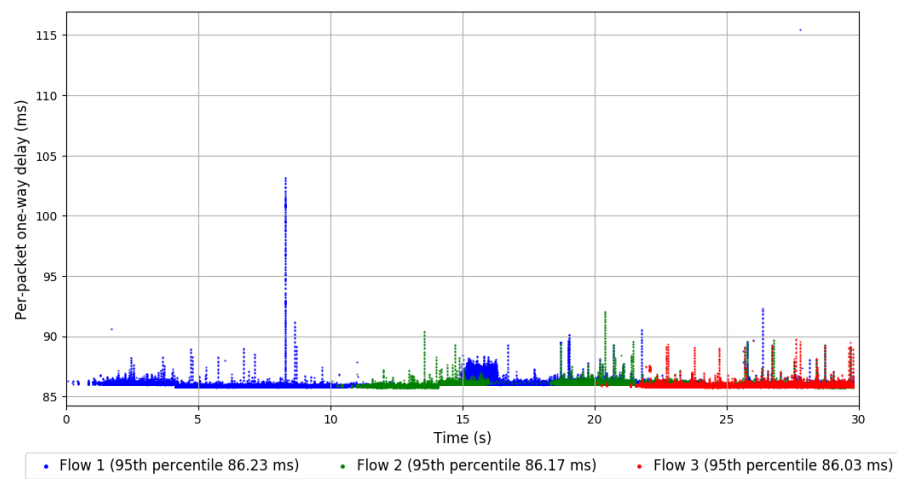
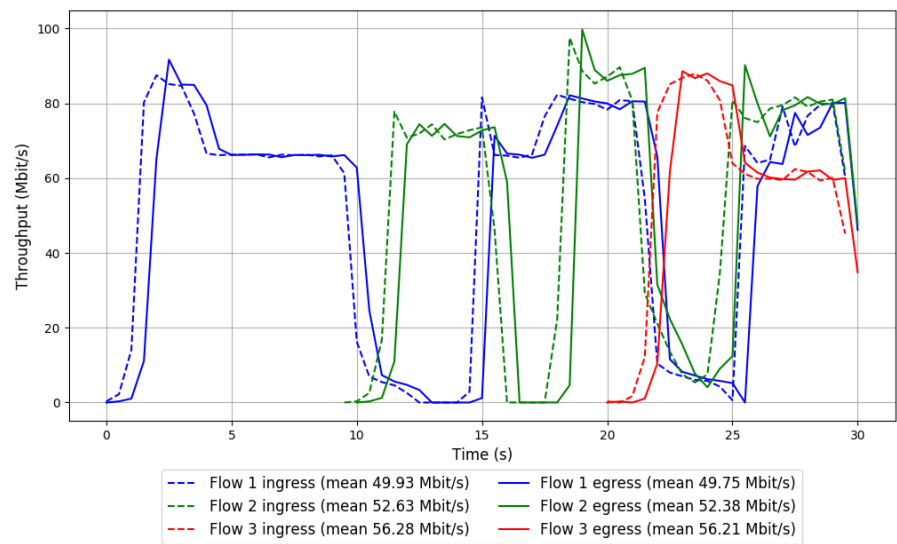


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-31 00:46:10
End at: 2018-05-31 00:46:40
Local clock offset: -0.132 ms
Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-31 05:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 102.88 Mbit/s
95th percentile per-packet one-way delay: 86.175 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 86.226 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 52.38 Mbit/s
95th percentile per-packet one-way delay: 86.169 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 86.029 ms
Loss rate: 1.86%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-31 01:08:53

End at: 2018-05-31 01:09:23

Local clock offset: -0.133 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-31 05:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 86.366 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 56.59 Mbit/s

95th percentile per-packet one-way delay: 86.406 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 34.70 Mbit/s

95th percentile per-packet one-way delay: 86.141 ms

Loss rate: 1.76%

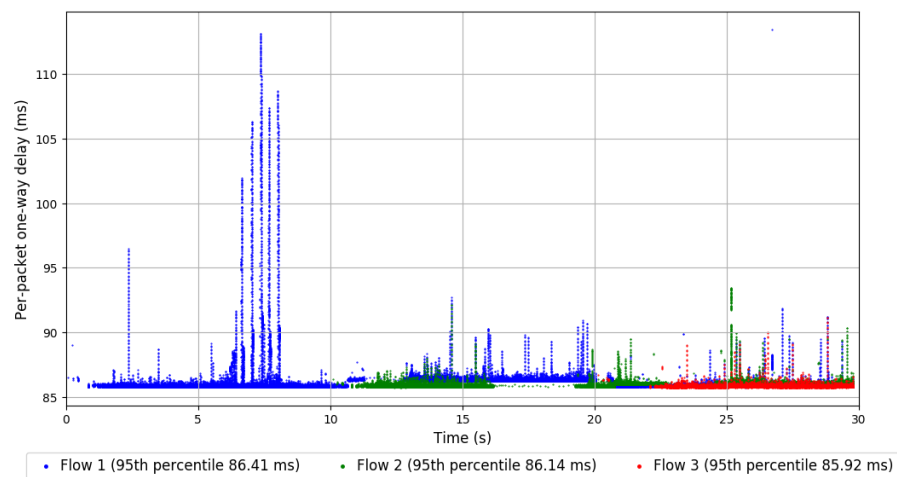
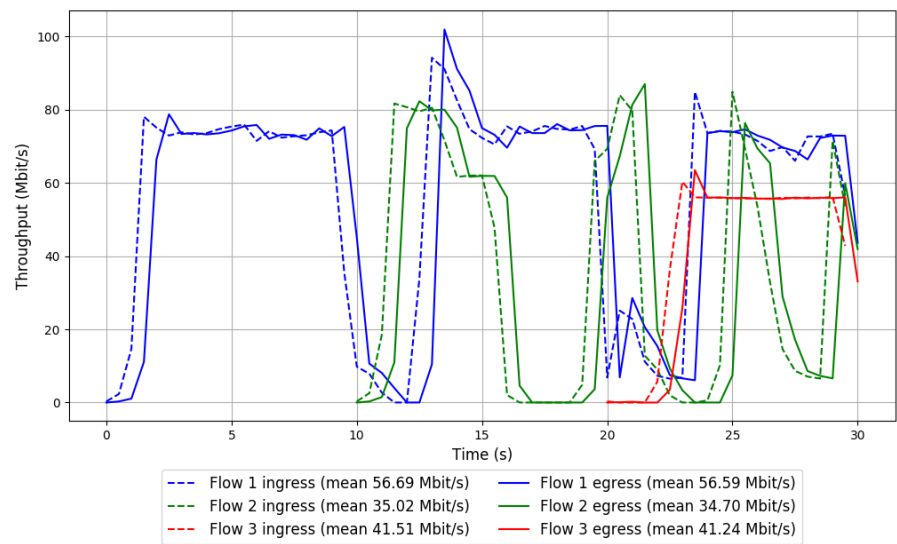
-- Flow 3:

Average throughput: 41.24 Mbit/s

95th percentile per-packet one-way delay: 85.923 ms

Loss rate: 2.38%

Run 4: Report of QUIC Cubic — Data Link

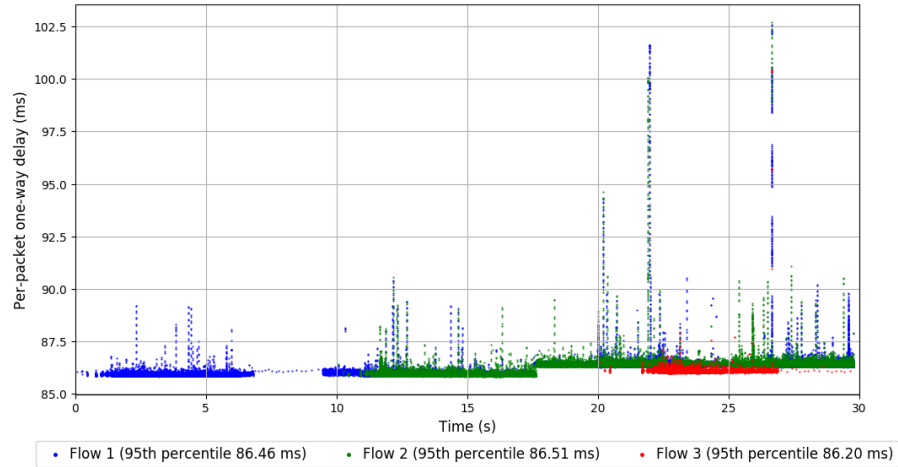
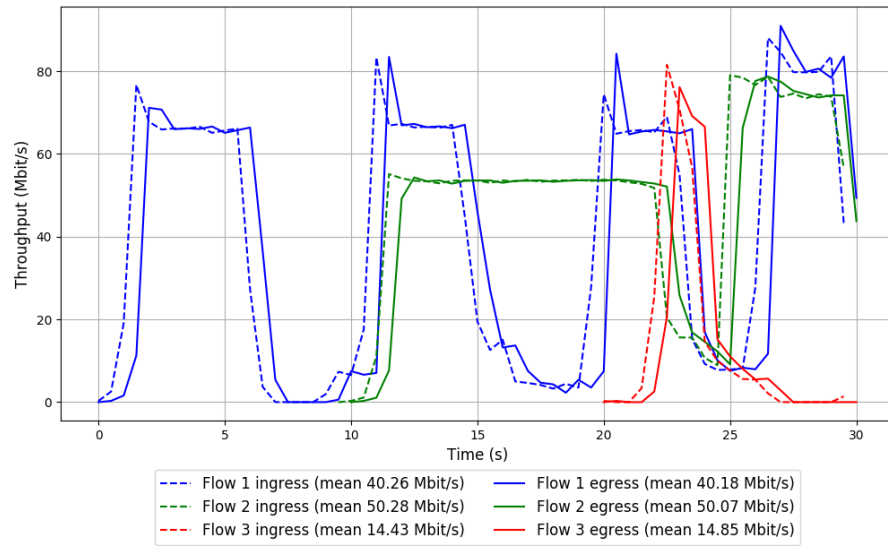


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-31 01:31:56
End at: 2018-05-31 01:32:26
Local clock offset: 0.085 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-31 05:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 86.481 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 86.458 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 86.508 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 86.203 ms
Loss rate: 0.49%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-31 01:55:02

End at: 2018-05-31 01:55:32

Local clock offset: -0.119 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-31 05:05:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 86.472 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 86.008 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 47.84 Mbit/s

95th percentile per-packet one-way delay: 86.568 ms

Loss rate: 1.10%

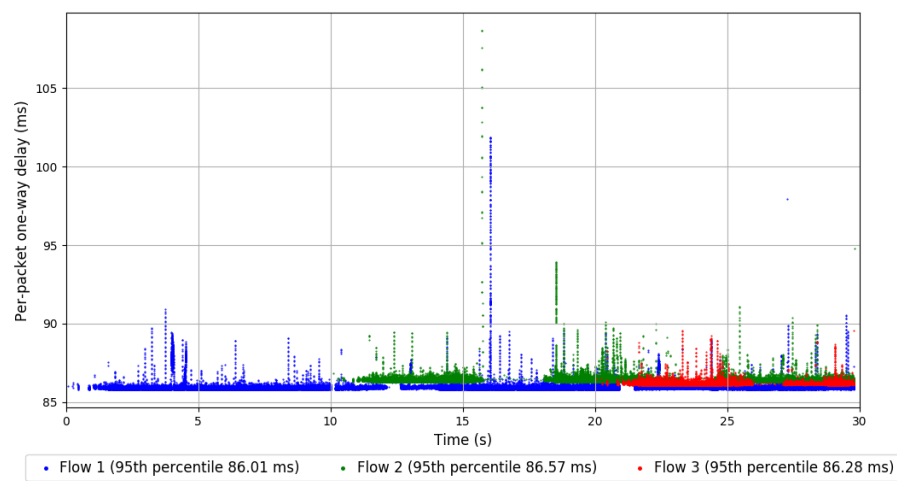
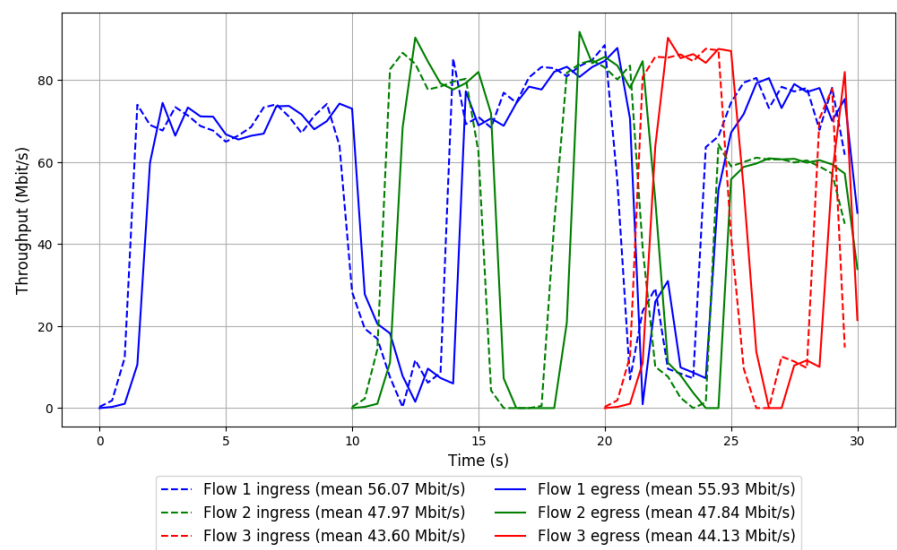
-- Flow 3:

Average throughput: 44.13 Mbit/s

95th percentile per-packet one-way delay: 86.284 ms

Loss rate: 0.53%

Run 6: Report of QUIC Cubic — Data Link

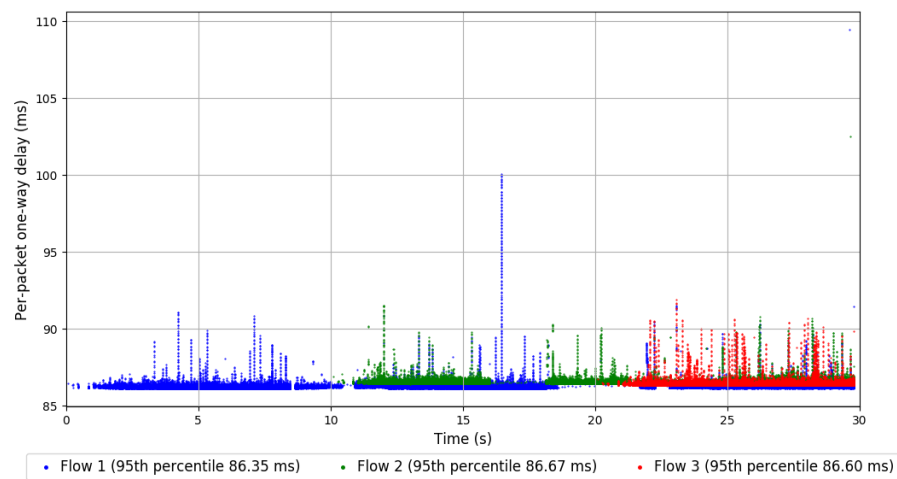
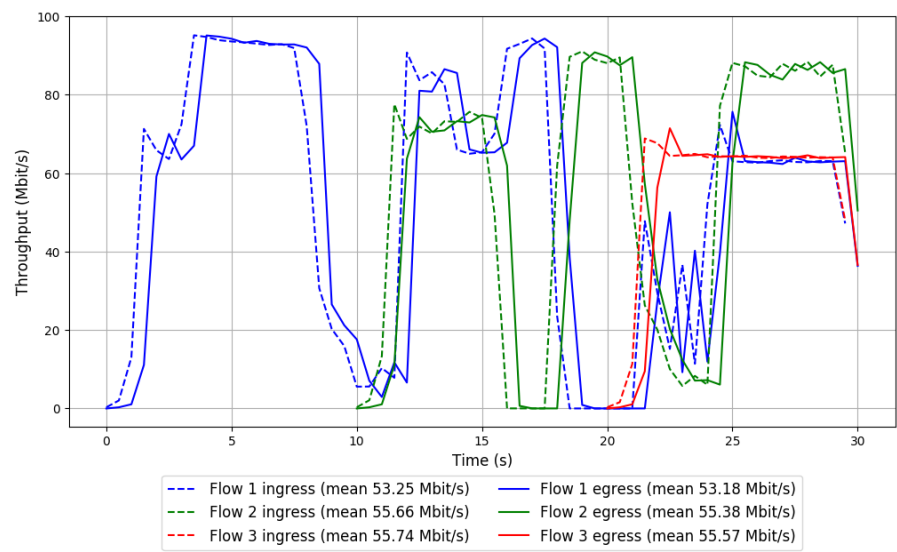


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-31 02:18:23
End at: 2018-05-31 02:18:53
Local clock offset: -0.197 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-31 05:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.97 Mbit/s
95th percentile per-packet one-way delay: 86.608 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 53.18 Mbit/s
95th percentile per-packet one-way delay: 86.348 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 86.669 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 86.603 ms
Loss rate: 2.04%

Run 7: Report of QUIC Cubic — Data Link

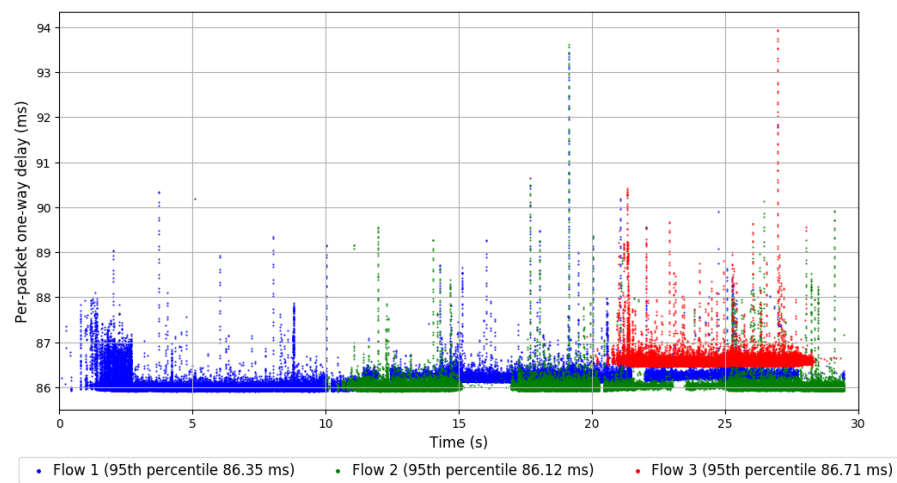
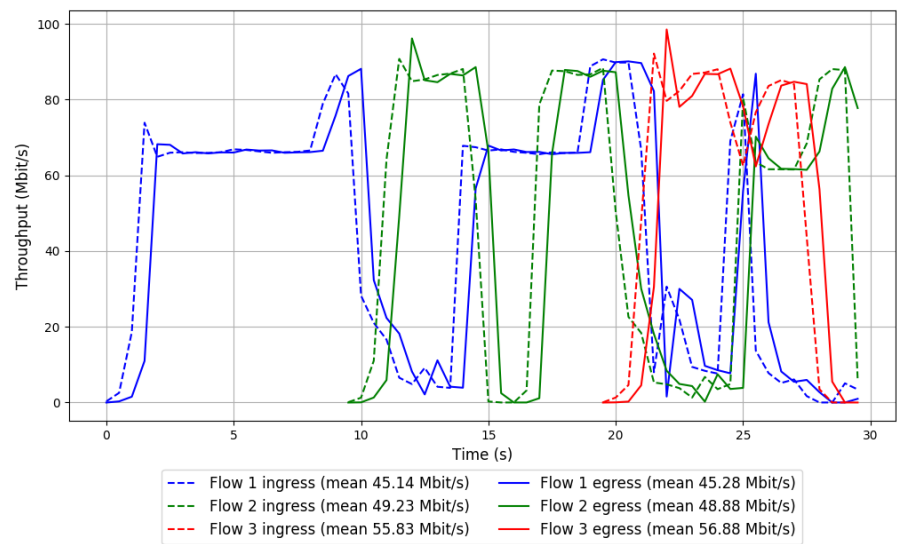


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-31 02:41:22
End at: 2018-05-31 02:41:52
Local clock offset: -0.214 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-05-31 05:05:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 86.598 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 86.354 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 86.121 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 86.709 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-31 03:04:41

End at: 2018-05-31 03:05:11

Local clock offset: -0.193 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-31 05:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.45 Mbit/s

95th percentile per-packet one-way delay: 86.192 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 86.192 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 86.154 ms

Loss rate: 1.09%

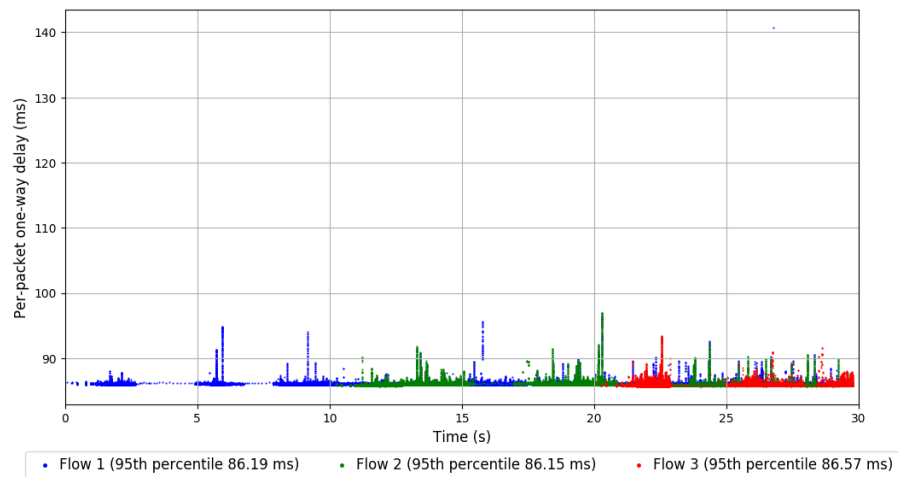
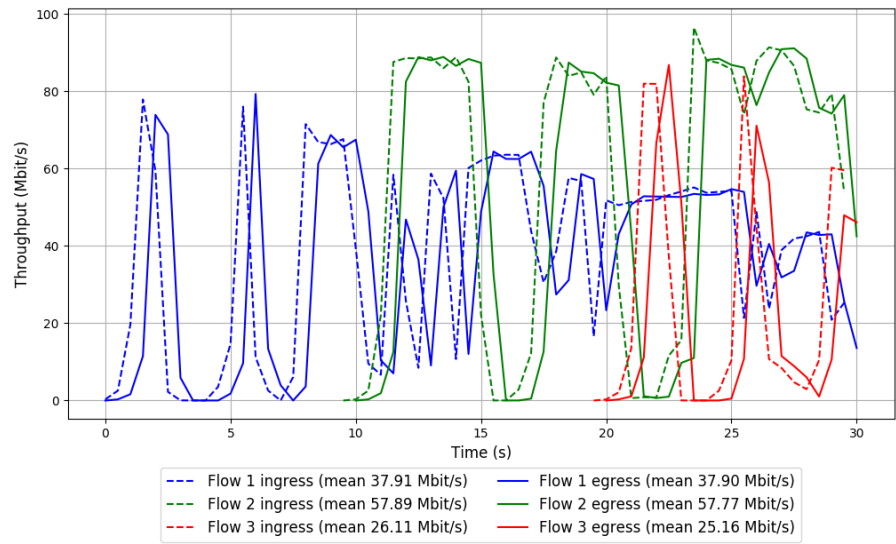
-- Flow 3:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 86.568 ms

Loss rate: 5.34%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-31 03:27:55

End at: 2018-05-31 03:28:25

Local clock offset: 6.212 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-05-31 05:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 92.761 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 92.336 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 48.74 Mbit/s

95th percentile per-packet one-way delay: 92.561 ms

Loss rate: 1.57%

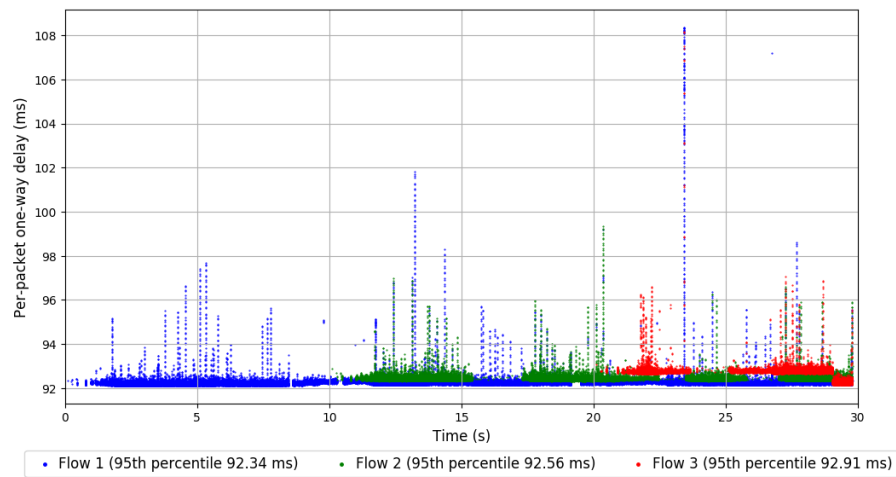
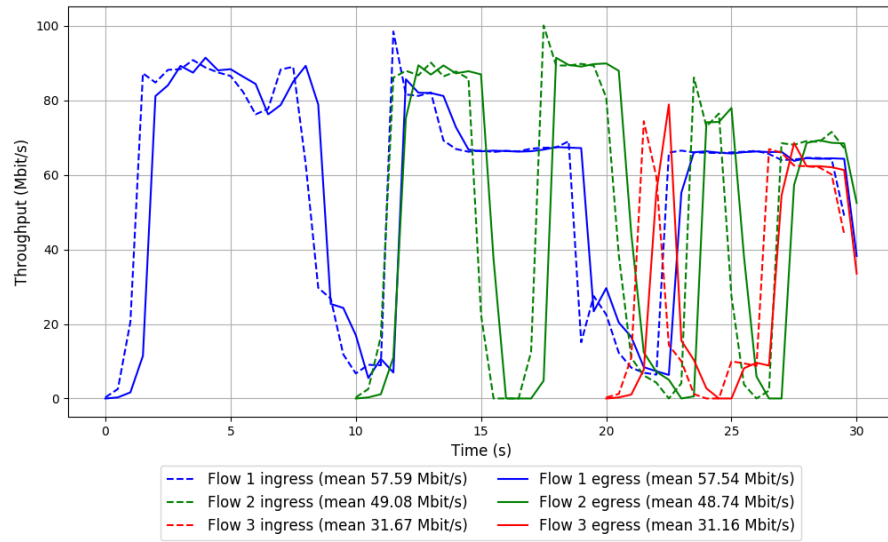
-- Flow 3:

Average throughput: 31.16 Mbit/s

95th percentile per-packet one-way delay: 92.912 ms

Loss rate: 3.36%

Run 10: Report of QUIC Cubic — Data Link

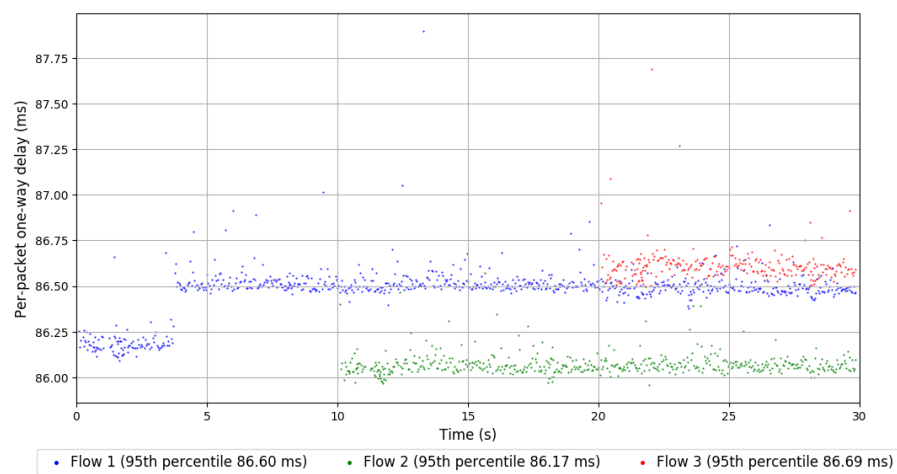
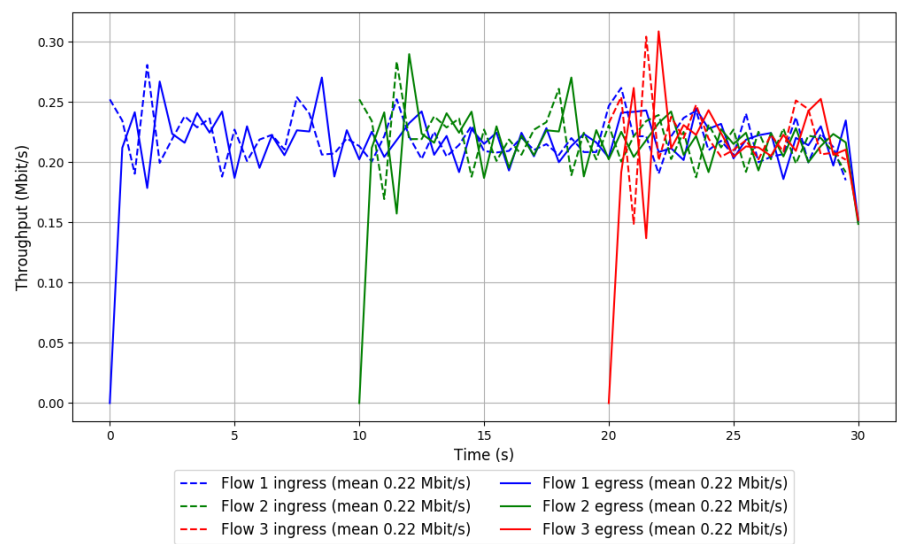


```
Run 1: Statistics of SReAM

Start at: 2018-05-30 23:47:20
End at: 2018-05-30 23:47:50
Local clock offset: -0.129 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.642 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.600 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 1.85%
```

Run 1: Report of SReAM — Data Link

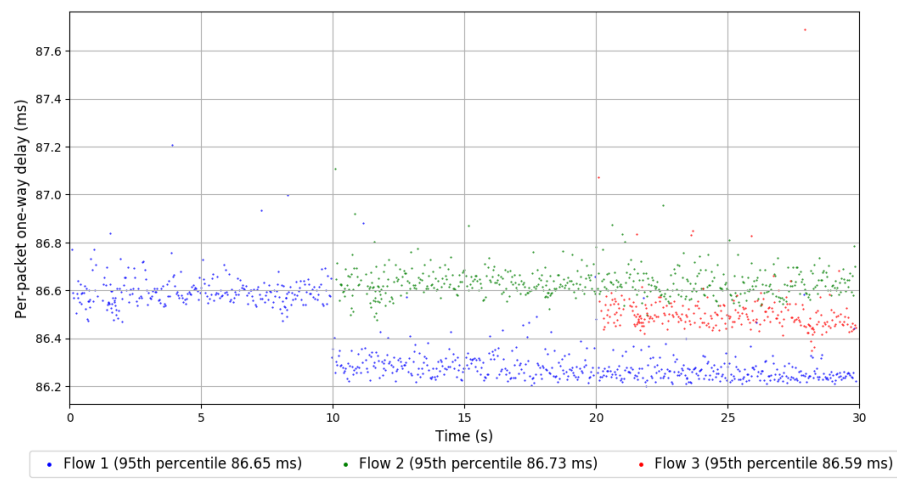
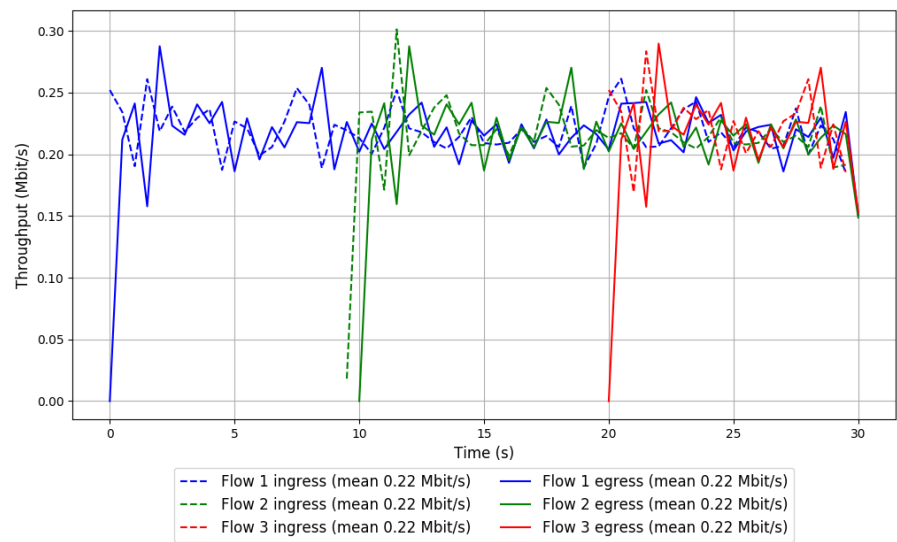


```
Run 2: Statistics of SReAM

Start at: 2018-05-31 00:10:04
End at: 2018-05-31 00:10:34
Local clock offset: 0.119 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.729 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.589 ms
Loss rate: 1.46%
```

Run 2: Report of SReAM — Data Link

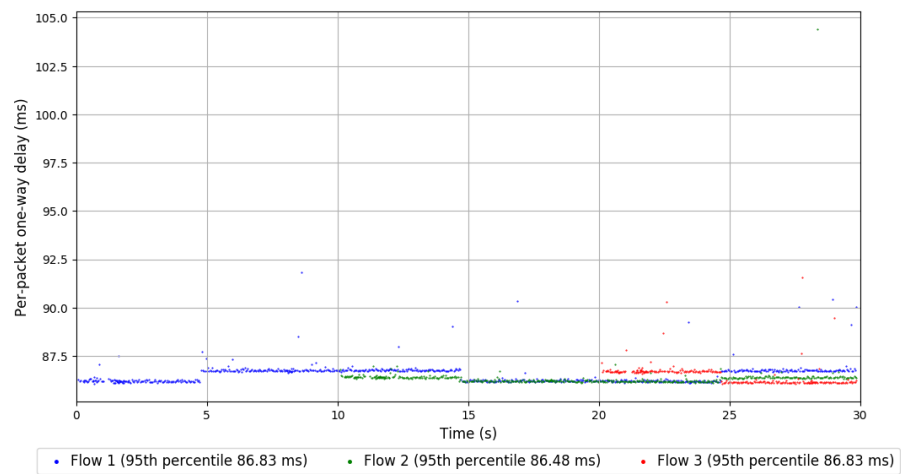
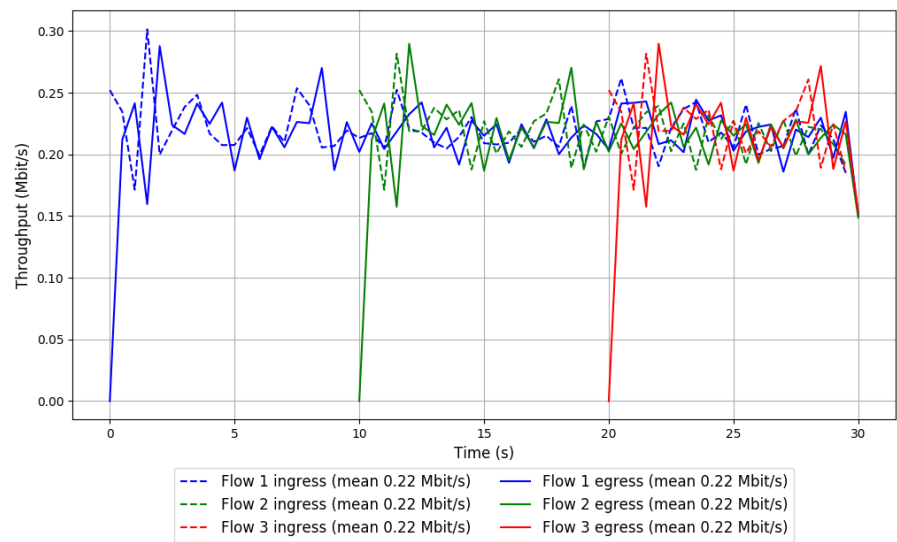


Run 3: Statistics of SReAM

Start at: 2018-05-31 00:32:49
End at: 2018-05-31 00:33:19
Local clock offset: -0.017 ms
Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.477 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 1.46%

Run 3: Report of SReAM — Data Link

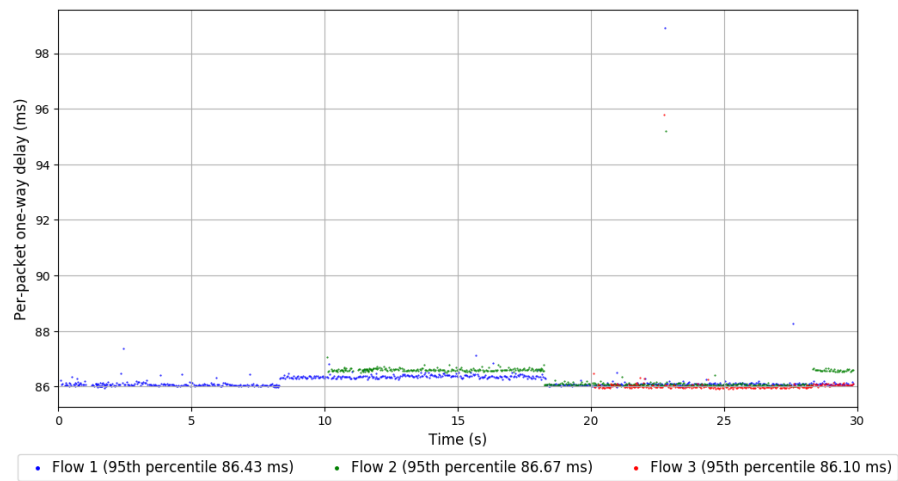
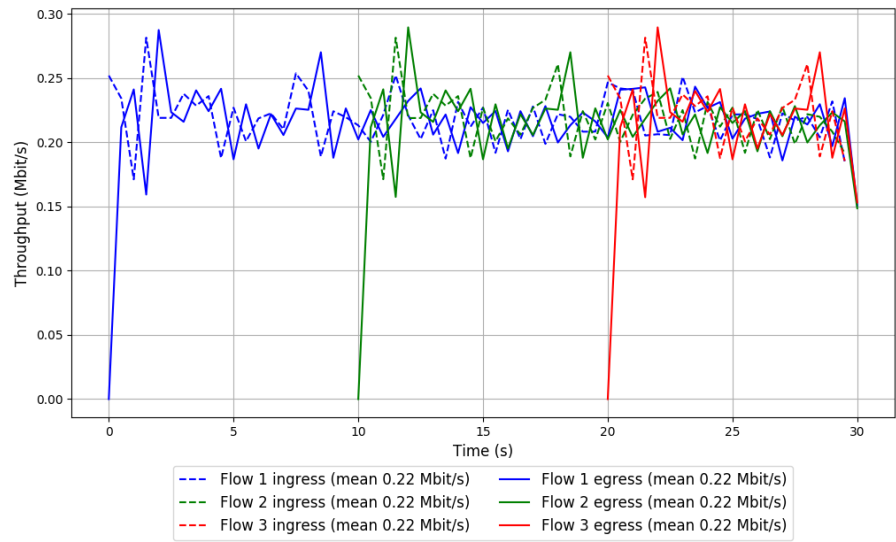


Run 4: Statistics of SReAM

Start at: 2018-05-31 00:55:56
End at: 2018-05-31 00:56:26
Local clock offset: -0.062 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.623 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.665 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.099 ms
Loss rate: 1.46%

Run 4: Report of SReAM — Data Link

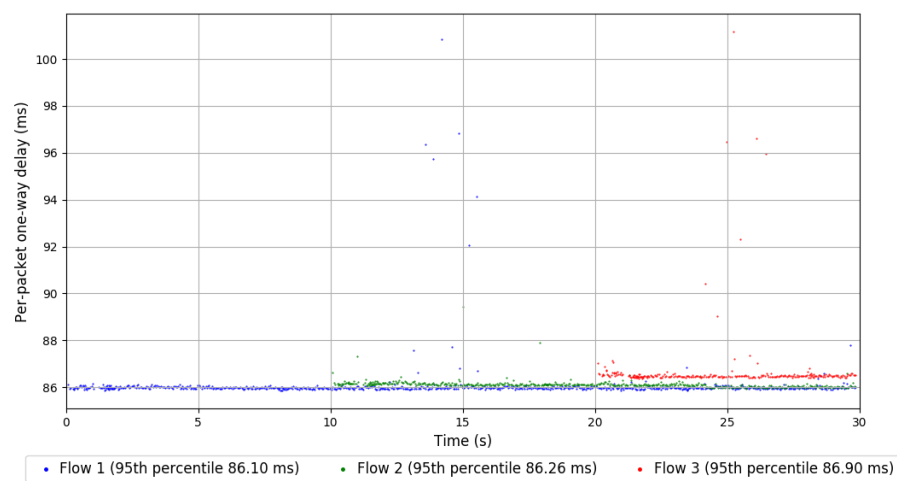
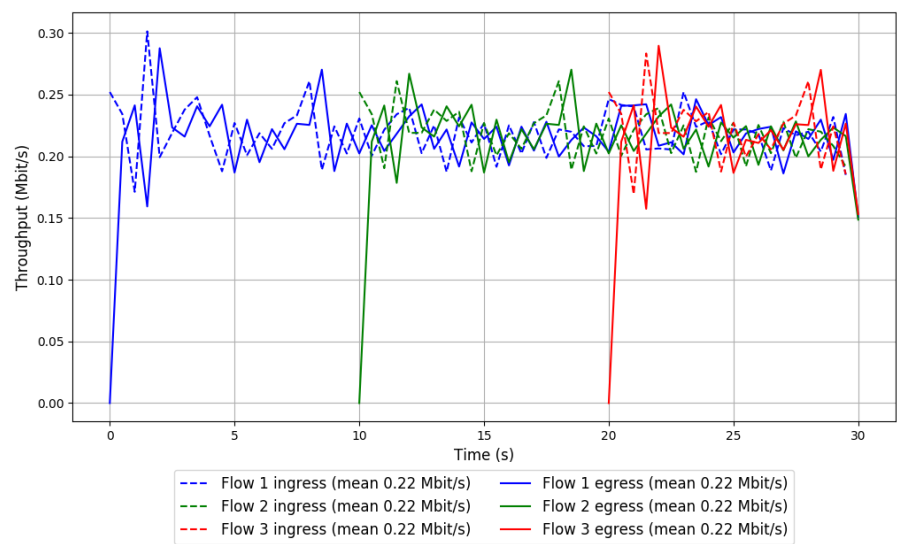


Run 5: Statistics of SReAM

Start at: 2018-05-31 01:18:34
End at: 2018-05-31 01:19:04
Local clock offset: -0.089 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.536 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.104 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.258 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 1.46%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-31 01:41:39

End at: 2018-05-31 01:42:09

Local clock offset: 0.068 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-05-31 05:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.666 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.702 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.245 ms

Loss rate: 1.04%

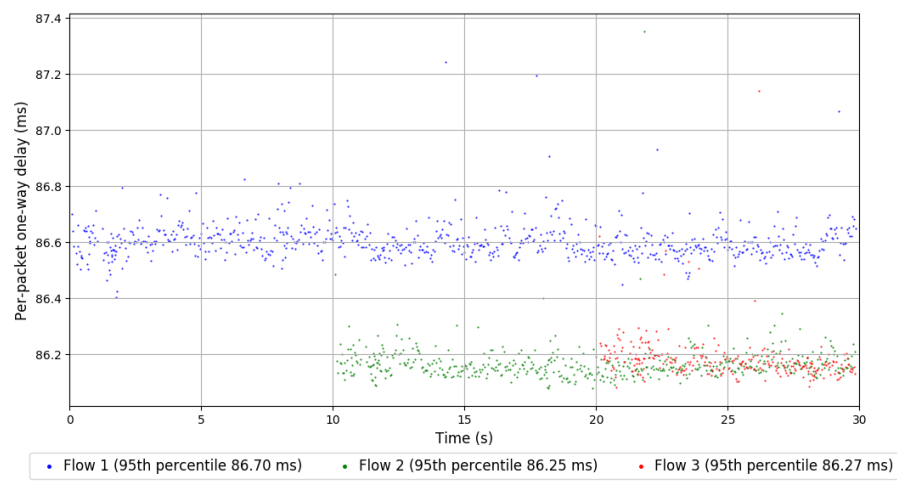
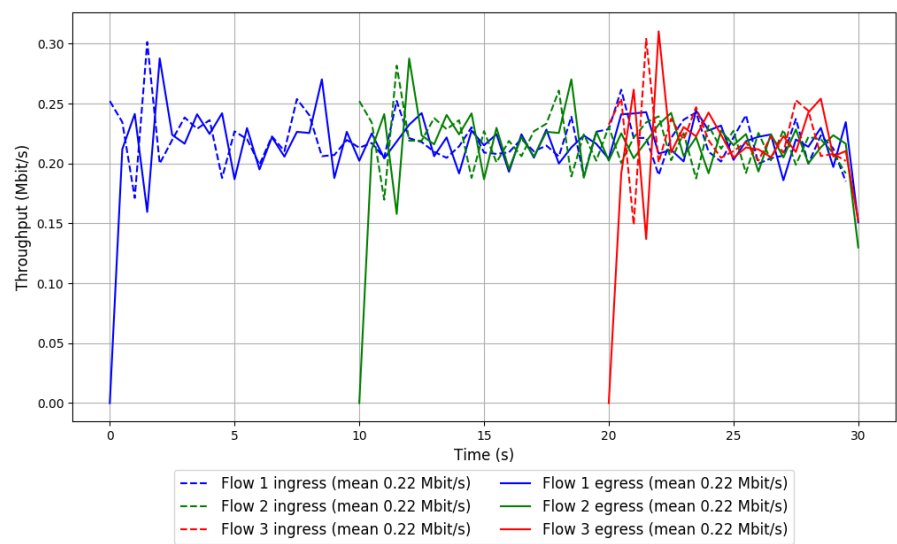
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.268 ms

Loss rate: 1.85%

Run 6: Report of SReAM — Data Link

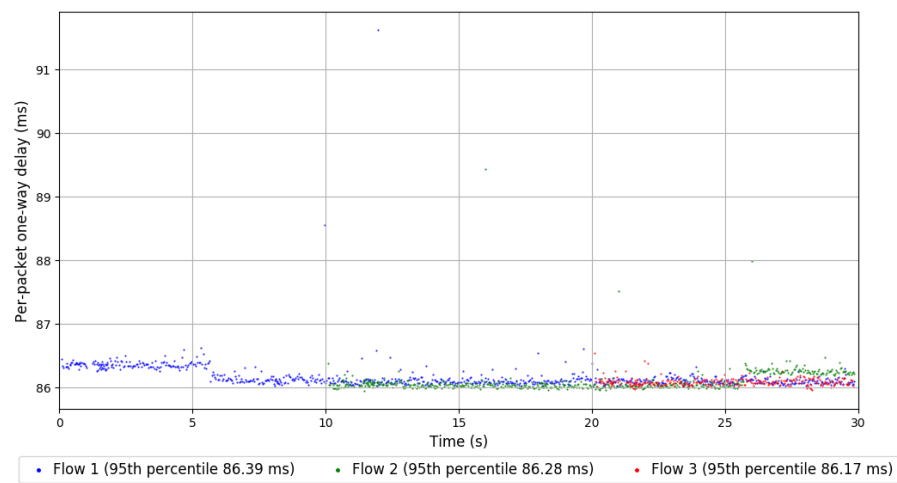
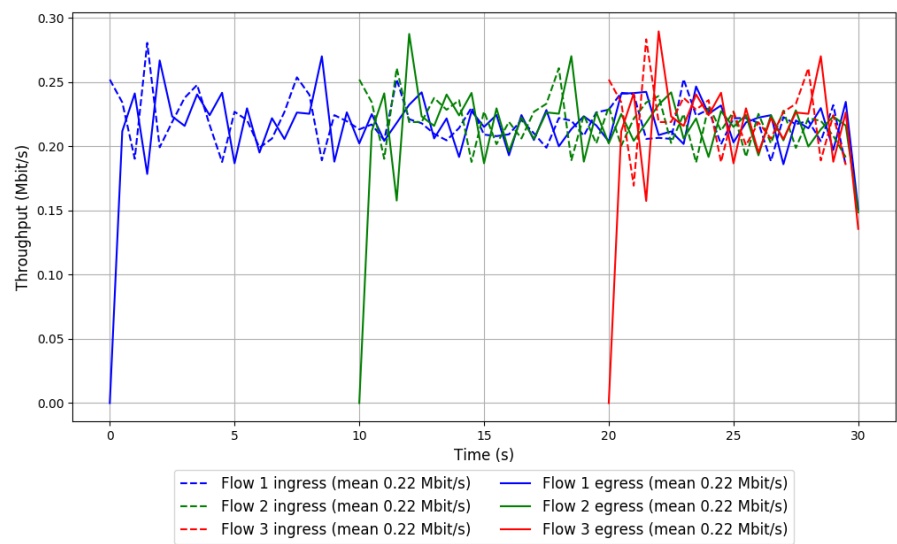


Run 7: Statistics of SReAM

Start at: 2018-05-31 02:04:48
End at: 2018-05-31 02:05:18
Local clock offset: -0.177 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.368 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.392 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.283 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.175 ms
Loss rate: 1.85%

Run 7: Report of SReAM — Data Link

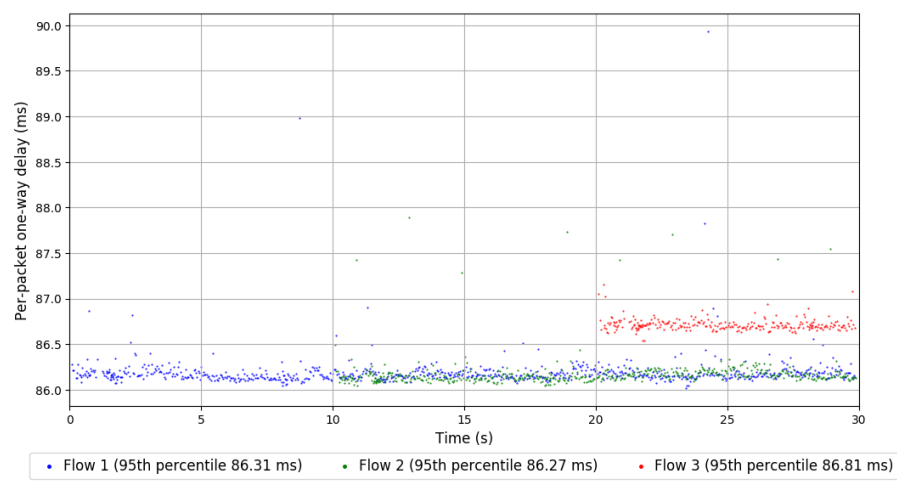
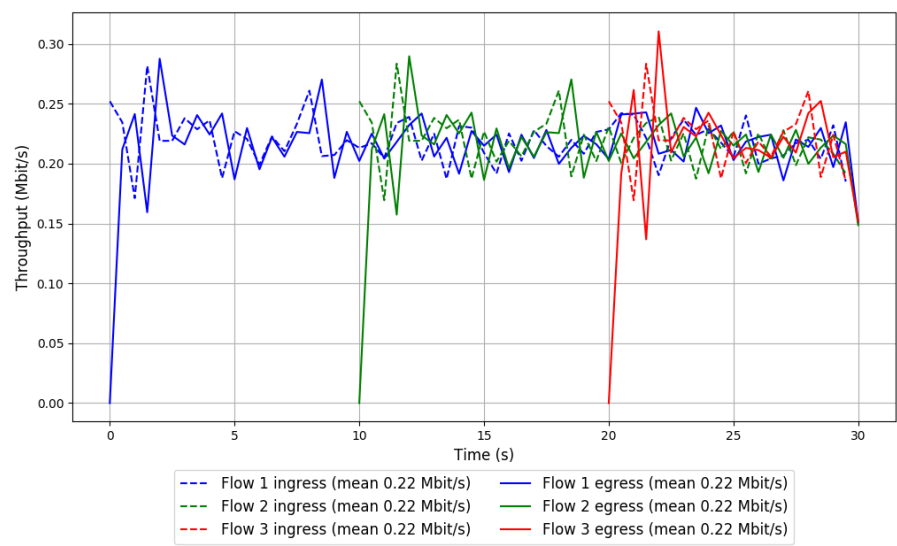


Run 8: Statistics of SReAM

Start at: 2018-05-31 02:28:10
End at: 2018-05-31 02:28:40
Local clock offset: -0.21 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.740 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.310 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.274 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 1.85%

Run 8: Report of SReAM — Data Link

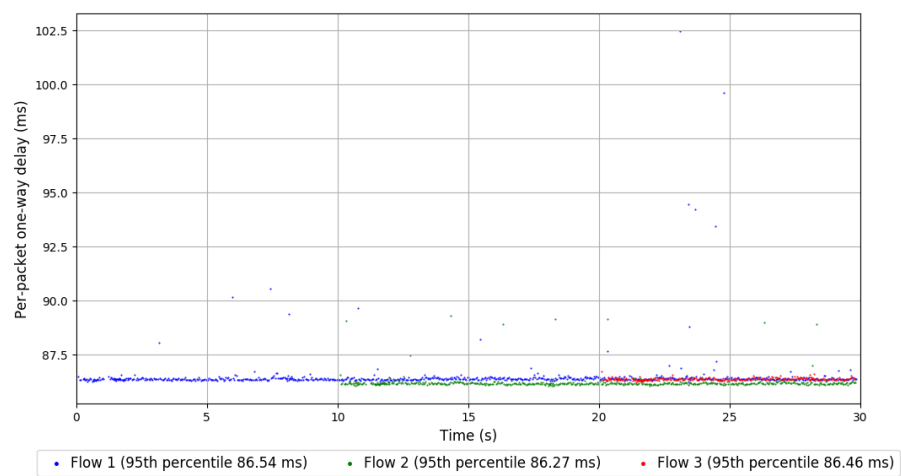
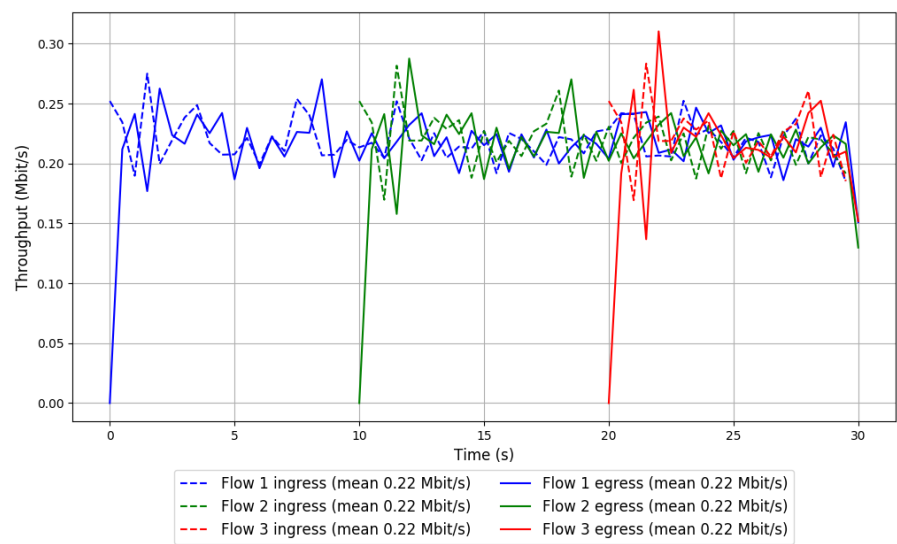


Run 9: Statistics of SReAM

Start at: 2018-05-31 02:51:12
End at: 2018-05-31 02:51:42
Local clock offset: -0.161 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.485 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.540 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.271 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 1.85%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-31 03:14:25

End at: 2018-05-31 03:14:55

Local clock offset: -0.246 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-31 05:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.474 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.447 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.479 ms

Loss rate: 0.82%

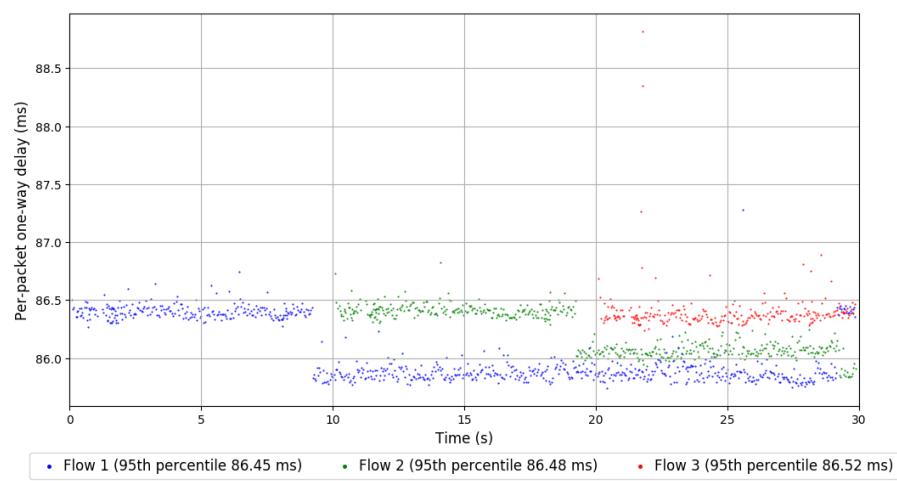
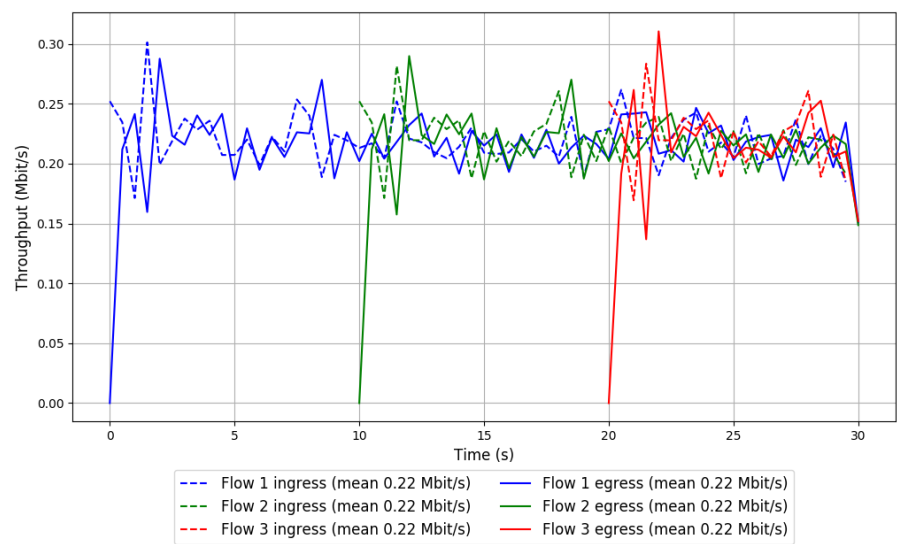
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.523 ms

Loss rate: 1.85%

Run 10: Report of SReAM — Data Link

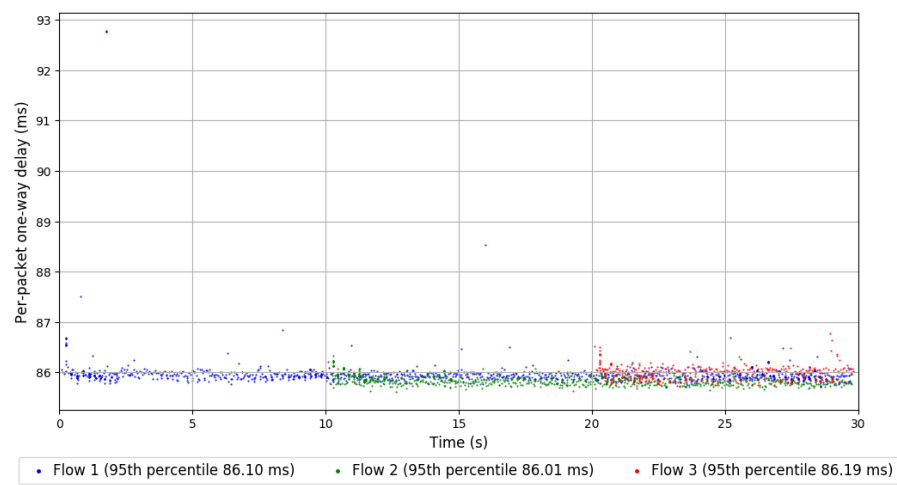
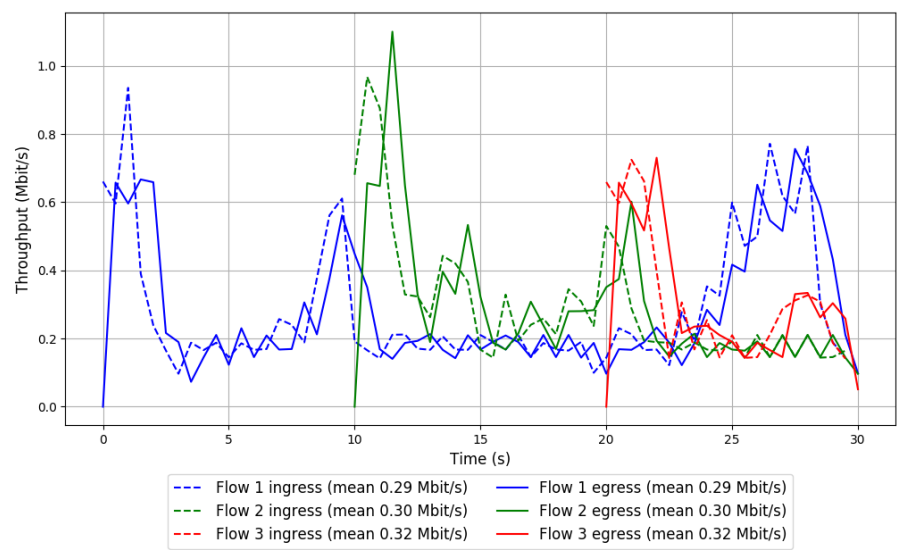


Run 1: Statistics of Sprout

Start at: 2018-05-30 23:54:16
End at: 2018-05-30 23:54:46
Local clock offset: -0.375 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 86.113 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.103 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.011 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.187 ms
Loss rate: 1.45%

Run 1: Report of Sprout — Data Link

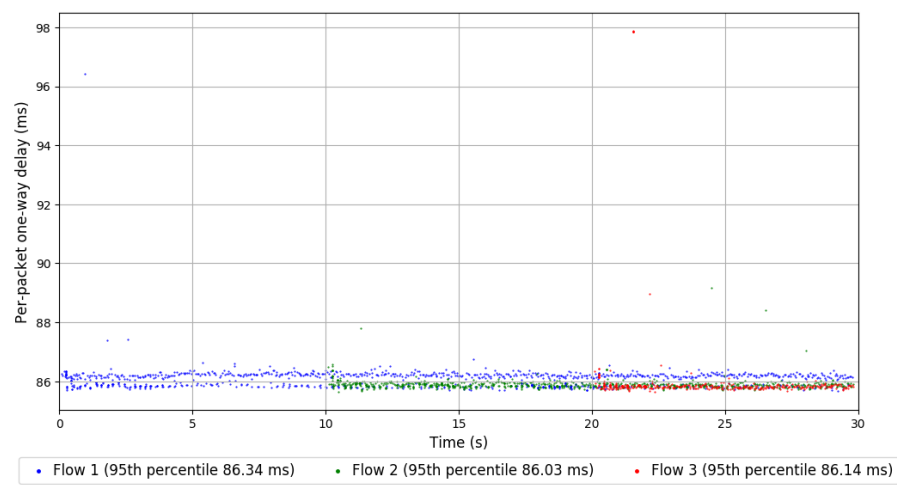
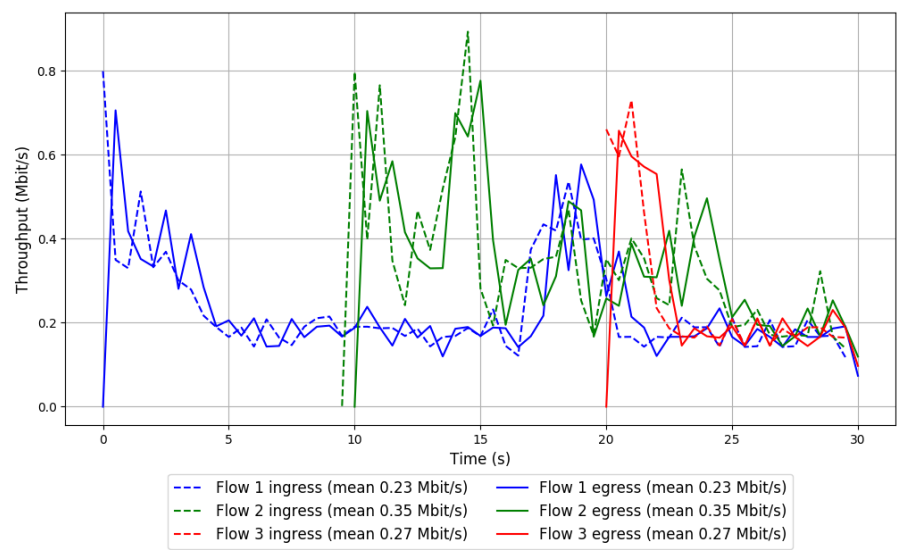


Run 2: Statistics of Sprout

Start at: 2018-05-31 00:16:56
End at: 2018-05-31 00:17:26
Local clock offset: -0.397 ms
Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.295 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.336 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.029 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.144 ms
Loss rate: 1.33%

Run 2: Report of Sprout — Data Link

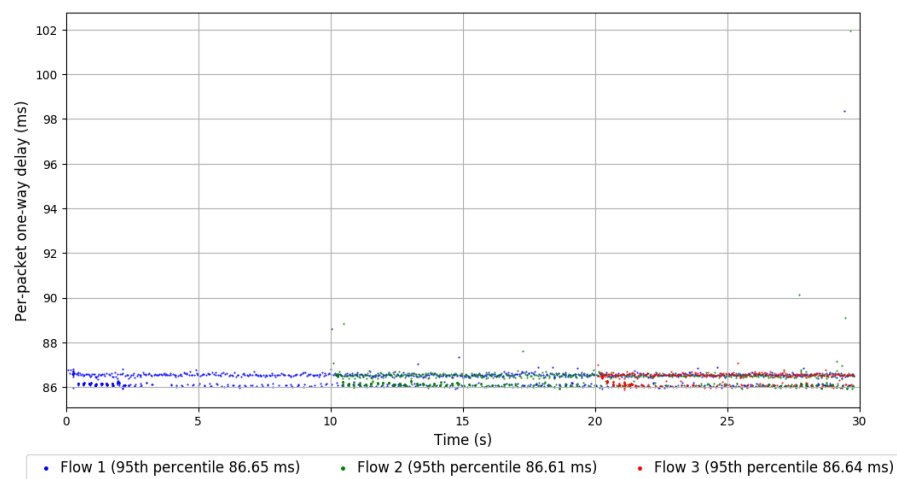
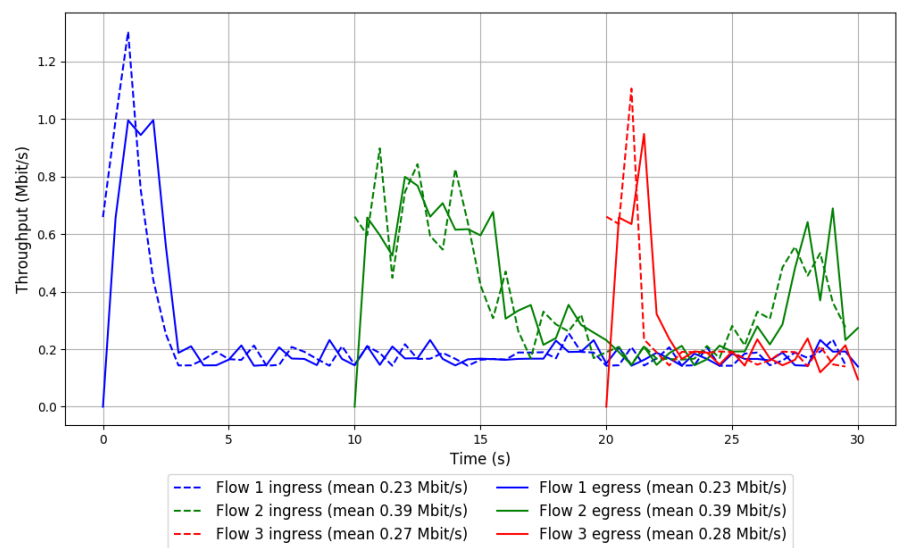


Run 3: Statistics of Sprout

Start at: 2018-05-31 00:39:49
End at: 2018-05-31 00:40:19
Local clock offset: -0.137 ms
Remote clock offset: 0.033 ms

```
# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 86.637 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.607 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 0.88%
```

Run 3: Report of Sprout — Data Link

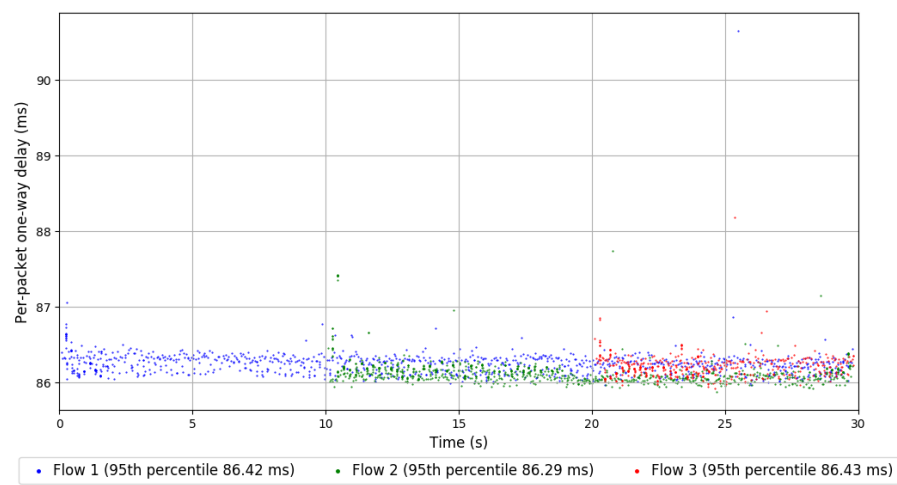
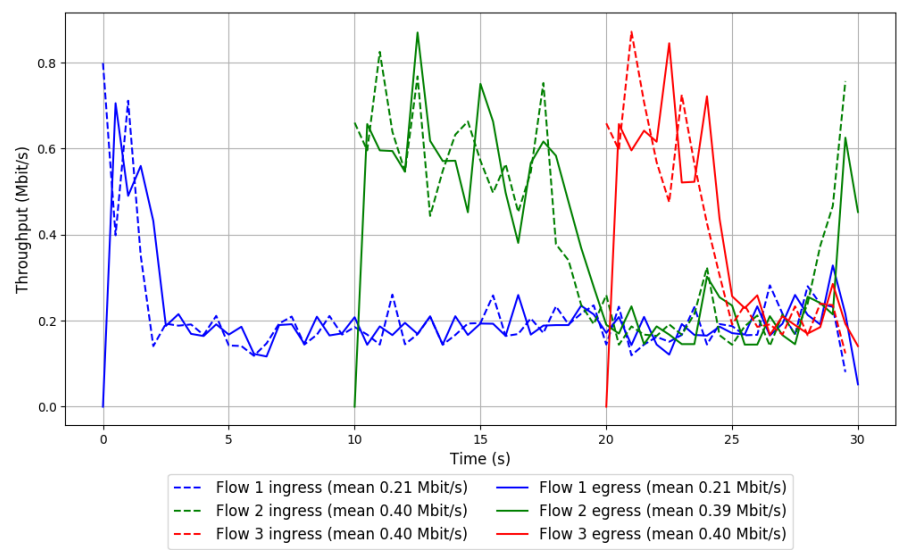


Run 4: Statistics of Sprout

Start at: 2018-05-31 01:02:53
End at: 2018-05-31 01:03:23
Local clock offset: -0.094 ms
Remote clock offset: -0.04 ms

```
# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 86.404 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.422 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.292 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.428 ms
Loss rate: 0.36%
```

Run 4: Report of Sprout — Data Link

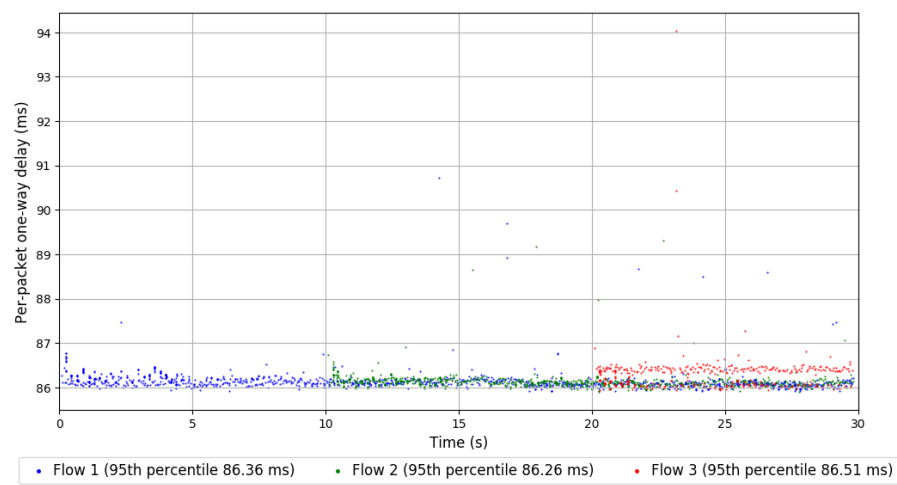
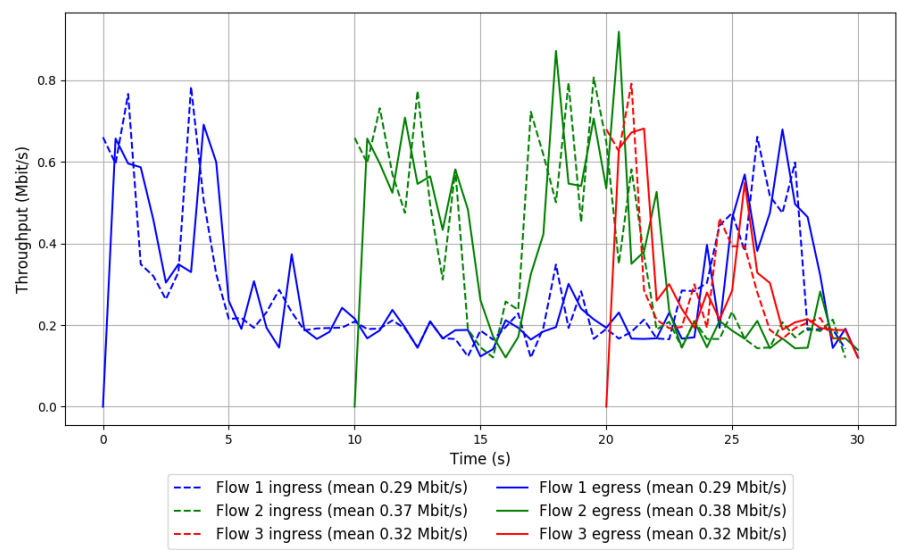


Run 5: Statistics of Sprout

Start at: 2018-05-31 01:25:35
End at: 2018-05-31 01:26:05
Local clock offset: 0.063 ms
Remote clock offset: 0.018 ms

```
# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 86.439 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.355 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 86.261 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.513 ms
Loss rate: 1.13%
```


Run 5: Report of Sprout — Data Link

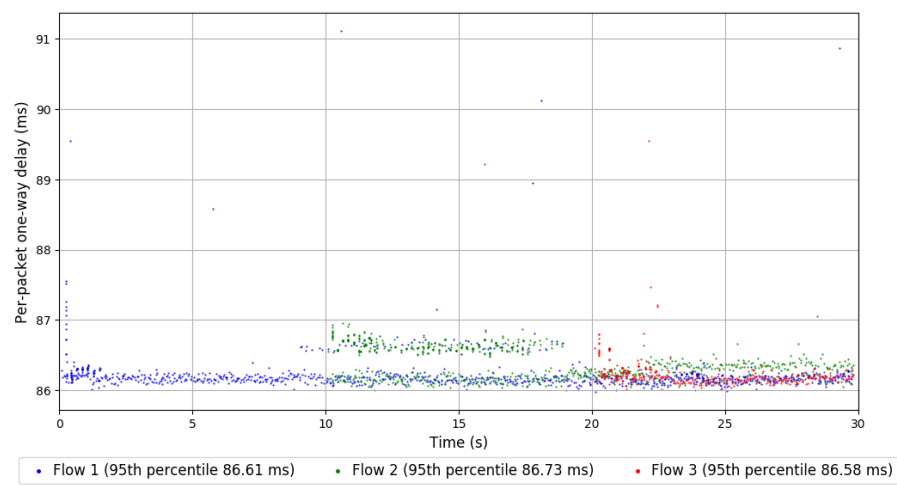
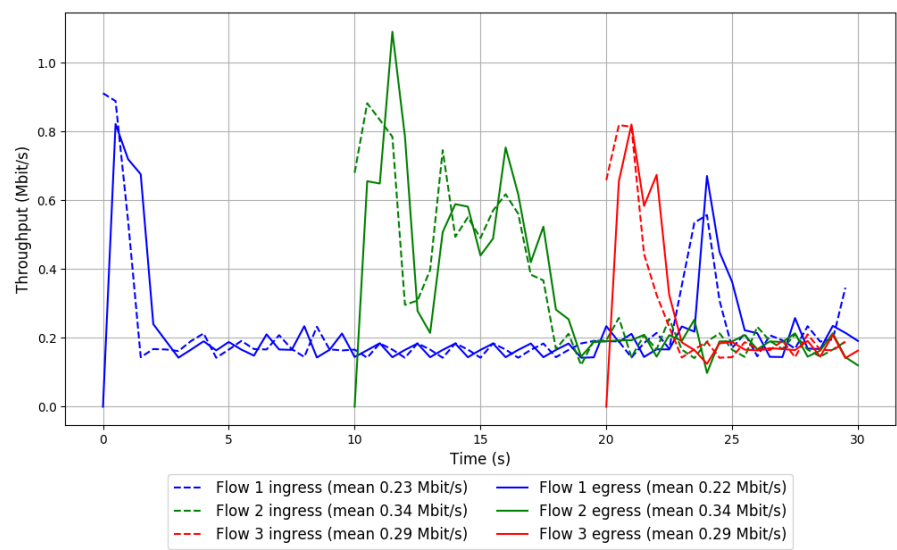


Run 6: Statistics of Sprout

Start at: 2018-05-31 01:48:35
End at: 2018-05-31 01:49:05
Local clock offset: -0.039 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 86.711 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.612 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 86.733 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.583 ms
Loss rate: 1.26%

Run 6: Report of Sprout — Data Link

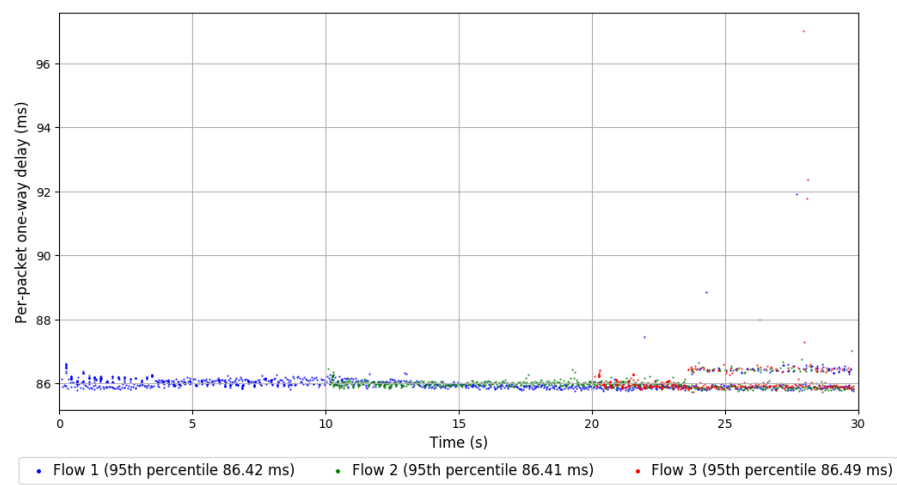
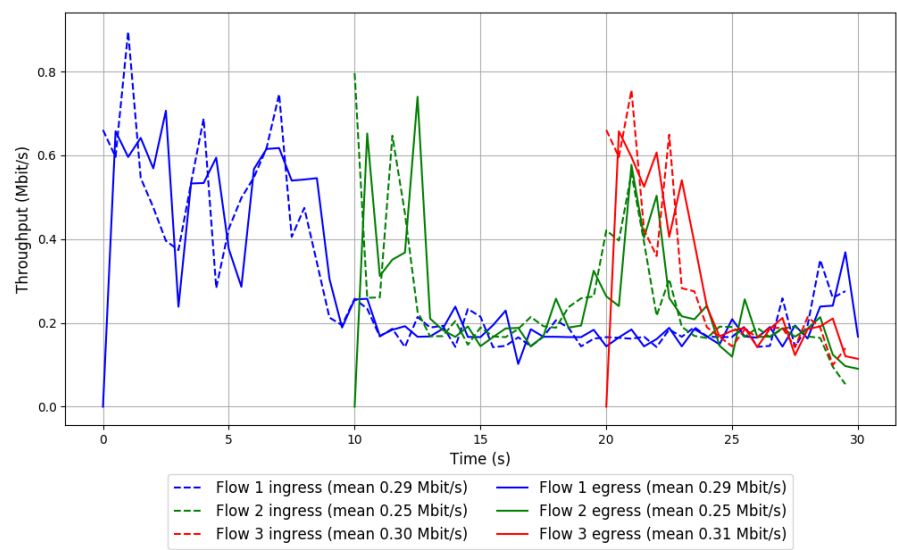


Run 7: Statistics of Sprout

Start at: 2018-05-31 02:11:50
End at: 2018-05-31 02:12:20
Local clock offset: -0.365 ms
Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-31 05:05:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.441 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.411 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.493 ms
Loss rate: 0.48%

Run 7: Report of Sprout — Data Link

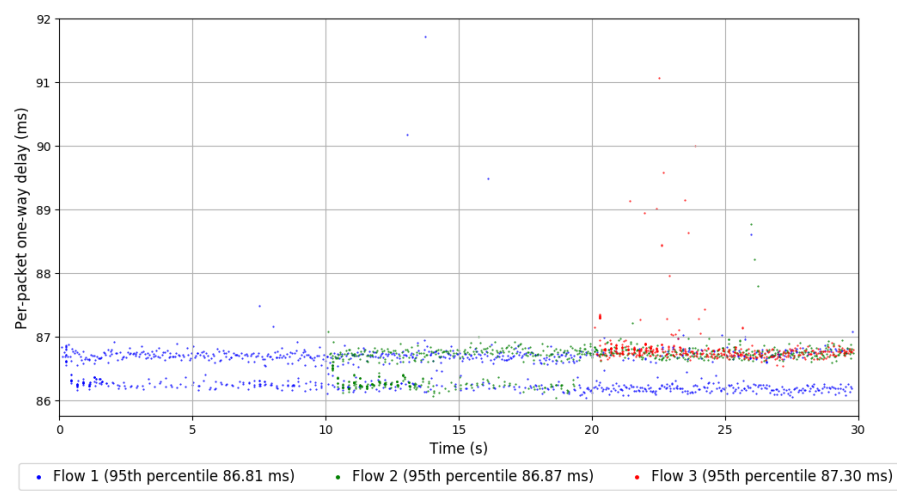
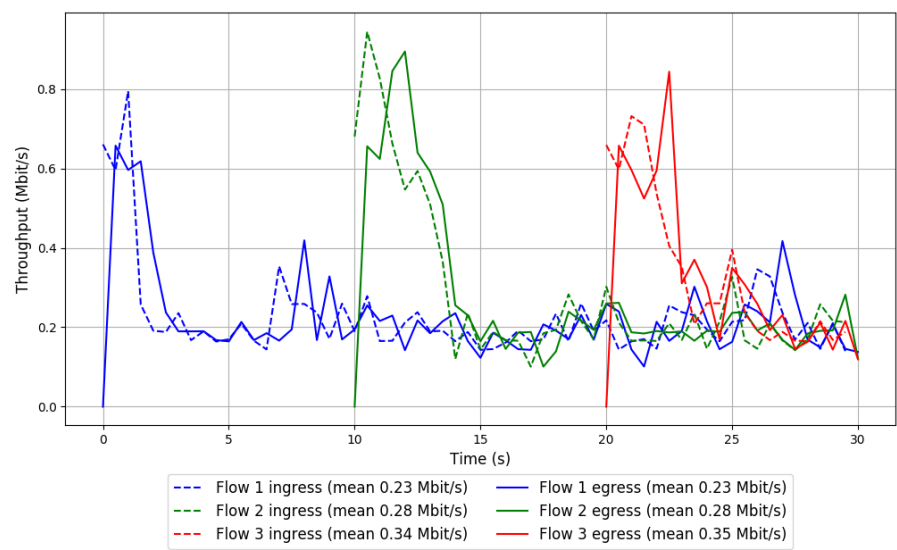


Run 8: Statistics of Sprout

Start at: 2018-05-31 02:35:05
End at: 2018-05-31 02:35:35
Local clock offset: -0.14 ms
Remote clock offset: -0.04 ms

```
# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 86.878 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 87.297 ms
Loss rate: 1.38%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-31 02:58:09

End at: 2018-05-31 02:58:39

Local clock offset: -0.108 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-31 05:05:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.682 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 86.664 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 86.667 ms

Loss rate: 0.94%

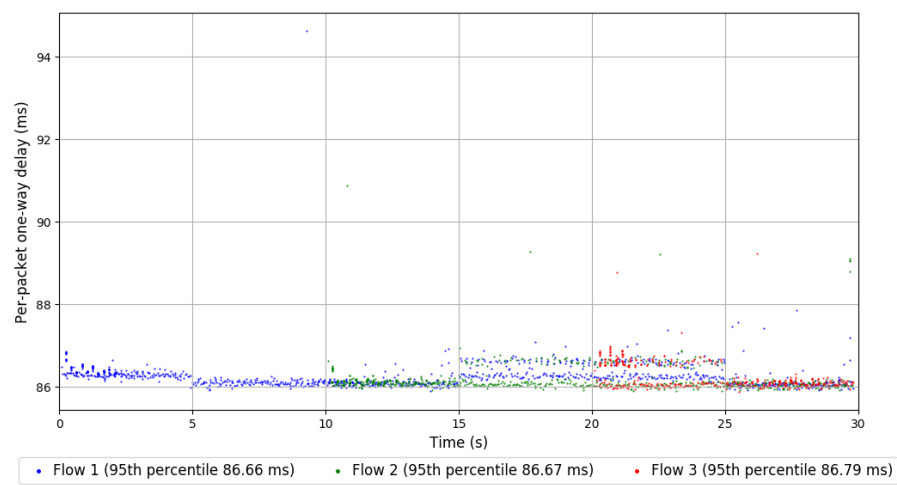
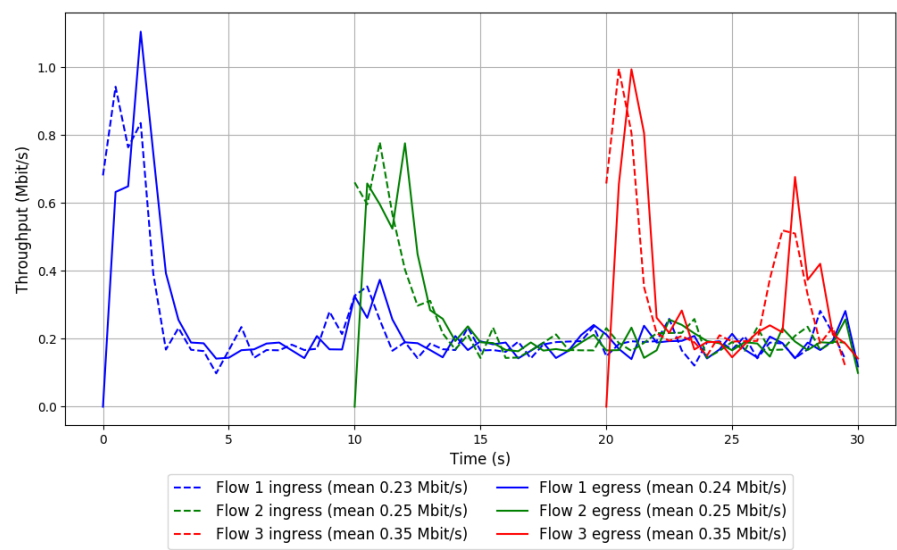
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 86.786 ms

Loss rate: 0.69%

Run 9: Report of Sprout — Data Link

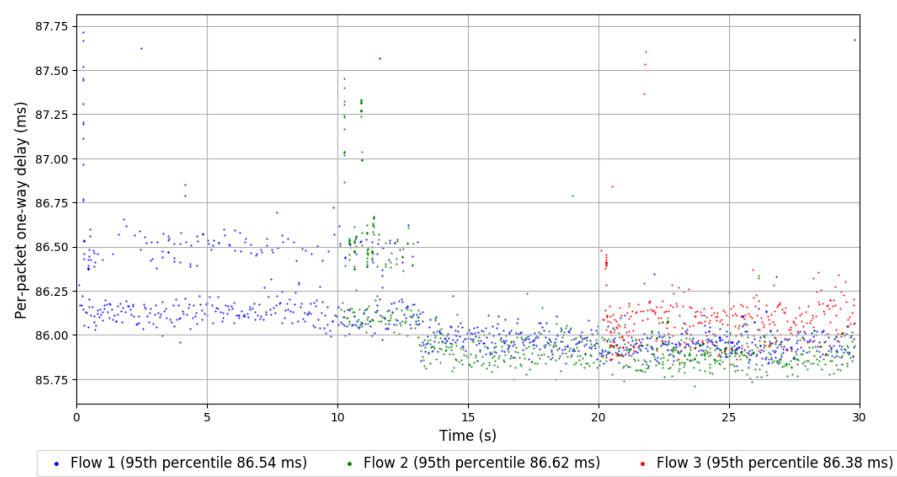
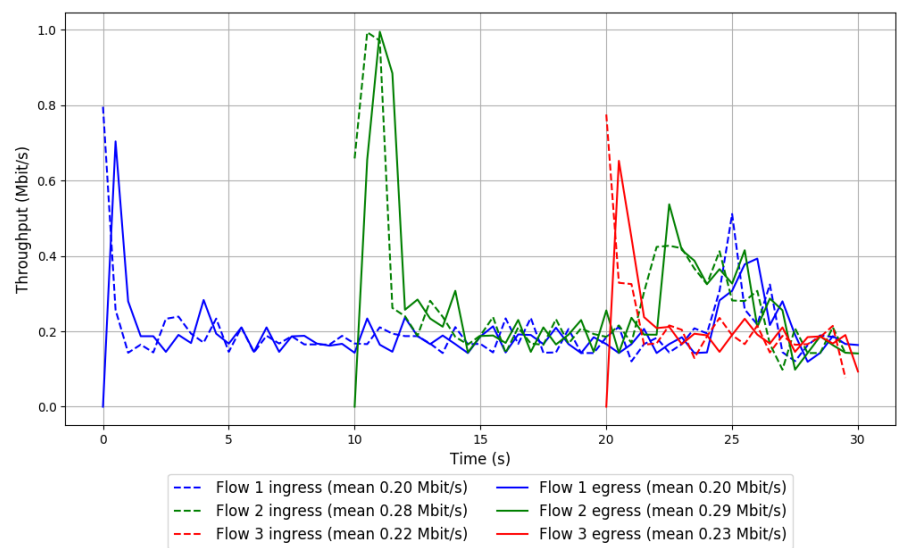


Run 10: Statistics of Sprout

Start at: 2018-05-31 03:21:31
End at: 2018-05-31 03:22:01
Local clock offset: -0.204 ms
Remote clock offset: 0.049 ms

```
# Below is generated by plot.py at 2018-05-31 05:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.624 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.378 ms
Loss rate: 0.63%
```

Run 10: Report of Sprout — Data Link

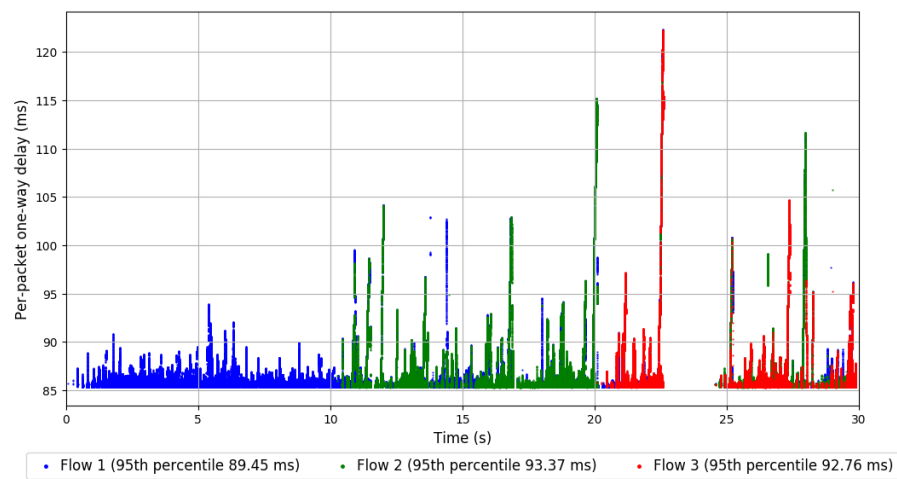
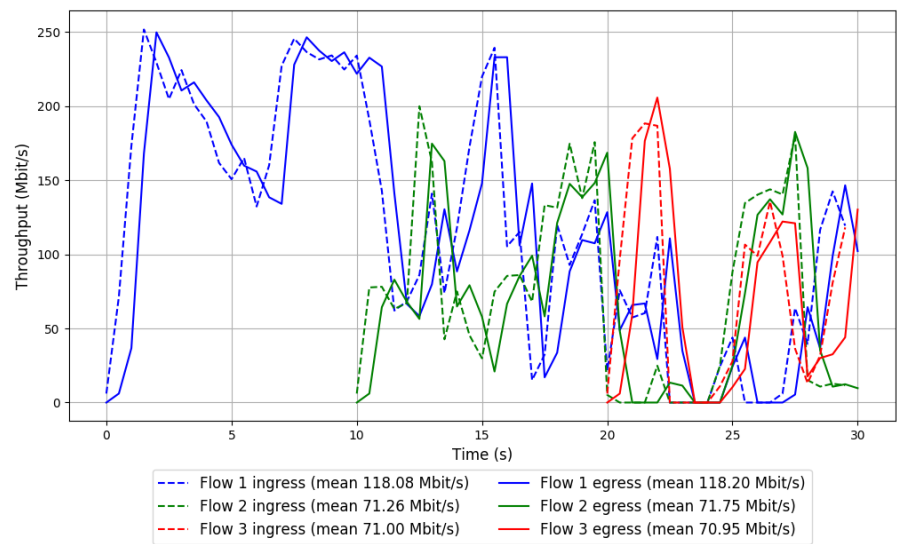


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 23:43:04
End at: 2018-05-30 23:43:34
Local clock offset: -0.653 ms
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2018-05-31 05:09:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.15 Mbit/s
95th percentile per-packet one-way delay: 90.763 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 118.20 Mbit/s
95th percentile per-packet one-way delay: 89.450 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 93.366 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 70.95 Mbit/s
95th percentile per-packet one-way delay: 92.757 ms
Loss rate: 1.81%
```

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

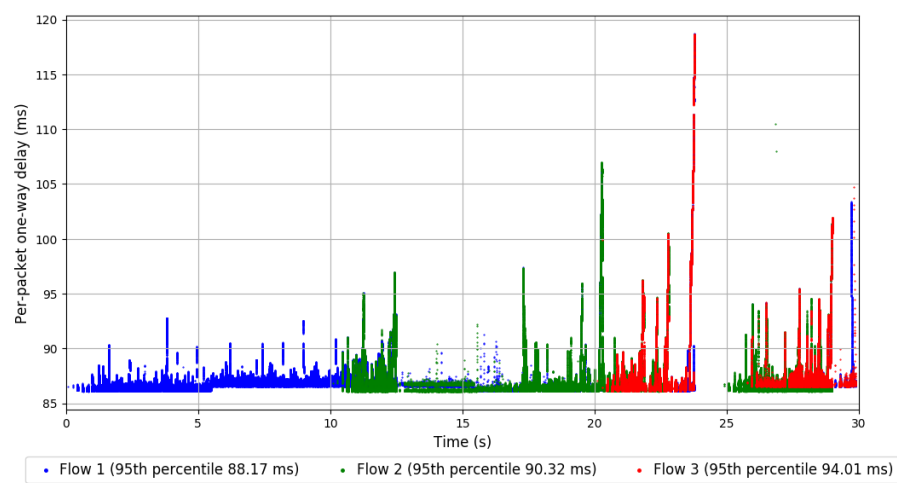
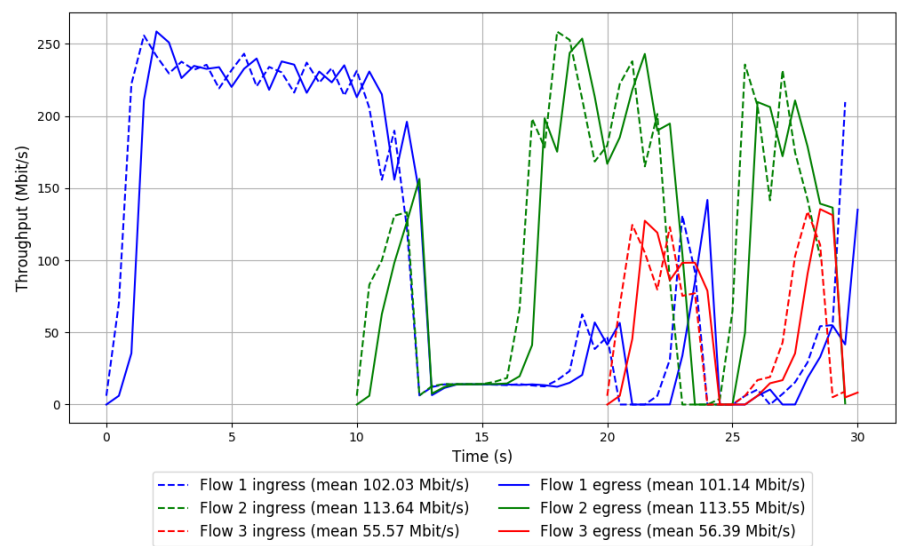


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-31 00:05:49
End at: 2018-05-31 00:06:19
Local clock offset: 0.094 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-05-31 05:10:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 191.67 Mbit/s
95th percentile per-packet one-way delay: 89.447 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 101.14 Mbit/s
95th percentile per-packet one-way delay: 88.170 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 113.55 Mbit/s
95th percentile per-packet one-way delay: 90.318 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 94.008 ms
Loss rate: 0.25%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-31 00:28:40

End at: 2018-05-31 00:29:10

Local clock offset: -0.084 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-05-31 05:10:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.16 Mbit/s

95th percentile per-packet one-way delay: 92.675 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 104.20 Mbit/s

95th percentile per-packet one-way delay: 92.246 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.80 Mbit/s

95th percentile per-packet one-way delay: 93.645 ms

Loss rate: 3.03%

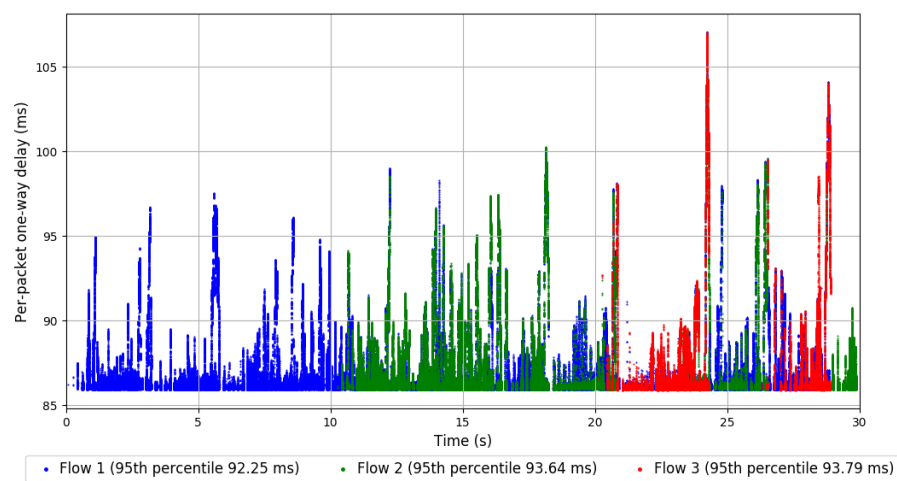
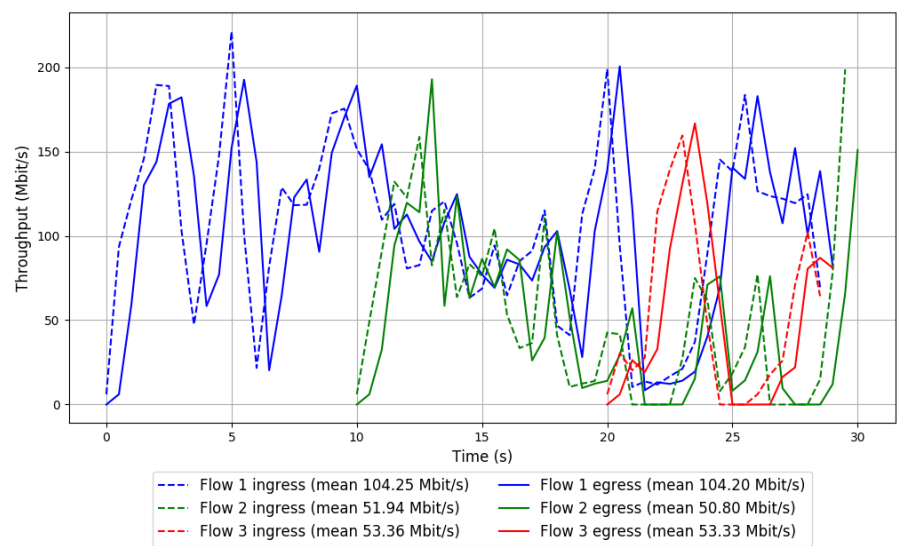
-- Flow 3:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 93.788 ms

Loss rate: 0.00%

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

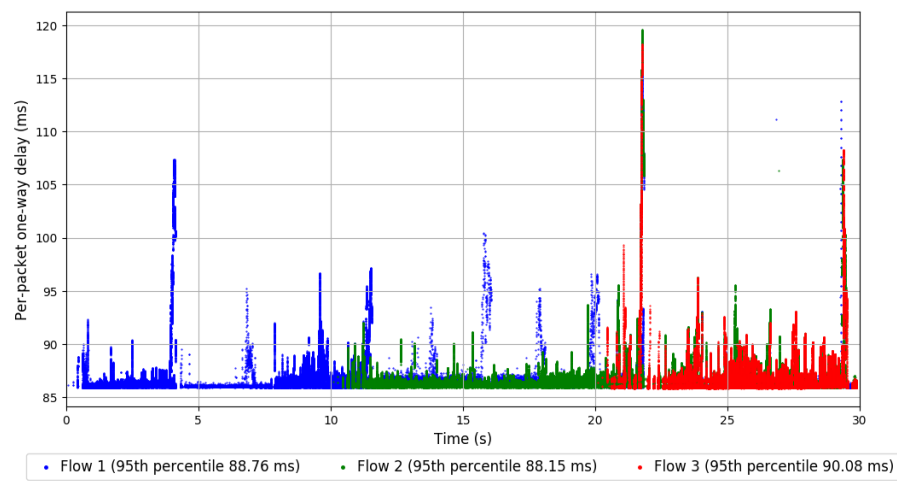
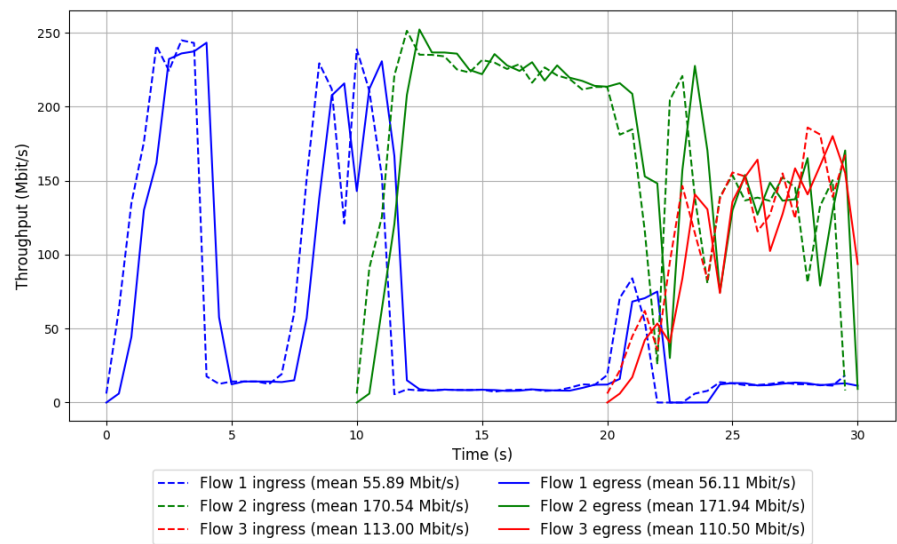


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-31 00:51:36
End at: 2018-05-31 00:52:06
Local clock offset: -0.049 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-31 05:11:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 206.47 Mbit/s
95th percentile per-packet one-way delay: 88.737 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 88.760 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 171.94 Mbit/s
95th percentile per-packet one-way delay: 88.154 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 110.50 Mbit/s
95th percentile per-packet one-way delay: 90.083 ms
Loss rate: 4.10%

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

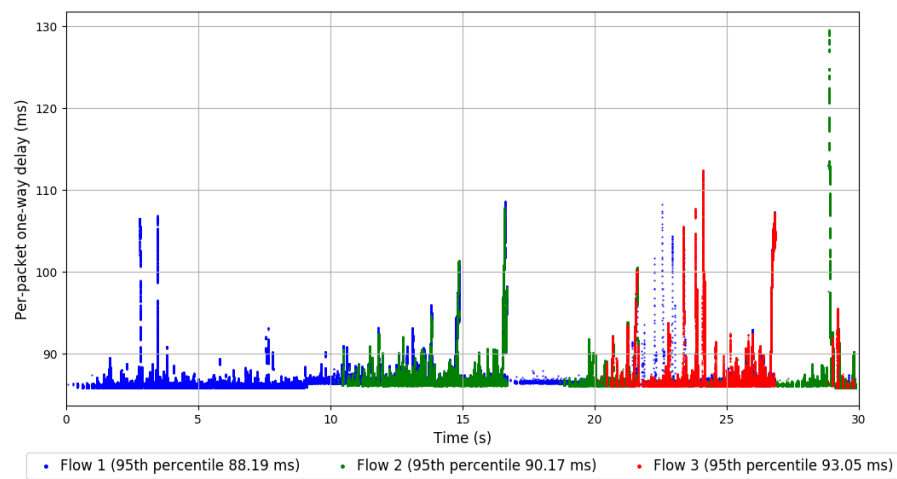
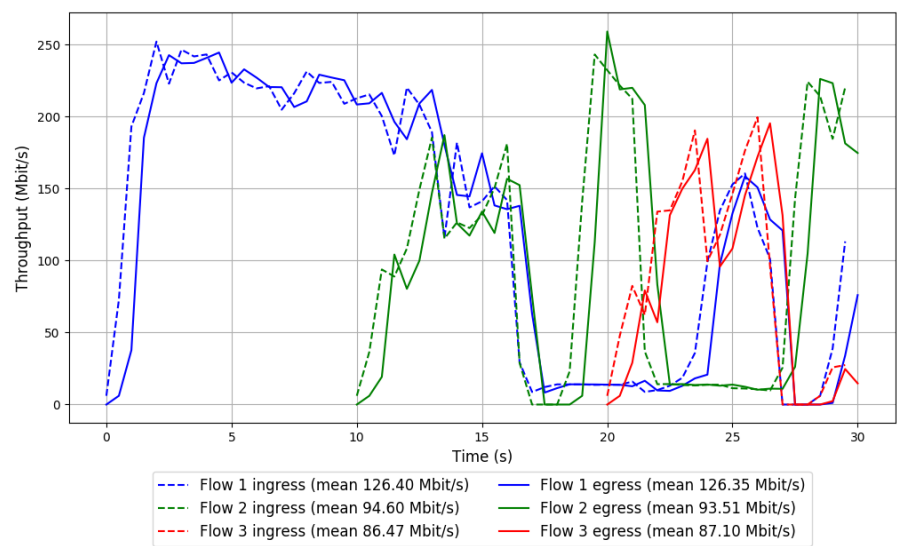


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-31 01:14:15
End at: 2018-05-31 01:14:45
Local clock offset: 0.023 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-31 05:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.74 Mbit/s
95th percentile per-packet one-way delay: 89.273 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 126.35 Mbit/s
95th percentile per-packet one-way delay: 88.192 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 90.168 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 93.047 ms
Loss rate: 1.03%

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

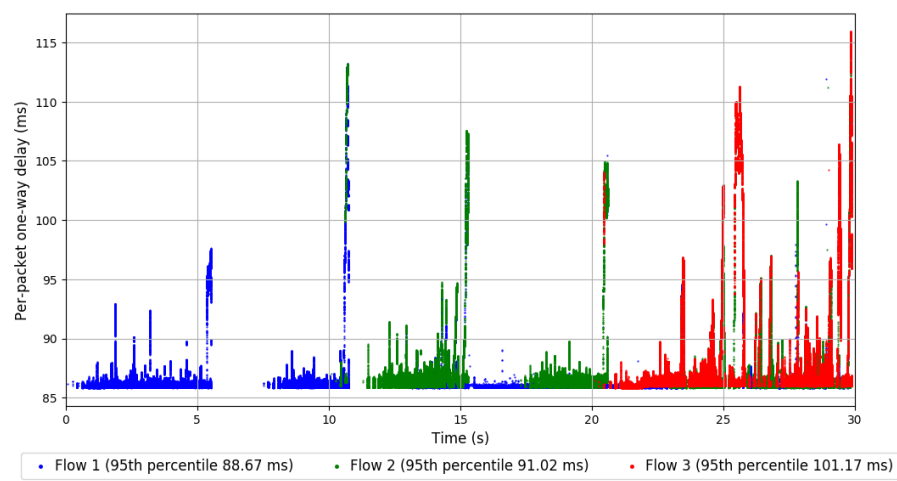
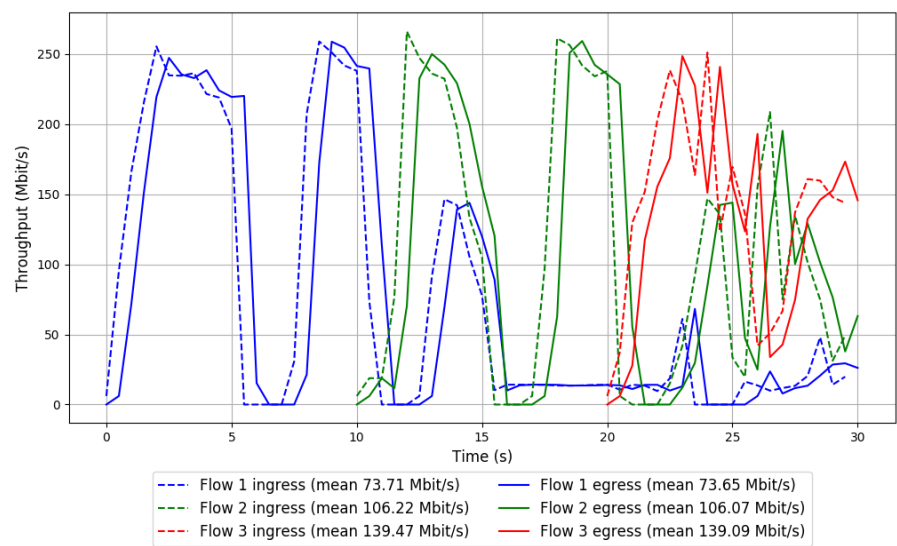


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-31 01:37:22
End at: 2018-05-31 01:37:52
Local clock offset: 0.118 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-05-31 05:11:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.50 Mbit/s
95th percentile per-packet one-way delay: 92.692 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 88.670 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 106.07 Mbit/s
95th percentile per-packet one-way delay: 91.021 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.09 Mbit/s
95th percentile per-packet one-way delay: 101.171 ms
Loss rate: 0.36%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-31 02:00:29

End at: 2018-05-31 02:00:59

Local clock offset: -0.426 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-05-31 05:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.09 Mbit/s

95th percentile per-packet one-way delay: 90.114 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 137.02 Mbit/s

95th percentile per-packet one-way delay: 88.297 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 91.537 ms

Loss rate: 1.02%

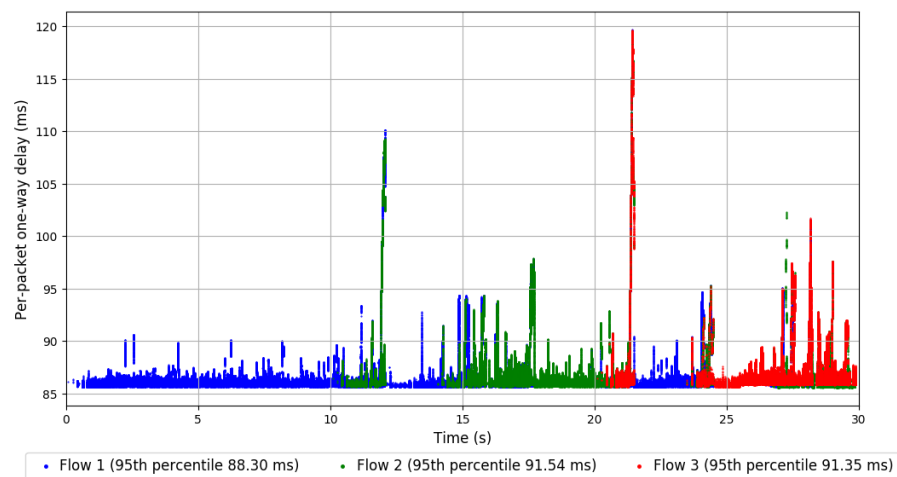
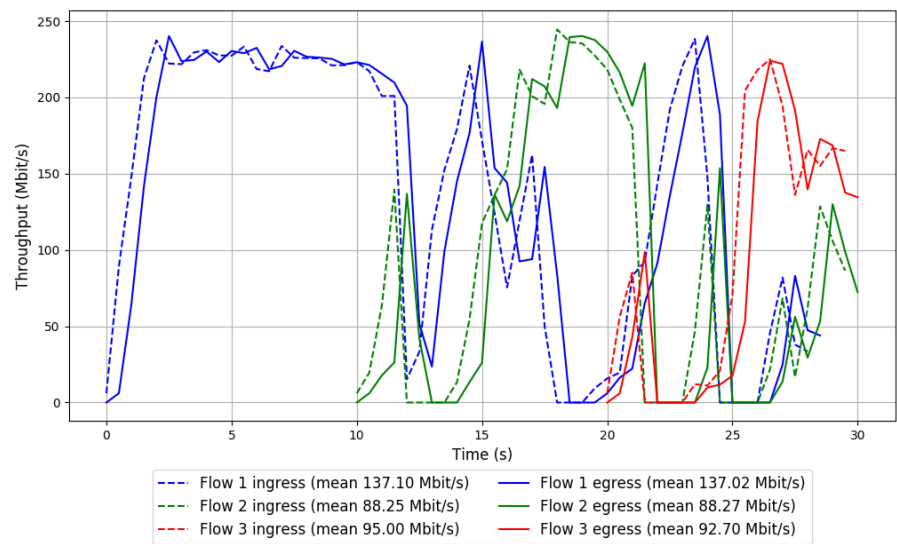
-- Flow 3:

Average throughput: 92.70 Mbit/s

95th percentile per-packet one-way delay: 91.349 ms

Loss rate: 4.12%

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

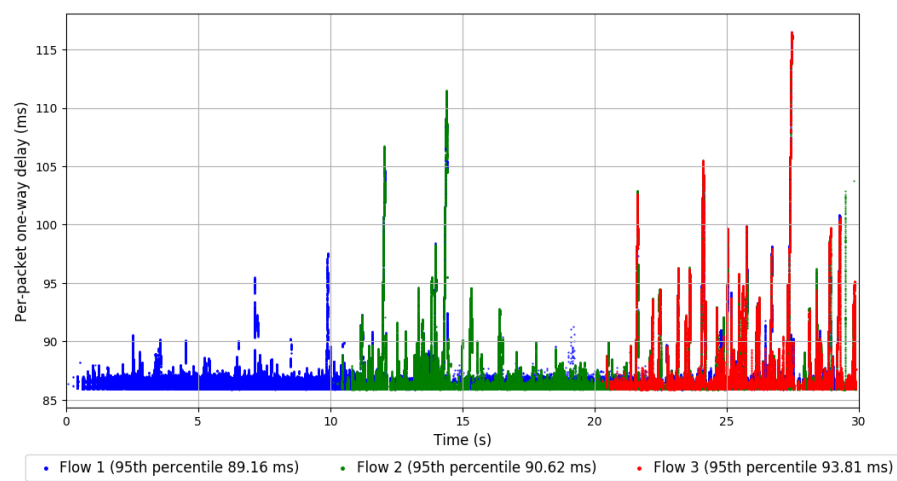
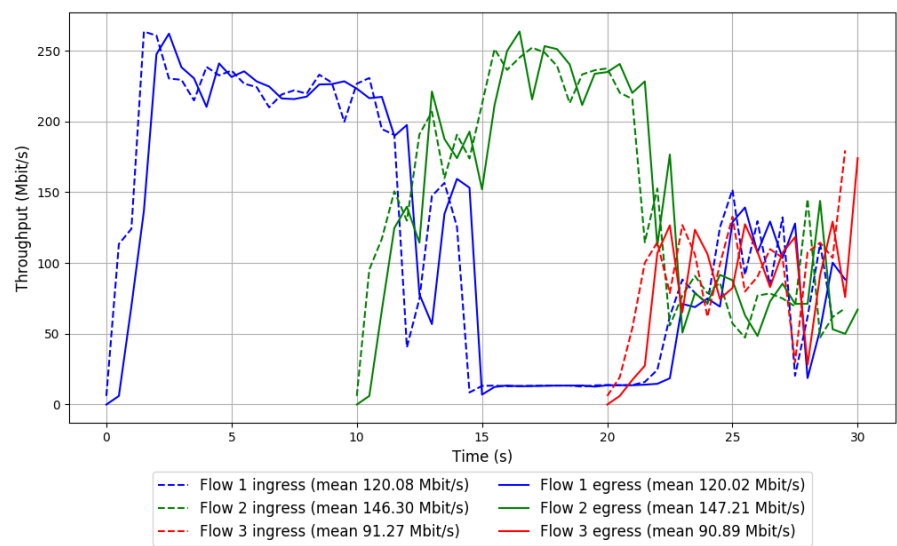


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-31 02:23:48
End at: 2018-05-31 02:24:18
Local clock offset: -0.169 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-05-31 05:14:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 90.650 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 120.02 Mbit/s
95th percentile per-packet one-way delay: 89.158 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.21 Mbit/s
95th percentile per-packet one-way delay: 90.616 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 93.808 ms
Loss rate: 2.14%

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

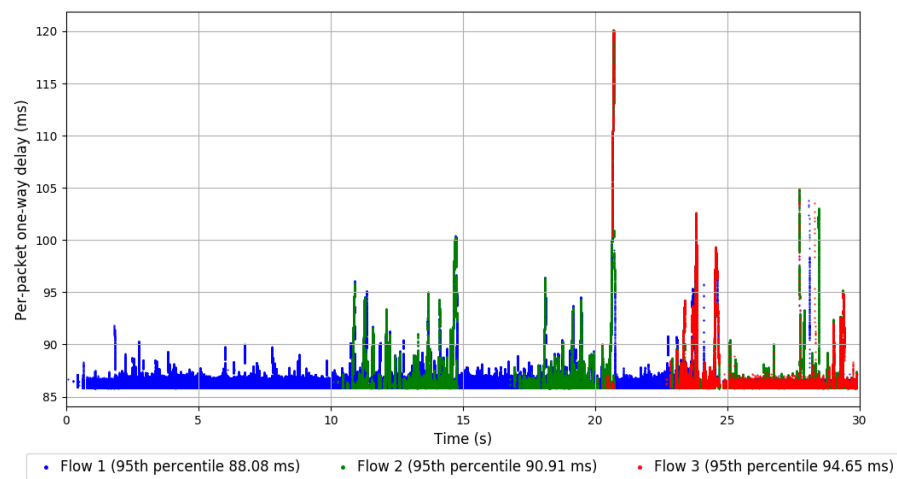
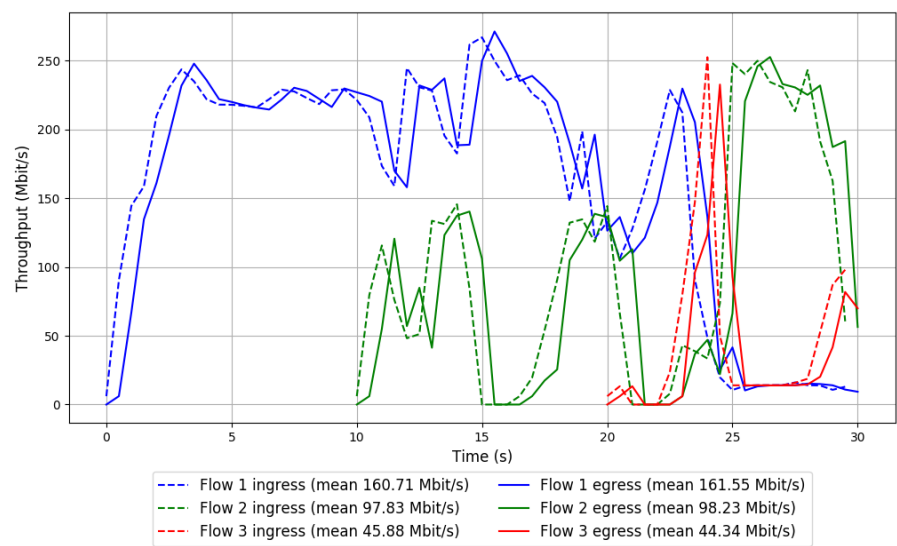


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-31 02:46:50
End at: 2018-05-31 02:47:20
Local clock offset: -0.319 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-31 05:17:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.35 Mbit/s
95th percentile per-packet one-way delay: 89.112 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 161.55 Mbit/s
95th percentile per-packet one-way delay: 88.079 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 98.23 Mbit/s
95th percentile per-packet one-way delay: 90.910 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 94.650 ms
Loss rate: 5.05%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-31 03:10:05

End at: 2018-05-31 03:10:35

Local clock offset: 0.161 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-05-31 05:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.19 Mbit/s

95th percentile per-packet one-way delay: 90.764 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 144.65 Mbit/s

95th percentile per-packet one-way delay: 89.517 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 94.469 ms

Loss rate: 0.13%

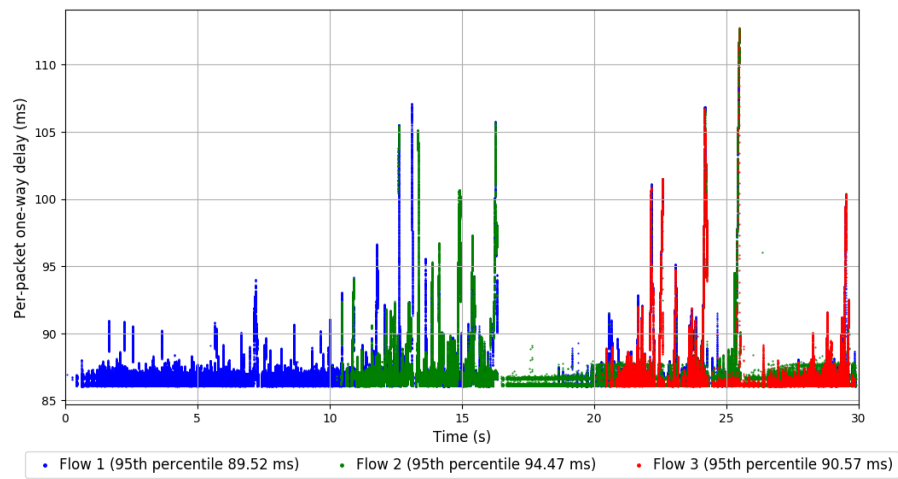
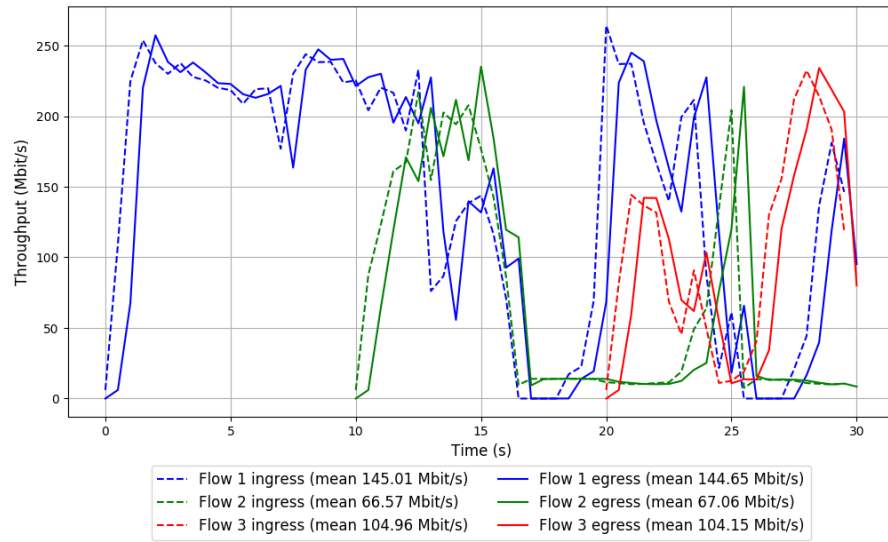
-- Flow 3:

Average throughput: 104.15 Mbit/s

95th percentile per-packet one-way delay: 90.574 ms

Loss rate: 2.94%

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

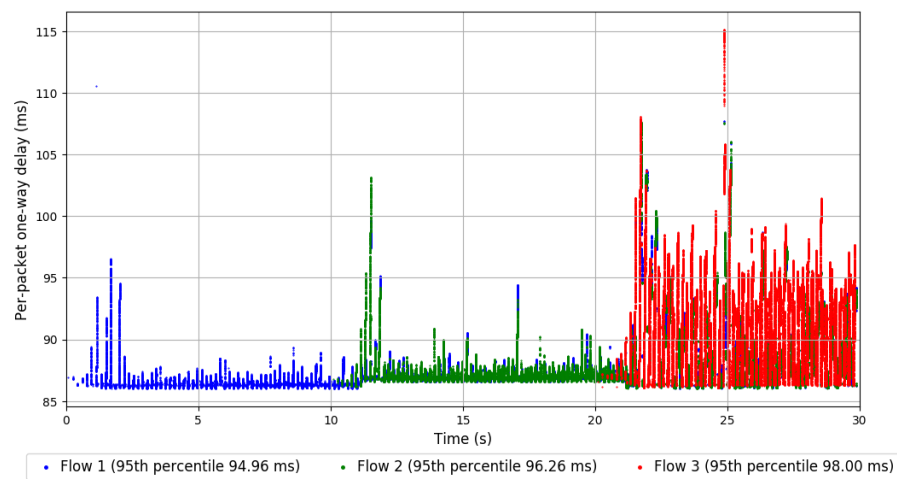
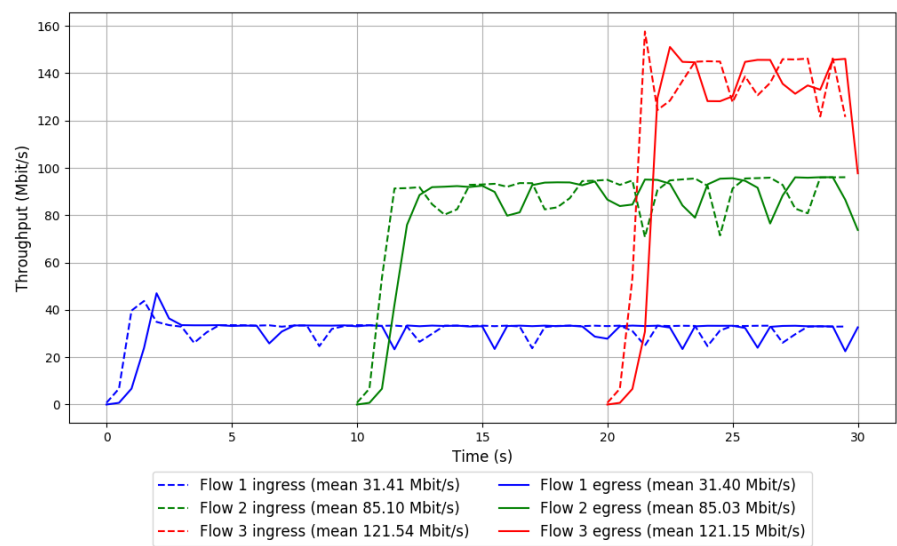


Run 1: Statistics of TCP Vegas

Start at: 2018-05-31 00:02:53
End at: 2018-05-31 00:03:23
Local clock offset: 0.024 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 127.40 Mbit/s
95th percentile per-packet one-way delay: 96.999 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 94.962 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 96.257 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 121.15 Mbit/s
95th percentile per-packet one-way delay: 98.001 ms
Loss rate: 2.01%

Run 1: Report of TCP Vegas — Data Link

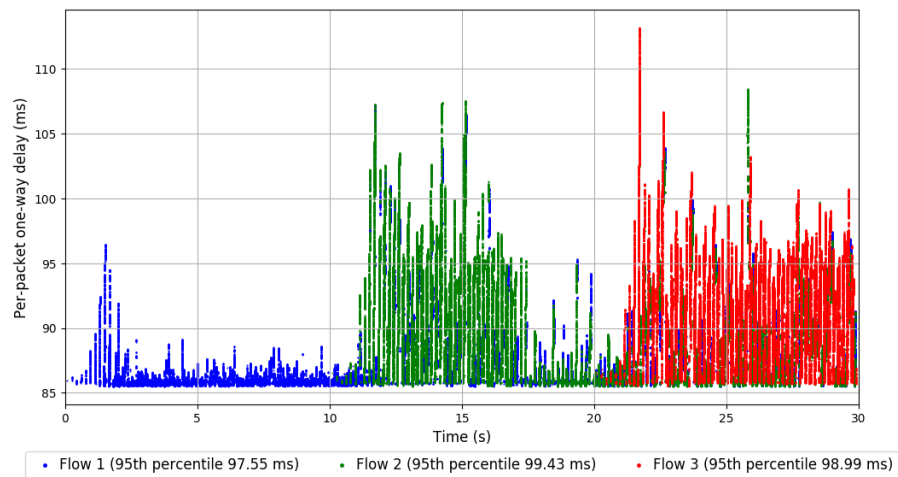
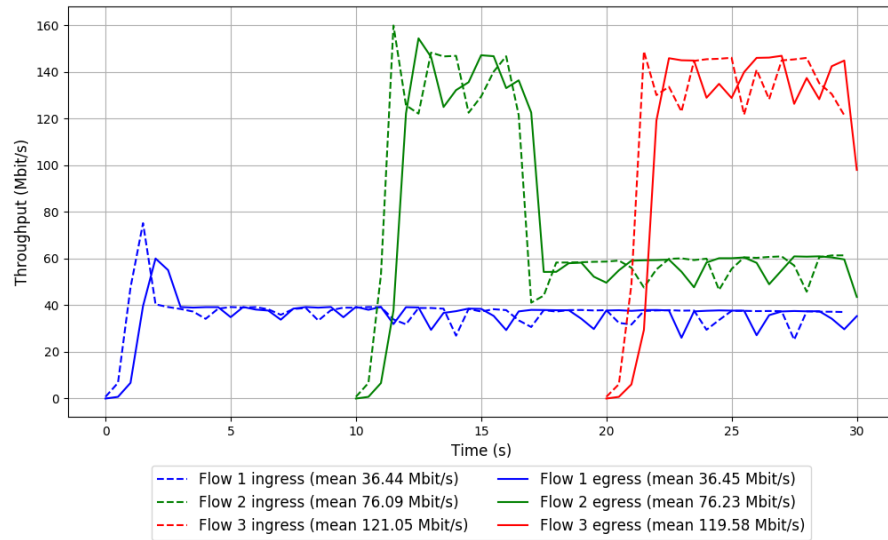


Run 2: Statistics of TCP Vegas

Start at: 2018-05-31 00:25:52
End at: 2018-05-31 00:26:22
Local clock offset: -0.465 ms
Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.30 Mbit/s
95th percentile per-packet one-way delay: 98.860 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 36.45 Mbit/s
95th percentile per-packet one-way delay: 97.550 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 76.23 Mbit/s
95th percentile per-packet one-way delay: 99.427 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 119.58 Mbit/s
95th percentile per-packet one-way delay: 98.990 ms
Loss rate: 1.98%

Run 2: Report of TCP Vegas — Data Link

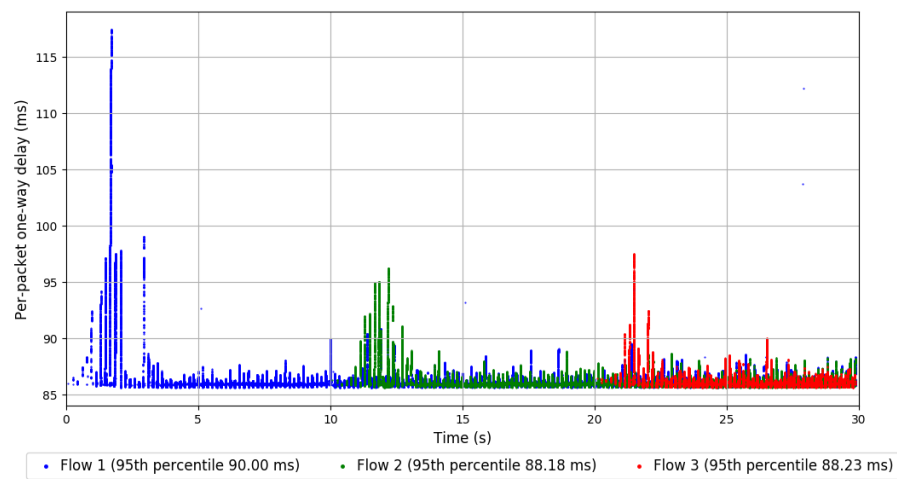
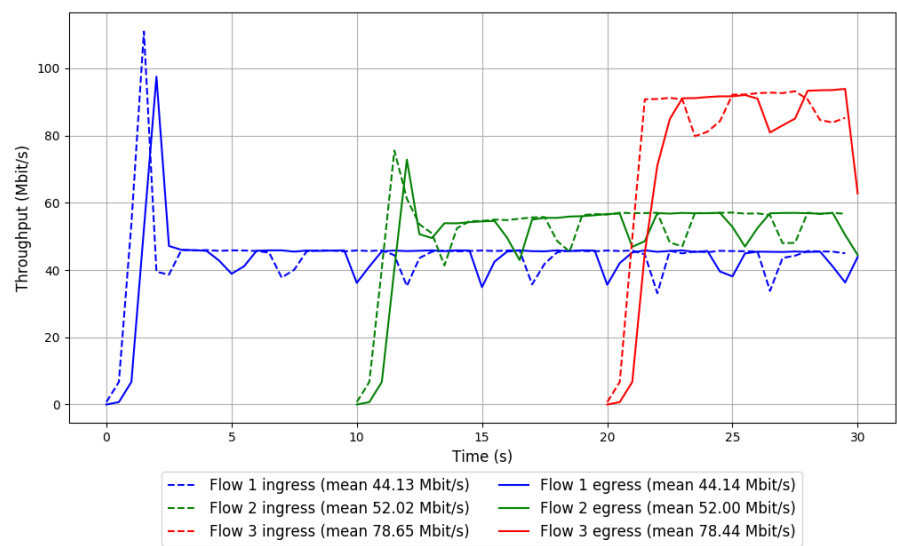


Run 3: Statistics of TCP Vegas

Start at: 2018-05-31 00:48:38
End at: 2018-05-31 00:49:09
Local clock offset: -0.301 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.42 Mbit/s
95th percentile per-packet one-way delay: 88.614 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 44.14 Mbit/s
95th percentile per-packet one-way delay: 90.003 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 52.00 Mbit/s
95th percentile per-packet one-way delay: 88.182 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 88.234 ms
Loss rate: 2.00%

Run 3: Report of TCP Vegas — Data Link

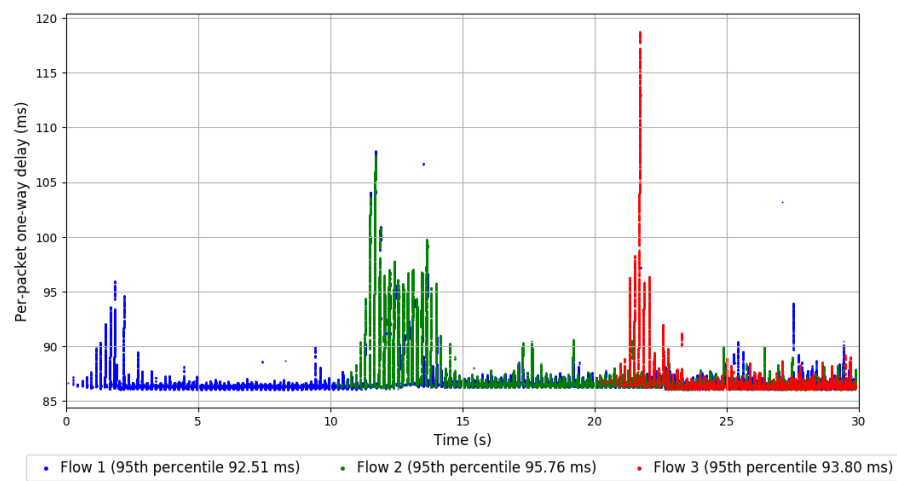
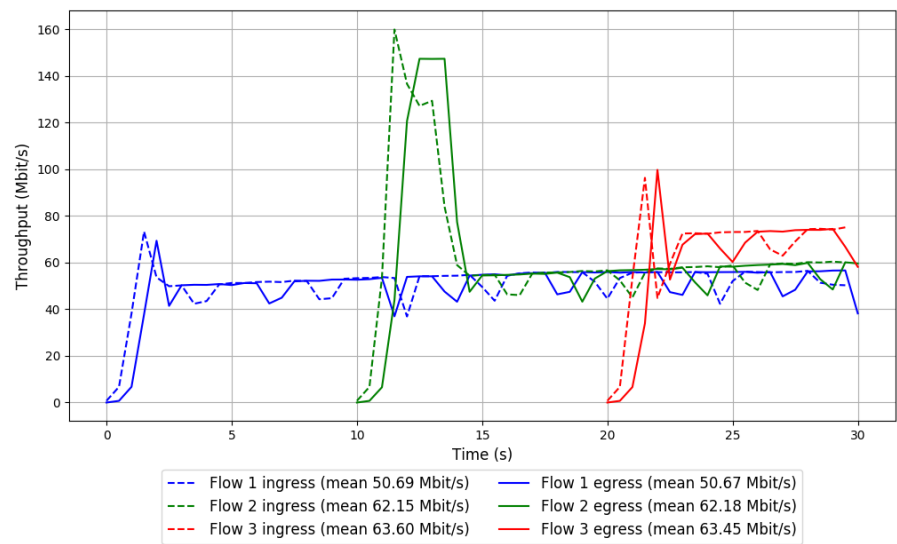


Run 4: Statistics of TCP Vegas

Start at: 2018-05-31 01:11:21
End at: 2018-05-31 01:11:51
Local clock offset: 0.165 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 112.80 Mbit/s
95th percentile per-packet one-way delay: 94.536 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 92.514 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 62.18 Mbit/s
95th percentile per-packet one-way delay: 95.762 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 63.45 Mbit/s
95th percentile per-packet one-way delay: 93.798 ms
Loss rate: 1.98%

Run 4: Report of TCP Vegas — Data Link

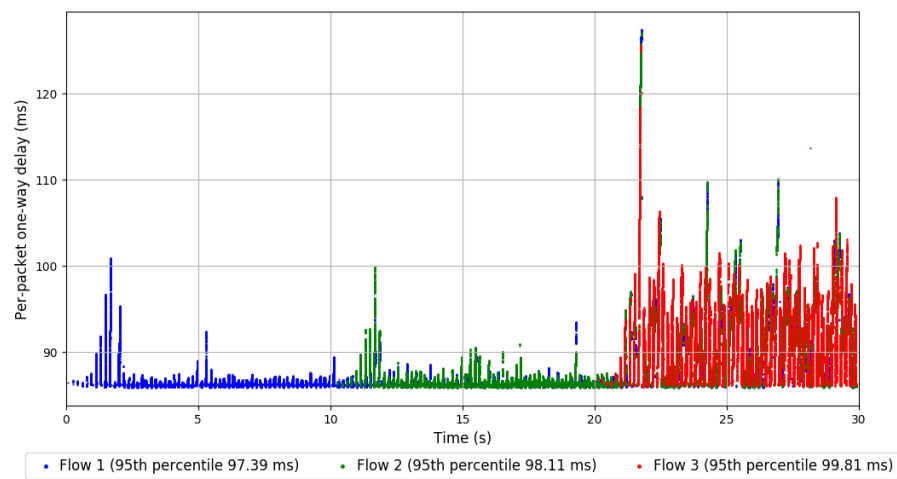
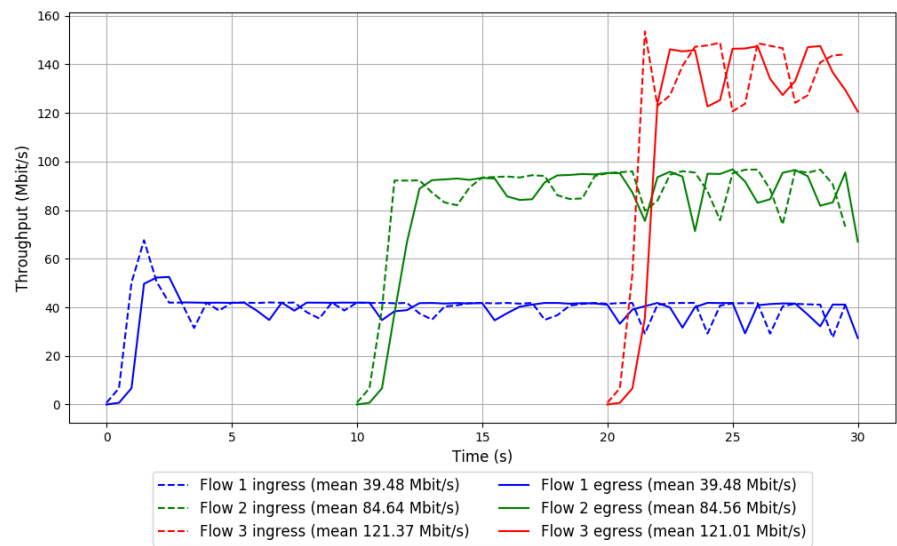


Run 5: Statistics of TCP Vegas

Start at: 2018-05-31 01:34:24
End at: 2018-05-31 01:34:54
Local clock offset: 0.05 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.30 Mbit/s
95th percentile per-packet one-way delay: 99.215 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 97.394 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 98.111 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 121.01 Mbit/s
95th percentile per-packet one-way delay: 99.808 ms
Loss rate: 1.95%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-31 01:57:31

End at: 2018-05-31 01:58:01

Local clock offset: -0.227 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-31 05:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.79 Mbit/s

95th percentile per-packet one-way delay: 96.586 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 93.308 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 95.894 ms

Loss rate: 0.94%

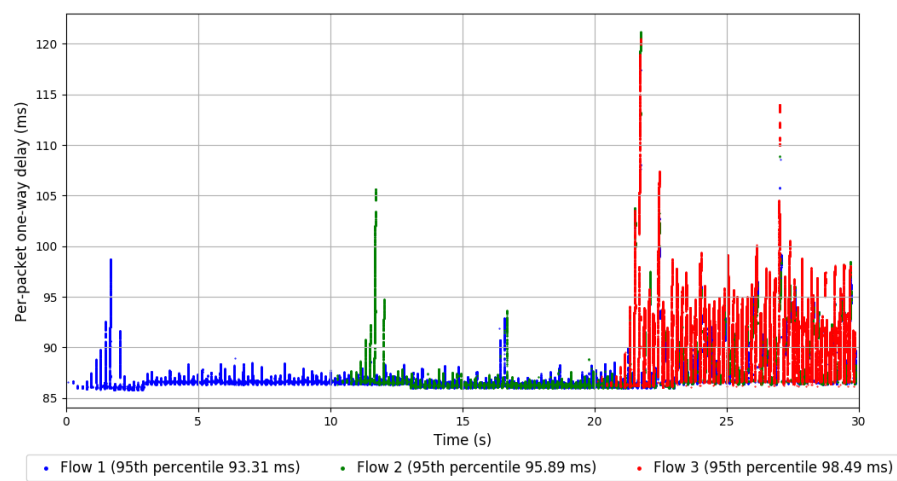
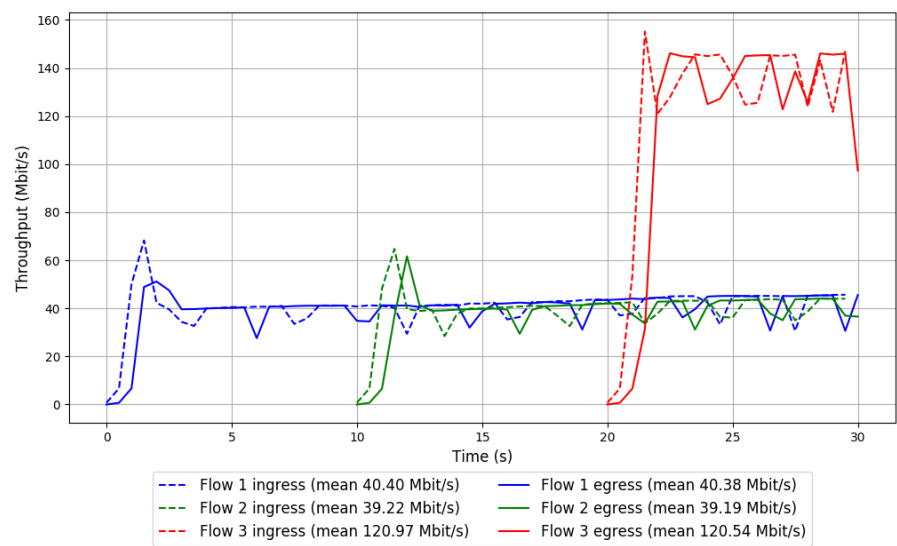
-- Flow 3:

Average throughput: 120.54 Mbit/s

95th percentile per-packet one-way delay: 98.492 ms

Loss rate: 2.08%

Run 6: Report of TCP Vegas — Data Link

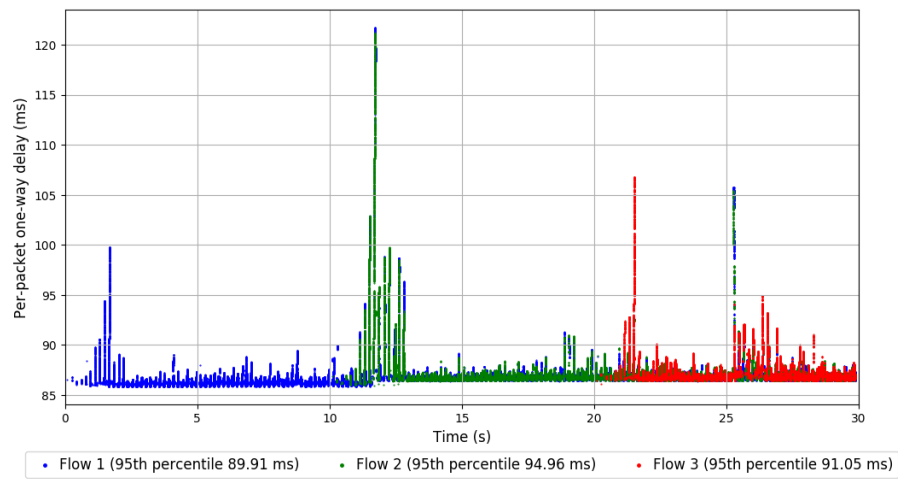
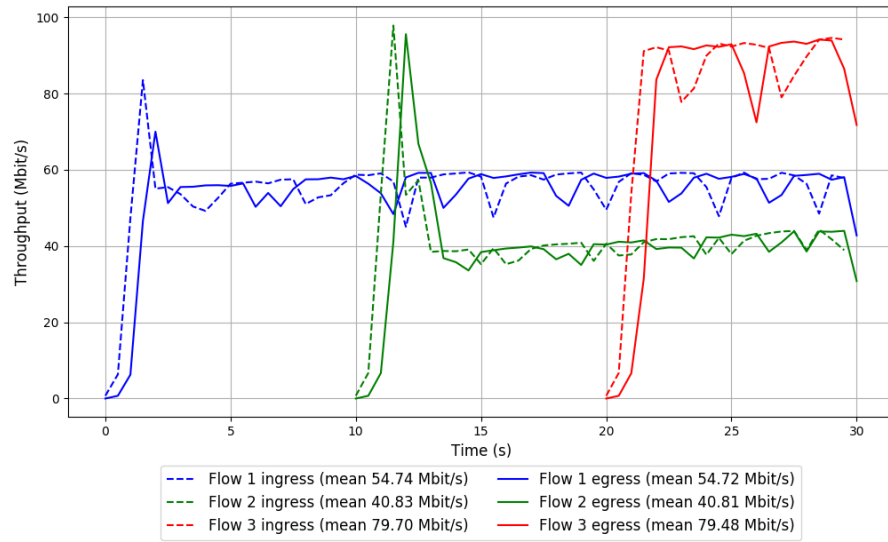


Run 7: Statistics of TCP Vegas

Start at: 2018-05-31 02:20:53
End at: 2018-05-31 02:21:23
Local clock offset: -0.244 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.88 Mbit/s
95th percentile per-packet one-way delay: 91.337 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 89.905 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 94.956 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 91.045 ms
Loss rate: 2.00%

Run 7: Report of TCP Vegas — Data Link

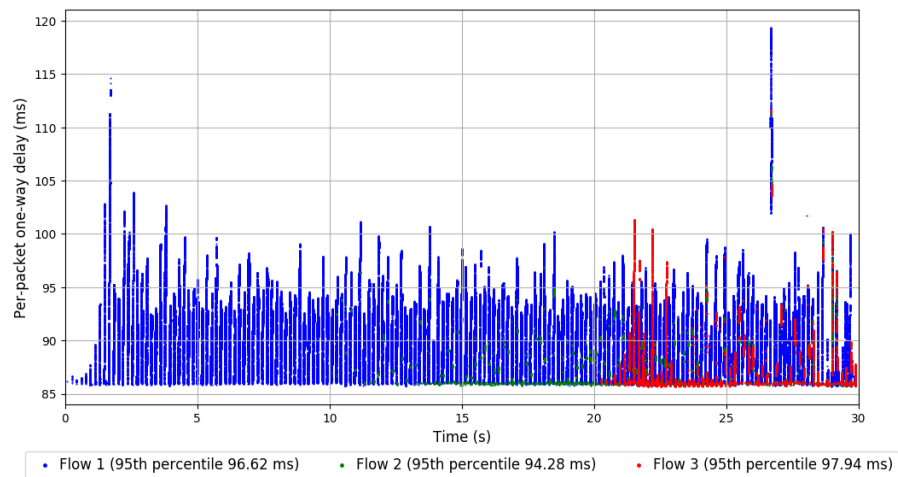
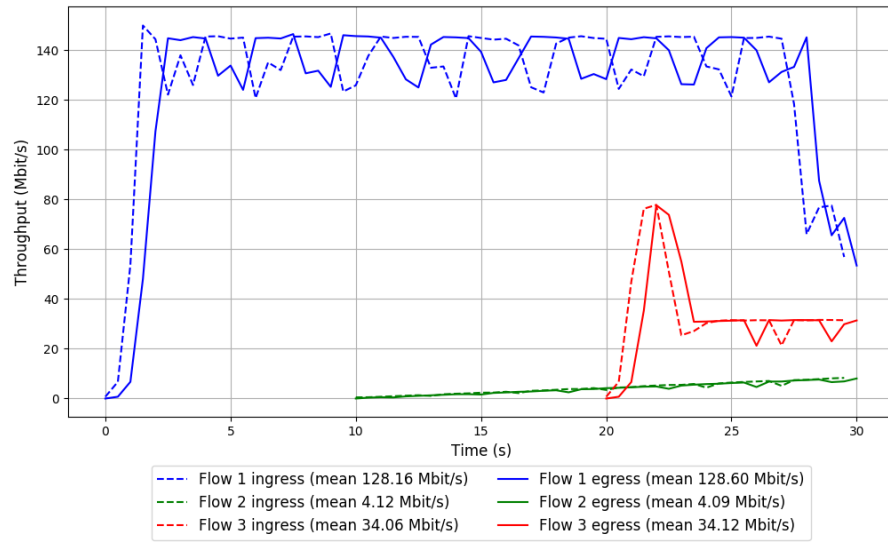


Run 8: Statistics of TCP Vegas

Start at: 2018-05-31 02:43:51
End at: 2018-05-31 02:44:21
Local clock offset: -0.387 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.29 Mbit/s
95th percentile per-packet one-way delay: 96.665 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 128.60 Mbit/s
95th percentile per-packet one-way delay: 96.622 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 94.284 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 97.938 ms
Loss rate: 1.55%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-31 03:07:09

End at: 2018-05-31 03:07:39

Local clock offset: -0.241 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-31 05:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 97.159 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 128.48 Mbit/s

95th percentile per-packet one-way delay: 97.192 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 94.928 ms

Loss rate: 1.74%

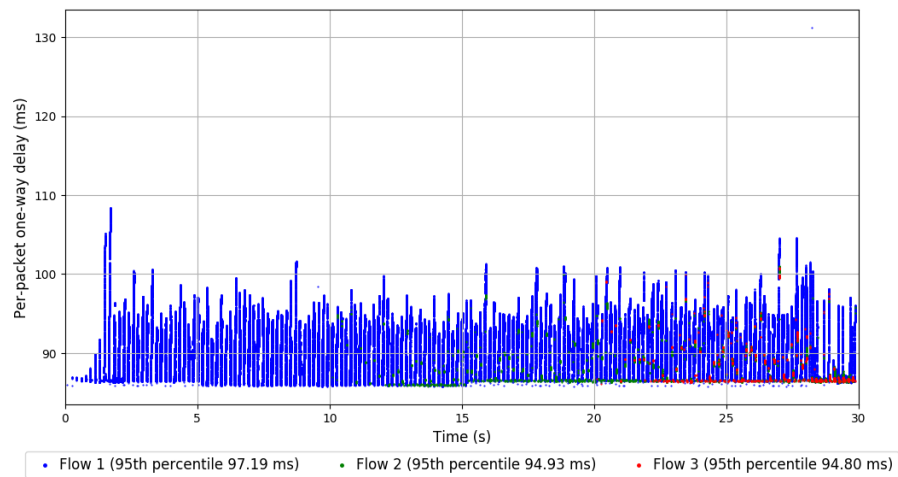
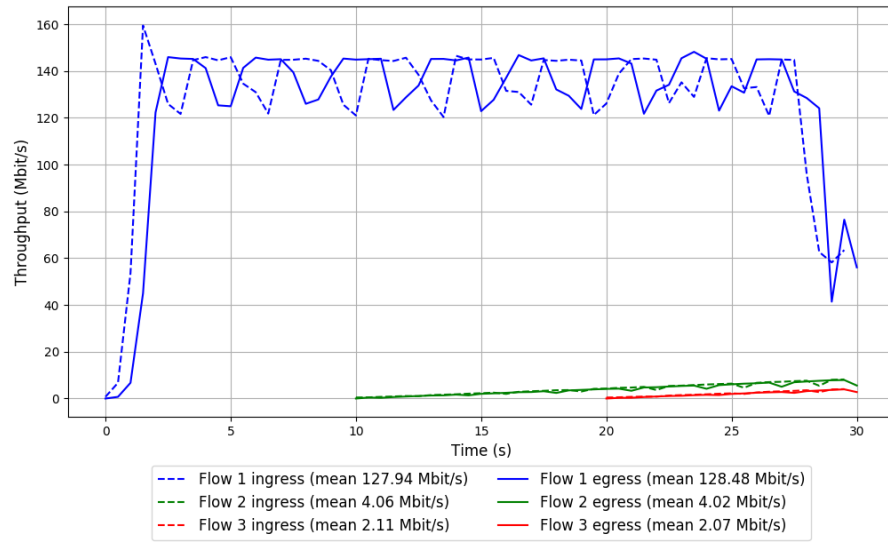
-- Flow 3:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 94.795 ms

Loss rate: 3.72%

Run 9: Report of TCP Vegas — Data Link

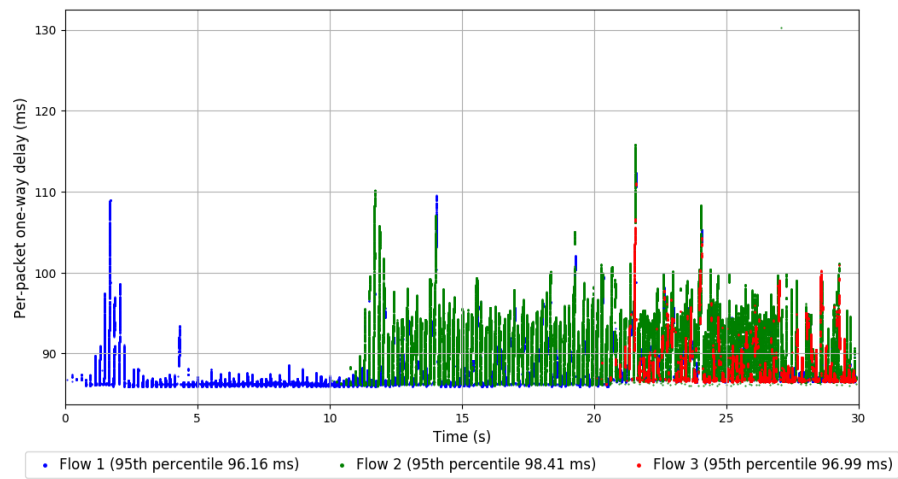
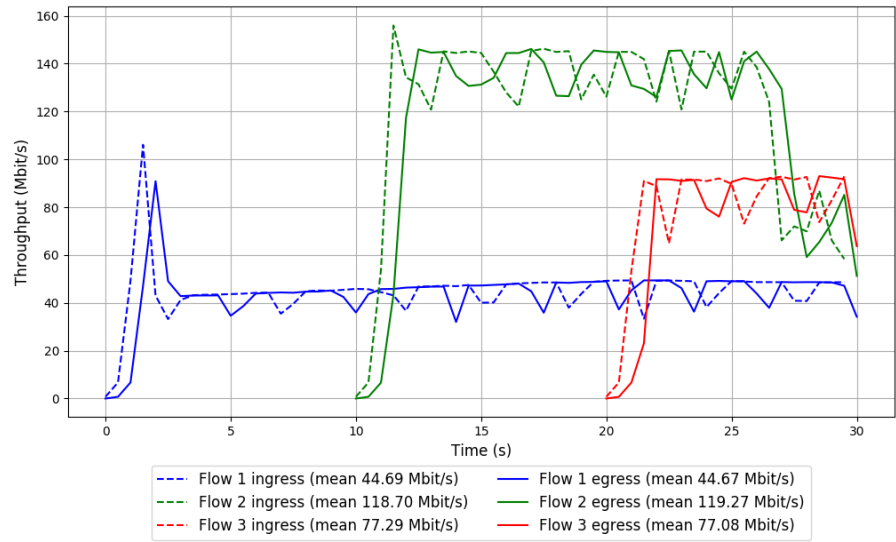


Run 10: Statistics of TCP Vegas

Start at: 2018-05-31 03:30:24
End at: 2018-05-31 03:30:54
Local clock offset: -0.038 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-05-31 05:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 149.12 Mbit/s
95th percentile per-packet one-way delay: 97.799 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 96.158 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 119.27 Mbit/s
95th percentile per-packet one-way delay: 98.413 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 96.992 ms
Loss rate: 2.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-30 23:49:58

End at: 2018-05-30 23:50:28

Local clock offset: -0.386 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-05-31 05:20:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.32 Mbit/s

95th percentile per-packet one-way delay: 236.193 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 166.13 Mbit/s

95th percentile per-packet one-way delay: 219.520 ms

Loss rate: 2.11%

-- Flow 2:

Average throughput: 110.10 Mbit/s

95th percentile per-packet one-way delay: 296.083 ms

Loss rate: 4.29%

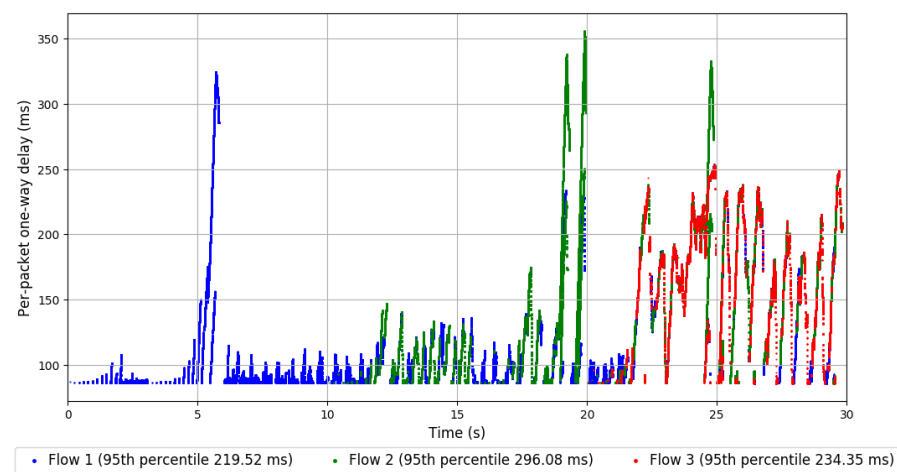
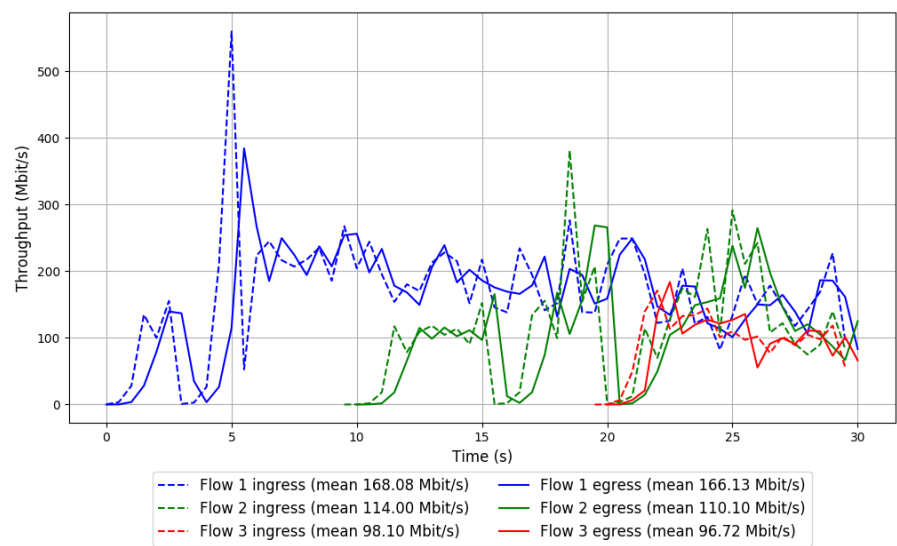
-- Flow 3:

Average throughput: 96.72 Mbit/s

95th percentile per-packet one-way delay: 234.347 ms

Loss rate: 3.16%

Run 1: Report of Verus — Data Link

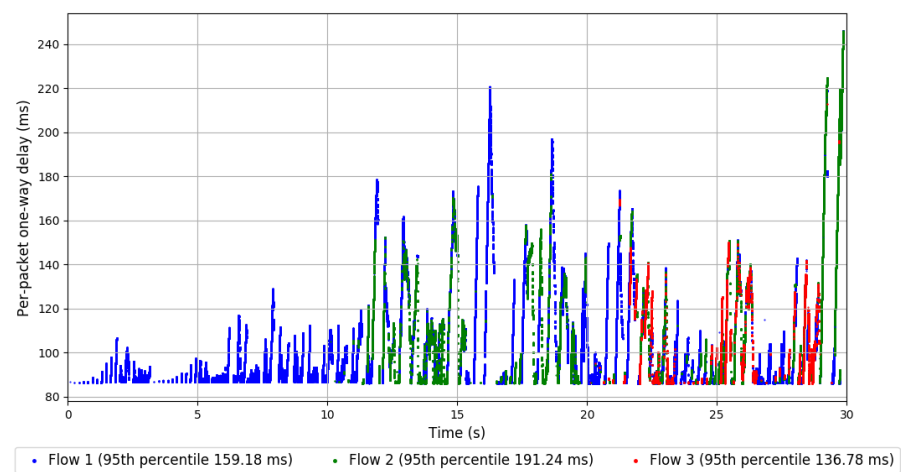
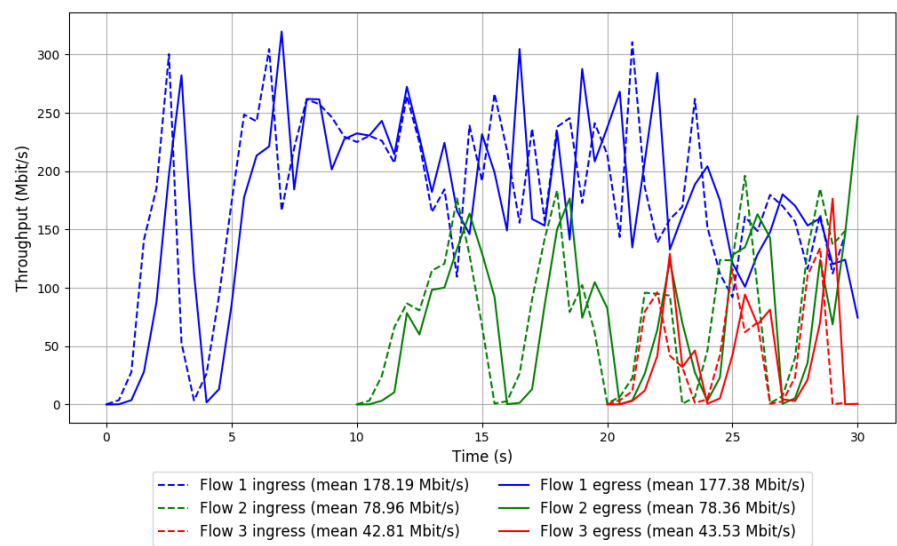


Run 2: Statistics of Verus

Start at: 2018-05-31 00:12:43
End at: 2018-05-31 00:13:13
Local clock offset: -0.044 ms
Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-31 05:20:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.37 Mbit/s
95th percentile per-packet one-way delay: 163.726 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 177.38 Mbit/s
95th percentile per-packet one-way delay: 159.183 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 191.235 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.11%

Run 2: Report of Verus — Data Link

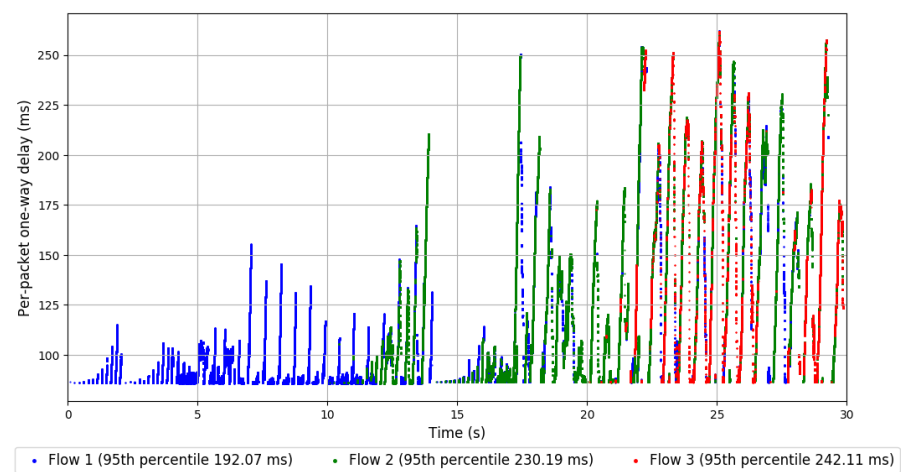
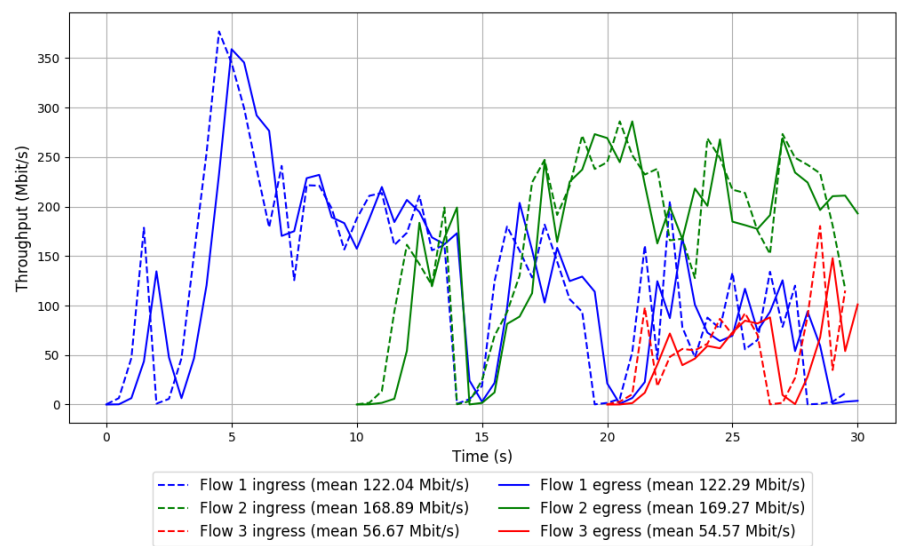


Run 3: Statistics of Verus

Start at: 2018-05-31 00:35:30
End at: 2018-05-31 00:36:00
Local clock offset: -0.186 ms
Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-31 05:20:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.91 Mbit/s
95th percentile per-packet one-way delay: 220.443 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 122.29 Mbit/s
95th percentile per-packet one-way delay: 192.069 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 169.27 Mbit/s
95th percentile per-packet one-way delay: 230.189 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 242.114 ms
Loss rate: 4.86%

Run 3: Report of Verus — Data Link

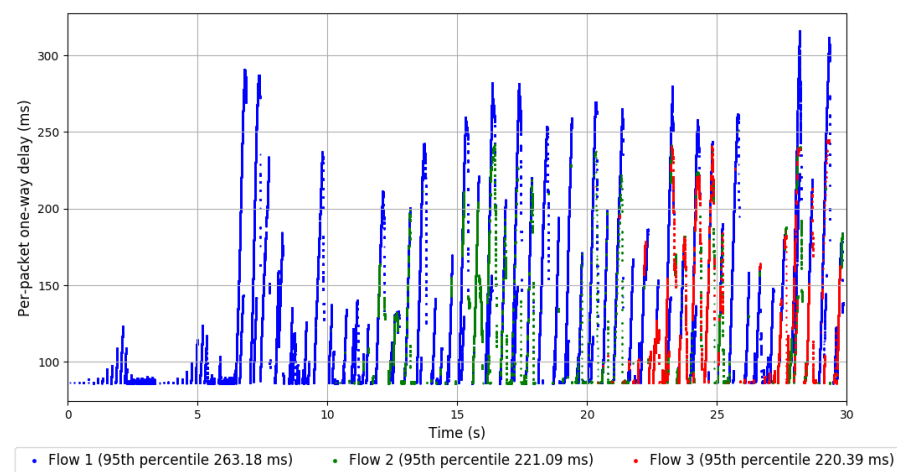
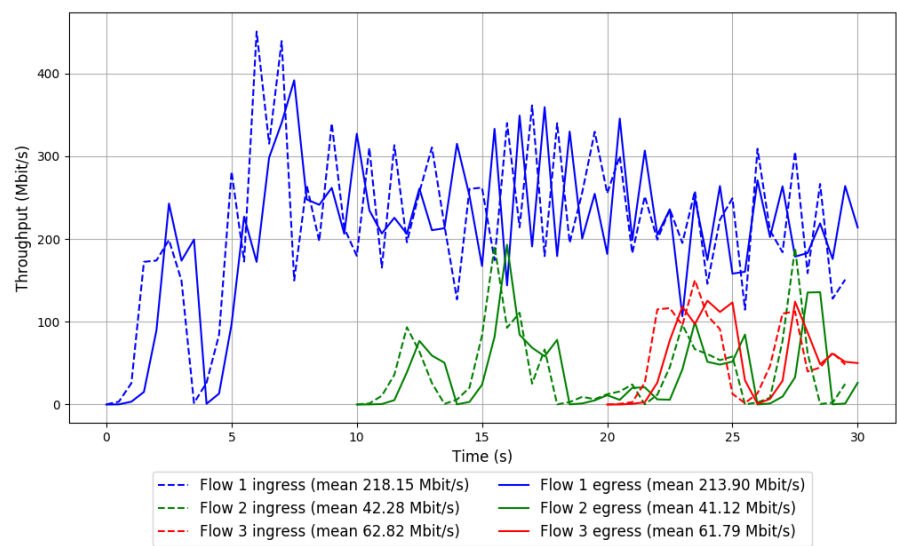


Run 4: Statistics of Verus

Start at: 2018-05-31 00:58:35
End at: 2018-05-31 00:59:05
Local clock offset: -0.081 ms
Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-31 05:21:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.79 Mbit/s
95th percentile per-packet one-way delay: 259.121 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 213.90 Mbit/s
95th percentile per-packet one-way delay: 263.180 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 221.092 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 61.79 Mbit/s
95th percentile per-packet one-way delay: 220.388 ms
Loss rate: 2.17%

Run 4: Report of Verus — Data Link

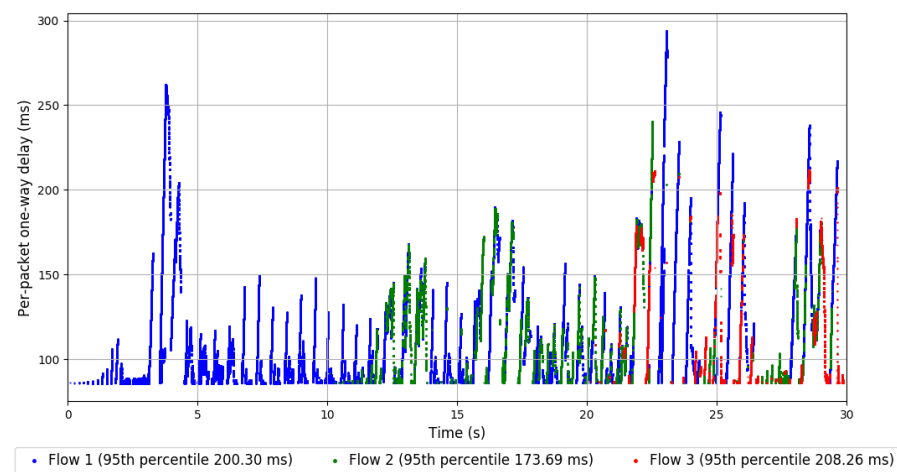
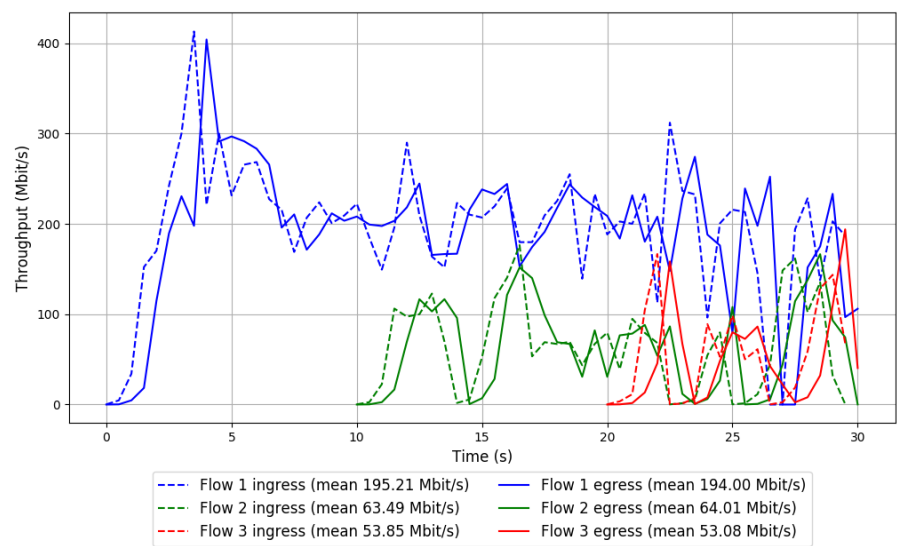


Run 5: Statistics of Verus

Start at: 2018-05-31 01:21:16
End at: 2018-05-31 01:21:46
Local clock offset: -0.086 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-31 05:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.28 Mbit/s
95th percentile per-packet one-way delay: 198.318 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 194.00 Mbit/s
95th percentile per-packet one-way delay: 200.302 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 64.01 Mbit/s
95th percentile per-packet one-way delay: 173.686 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 208.257 ms
Loss rate: 3.15%

Run 5: Report of Verus — Data Link

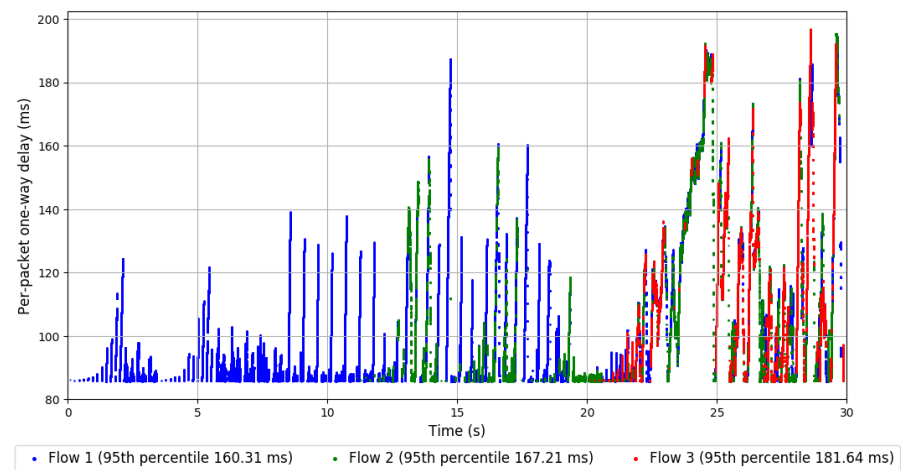
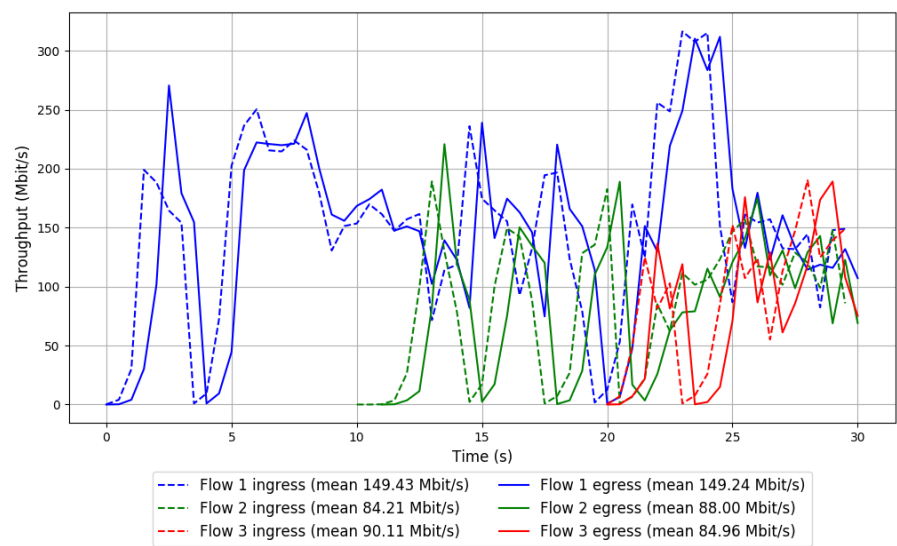


Run 6: Statistics of Verus

Start at: 2018-05-31 01:44:19
End at: 2018-05-31 01:44:49
Local clock offset: -0.217 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-31 05:22:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.45 Mbit/s
95th percentile per-packet one-way delay: 167.101 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 149.24 Mbit/s
95th percentile per-packet one-way delay: 160.312 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 167.206 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 181.636 ms
Loss rate: 7.36%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-31 02:07:29

End at: 2018-05-31 02:07:59

Local clock offset: -0.12 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-05-31 05:22:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.14 Mbit/s

95th percentile per-packet one-way delay: 263.088 ms

Loss rate: 4.22%

-- Flow 1:

Average throughput: 187.20 Mbit/s

95th percentile per-packet one-way delay: 230.404 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 120.12 Mbit/s

95th percentile per-packet one-way delay: 317.691 ms

Loss rate: 7.18%

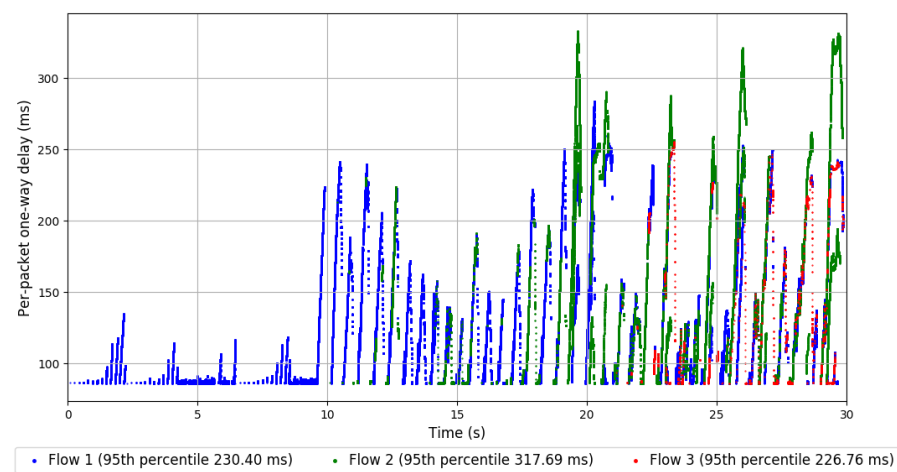
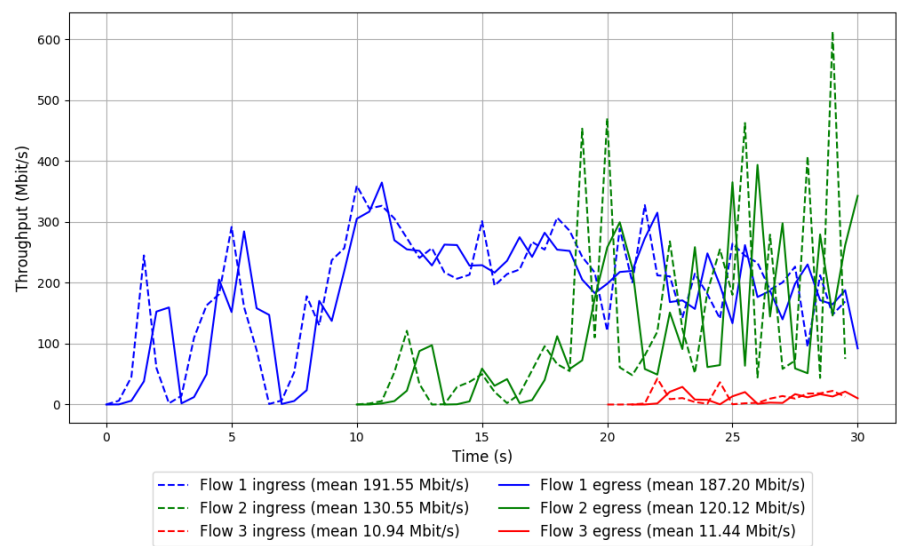
-- Flow 3:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 226.759 ms

Loss rate: 7.69%

Run 7: Report of Verus — Data Link

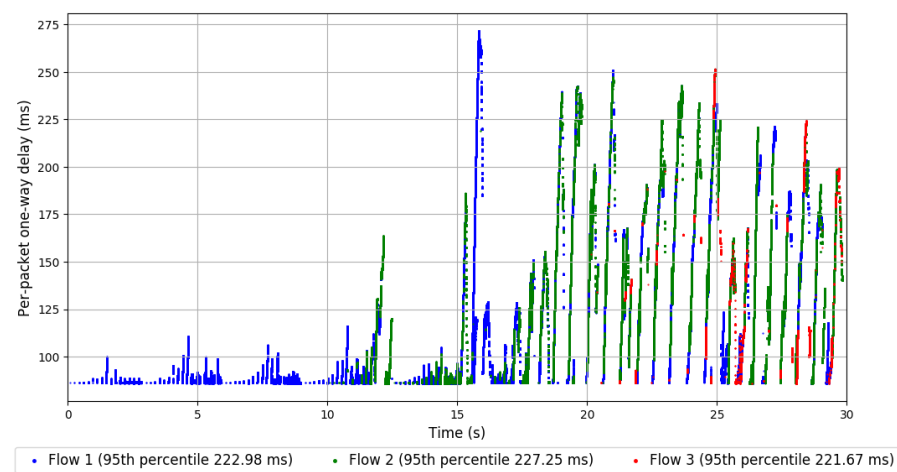
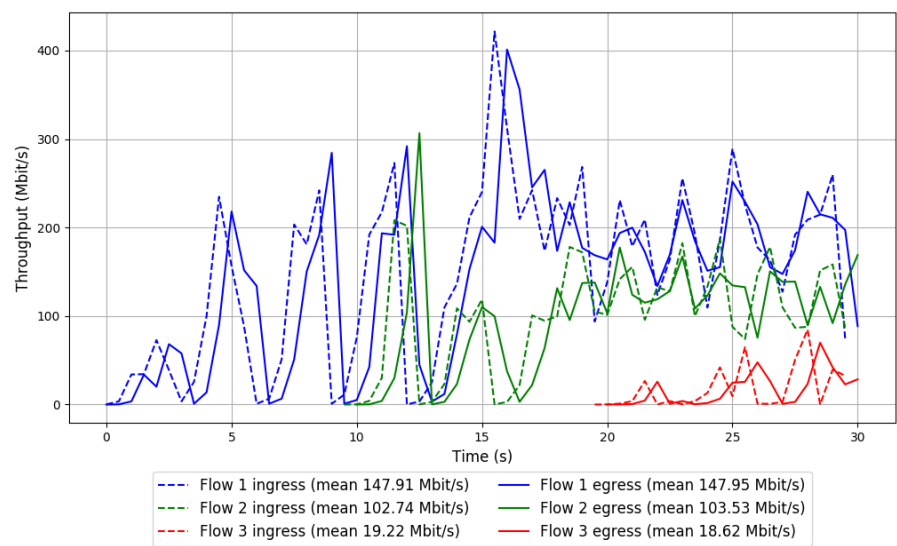


Run 8: Statistics of Verus

Start at: 2018-05-31 02:30:49
End at: 2018-05-31 02:31:19
Local clock offset: -0.101 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-31 05:22:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 222.19 Mbit/s
95th percentile per-packet one-way delay: 224.601 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 147.95 Mbit/s
95th percentile per-packet one-way delay: 222.982 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 103.53 Mbit/s
95th percentile per-packet one-way delay: 227.248 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 221.669 ms
Loss rate: 5.81%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-31 02:53:53

End at: 2018-05-31 02:54:23

Local clock offset: -0.006 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-05-31 05:24:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.07 Mbit/s

95th percentile per-packet one-way delay: 202.162 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 145.40 Mbit/s

95th percentile per-packet one-way delay: 149.675 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 128.51 Mbit/s

95th percentile per-packet one-way delay: 223.572 ms

Loss rate: 2.51%

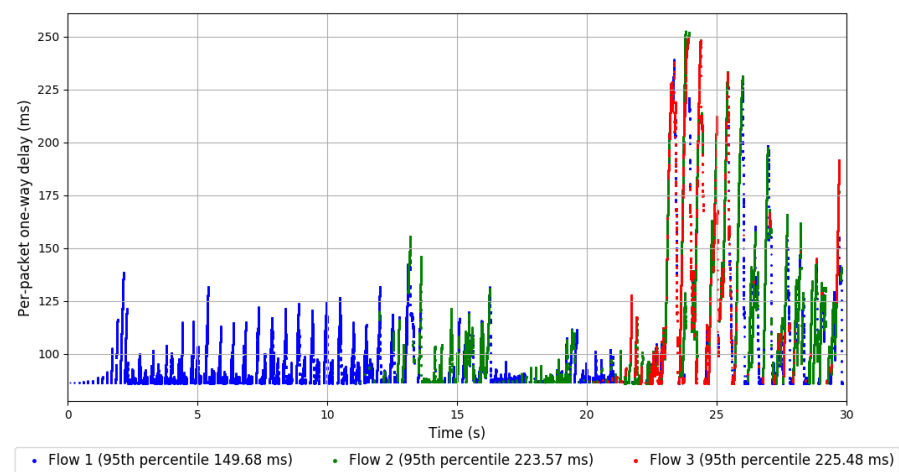
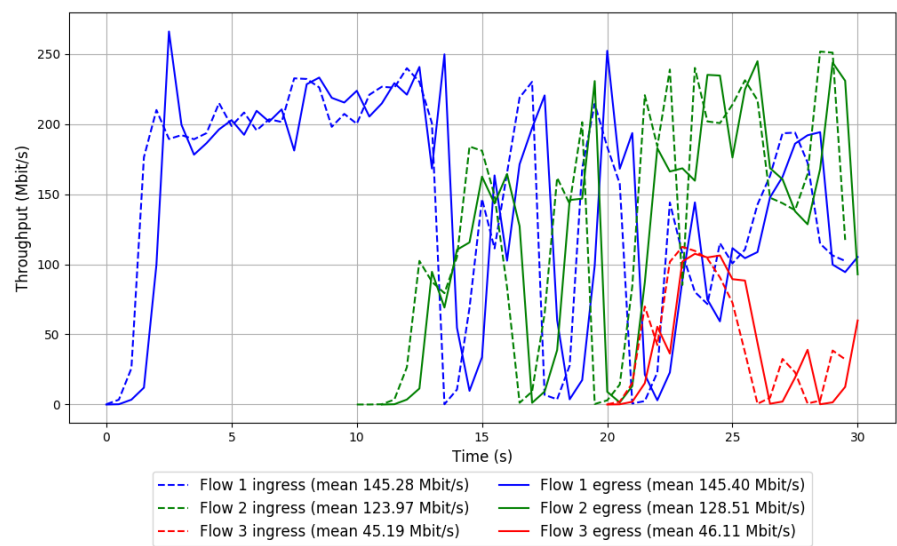
-- Flow 3:

Average throughput: 46.11 Mbit/s

95th percentile per-packet one-way delay: 225.483 ms

Loss rate: 0.72%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-31 03:17:04

End at: 2018-05-31 03:17:34

Local clock offset: -0.077 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-05-31 05:26:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.27 Mbit/s

95th percentile per-packet one-way delay: 261.505 ms

Loss rate: 7.49%

-- Flow 1:

Average throughput: 232.33 Mbit/s

95th percentile per-packet one-way delay: 254.220 ms

Loss rate: 5.76%

-- Flow 2:

Average throughput: 154.75 Mbit/s

95th percentile per-packet one-way delay: 280.241 ms

Loss rate: 11.14%

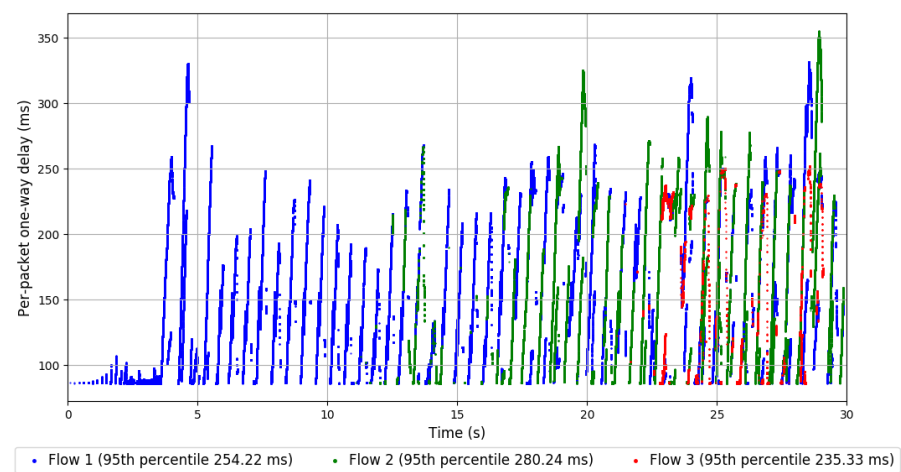
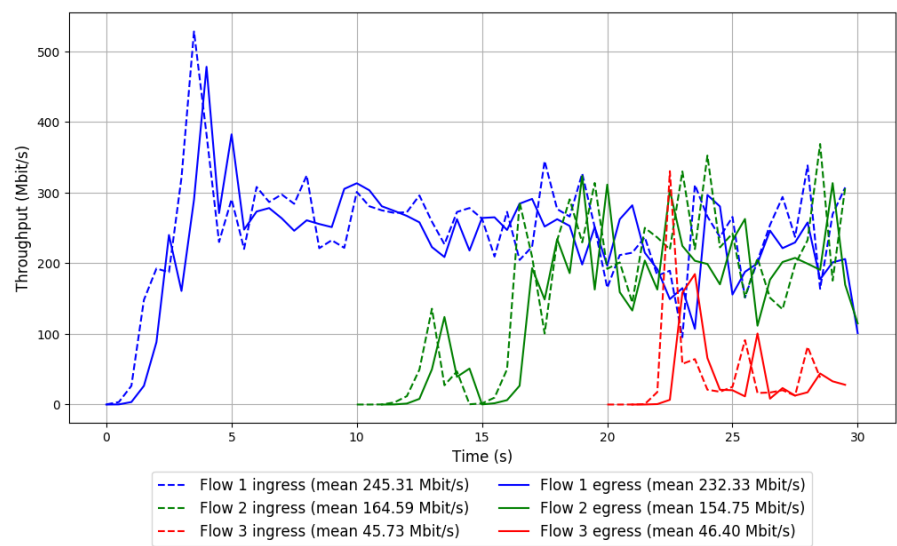
-- Flow 3:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 235.332 ms

Loss rate: 9.37%

Run 10: Report of Verus — Data Link

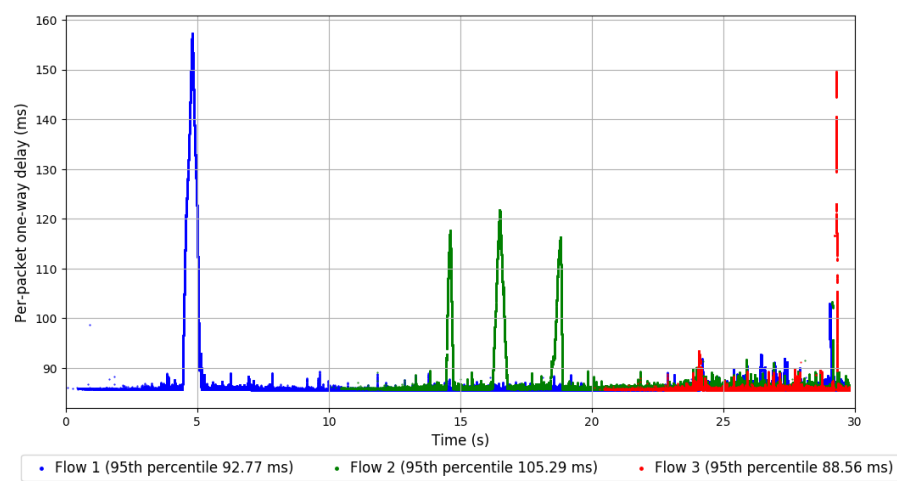
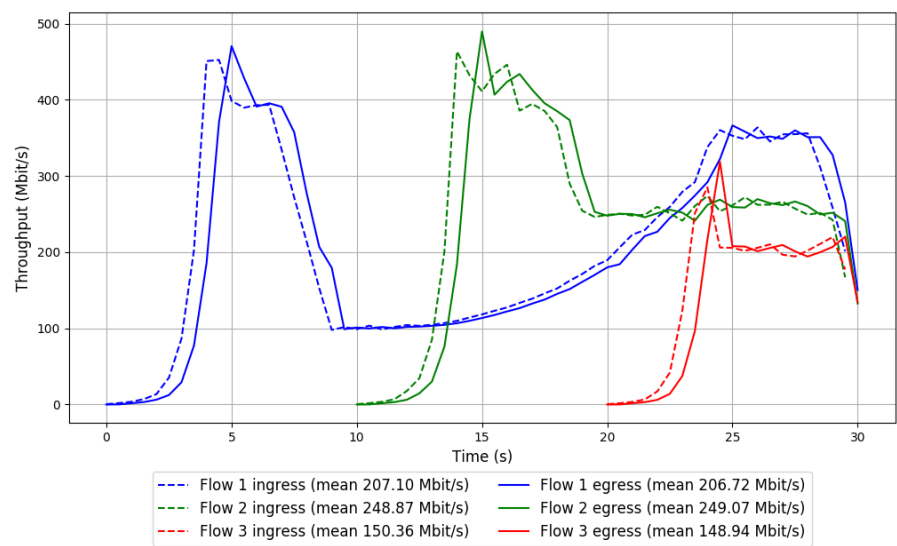


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 23:55:27
End at: 2018-05-30 23:55:57
Local clock offset: -0.428 ms
Remote clock offset: -0.367 ms

Below is generated by plot.py at 2018-05-31 05:28:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 420.37 Mbit/s
95th percentile per-packet one-way delay: 99.200 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 206.72 Mbit/s
95th percentile per-packet one-way delay: 92.768 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 249.07 Mbit/s
95th percentile per-packet one-way delay: 105.289 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 148.94 Mbit/s
95th percentile per-packet one-way delay: 88.563 ms
Loss rate: 2.68%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-31 00:18:07

End at: 2018-05-31 00:18:37

Local clock offset: -0.252 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-05-31 05:30:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 474.10 Mbit/s

95th percentile per-packet one-way delay: 88.407 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 294.66 Mbit/s

95th percentile per-packet one-way delay: 89.685 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 198.35 Mbit/s

95th percentile per-packet one-way delay: 86.448 ms

Loss rate: 1.08%

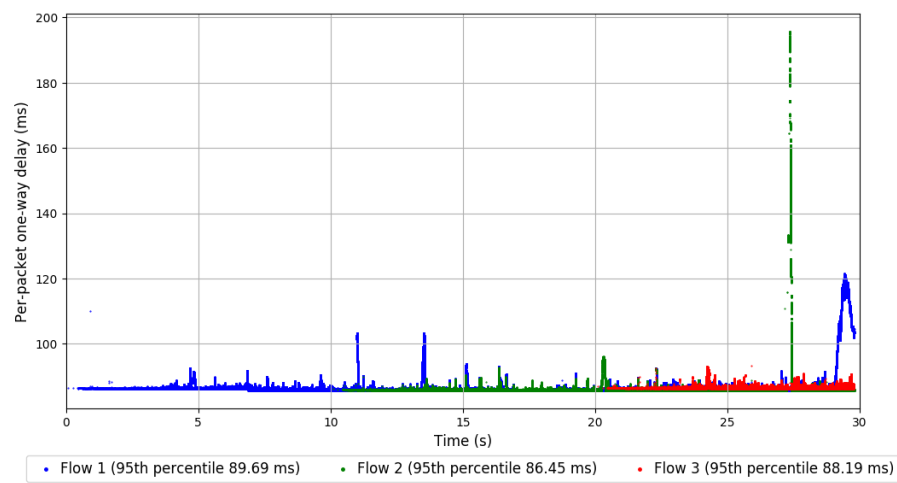
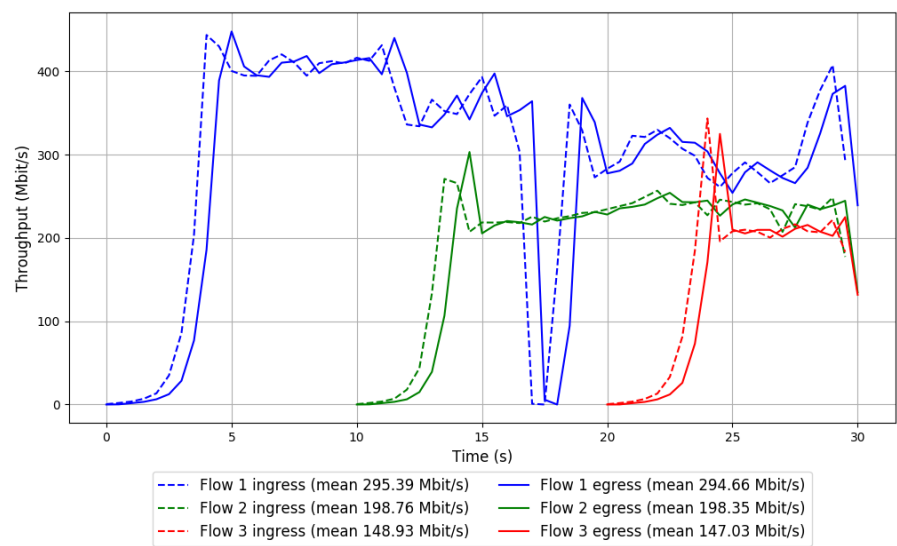
-- Flow 3:

Average throughput: 147.03 Mbit/s

95th percentile per-packet one-way delay: 88.193 ms

Loss rate: 3.04%

Run 2: Report of PCC-Vivace — Data Link

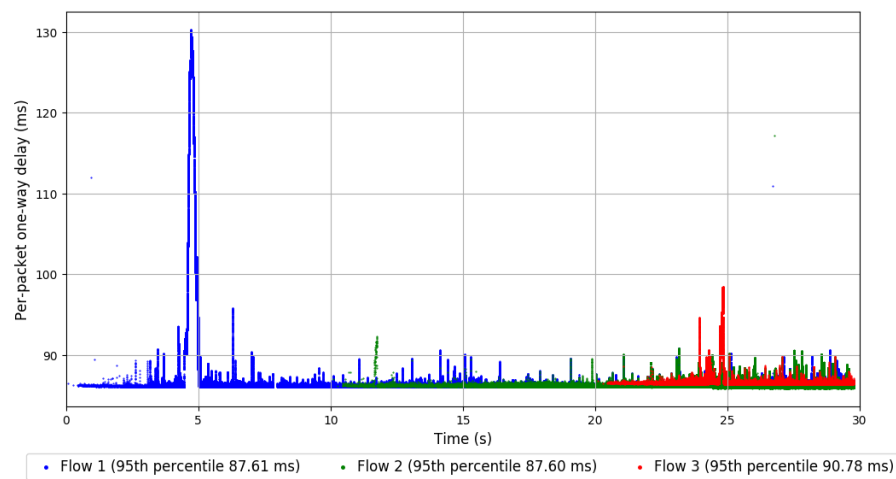
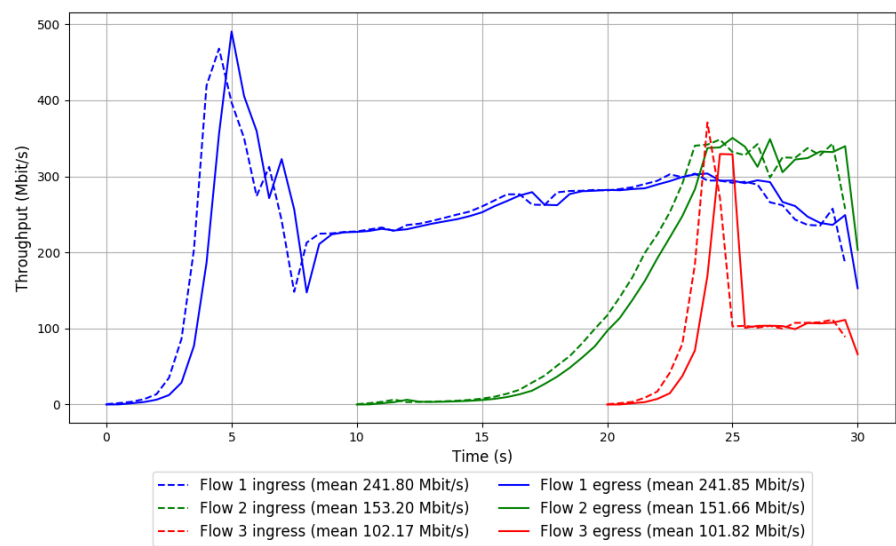


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-31 00:41:00
End at: 2018-05-31 00:41:30
Local clock offset: -0.09 ms
Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-05-31 05:30:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.58 Mbit/s
95th percentile per-packet one-way delay: 87.830 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 241.85 Mbit/s
95th percentile per-packet one-way delay: 87.609 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 151.66 Mbit/s
95th percentile per-packet one-way delay: 87.599 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 101.82 Mbit/s
95th percentile per-packet one-way delay: 90.775 ms
Loss rate: 2.10%

Run 3: Report of PCC-Vivace — Data Link

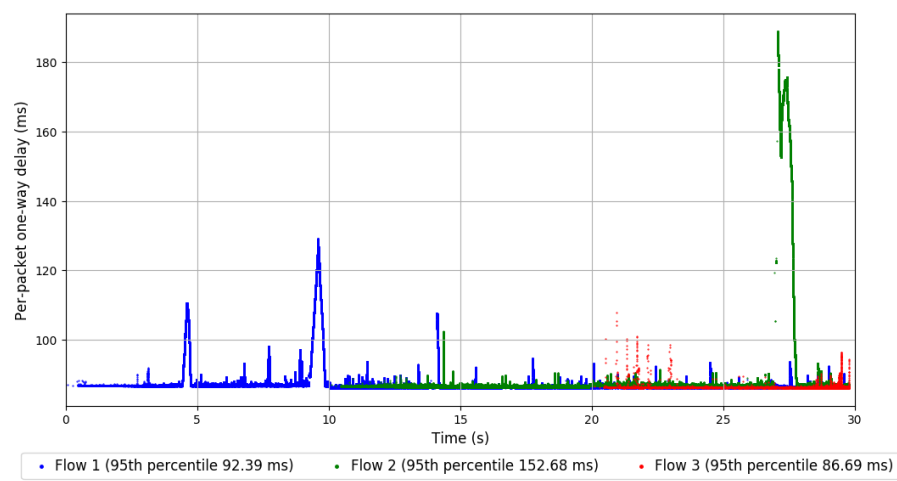
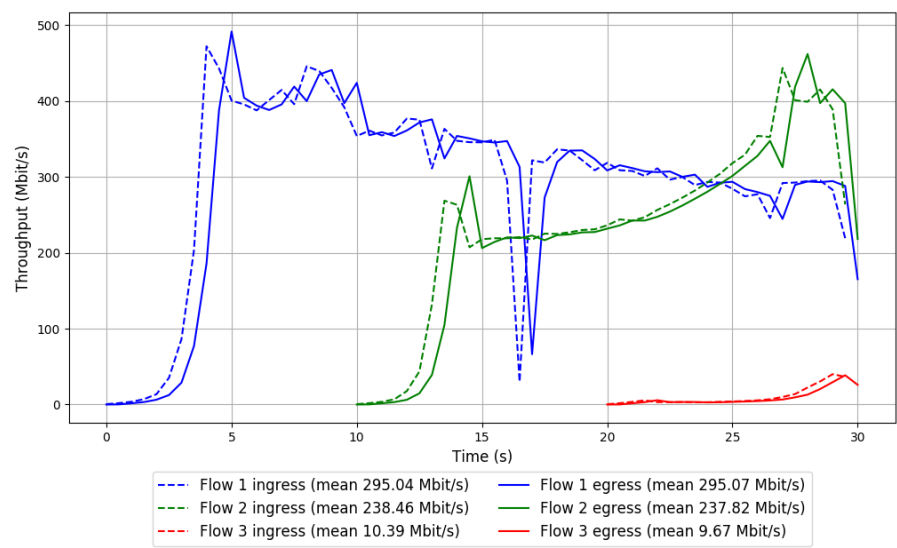


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-31 01:04:04
End at: 2018-05-31 01:04:34
Local clock offset: 0.001 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2018-05-31 05:30:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 455.93 Mbit/s
95th percentile per-packet one-way delay: 95.584 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 295.07 Mbit/s
95th percentile per-packet one-way delay: 92.385 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 237.82 Mbit/s
95th percentile per-packet one-way delay: 152.677 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 8.61%

Run 4: Report of PCC-Vivace — Data Link

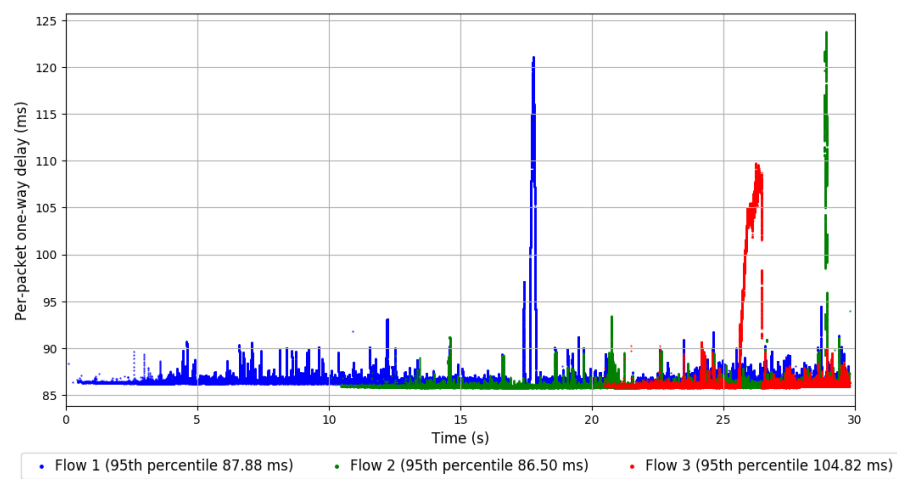
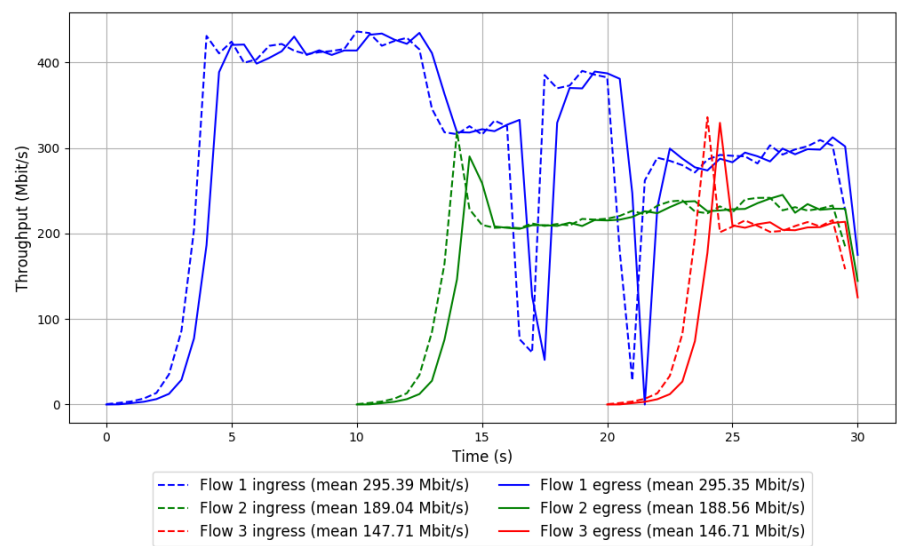


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-31 01:26:46
End at: 2018-05-31 01:27:16
Local clock offset: -0.041 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-31 05:31:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.21 Mbit/s
95th percentile per-packet one-way delay: 88.004 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 295.35 Mbit/s
95th percentile per-packet one-way delay: 87.881 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 188.56 Mbit/s
95th percentile per-packet one-way delay: 86.505 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 146.71 Mbit/s
95th percentile per-packet one-way delay: 104.820 ms
Loss rate: 2.42%

Run 5: Report of PCC-Vivace — Data Link

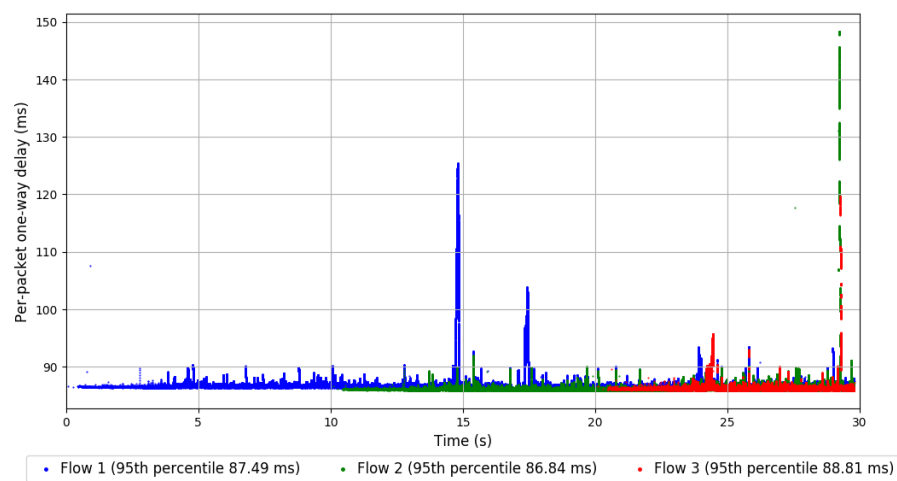
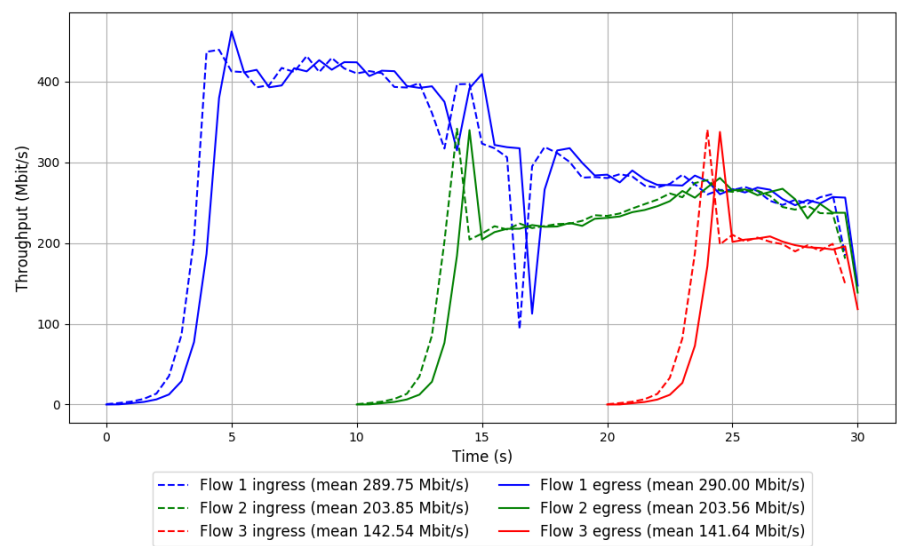


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-31 01:49:46
End at: 2018-05-31 01:50:16
Local clock offset: -0.132 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-05-31 05:31:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 471.15 Mbit/s
95th percentile per-packet one-way delay: 87.316 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 290.00 Mbit/s
95th percentile per-packet one-way delay: 87.491 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 203.56 Mbit/s
95th percentile per-packet one-way delay: 86.841 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 141.64 Mbit/s
95th percentile per-packet one-way delay: 88.815 ms
Loss rate: 2.37%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-31 02:13:02

End at: 2018-05-31 02:13:32

Local clock offset: -0.231 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-31 05:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.38 Mbit/s

95th percentile per-packet one-way delay: 87.583 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 302.85 Mbit/s

95th percentile per-packet one-way delay: 87.337 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 272.72 Mbit/s

95th percentile per-packet one-way delay: 88.520 ms

Loss rate: 0.89%

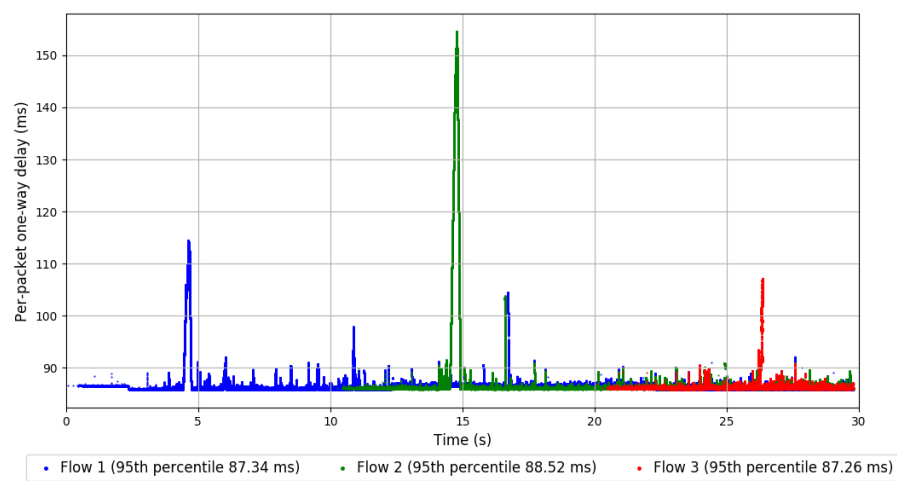
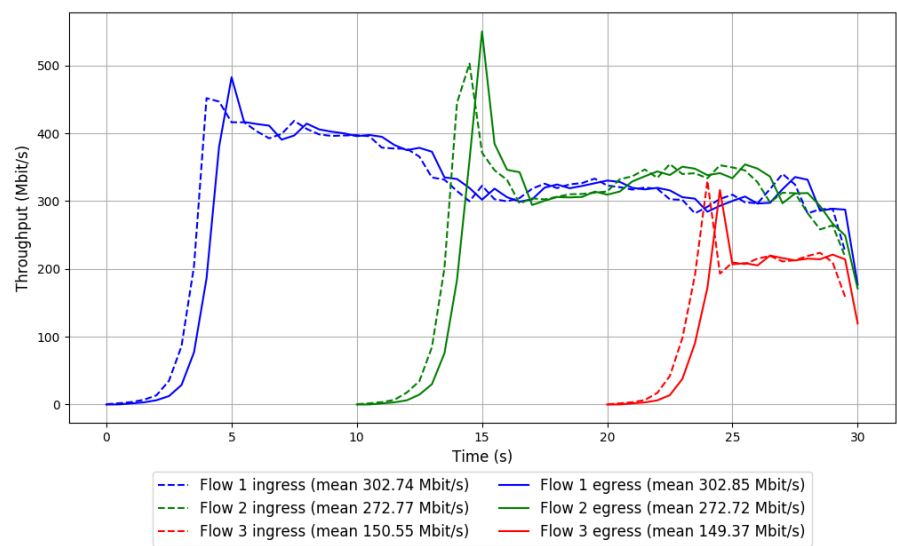
-- Flow 3:

Average throughput: 149.37 Mbit/s

95th percentile per-packet one-way delay: 87.261 ms

Loss rate: 2.52%

Run 7: Report of PCC-Vivace — Data Link

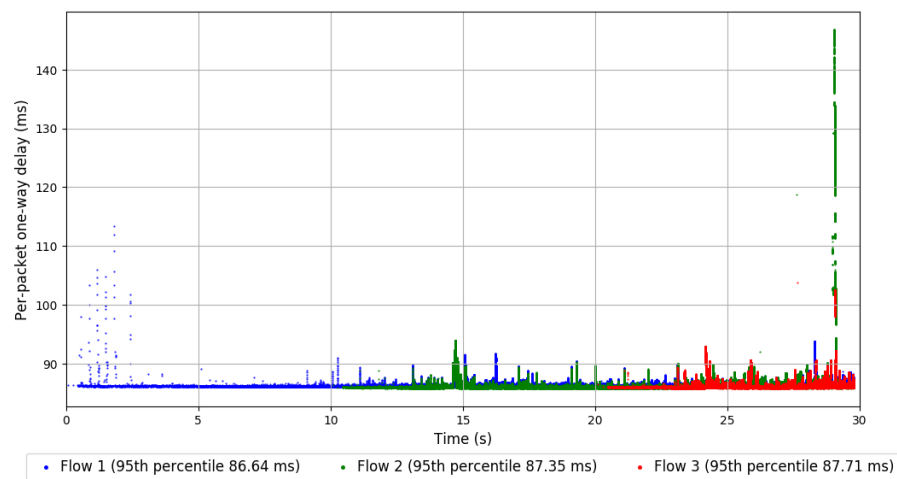
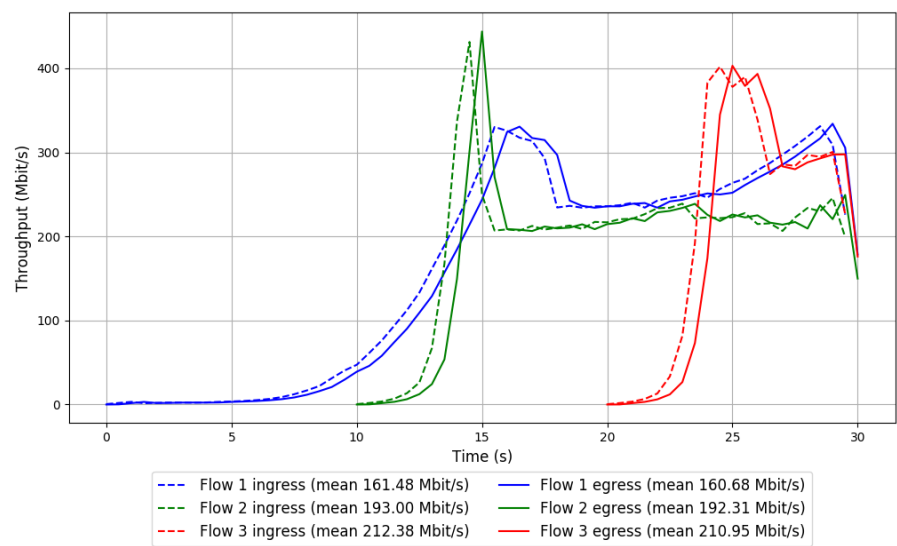


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-31 02:36:16
End at: 2018-05-31 02:36:46
Local clock offset: -0.256 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-05-31 05:33:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.94 Mbit/s
95th percentile per-packet one-way delay: 87.015 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 160.68 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 87.354 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 210.95 Mbit/s
95th percentile per-packet one-way delay: 87.714 ms
Loss rate: 2.43%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-31 02:59:20

End at: 2018-05-31 02:59:50

Local clock offset: -0.243 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 475.87 Mbit/s

95th percentile per-packet one-way delay: 88.775 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 292.06 Mbit/s

95th percentile per-packet one-way delay: 100.501 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 205.24 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 1.12%

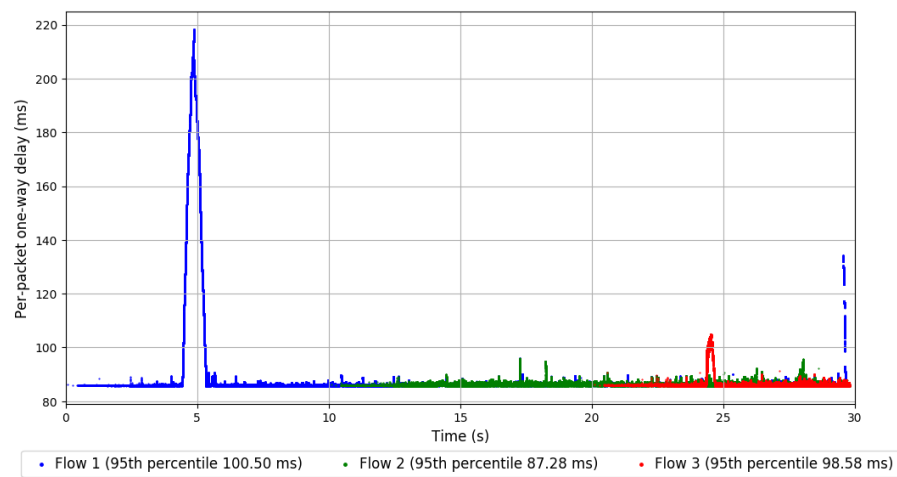
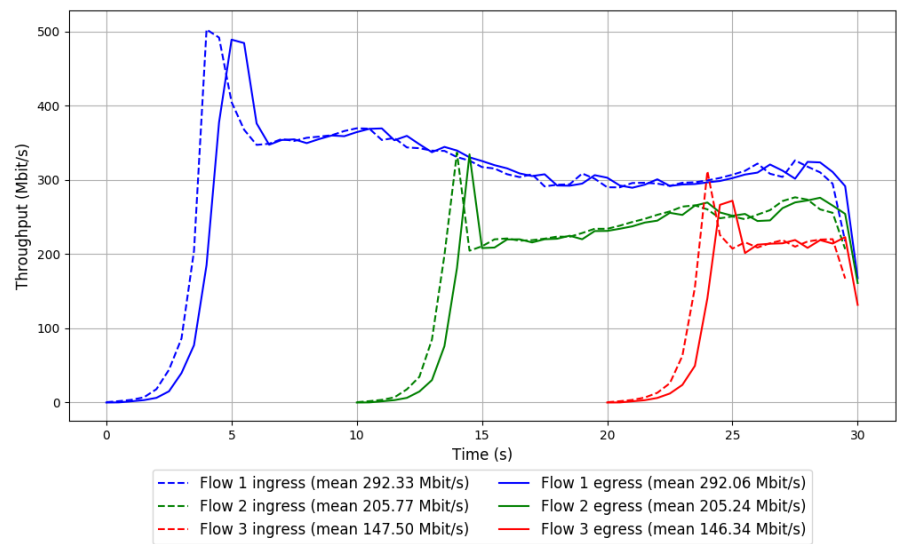
-- Flow 3:

Average throughput: 146.34 Mbit/s

95th percentile per-packet one-way delay: 98.576 ms

Loss rate: 2.52%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-31 03:22:42

End at: 2018-05-31 03:23:12

Local clock offset: 0.017 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 436.96 Mbit/s

95th percentile per-packet one-way delay: 88.074 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 285.49 Mbit/s

95th percentile per-packet one-way delay: 87.684 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 157.34 Mbit/s

95th percentile per-packet one-way delay: 99.435 ms

Loss rate: 1.25%

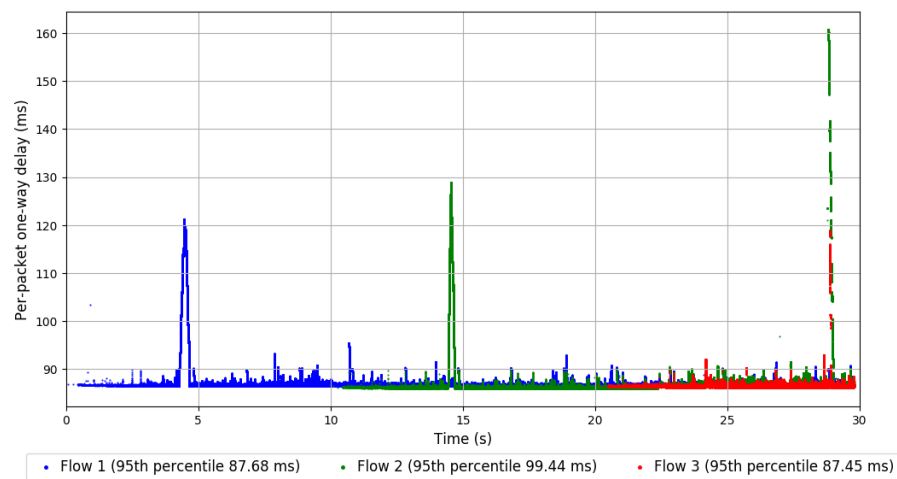
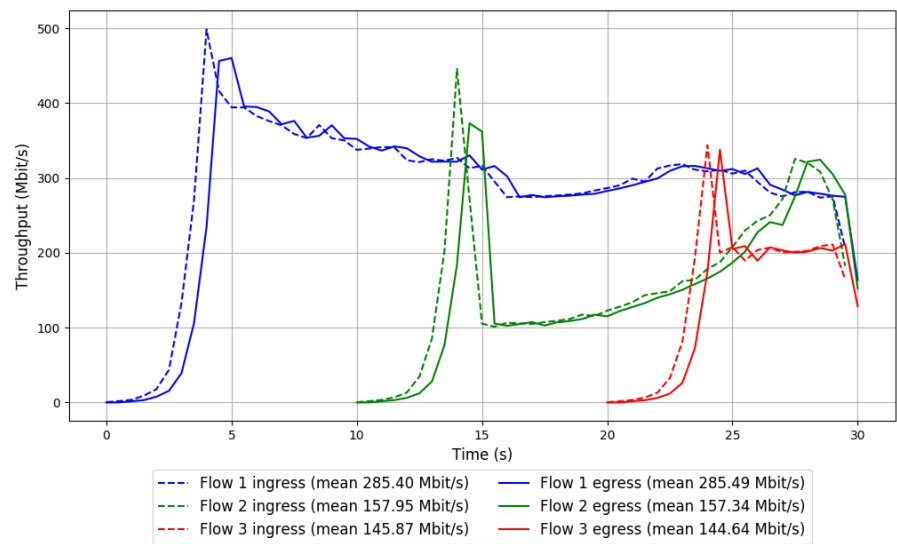
-- Flow 3:

Average throughput: 144.64 Mbit/s

95th percentile per-packet one-way delay: 87.446 ms

Loss rate: 2.58%

Run 10: Report of PCC-Vivace — Data Link

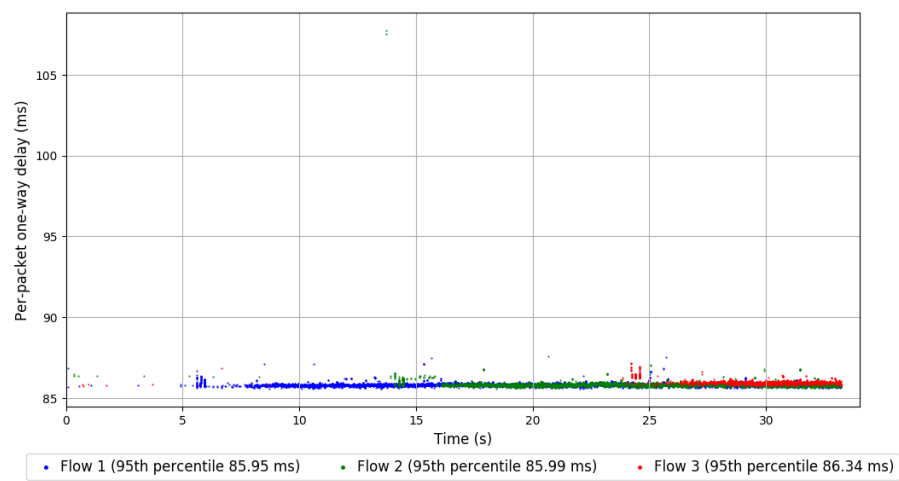
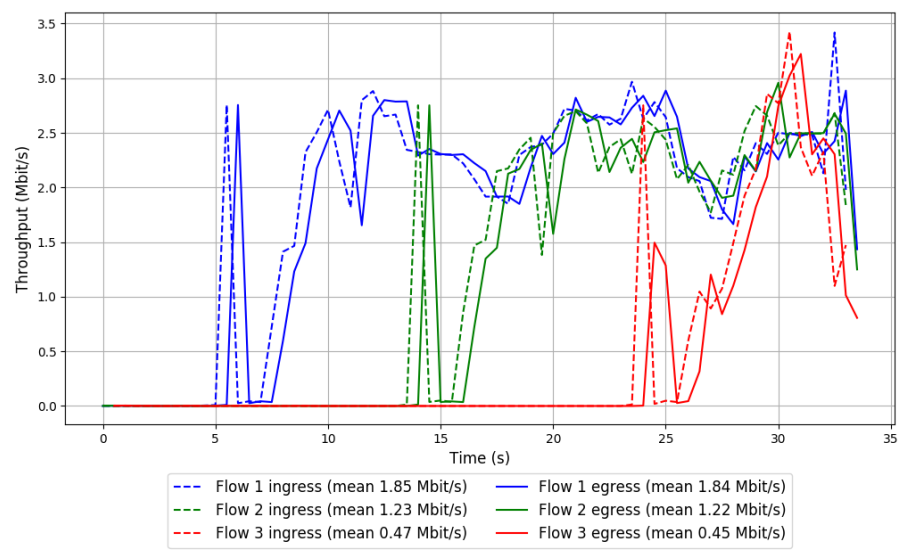


Run 1: Statistics of WebRTC media

Start at: 2018-05-31 00:01:42
End at: 2018-05-31 00:02:12
Local clock offset: -0.373 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 86.030 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 85.948 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 85.991 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.343 ms
Loss rate: 3.15%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-31 00:24:41

End at: 2018-05-31 00:25:11

Local clock offset: -0.107 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.365 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.320 ms

Loss rate: 0.86%

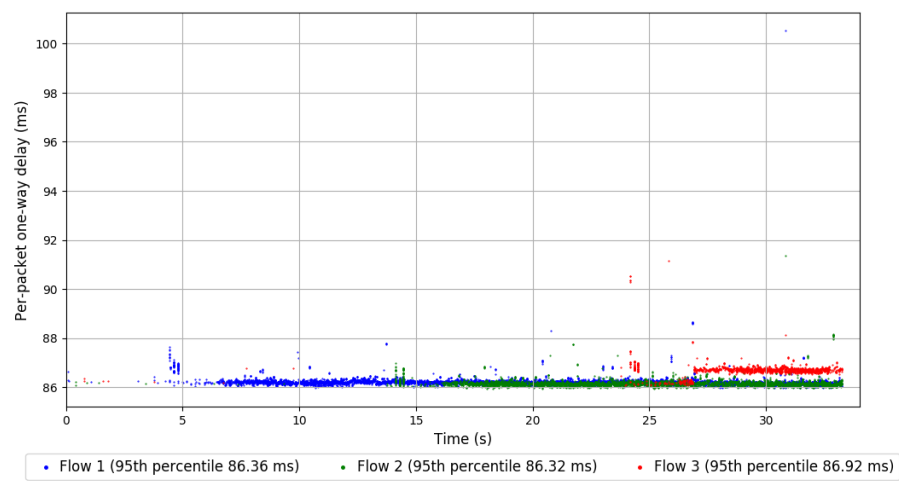
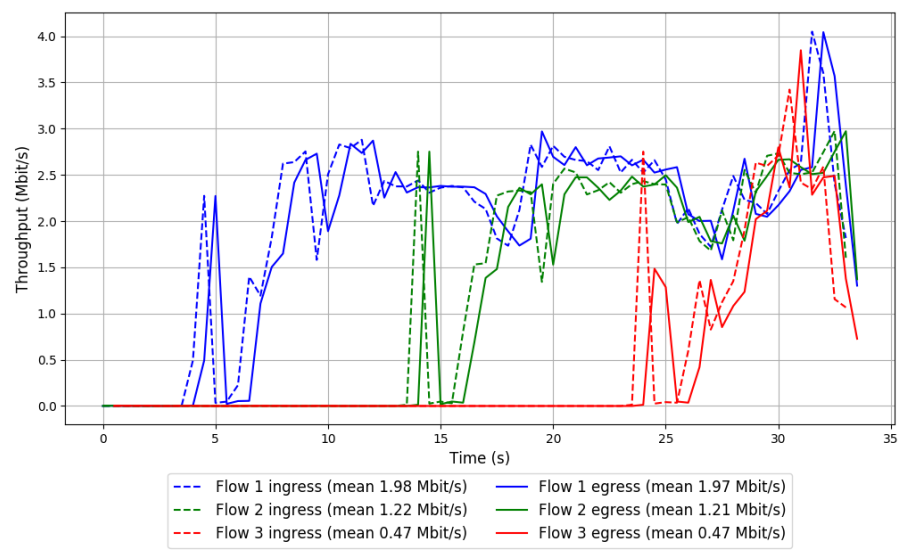
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 86.917 ms

Loss rate: 2.08%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-31 00:47:27

End at: 2018-05-31 00:47:57

Local clock offset: -0.043 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 86.462 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 86.476 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.218 ms

Loss rate: 1.21%

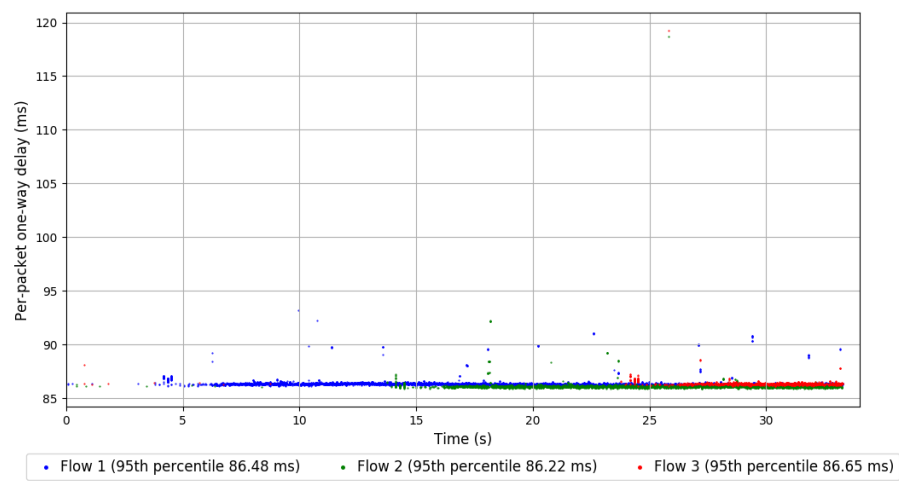
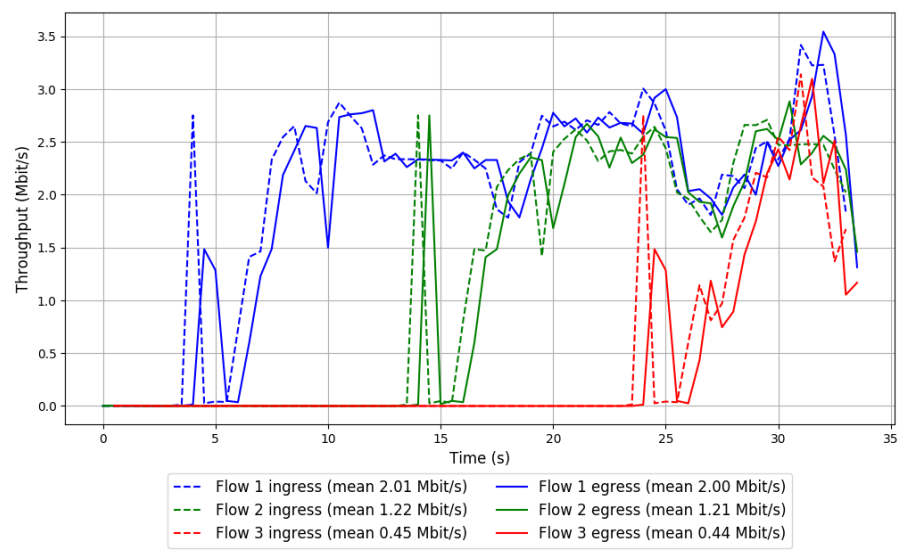
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.651 ms

Loss rate: 2.87%

Run 3: Report of WebRTC media — Data Link

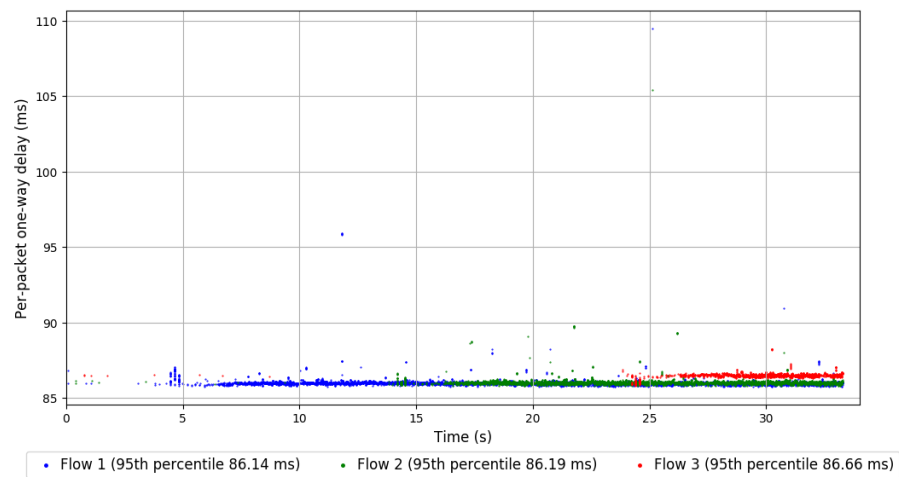
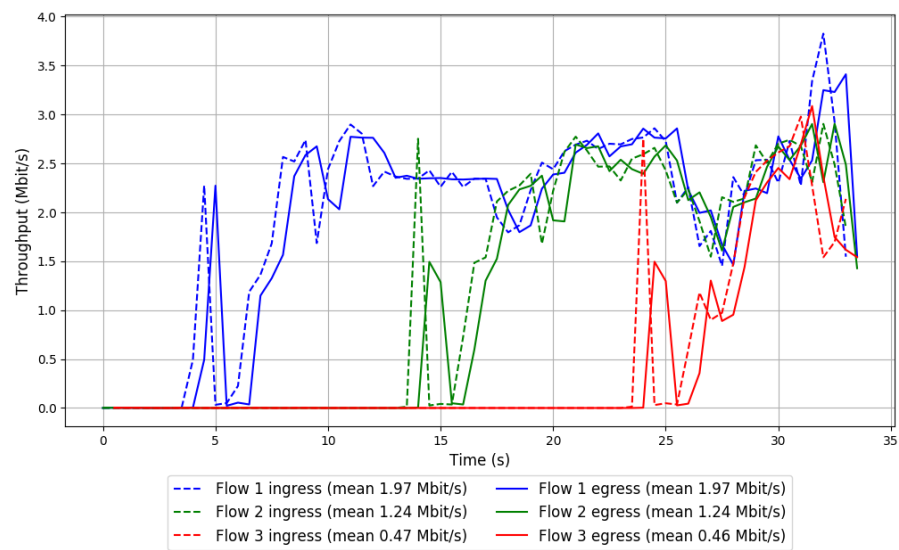


Run 4: Statistics of WebRTC media

Start at: 2018-05-31 01:10:10
End at: 2018-05-31 01:10:40
Local clock offset: -0.133 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 86.546 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.143 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 86.192 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.662 ms
Loss rate: 3.04%

Run 4: Report of WebRTC media — Data Link

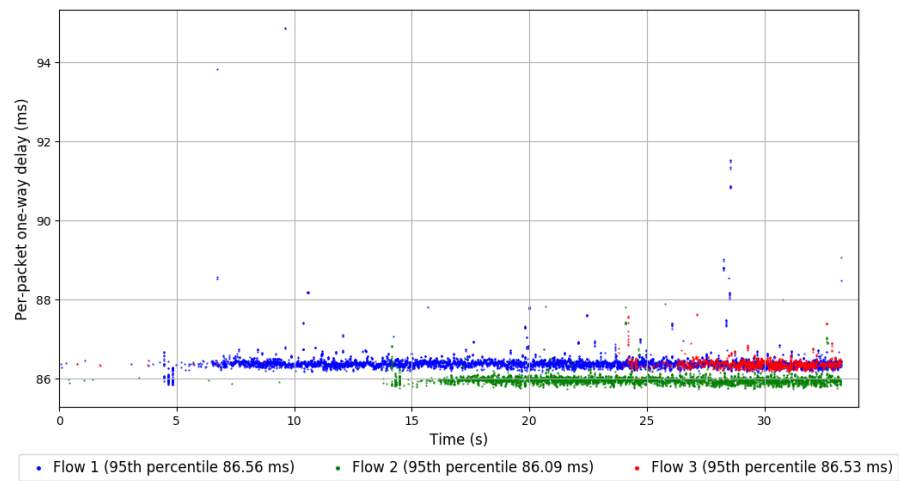
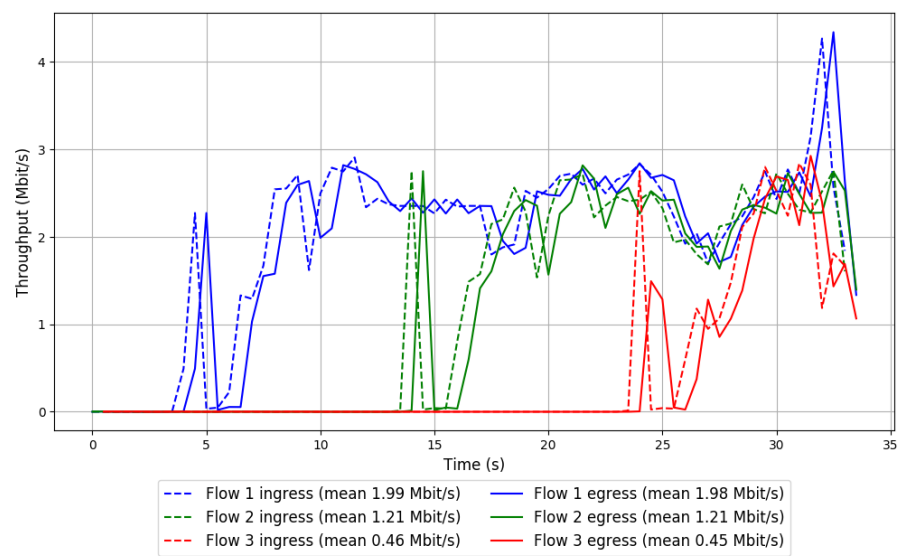


Run 5: Statistics of WebRTC media

Start at: 2018-05-31 01:33:12
End at: 2018-05-31 01:33:42
Local clock offset: -0.073 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 86.510 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 86.556 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 86.094 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 86.535 ms
Loss rate: 3.18%

Run 5: Report of WebRTC media — Data Link

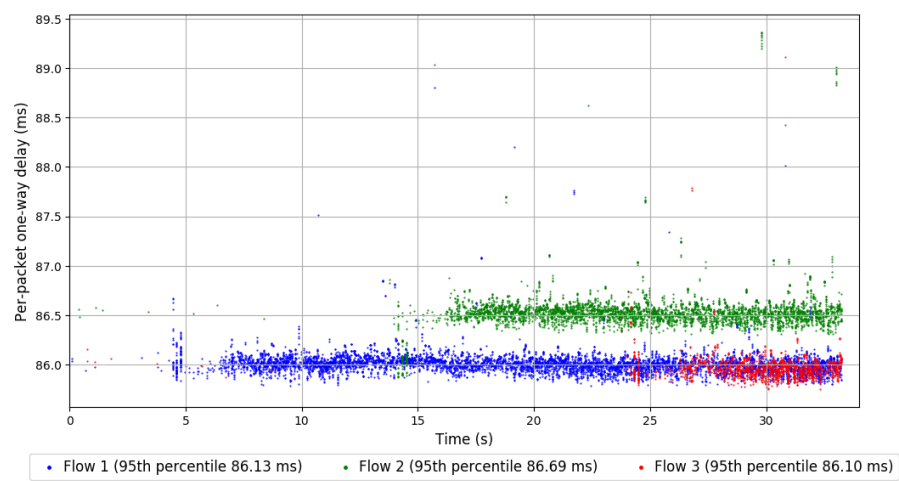
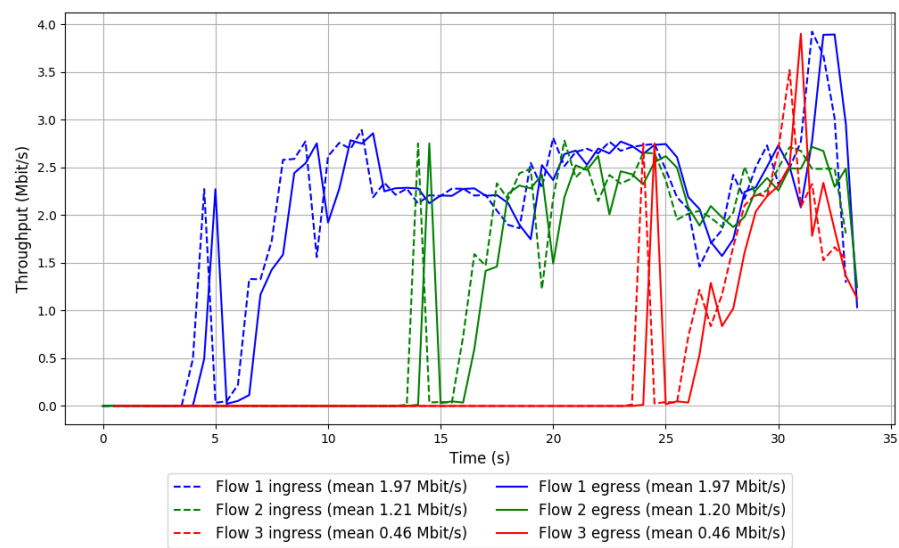


Run 6: Statistics of WebRTC media

Start at: 2018-05-31 01:56:20
End at: 2018-05-31 01:56:50
Local clock offset: -0.274 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 86.603 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 86.129 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 86.689 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.103 ms
Loss rate: 2.49%

Run 6: Report of WebRTC media — Data Link

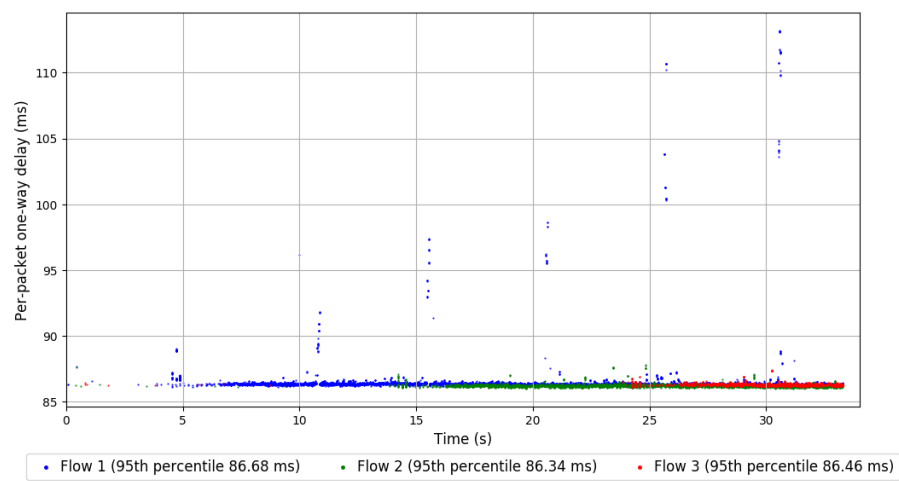
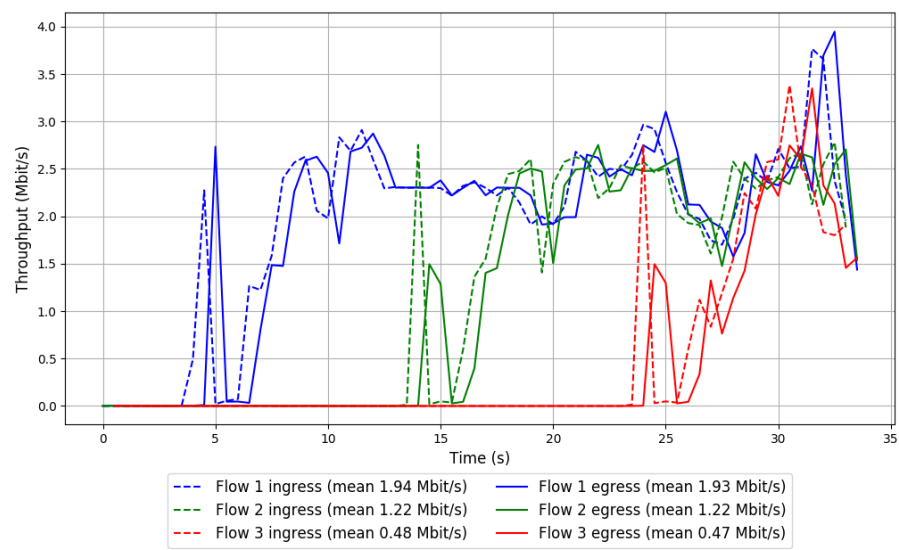


Run 7: Statistics of WebRTC media

Start at: 2018-05-31 02:19:41
End at: 2018-05-31 02:20:11
Local clock offset: -0.086 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.681 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 86.336 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 2.40%

Run 7: Report of WebRTC media — Data Link

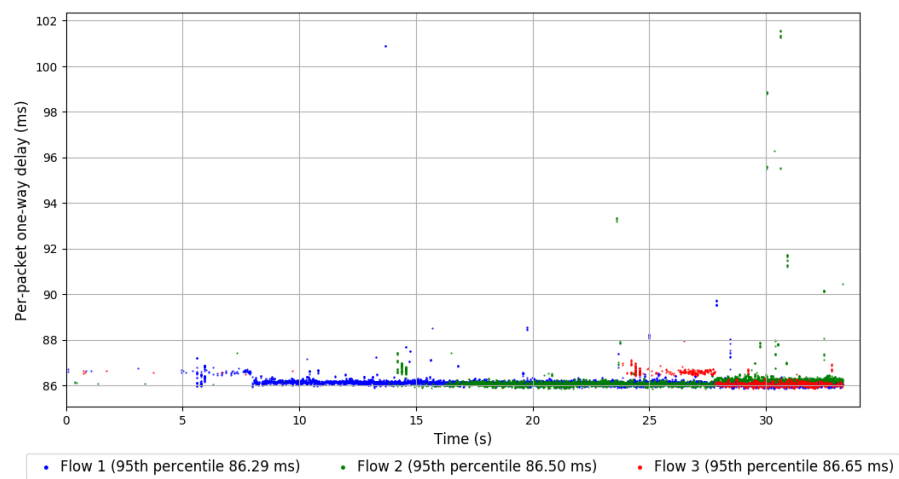
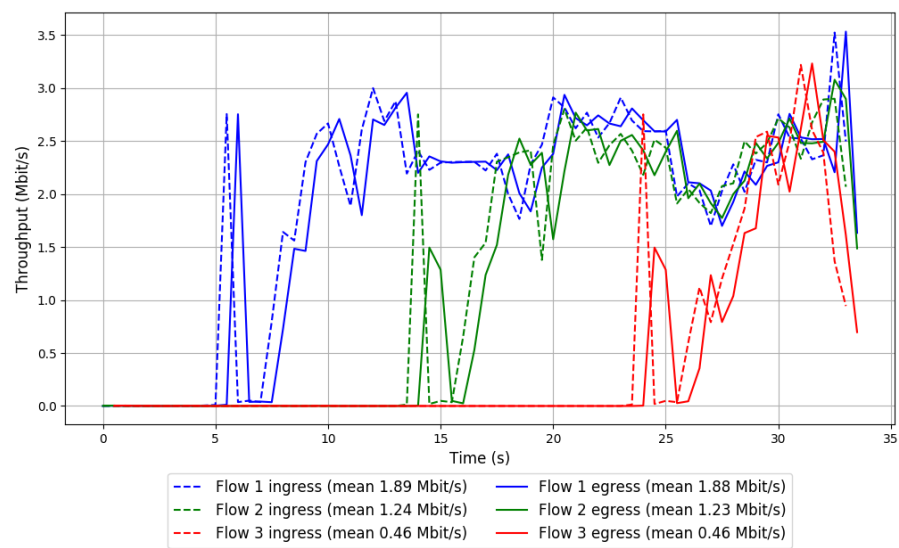


Run 8: Statistics of WebRTC media

Start at: 2018-05-31 02:42:40
End at: 2018-05-31 02:43:10
Local clock offset: -0.294 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-31 05:33:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 86.521 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 86.291 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 86.499 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.652 ms
Loss rate: 1.49%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-31 03:05:58

End at: 2018-05-31 03:06:28

Local clock offset: 6.0 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 92.836 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 92.864 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 92.342 ms

Loss rate: 1.36%

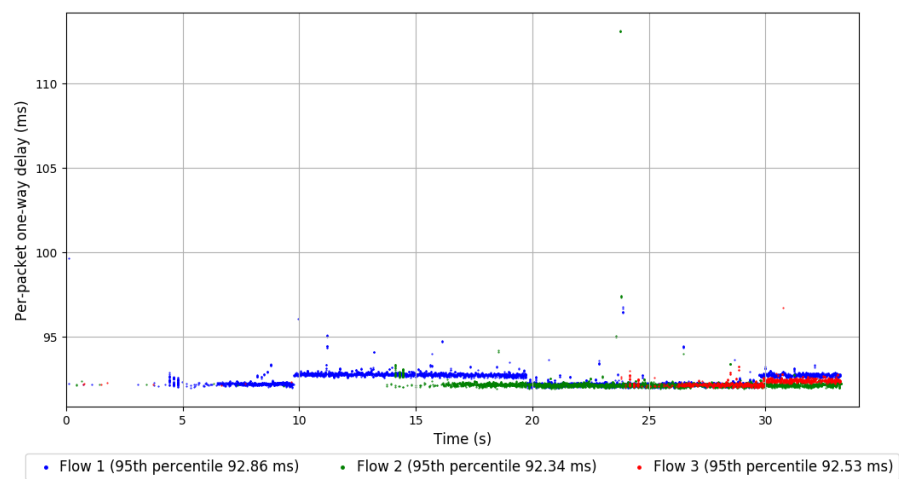
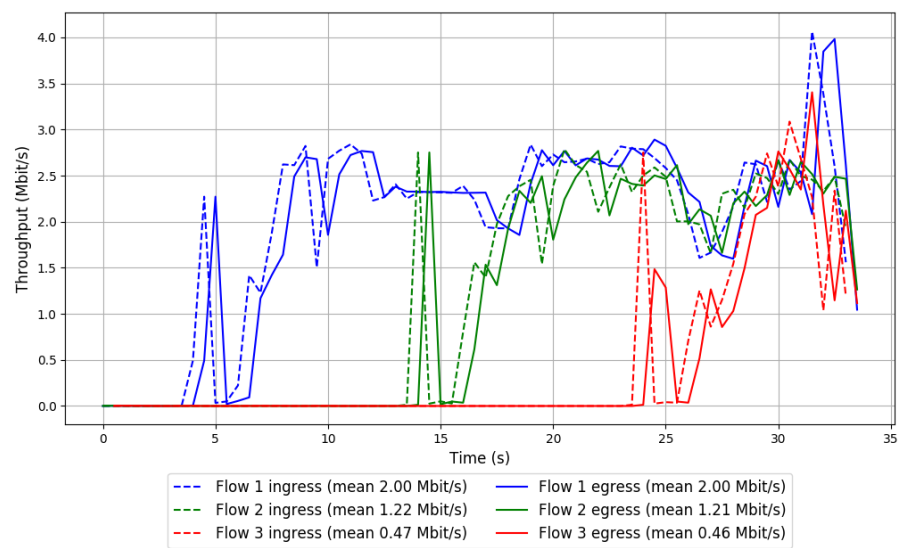
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 92.532 ms

Loss rate: 1.79%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-31 03:29:12

End at: 2018-05-31 03:29:42

Local clock offset: -0.266 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-31 05:33:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 86.539 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 86.536 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 86.015 ms

Loss rate: 1.02%

-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 86.593 ms

Loss rate: 2.54%

Run 10: Report of WebRTC media — Data Link

