

Pantheon Report

Generated at 2018-05-22 08:12:21 (UTC).

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

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.

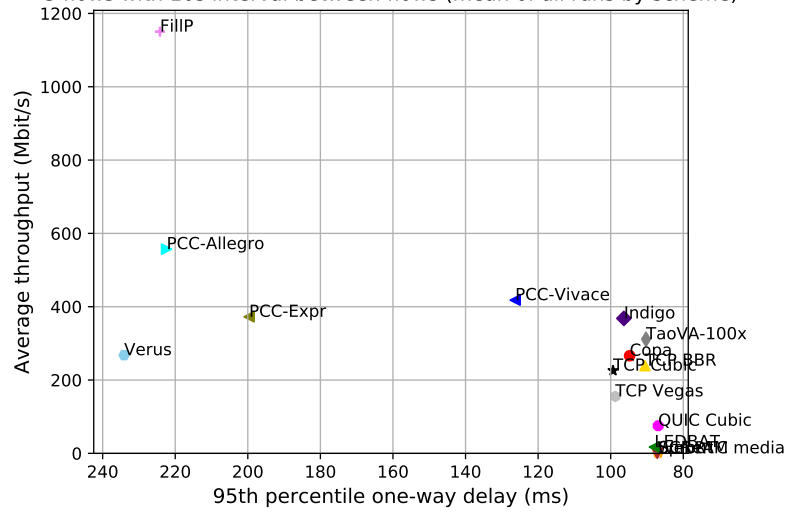
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

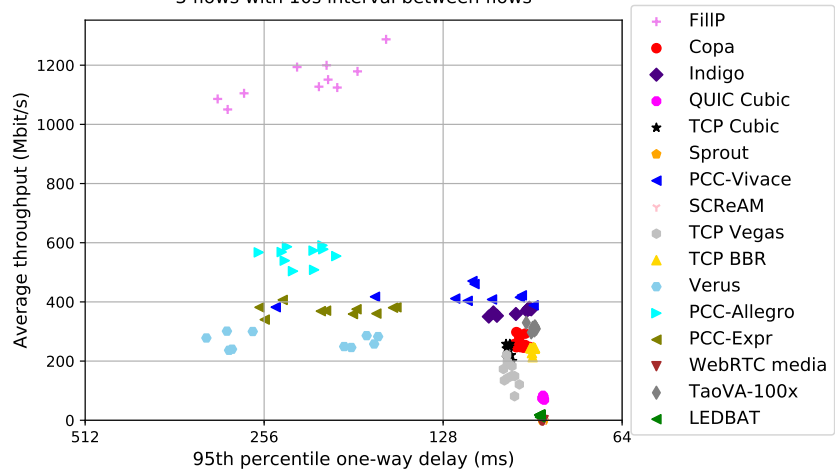
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE Sydney Ethernet to GCE Iowa Ethernet, 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	122.13	119.40	113.00	89.55	90.37	92.11	0.01	0.02	0.03
Copa	10	137.95	136.65	112.37	93.69	96.15	95.24	0.01	0.02	0.05
TCP Cubic	10	122.27	107.32	96.73	99.18	98.11	98.80	0.05	0.03	0.04
FillP	10	610.98	562.25	498.39	216.00	237.35	186.28	7.03	6.69	7.77
Indigo	10	193.91	187.38	155.46	94.53	97.48	98.14	0.01	0.01	0.02
LEDBAT	10	11.04	7.28	3.84	88.07	87.78	87.59	0.01	0.00	0.00
PCC-Allegro	10	463.60	116.15	49.52	225.75	203.95	189.16	3.27	2.60	3.39
PCC-Expr	10	213.41	189.37	100.49	210.55	189.53	158.73	1.14	1.02	1.11
QUIC Cubic	10	44.89	35.30	21.48	86.87	86.87	87.12	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	86.73	86.79	86.67	0.00	0.00	0.00
Sprout	10	0.27	0.26	0.35	86.95	86.90	86.88	0.00	0.00	0.00
TaoVA-100x	10	163.01	152.53	140.28	90.23	90.26	90.76	0.01	0.01	0.02
TCP Vegas	10	83.98	64.94	84.87	97.48	94.76	98.56	0.04	0.07	0.05
Verus	10	157.89	122.12	88.56	221.77	204.08	189.53	3.48	2.19	1.71
PCC-Vivace	10	231.31	208.31	145.79	113.82	133.95	113.93	0.06	0.44	0.01
WebRTC media	10	0.05	0.05	0.05	87.04	87.07	87.05	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 02:37:30

End at: 2018-05-22 02:38:00

Local clock offset: 0.22 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-22 06:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.46 Mbit/s

95th percentile per-packet one-way delay: 90.138 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.81 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 125.98 Mbit/s

95th percentile per-packet one-way delay: 90.424 ms

Loss rate: 0.00%

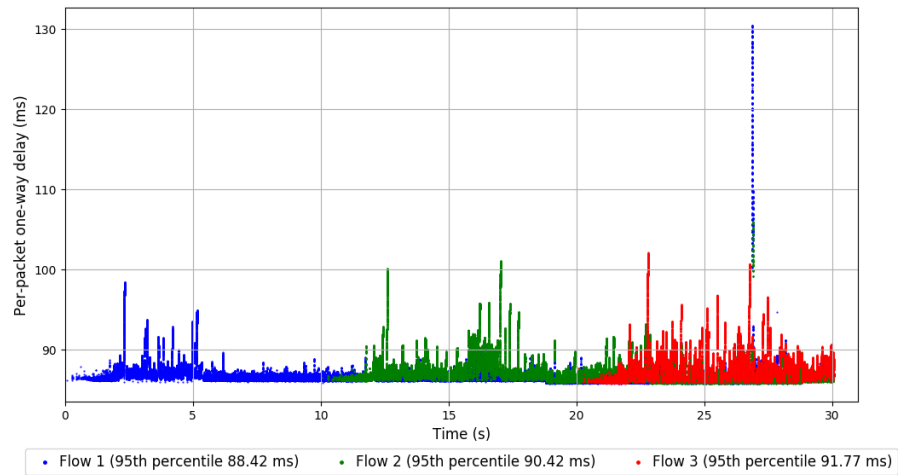
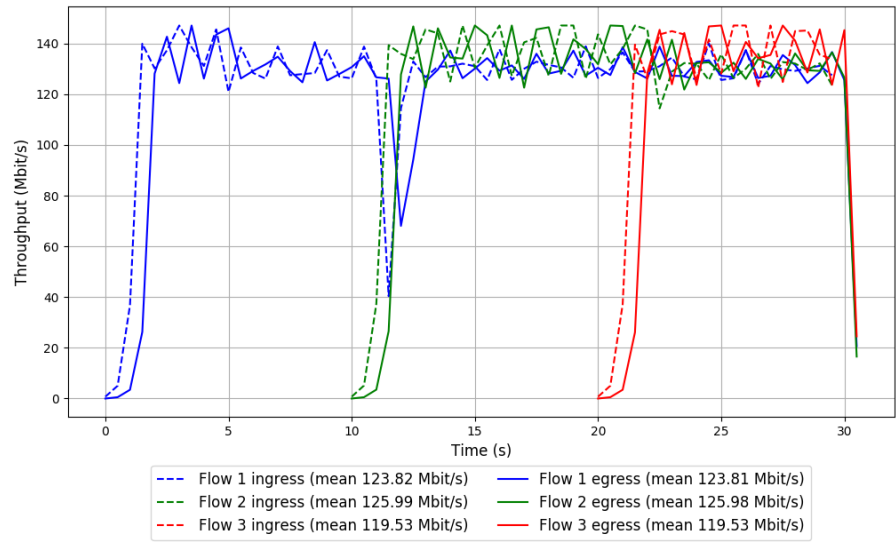
-- Flow 3:

Average throughput: 119.53 Mbit/s

95th percentile per-packet one-way delay: 91.770 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 03:01:18

End at: 2018-05-22 03:01:48

Local clock offset: 0.131 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-05-22 06:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.39 Mbit/s

95th percentile per-packet one-way delay: 89.786 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.33 Mbit/s

95th percentile per-packet one-way delay: 88.224 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.38 Mbit/s

95th percentile per-packet one-way delay: 89.109 ms

Loss rate: 0.00%

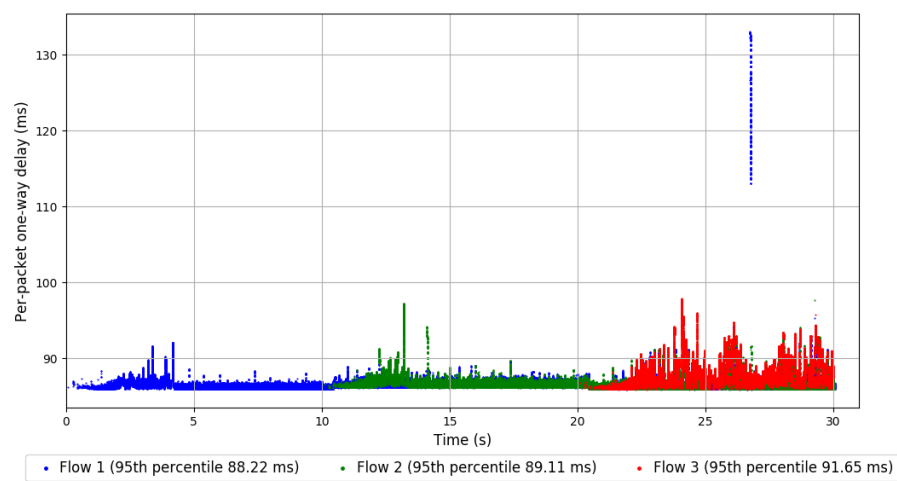
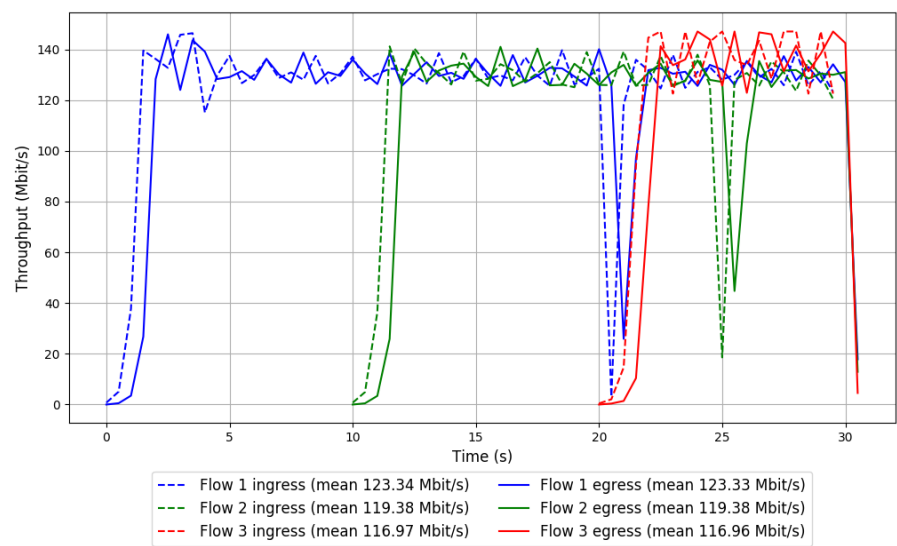
-- Flow 3:

Average throughput: 116.96 Mbit/s

95th percentile per-packet one-way delay: 91.652 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-22 03:24:53

End at: 2018-05-22 03:25:23

Local clock offset: 0.212 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2018-05-22 06:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 243.66 Mbit/s

95th percentile per-packet one-way delay: 91.258 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 124.53 Mbit/s

95th percentile per-packet one-way delay: 89.851 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.36 Mbit/s

95th percentile per-packet one-way delay: 91.208 ms

Loss rate: 0.00%

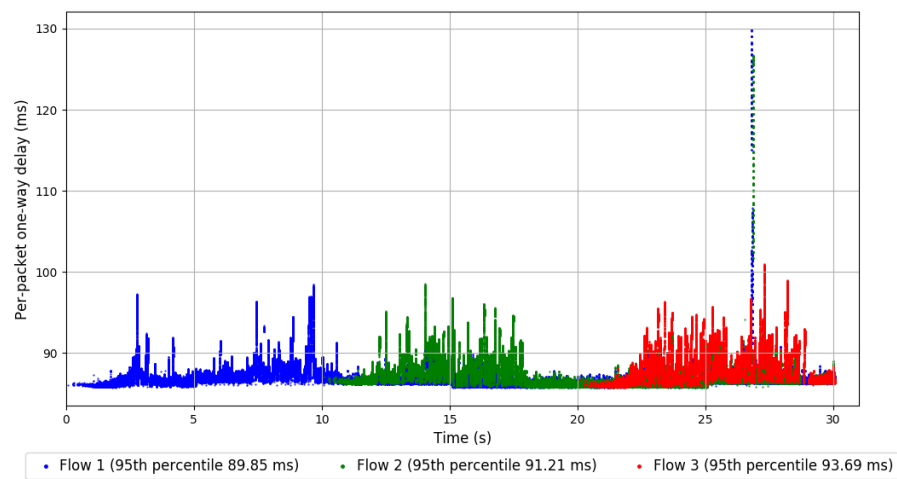
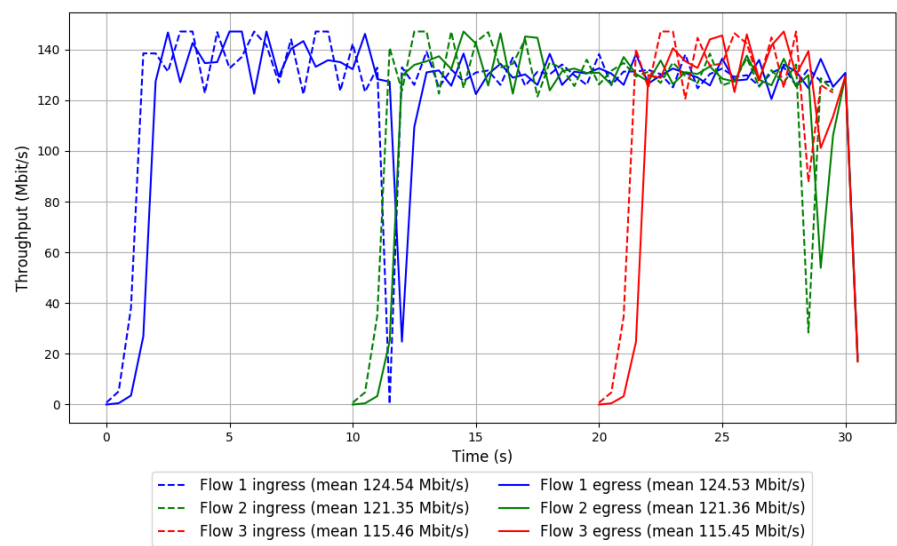
-- Flow 3:

Average throughput: 115.45 Mbit/s

95th percentile per-packet one-way delay: 93.690 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link

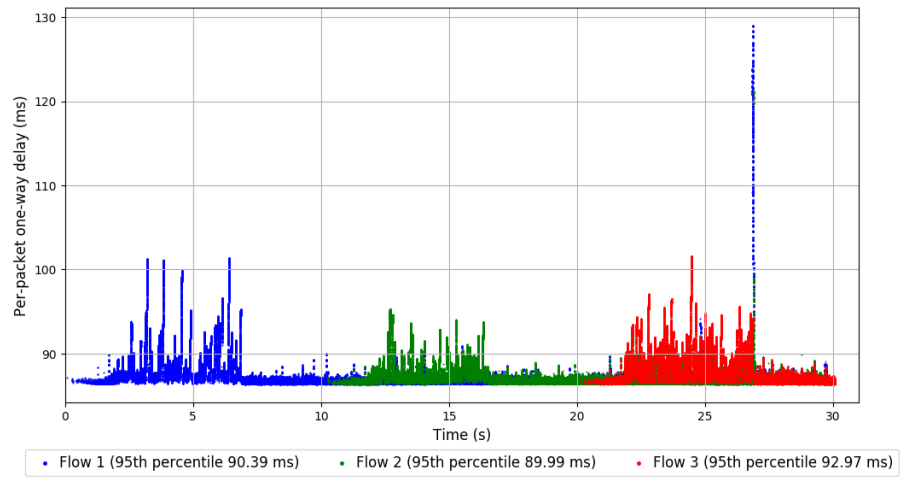
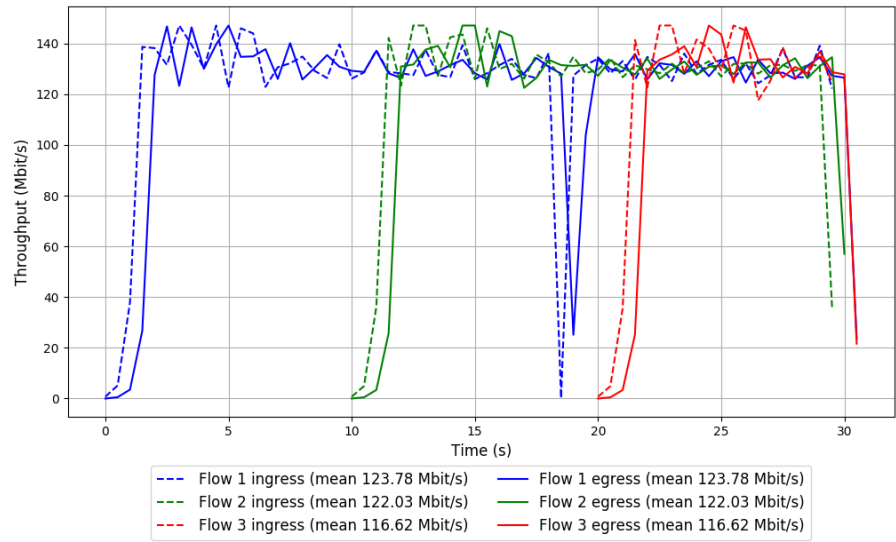


Run 4: Statistics of TCP BBR

Start at: 2018-05-22 03:48:34
End at: 2018-05-22 03:49:04
Local clock offset: -0.314 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-05-22 06:22:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.37 Mbit/s
95th percentile per-packet one-way delay: 91.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.78 Mbit/s
95th percentile per-packet one-way delay: 90.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.03 Mbit/s
95th percentile per-packet one-way delay: 89.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.62 Mbit/s
95th percentile per-packet one-way delay: 92.971 ms
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

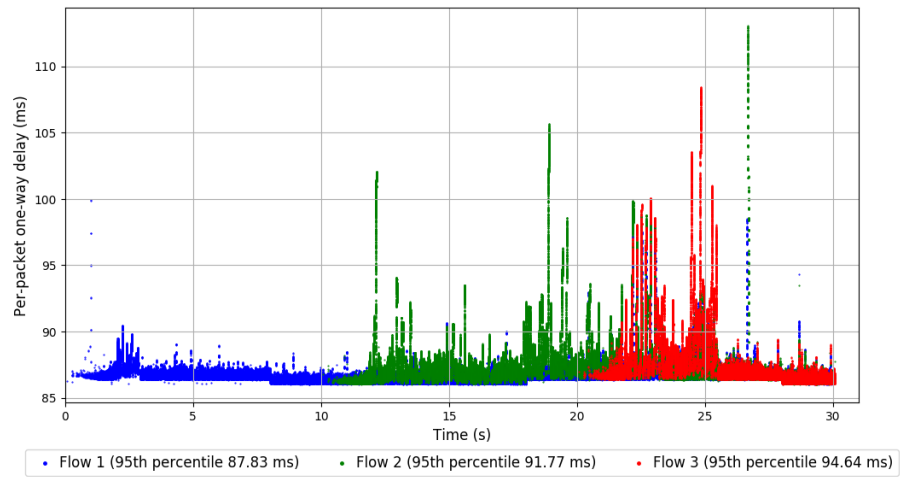
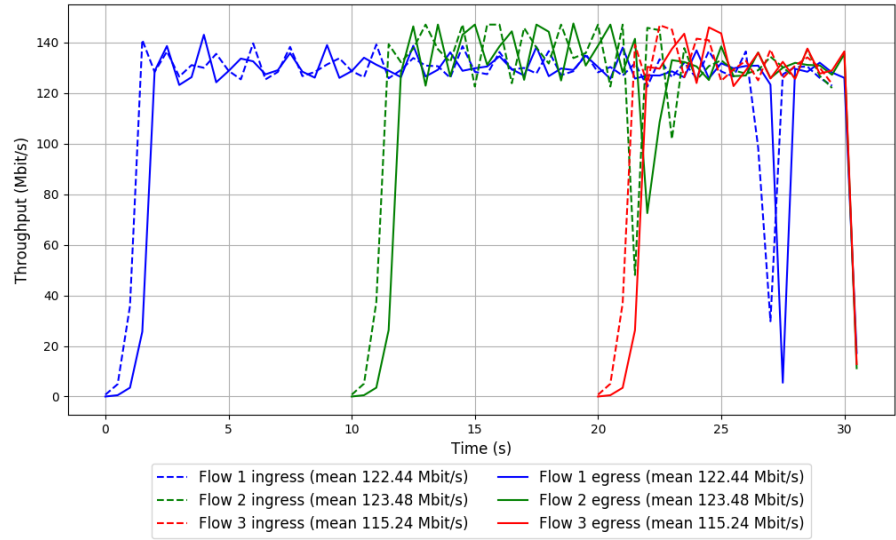


Run 5: Statistics of TCP BBR

Start at: 2018-05-22 04:12:20
End at: 2018-05-22 04:12:50
Local clock offset: 0.084 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-05-22 06:22:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.07 Mbit/s
95th percentile per-packet one-way delay: 90.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.44 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.48 Mbit/s
95th percentile per-packet one-way delay: 91.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 115.24 Mbit/s
95th percentile per-packet one-way delay: 94.642 ms
Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link

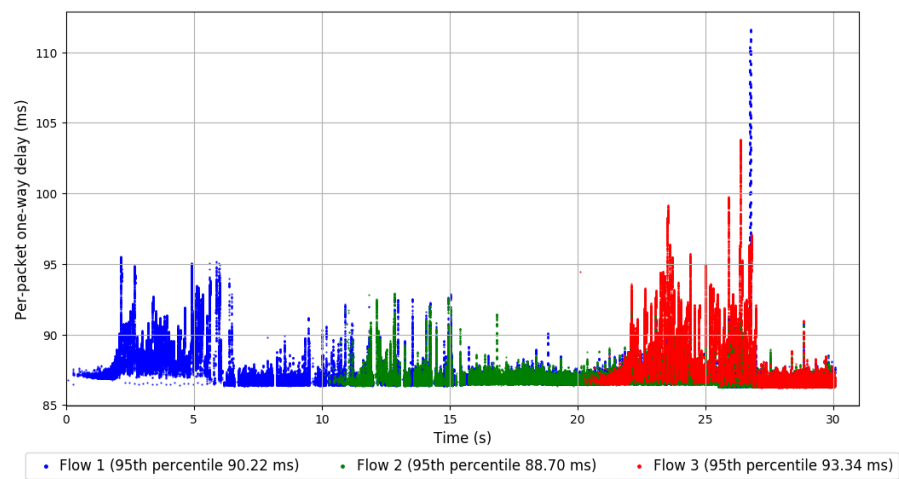
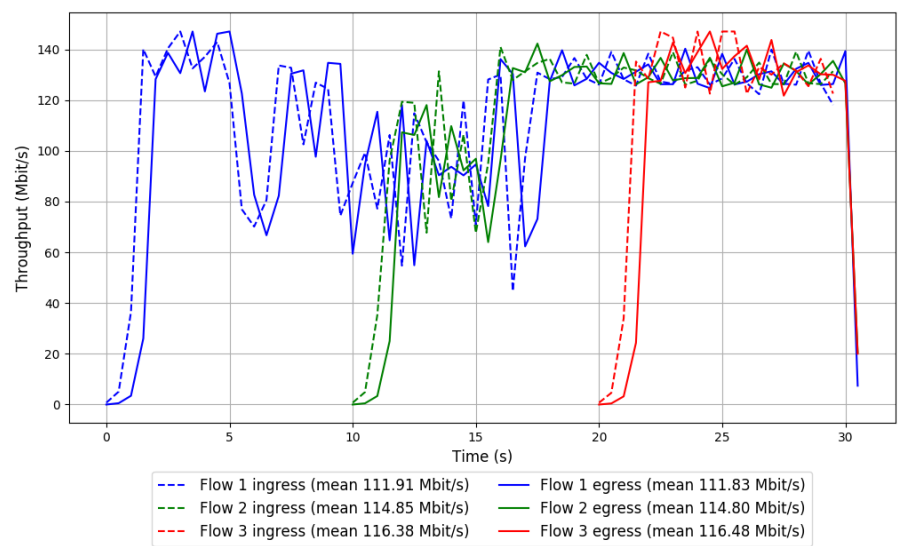


Run 6: Statistics of TCP BBR

Start at: 2018-05-22 04:36:03
End at: 2018-05-22 04:36:33
Local clock offset: -0.362 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-05-22 06:22:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.98 Mbit/s
95th percentile per-packet one-way delay: 90.740 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 111.83 Mbit/s
95th percentile per-packet one-way delay: 90.223 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 114.80 Mbit/s
95th percentile per-packet one-way delay: 88.705 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 116.48 Mbit/s
95th percentile per-packet one-way delay: 93.341 ms
Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

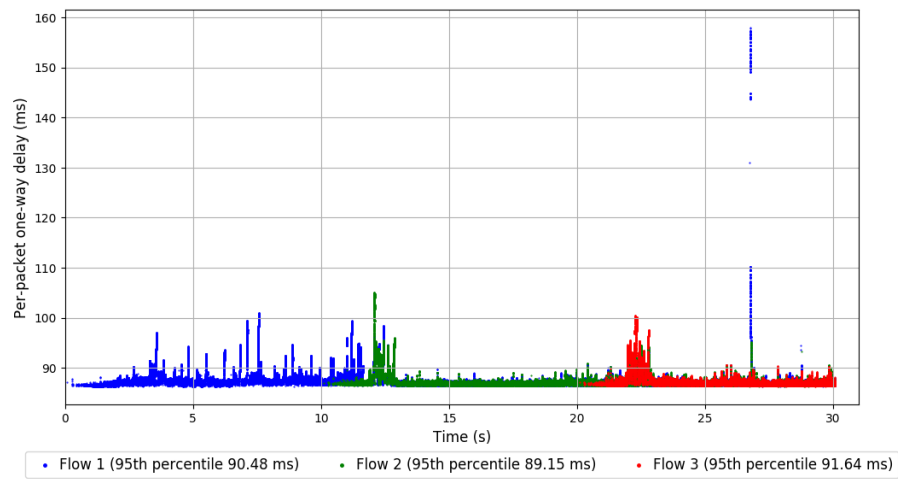
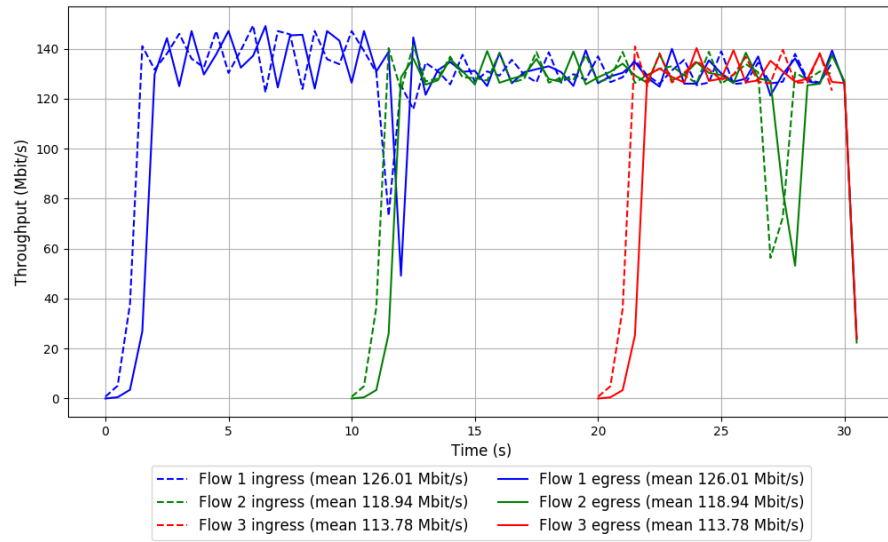


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 04:59:42
End at: 2018-05-22 05:00:12
Local clock offset: -0.328 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-22 06:22:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.05 Mbit/s
95th percentile per-packet one-way delay: 90.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.01 Mbit/s
95th percentile per-packet one-way delay: 90.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 118.94 Mbit/s
95th percentile per-packet one-way delay: 89.152 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.78 Mbit/s
95th percentile per-packet one-way delay: 91.637 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 05:23:13

End at: 2018-05-22 05:23:43

Local clock offset: -0.152 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-05-22 06:22:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.47 Mbit/s

95th percentile per-packet one-way delay: 91.338 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 125.20 Mbit/s

95th percentile per-packet one-way delay: 90.662 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.20 Mbit/s

95th percentile per-packet one-way delay: 92.493 ms

Loss rate: 0.00%

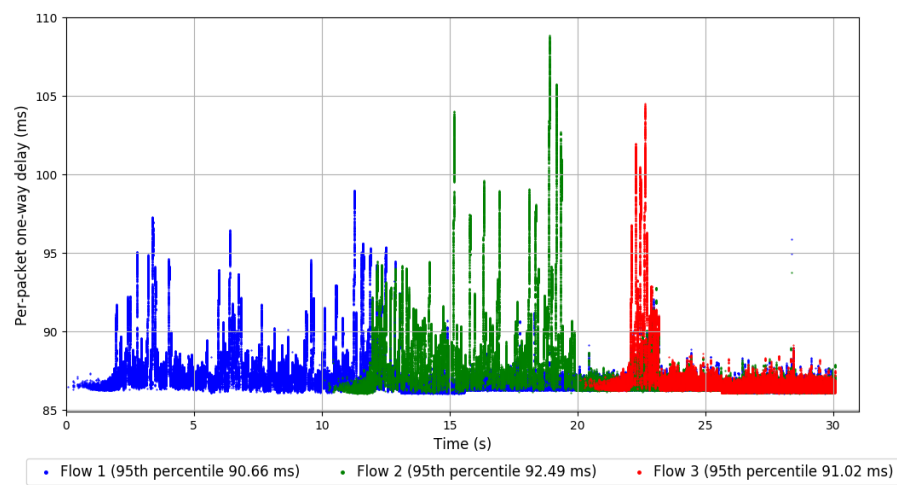
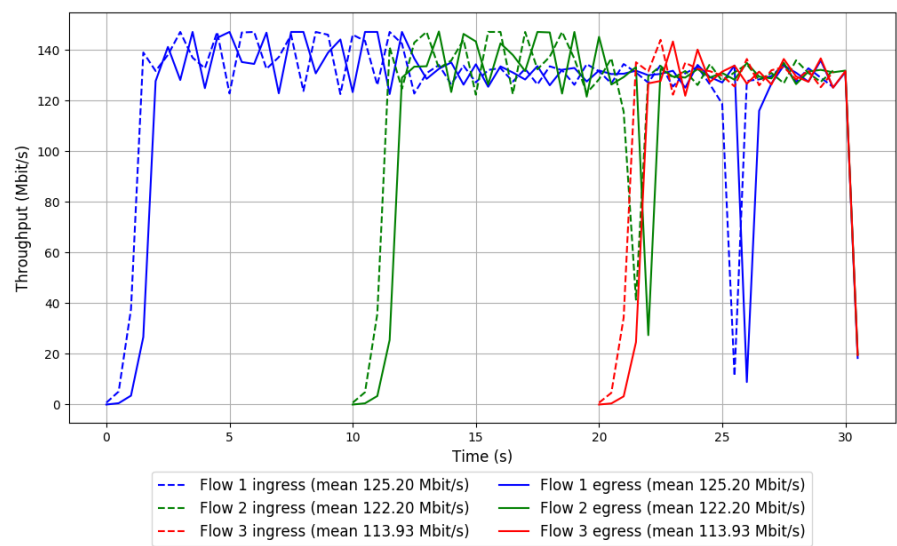
-- Flow 3:

Average throughput: 113.93 Mbit/s

95th percentile per-packet one-way delay: 91.021 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

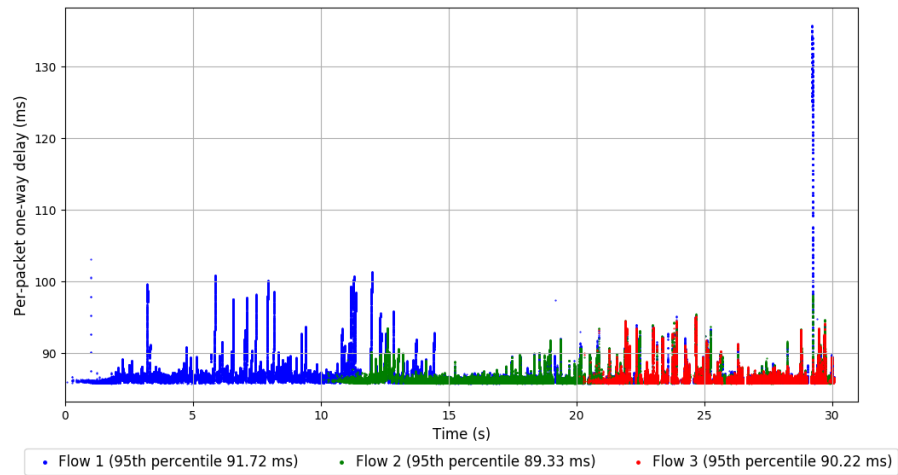
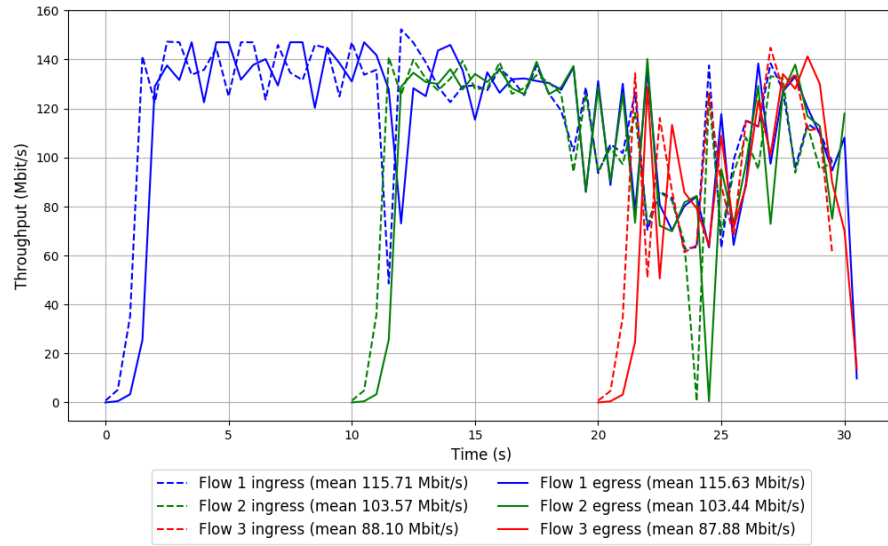


Run 9: Statistics of TCP BBR

Start at: 2018-05-22 05:46:50
End at: 2018-05-22 05:47:20
Local clock offset: 0.085 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-22 06:24:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.41 Mbit/s
95th percentile per-packet one-way delay: 90.504 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 115.63 Mbit/s
95th percentile per-packet one-way delay: 91.720 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 103.44 Mbit/s
95th percentile per-packet one-way delay: 89.333 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 90.215 ms
Loss rate: 0.27%

Run 9: Report of TCP BBR — Data Link

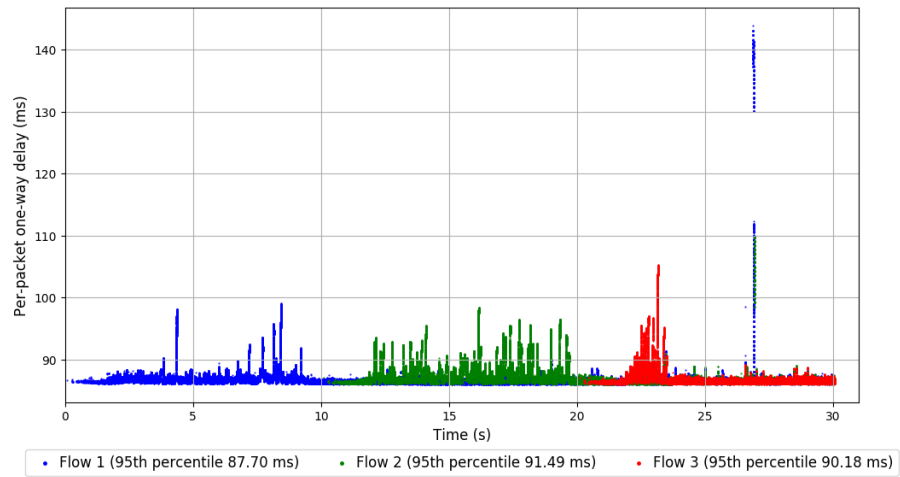
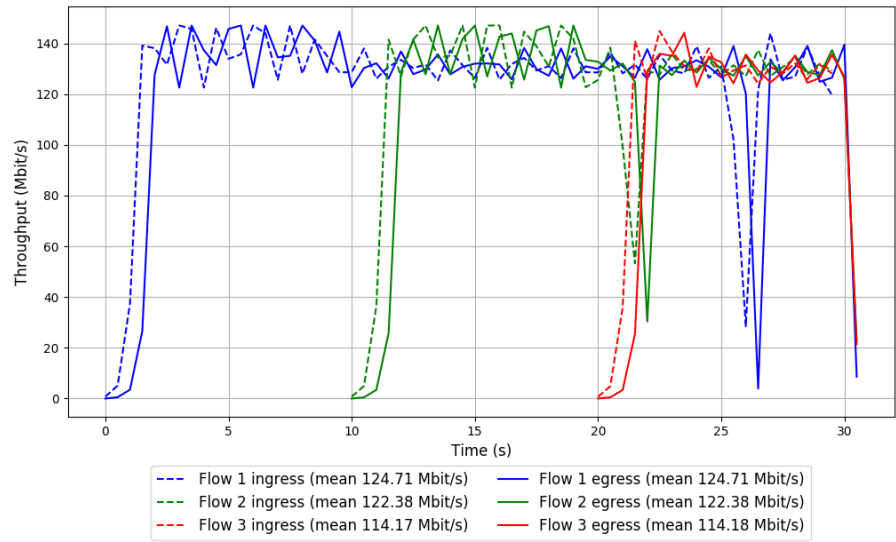


Run 10: Statistics of TCP BBR

Start at: 2018-05-22 06:10:25
End at: 2018-05-22 06:10:55
Local clock offset: -0.136 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-22 06:25:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.18 Mbit/s
95th percentile per-packet one-way delay: 89.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 124.71 Mbit/s
95th percentile per-packet one-way delay: 87.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 122.38 Mbit/s
95th percentile per-packet one-way delay: 91.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.18 Mbit/s
95th percentile per-packet one-way delay: 90.179 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 02:20:27

End at: 2018-05-22 02:20:57

Local clock offset: -0.137 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-05-22 06:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.78 Mbit/s

95th percentile per-packet one-way delay: 95.302 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 143.86 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 98.156 ms

Loss rate: 0.00%

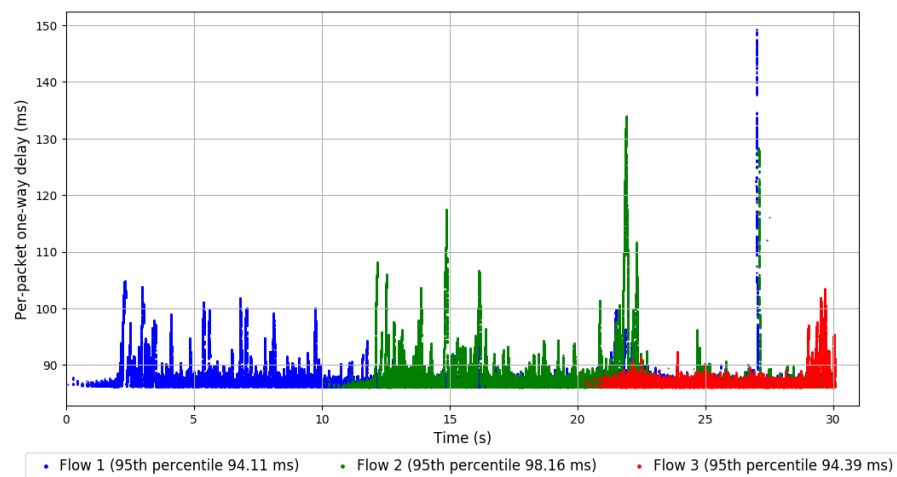
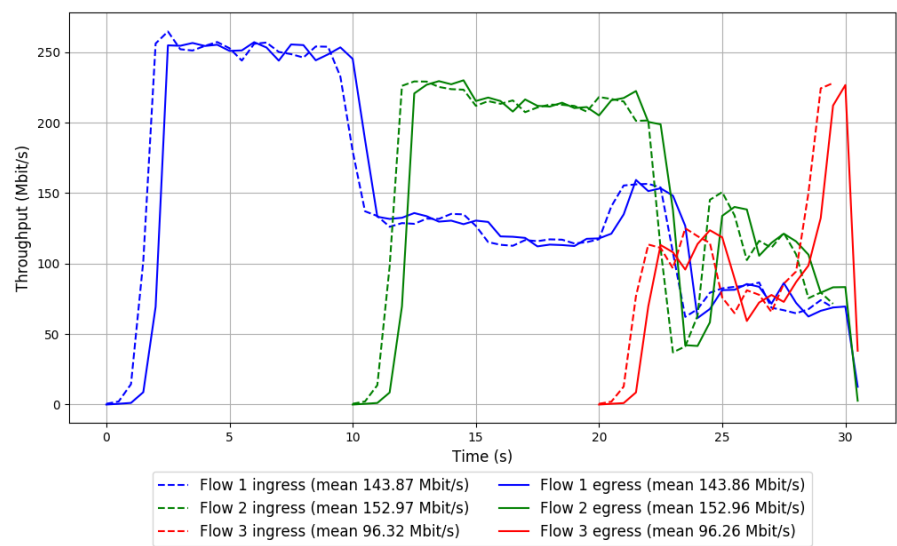
-- Flow 3:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 94.393 ms

Loss rate: 0.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 02:44:05

End at: 2018-05-22 02:44:35

Local clock offset: -0.212 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-22 06:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.57 Mbit/s

95th percentile per-packet one-way delay: 91.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 147.87 Mbit/s

95th percentile per-packet one-way delay: 93.221 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.41 Mbit/s

95th percentile per-packet one-way delay: 88.535 ms

Loss rate: 0.00%

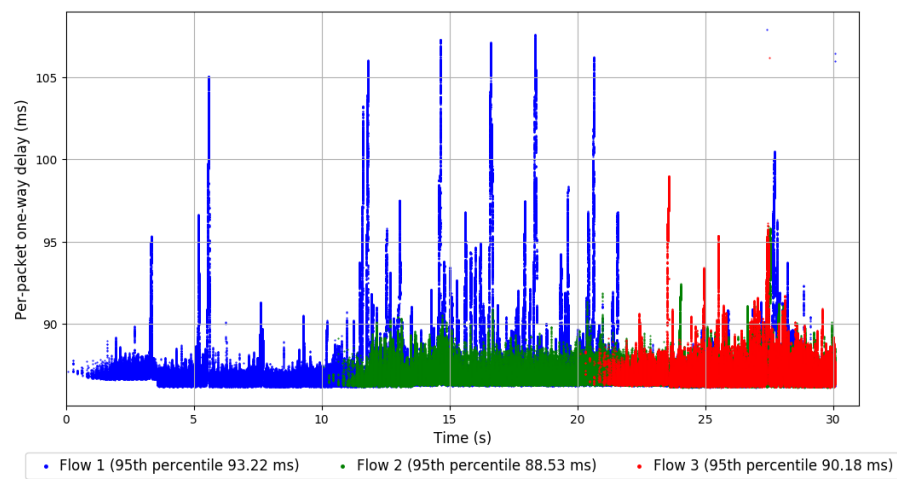
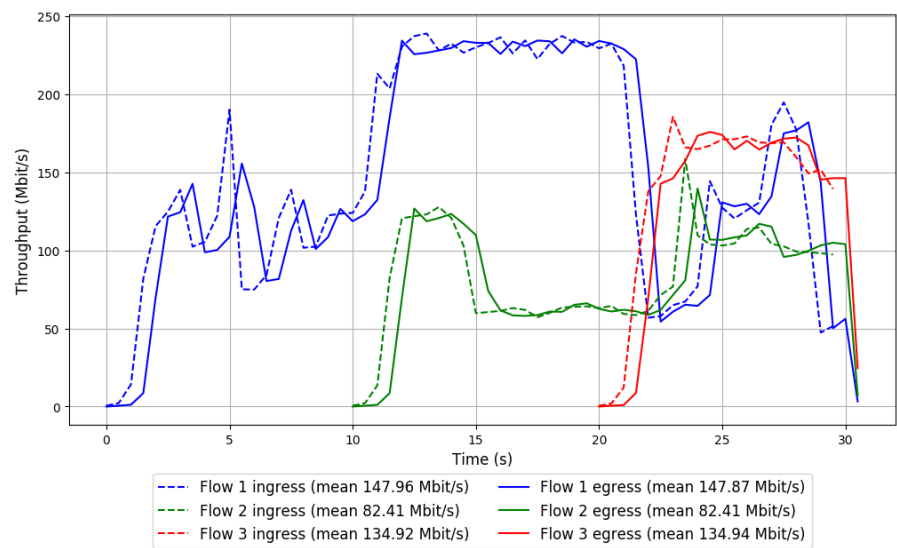
-- Flow 3:

Average throughput: 134.94 Mbit/s

95th percentile per-packet one-way delay: 90.180 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 03:07:59

End at: 2018-05-22 03:08:29

Local clock offset: 0.028 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-22 06:29:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.92 Mbit/s

95th percentile per-packet one-way delay: 96.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 140.61 Mbit/s

95th percentile per-packet one-way delay: 99.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 99.21 Mbit/s

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

Loss rate: 0.00%

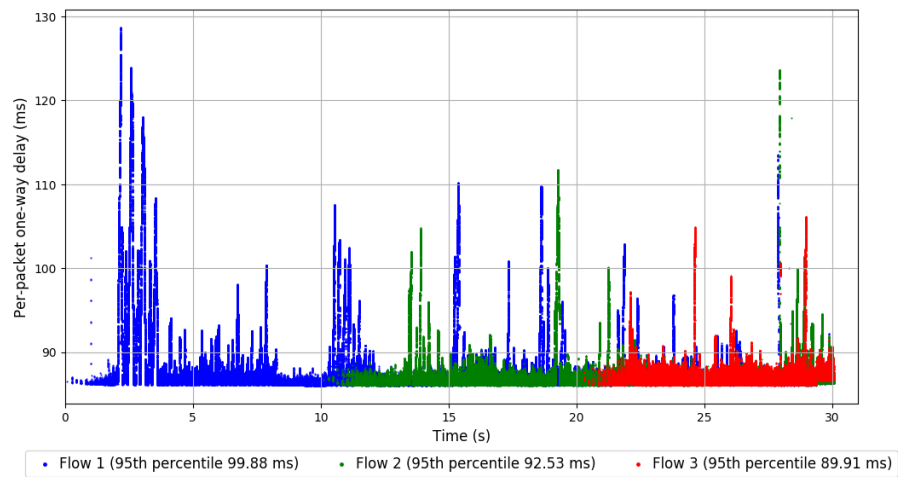
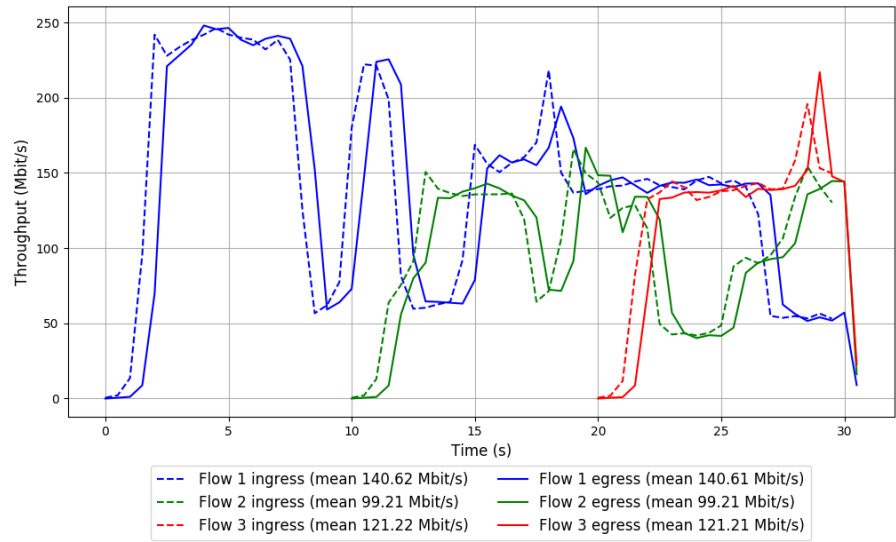
-- Flow 3:

Average throughput: 121.21 Mbit/s

95th percentile per-packet one-way delay: 89.907 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

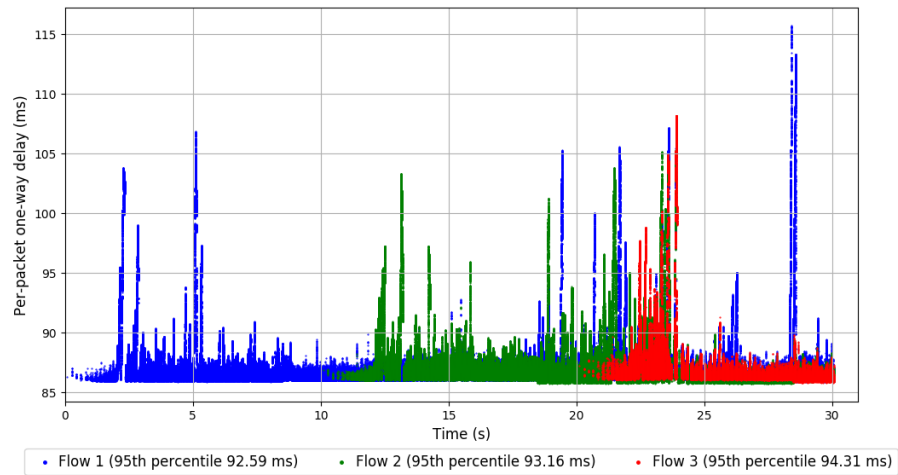
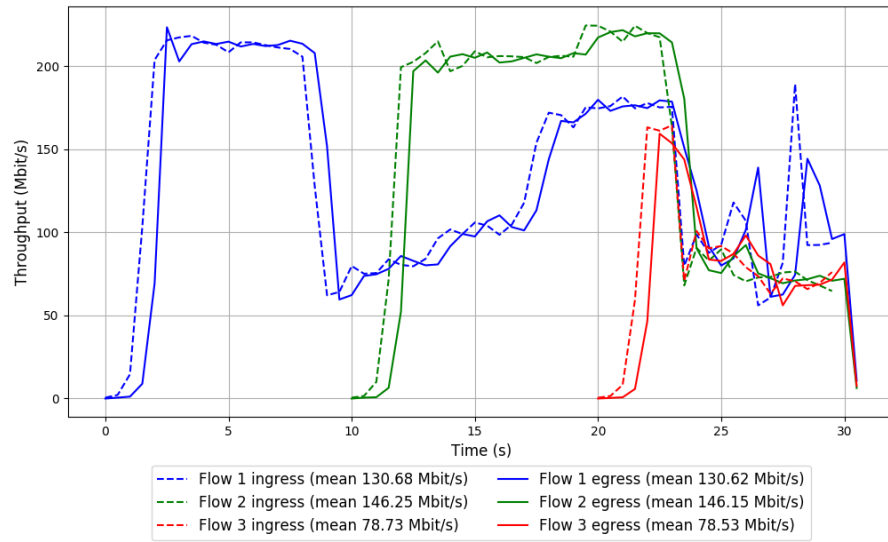


Run 4: Statistics of Copa

Start at: 2018-05-22 03:31:30
End at: 2018-05-22 03:32:00
Local clock offset: 0.089 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-22 06:29:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.08 Mbit/s
95th percentile per-packet one-way delay: 93.110 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 130.62 Mbit/s
95th percentile per-packet one-way delay: 92.593 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 146.15 Mbit/s
95th percentile per-packet one-way delay: 93.157 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 94.314 ms
Loss rate: 0.25%

Run 4: Report of Copa — Data Link

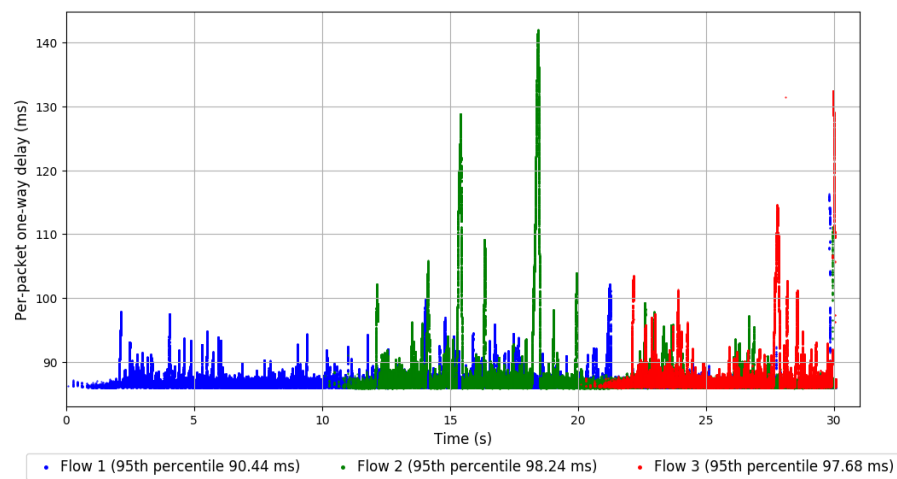
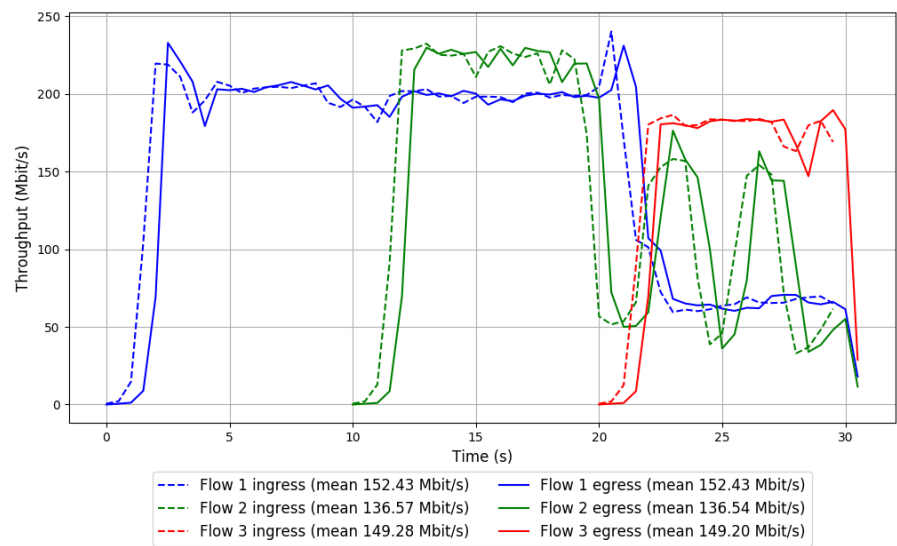


Run 5: Statistics of Copa

Start at: 2018-05-22 03:55:17
End at: 2018-05-22 03:55:47
Local clock offset: 0.109 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-05-22 06:30:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 93.124 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 152.43 Mbit/s
95th percentile per-packet one-way delay: 90.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.54 Mbit/s
95th percentile per-packet one-way delay: 98.240 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 149.20 Mbit/s
95th percentile per-packet one-way delay: 97.679 ms
Loss rate: 0.05%

Run 5: Report of Copa — Data Link

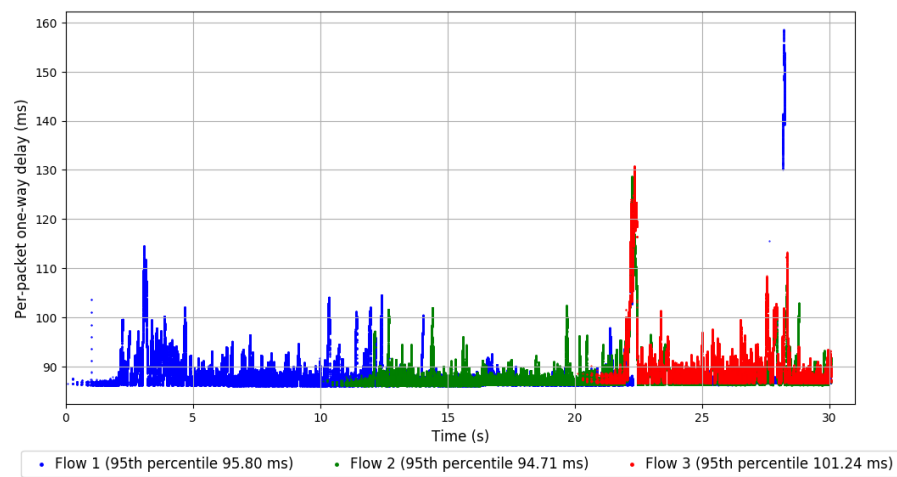
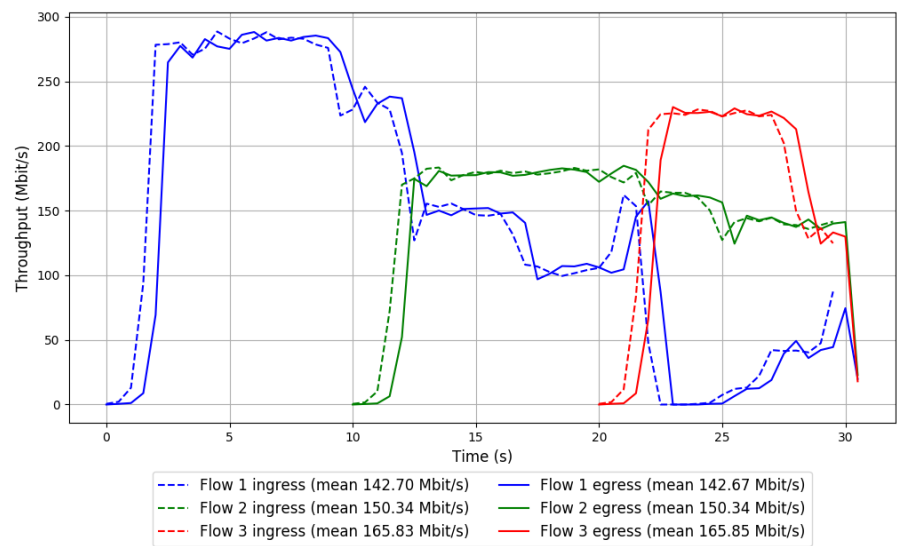


Run 6: Statistics of Copa

Start at: 2018-05-22 04:19:02
End at: 2018-05-22 04:19:32
Local clock offset: -0.098 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-05-22 06:30:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.86 Mbit/s
95th percentile per-packet one-way delay: 96.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.67 Mbit/s
95th percentile per-packet one-way delay: 95.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.34 Mbit/s
95th percentile per-packet one-way delay: 94.714 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.85 Mbit/s
95th percentile per-packet one-way delay: 101.237 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link

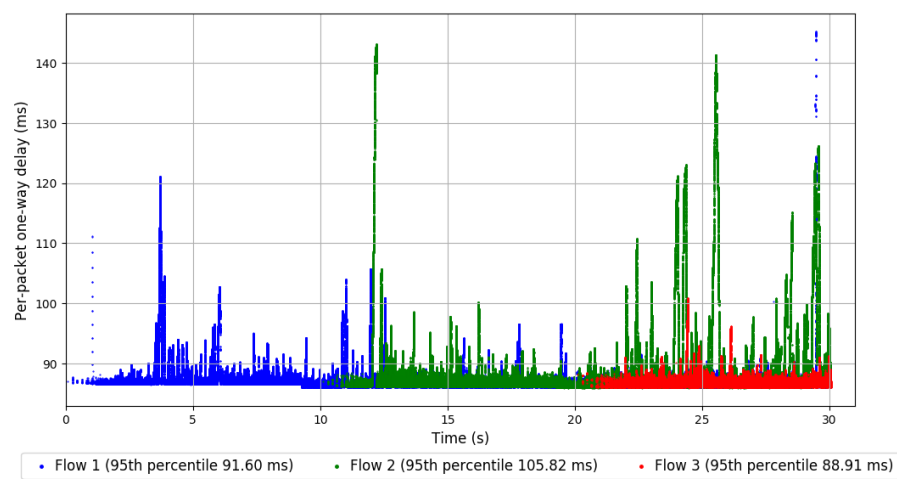
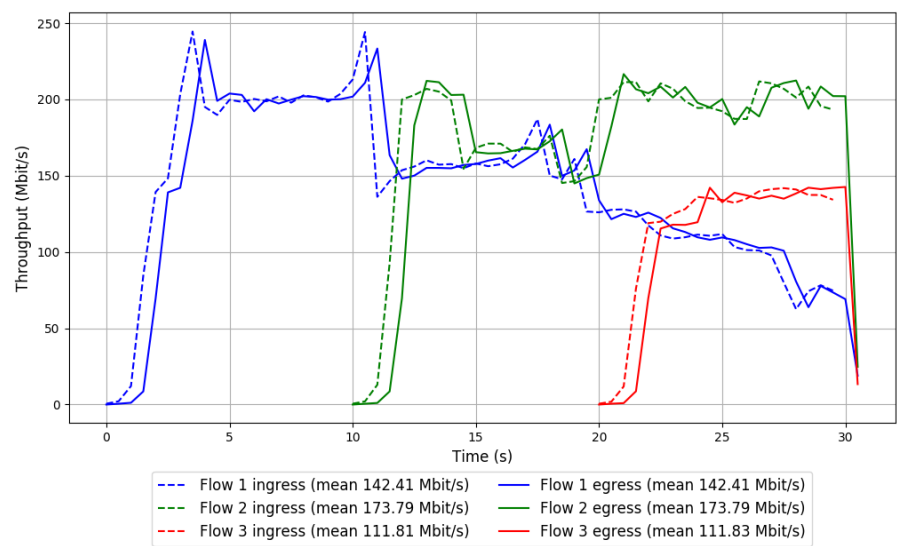


Run 7: Statistics of Copa

Start at: 2018-05-22 04:42:39
End at: 2018-05-22 04:43:09
Local clock offset: -0.089 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-05-22 06:33:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.21 Mbit/s
95th percentile per-packet one-way delay: 95.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.41 Mbit/s
95th percentile per-packet one-way delay: 91.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.79 Mbit/s
95th percentile per-packet one-way delay: 105.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 111.83 Mbit/s
95th percentile per-packet one-way delay: 88.912 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

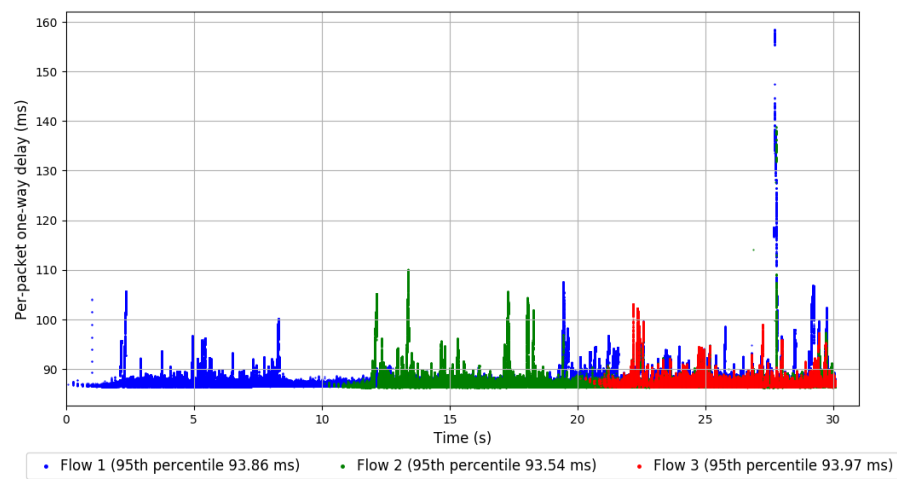
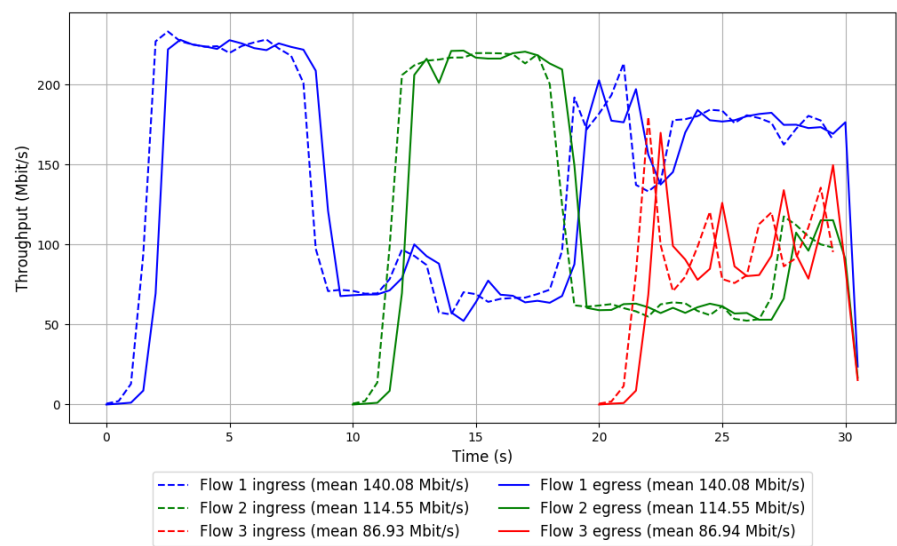


Run 8: Statistics of Copa

Start at: 2018-05-22 05:06:21
End at: 2018-05-22 05:06:51
Local clock offset: -0.313 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-05-22 06:33:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.27 Mbit/s
95th percentile per-packet one-way delay: 93.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.08 Mbit/s
95th percentile per-packet one-way delay: 93.856 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.55 Mbit/s
95th percentile per-packet one-way delay: 93.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 93.973 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 05:29:53

End at: 2018-05-22 05:30:23

Local clock offset: -0.11 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-22 06:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 257.59 Mbit/s

95th percentile per-packet one-way delay: 97.164 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.24 Mbit/s

95th percentile per-packet one-way delay: 91.789 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.13 Mbit/s

95th percentile per-packet one-way delay: 101.117 ms

Loss rate: 0.00%

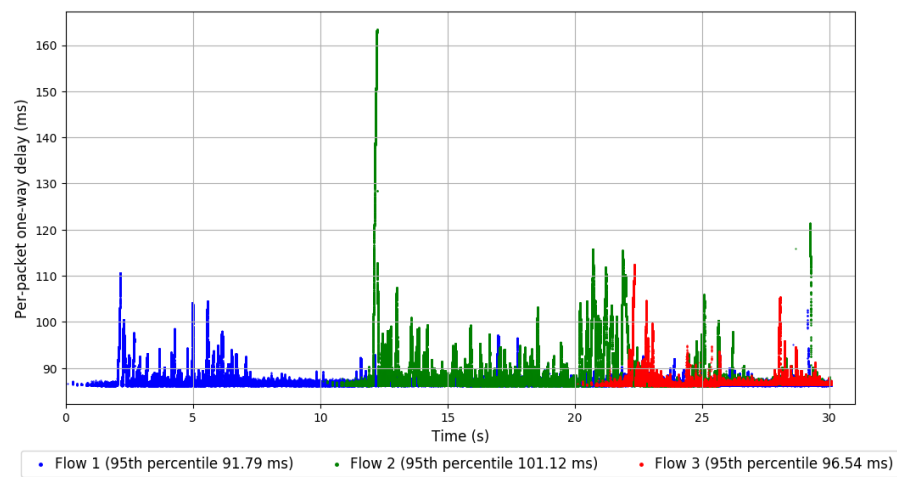
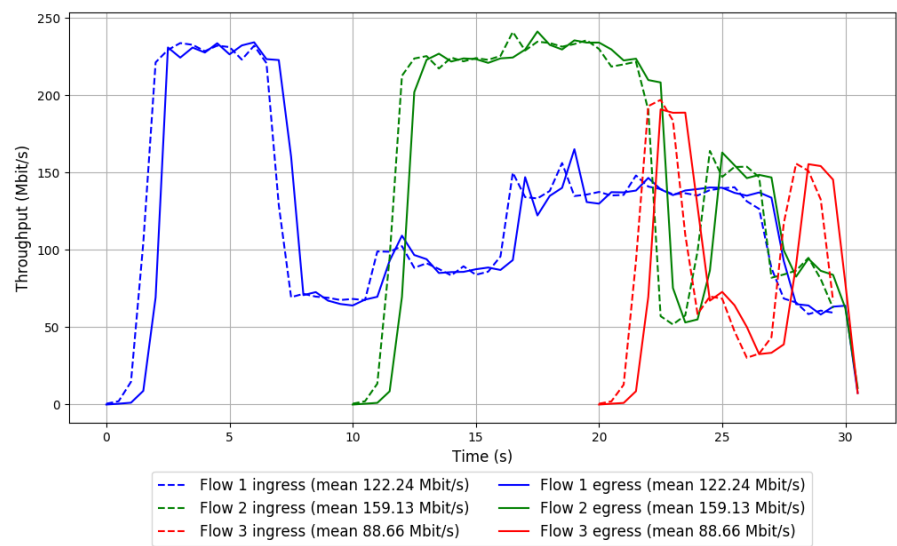
-- Flow 3:

Average throughput: 88.66 Mbit/s

95th percentile per-packet one-way delay: 96.543 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

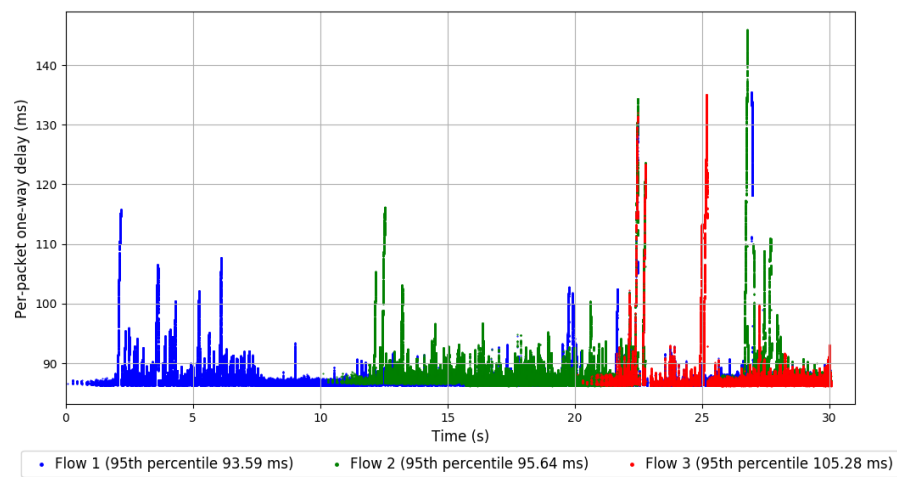
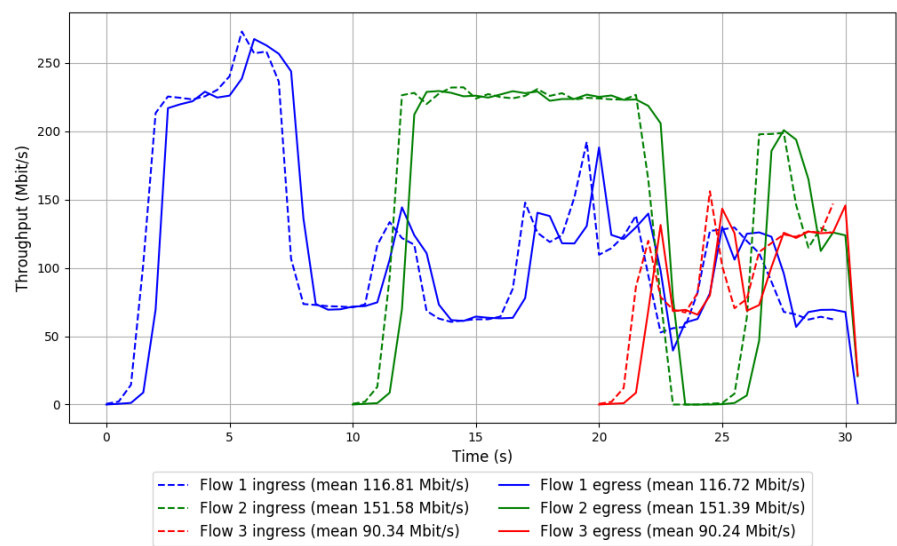


Run 10: Statistics of Copa

Start at: 2018-05-22 05:53:33
End at: 2018-05-22 05:54:03
Local clock offset: -0.327 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-05-22 06:36:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.44 Mbit/s
95th percentile per-packet one-way delay: 95.006 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 116.72 Mbit/s
95th percentile per-packet one-way delay: 93.590 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 151.39 Mbit/s
95th percentile per-packet one-way delay: 95.640 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 105.282 ms
Loss rate: 0.13%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-05-22 02:22:35

Local clock offset: 0.016 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-05-22 06:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.81 Mbit/s

95th percentile per-packet one-way delay: 99.942 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 118.20 Mbit/s

95th percentile per-packet one-way delay: 99.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.92 Mbit/s

95th percentile per-packet one-way delay: 94.634 ms

Loss rate: 0.03%

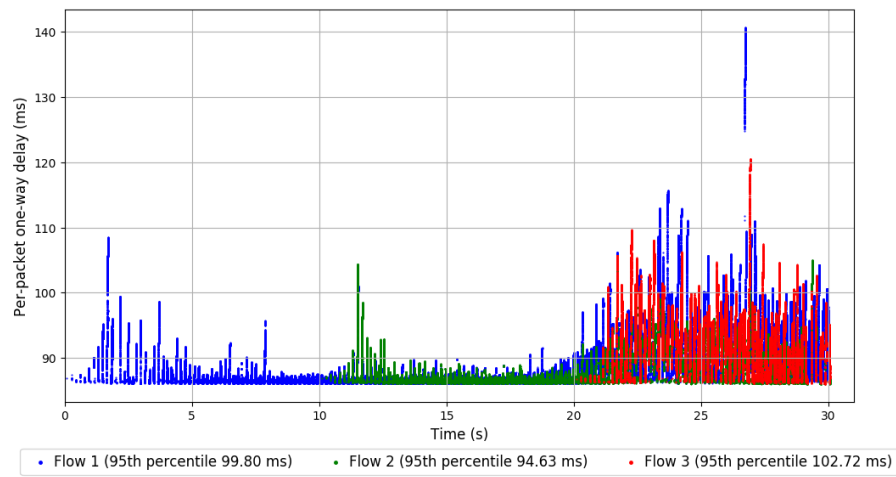
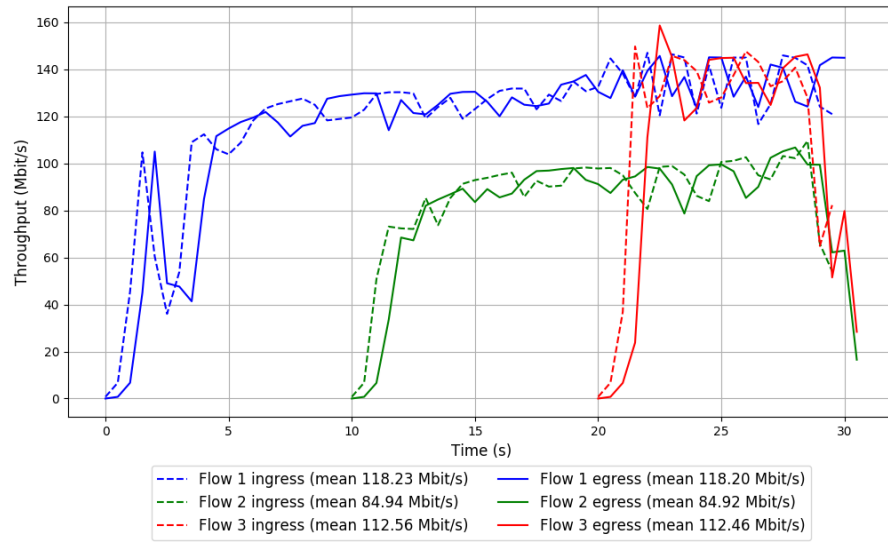
-- Flow 3:

Average throughput: 112.46 Mbit/s

95th percentile per-packet one-way delay: 102.715 ms

Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 02:45:47

End at: 2018-05-22 02:46:17

Local clock offset: 0.096 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-22 06:36:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.10 Mbit/s

95th percentile per-packet one-way delay: 98.874 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.61 Mbit/s

95th percentile per-packet one-way delay: 98.555 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 129.69 Mbit/s

95th percentile per-packet one-way delay: 99.701 ms

Loss rate: 0.00%

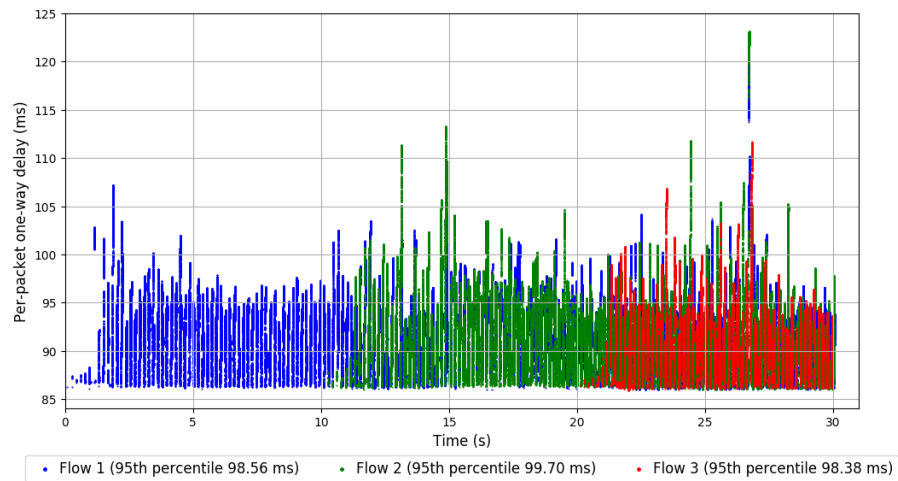
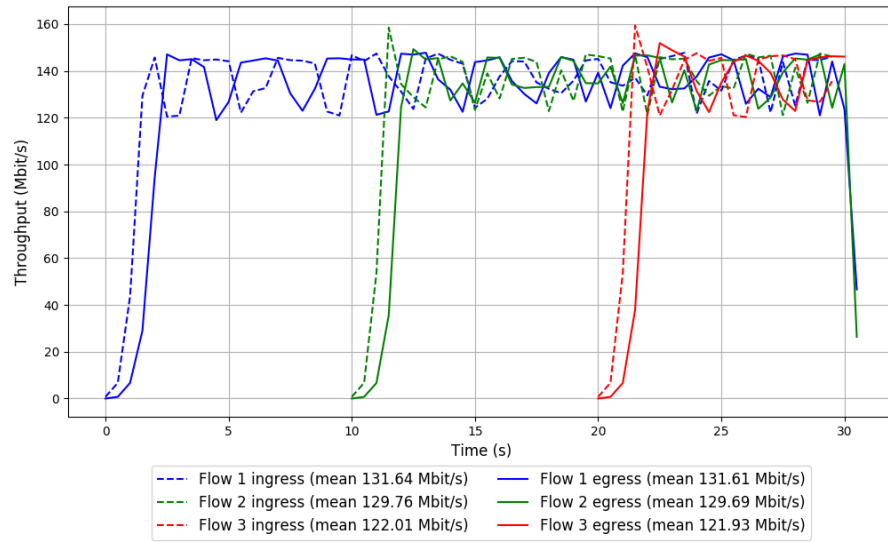
-- Flow 3:

Average throughput: 121.93 Mbit/s

95th percentile per-packet one-way delay: 98.382 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

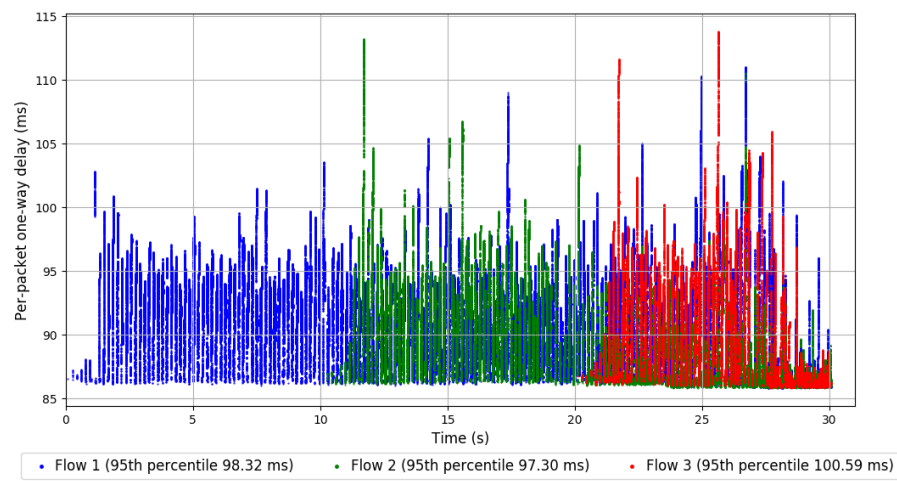
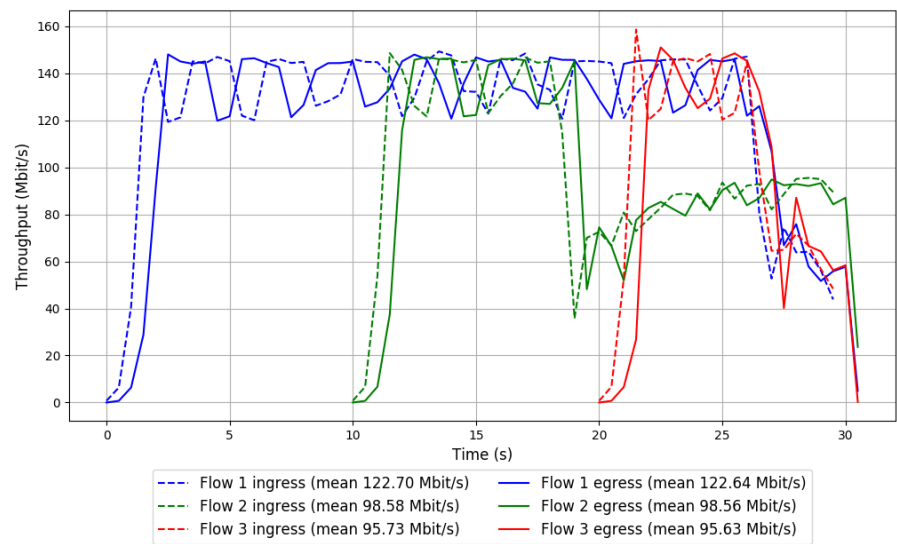


Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 03:09:35
End at: 2018-05-22 03:10:05
Local clock offset: 0.244 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-22 06:36:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.05 Mbit/s
95th percentile per-packet one-way delay: 98.370 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 122.64 Mbit/s
95th percentile per-packet one-way delay: 98.316 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 98.56 Mbit/s
95th percentile per-packet one-way delay: 97.300 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 100.592 ms
Loss rate: 0.11%

Run 3: Report of TCP Cubic — Data Link

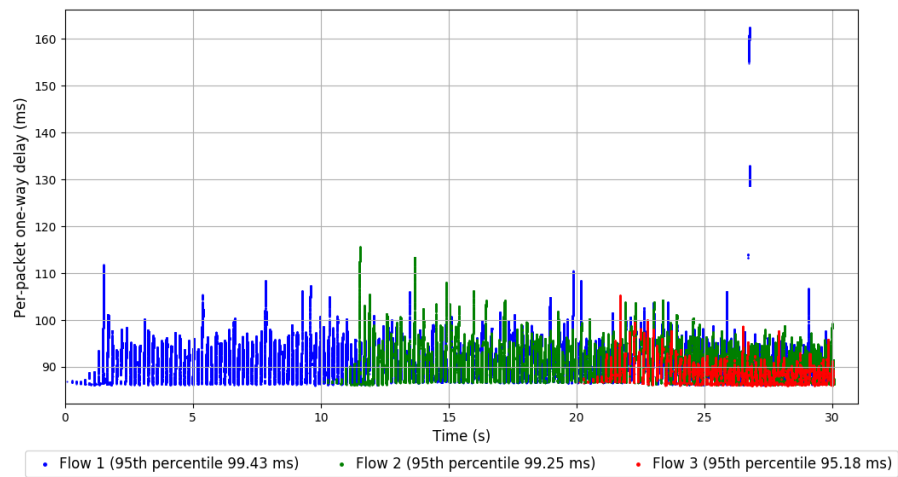
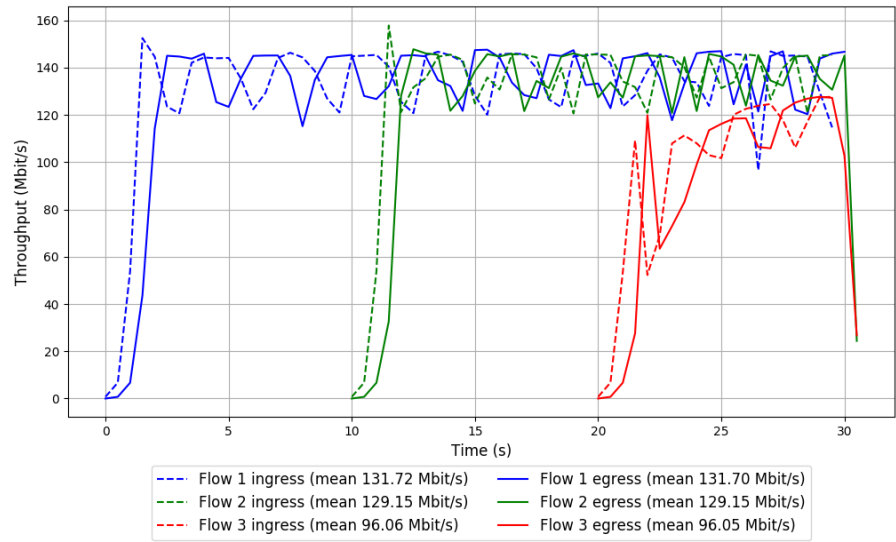


Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 03:33:06
End at: 2018-05-22 03:33:36
Local clock offset: 0.104 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-05-22 06:36:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 249.13 Mbit/s
95th percentile per-packet one-way delay: 99.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.70 Mbit/s
95th percentile per-packet one-way delay: 99.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 129.15 Mbit/s
95th percentile per-packet one-way delay: 99.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 95.176 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

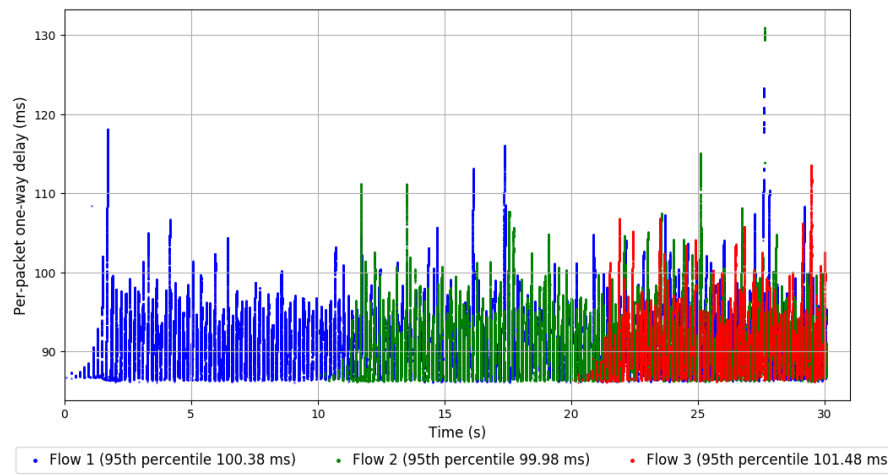
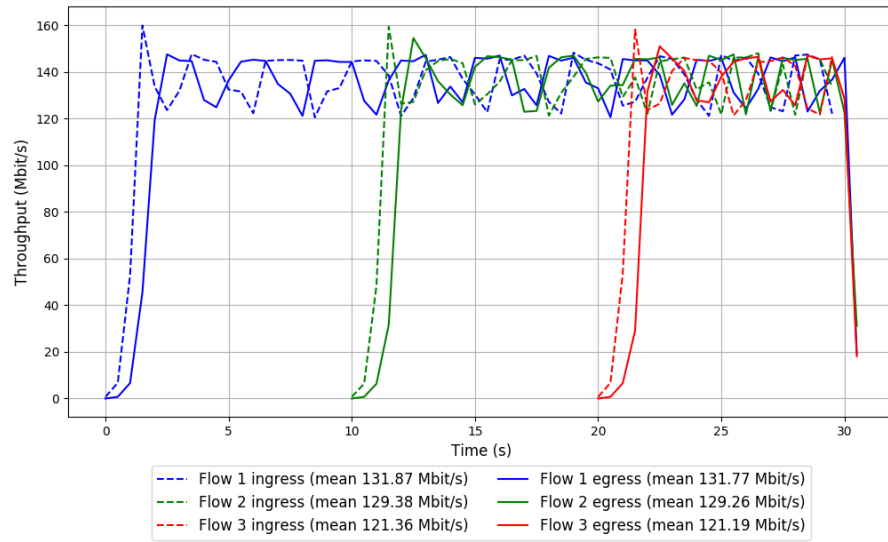


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 03:56:57
End at: 2018-05-22 03:57:27
Local clock offset: 0.145 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-05-22 06:36:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.97 Mbit/s
95th percentile per-packet one-way delay: 100.320 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 131.77 Mbit/s
95th percentile per-packet one-way delay: 100.380 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 129.26 Mbit/s
95th percentile per-packet one-way delay: 99.979 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 121.19 Mbit/s
95th percentile per-packet one-way delay: 101.476 ms
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link

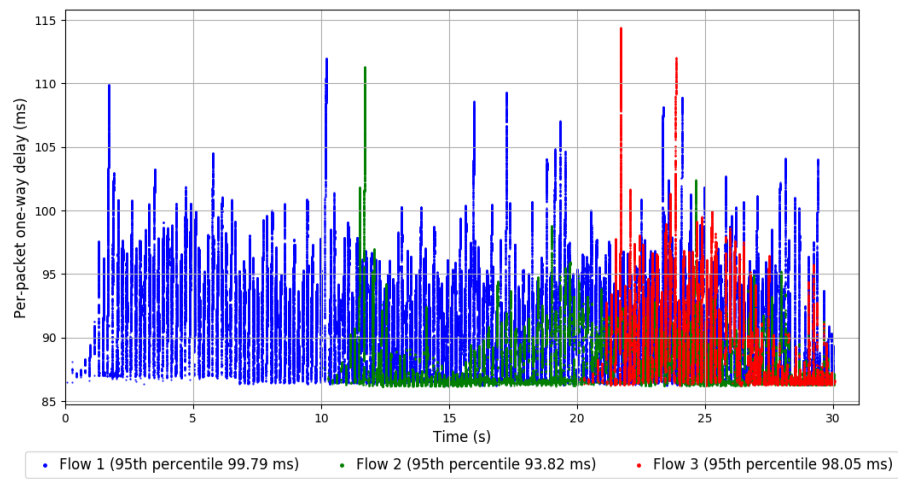
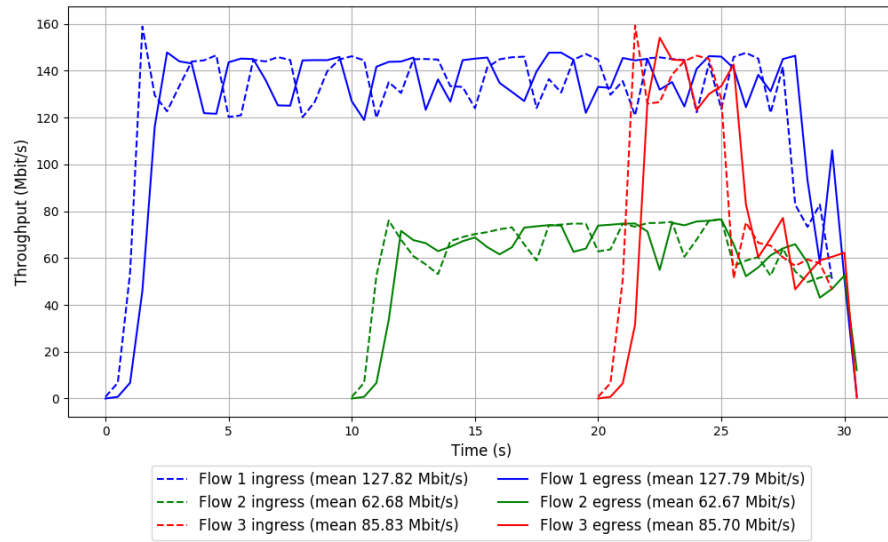


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 04:20:42
End at: 2018-05-22 04:21:12
Local clock offset: -0.065 ms
Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-05-22 06:36:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 197.69 Mbit/s
95th percentile per-packet one-way delay: 99.128 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 127.79 Mbit/s
95th percentile per-packet one-way delay: 99.786 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 93.819 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 98.047 ms
Loss rate: 0.14%

Run 6: Report of TCP Cubic — Data Link

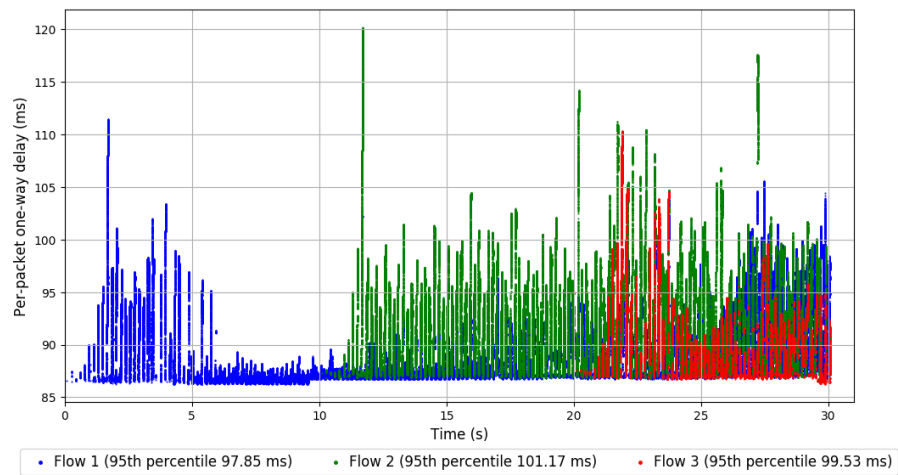
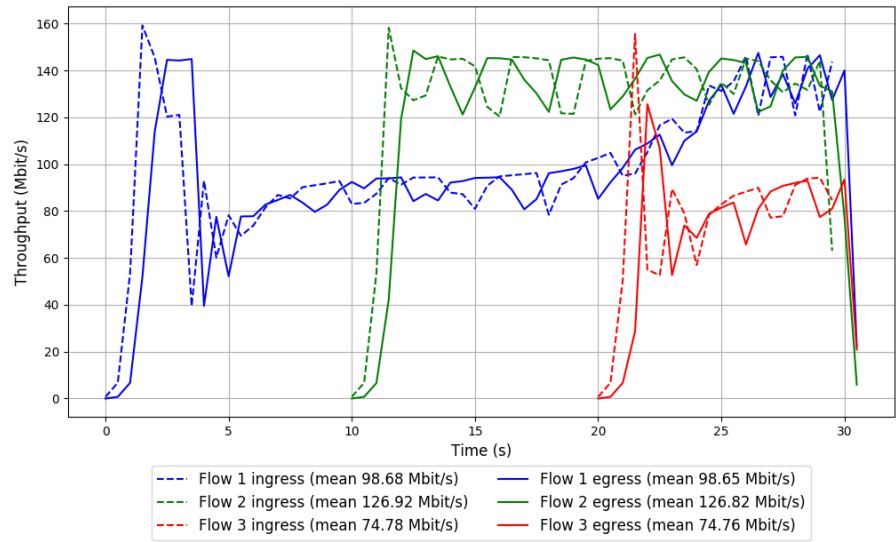


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 04:44:19
End at: 2018-05-22 04:44:49
Local clock offset: -0.29 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-05-22 06:37:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 99.745 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 98.65 Mbit/s
95th percentile per-packet one-way delay: 97.850 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 126.82 Mbit/s
95th percentile per-packet one-way delay: 101.171 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 99.528 ms
Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link

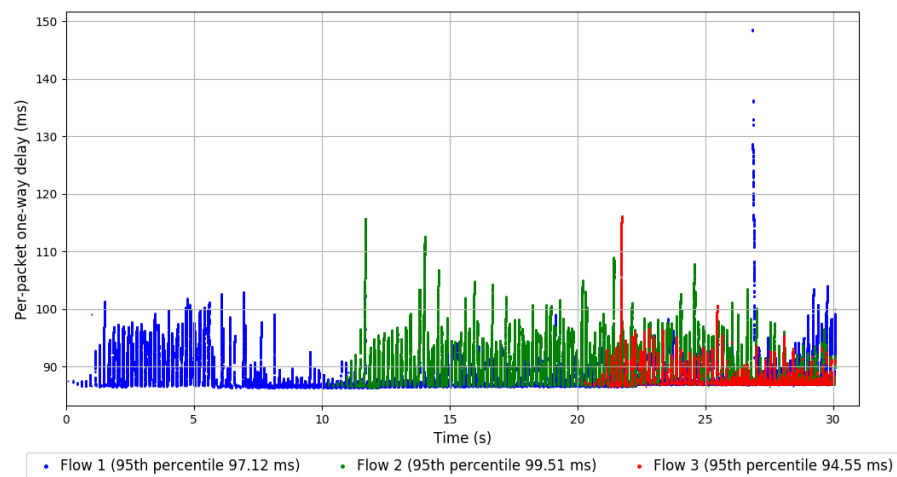
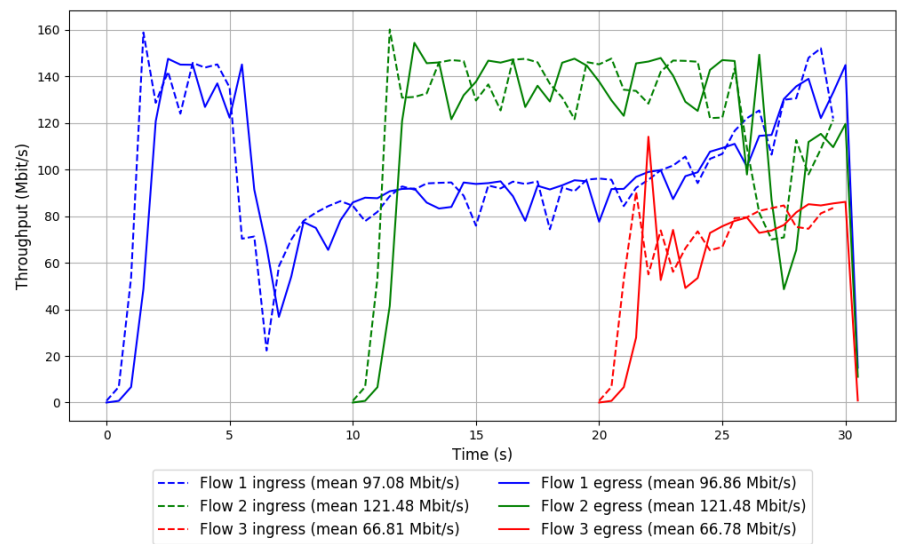


Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 05:07:56
End at: 2018-05-22 05:08:26
Local clock offset: -0.334 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-05-22 06:37:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 199.96 Mbit/s
95th percentile per-packet one-way delay: 97.924 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 97.125 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 121.48 Mbit/s
95th percentile per-packet one-way delay: 99.514 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.78 Mbit/s
95th percentile per-packet one-way delay: 94.550 ms
Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 05:31:29

End at: 2018-05-22 05:31:59

Local clock offset: -0.352 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-22 06:38:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.35 Mbit/s

95th percentile per-packet one-way delay: 100.091 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 132.07 Mbit/s

95th percentile per-packet one-way delay: 99.708 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 129.92 Mbit/s

95th percentile per-packet one-way delay: 100.817 ms

Loss rate: 0.00%

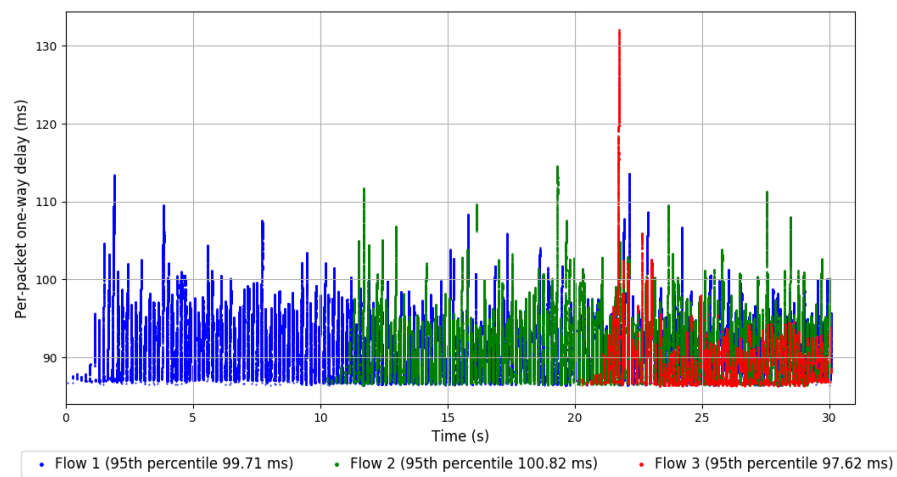
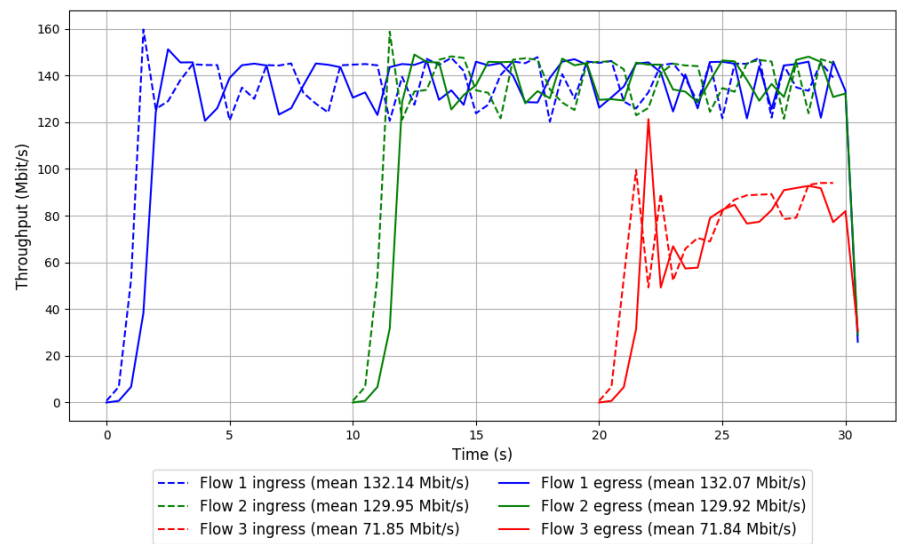
-- Flow 3:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 97.623 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 05:55:08

End at: 2018-05-22 05:55:38

Local clock offset: -0.307 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-05-22 06:38:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 212.07 Mbit/s

95th percentile per-packet one-way delay: 100.112 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 131.45 Mbit/s

95th percentile per-packet one-way delay: 100.812 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 94.887 ms

Loss rate: 0.01%

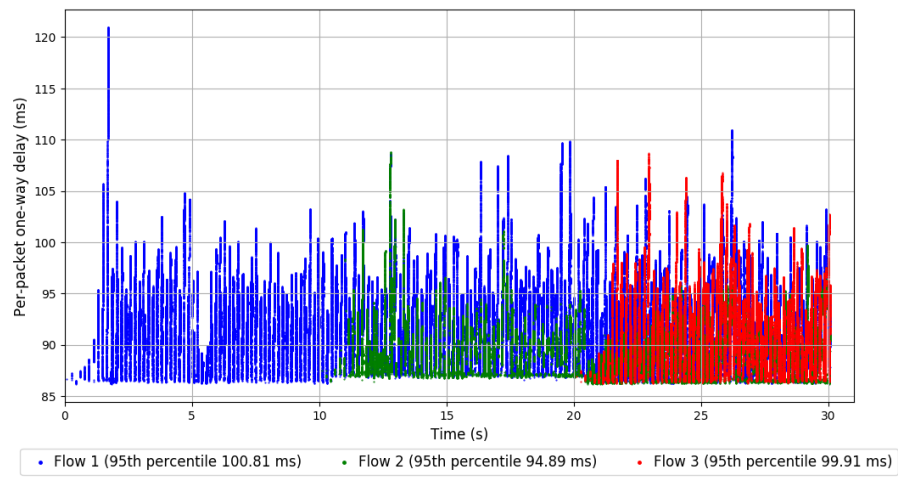
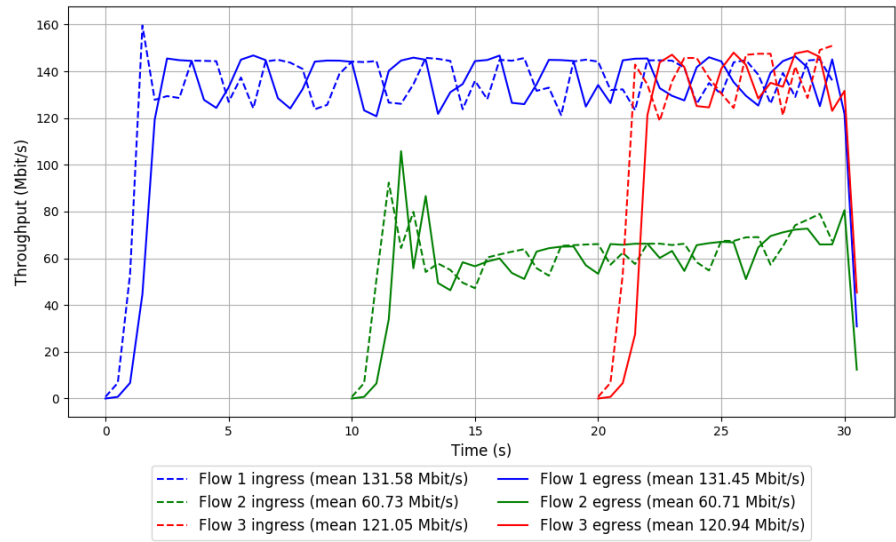
-- Flow 3:

Average throughput: 120.94 Mbit/s

95th percentile per-packet one-way delay: 99.907 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-22 02:35:29

End at: 2018-05-22 02:35:59

Local clock offset: -0.339 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-05-22 06:57:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 1104.97 Mbit/s

95th percentile per-packet one-way delay: 276.697 ms

Loss rate: 6.18%

-- Flow 1:

Average throughput: 575.19 Mbit/s

95th percentile per-packet one-way delay: 292.467 ms

Loss rate: 6.08%

-- Flow 2:

Average throughput: 520.57 Mbit/s

95th percentile per-packet one-way delay: 277.274 ms

Loss rate: 4.85%

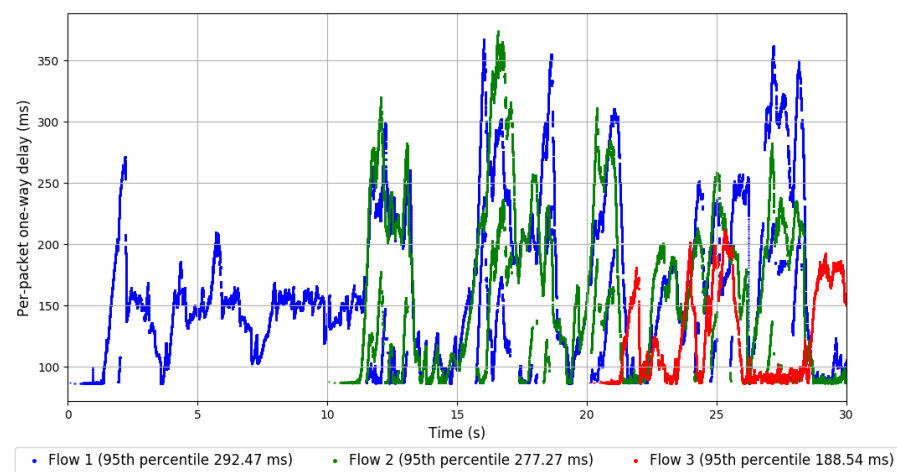
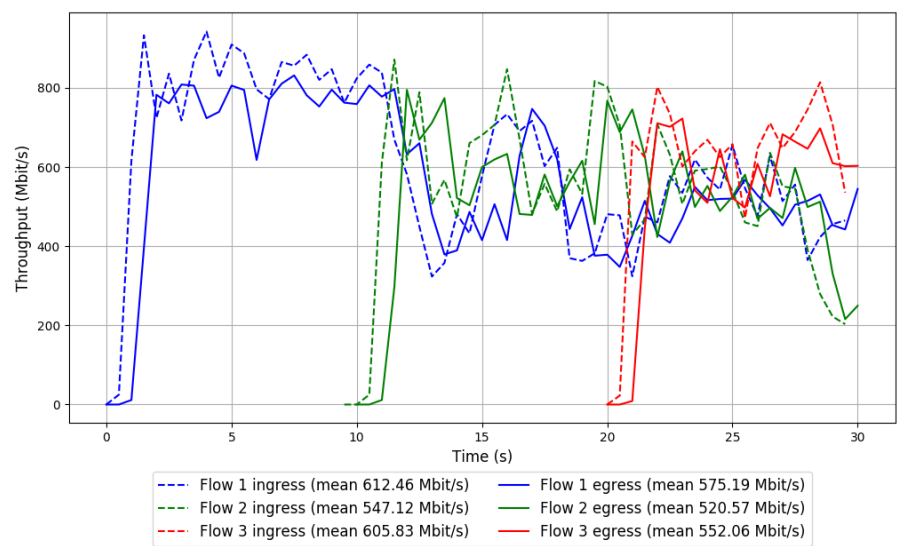
-- Flow 3:

Average throughput: 552.06 Mbit/s

95th percentile per-packet one-way delay: 188.543 ms

Loss rate: 8.87%

Run 1: Report of FillP — Data Link

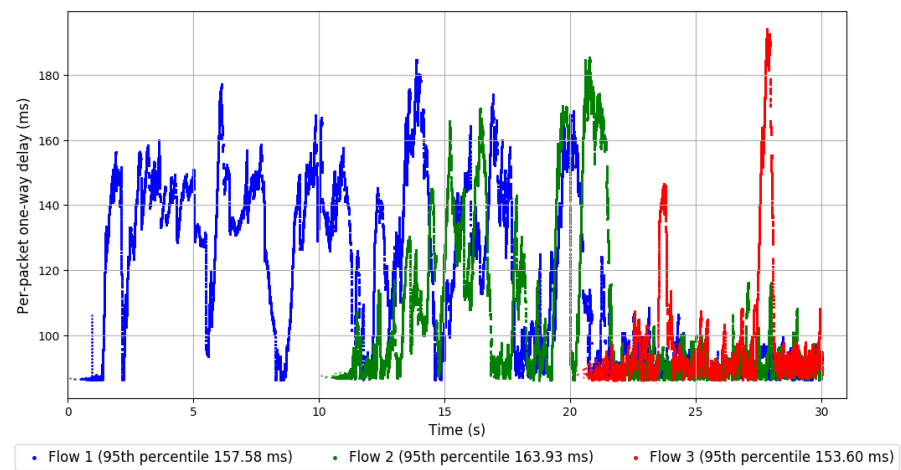
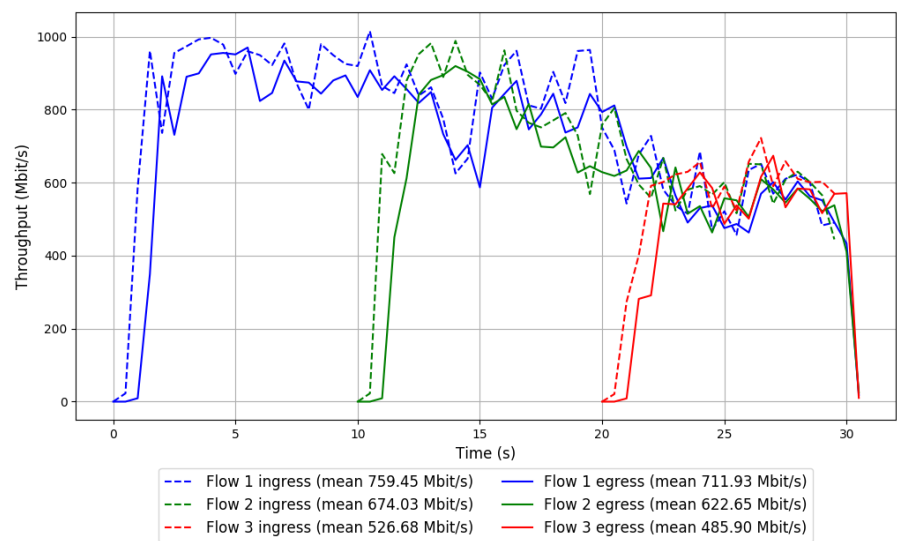


Run 2: Statistics of FillP

Start at: 2018-05-22 02:59:11
End at: 2018-05-22 02:59:41
Local clock offset: -0.213 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-22 07:02:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 1287.34 Mbit/s
95th percentile per-packet one-way delay: 159.637 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 711.93 Mbit/s
95th percentile per-packet one-way delay: 157.576 ms
Loss rate: 6.23%
-- Flow 2:
Average throughput: 622.65 Mbit/s
95th percentile per-packet one-way delay: 163.931 ms
Loss rate: 7.62%
-- Flow 3:
Average throughput: 485.90 Mbit/s
95th percentile per-packet one-way delay: 153.602 ms
Loss rate: 7.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-22 03:22:52

End at: 2018-05-22 03:23:22

Local clock offset: 0.023 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-05-22 07:02:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1127.35 Mbit/s

95th percentile per-packet one-way delay: 207.072 ms

Loss rate: 10.22%

-- Flow 1:

Average throughput: 609.67 Mbit/s

95th percentile per-packet one-way delay: 198.592 ms

Loss rate: 9.43%

-- Flow 2:

Average throughput: 541.58 Mbit/s

95th percentile per-packet one-way delay: 244.308 ms

Loss rate: 11.29%

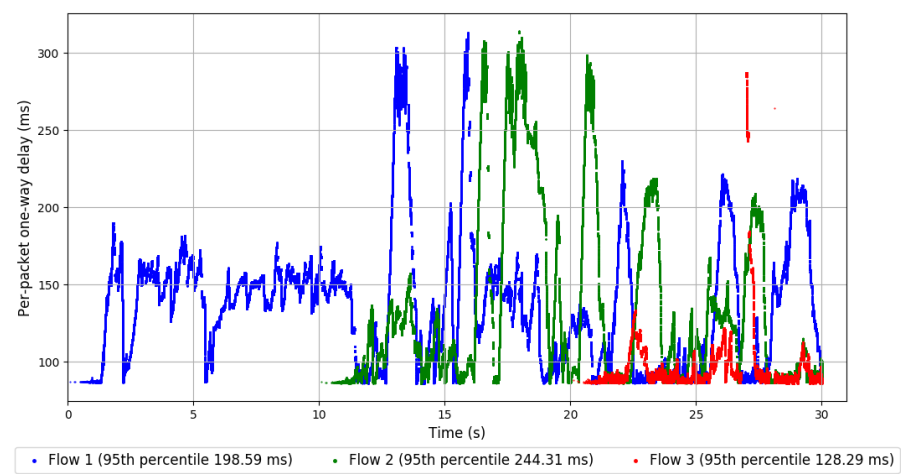
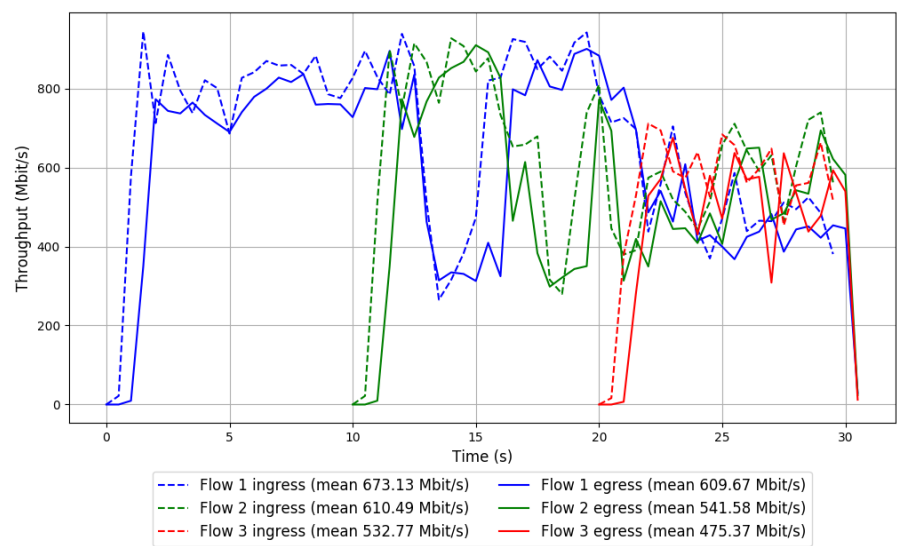
-- Flow 3:

Average throughput: 475.37 Mbit/s

95th percentile per-packet one-way delay: 128.294 ms

Loss rate: 10.79%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-22 03:46:29

End at: 2018-05-22 03:46:59

Local clock offset: -0.116 ms

Remote clock offset: -0.29 ms

Below is generated by plot.py at 2018-05-22 07:02:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1199.67 Mbit/s

95th percentile per-packet one-way delay: 201.021 ms

Loss rate: 6.12%

-- Flow 1:

Average throughput: 666.44 Mbit/s

95th percentile per-packet one-way delay: 173.018 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 573.58 Mbit/s

95th percentile per-packet one-way delay: 212.728 ms

Loss rate: 6.00%

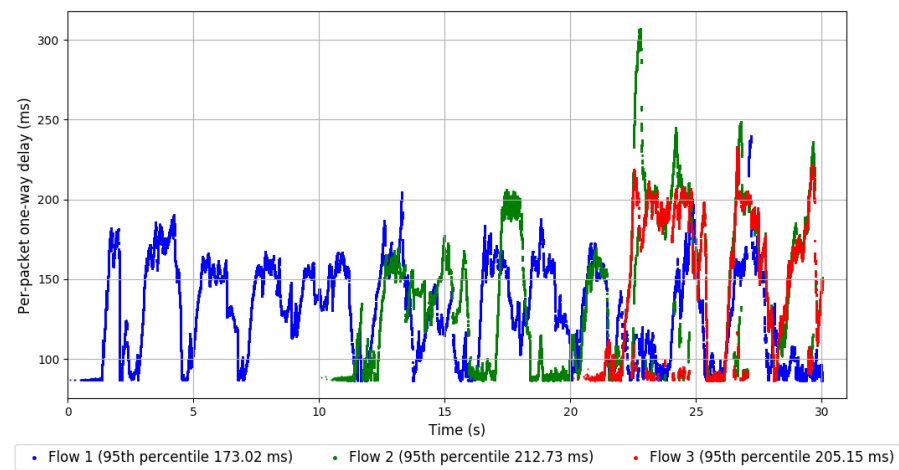
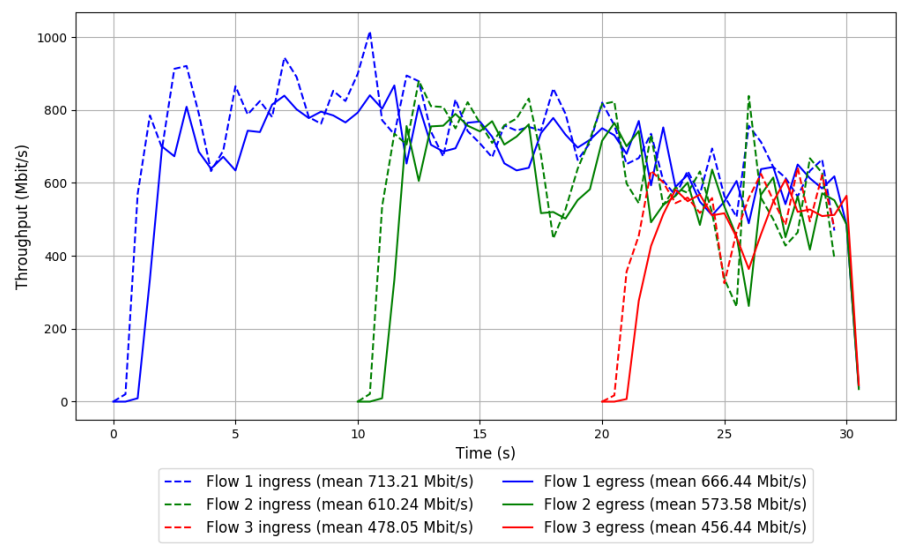
-- Flow 3:

Average throughput: 456.44 Mbit/s

95th percentile per-packet one-way delay: 205.150 ms

Loss rate: 4.50%

Run 4: Report of FillP — Data Link

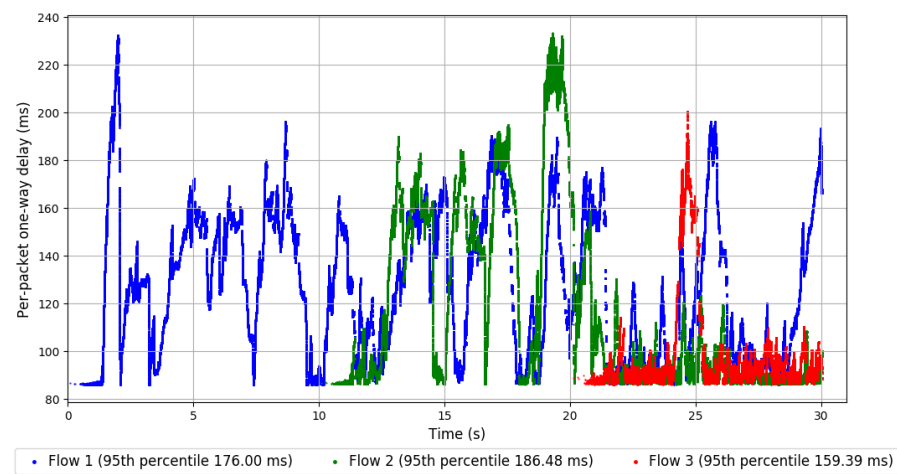
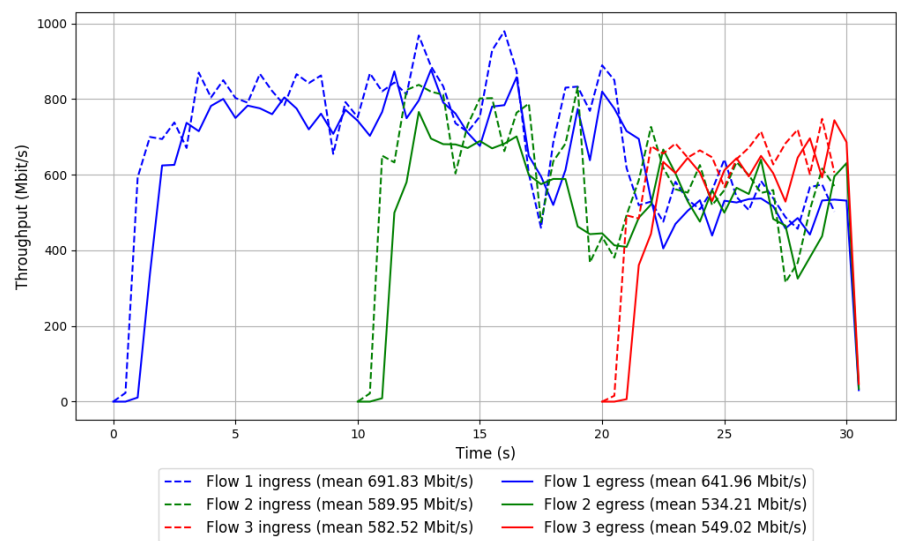


Run 5: Statistics of FillP

Start at: 2018-05-22 04:10:18
End at: 2018-05-22 04:10:48
Local clock offset: 0.131 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-05-22 07:02:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 1179.10 Mbit/s
95th percentile per-packet one-way delay: 178.327 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 641.96 Mbit/s
95th percentile per-packet one-way delay: 176.005 ms
Loss rate: 7.20%
-- Flow 2:
Average throughput: 534.21 Mbit/s
95th percentile per-packet one-way delay: 186.480 ms
Loss rate: 9.44%
-- Flow 3:
Average throughput: 549.02 Mbit/s
95th percentile per-packet one-way delay: 159.394 ms
Loss rate: 5.77%

Run 5: Report of FillP — Data Link

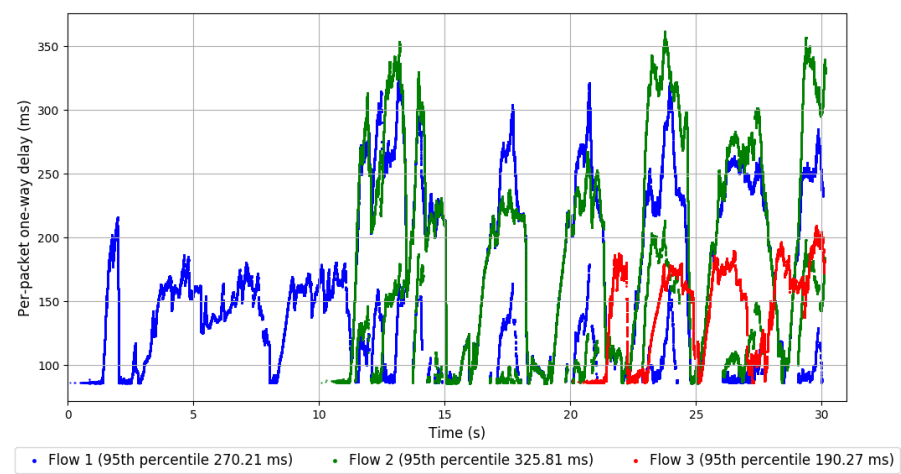
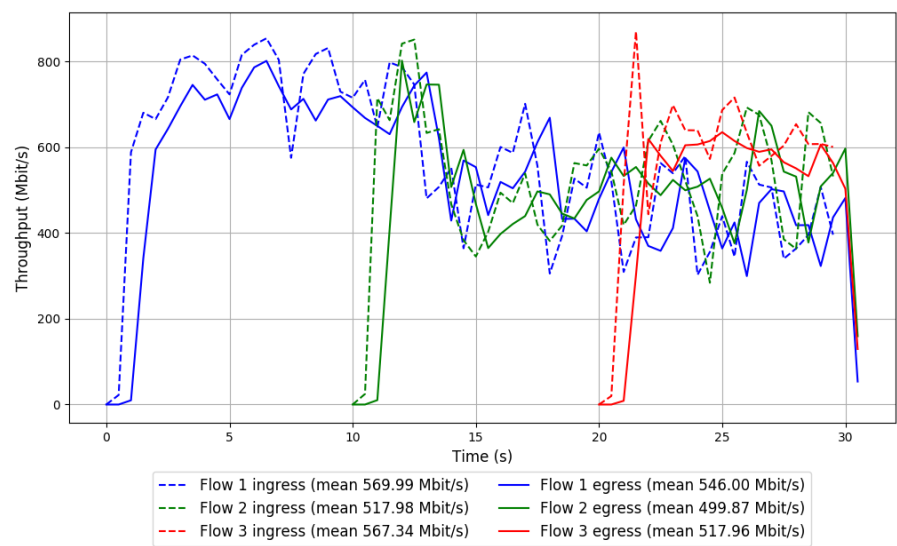


Run 6: Statistics of FillP

Start at: 2018-05-22 04:34:05
End at: 2018-05-22 04:34:35
Local clock offset: 0.11 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-05-22 07:02:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 1050.38 Mbit/s
95th percentile per-packet one-way delay: 294.836 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 546.00 Mbit/s
95th percentile per-packet one-way delay: 270.208 ms
Loss rate: 4.05%
-- Flow 2:
Average throughput: 499.87 Mbit/s
95th percentile per-packet one-way delay: 325.809 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 517.96 Mbit/s
95th percentile per-packet one-way delay: 190.272 ms
Loss rate: 7.91%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-22 04:57:38

End at: 2018-05-22 04:58:08

Local clock offset: -0.16 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-05-22 07:02:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1193.59 Mbit/s

95th percentile per-packet one-way delay: 225.346 ms

Loss rate: 8.42%

-- Flow 1:

Average throughput: 664.11 Mbit/s

95th percentile per-packet one-way delay: 186.591 ms

Loss rate: 7.47%

-- Flow 2:

Average throughput: 581.12 Mbit/s

95th percentile per-packet one-way delay: 266.134 ms

Loss rate: 8.90%

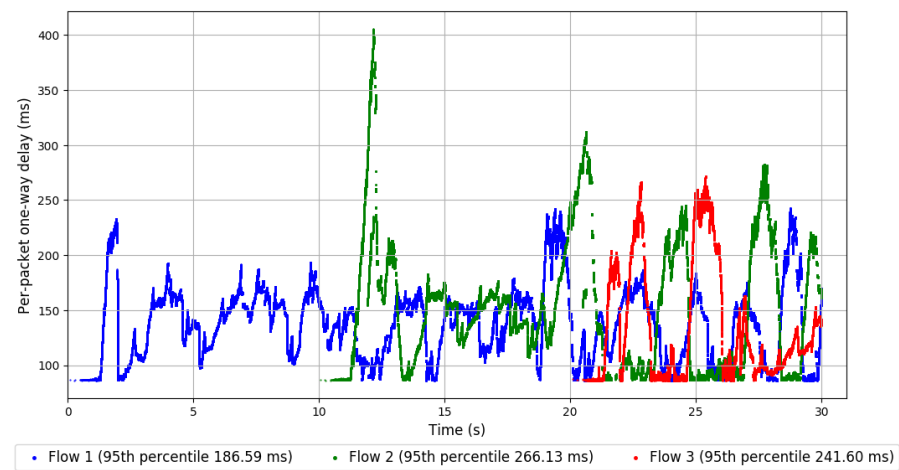
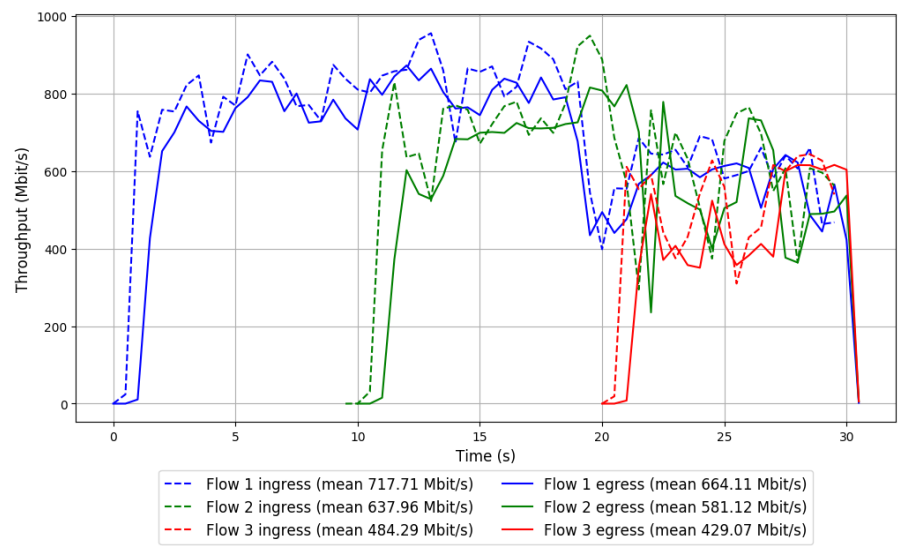
-- Flow 3:

Average throughput: 429.07 Mbit/s

95th percentile per-packet one-way delay: 241.600 ms

Loss rate: 11.40%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-22 05:21:14

End at: 2018-05-22 05:21:44

Local clock offset: -0.057 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-05-22 07:02:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 1085.94 Mbit/s

95th percentile per-packet one-way delay: 306.499 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 559.16 Mbit/s

95th percentile per-packet one-way delay: 302.794 ms

Loss rate: 6.49%

-- Flow 2:

Average throughput: 549.51 Mbit/s

95th percentile per-packet one-way delay: 318.191 ms

Loss rate: 3.08%

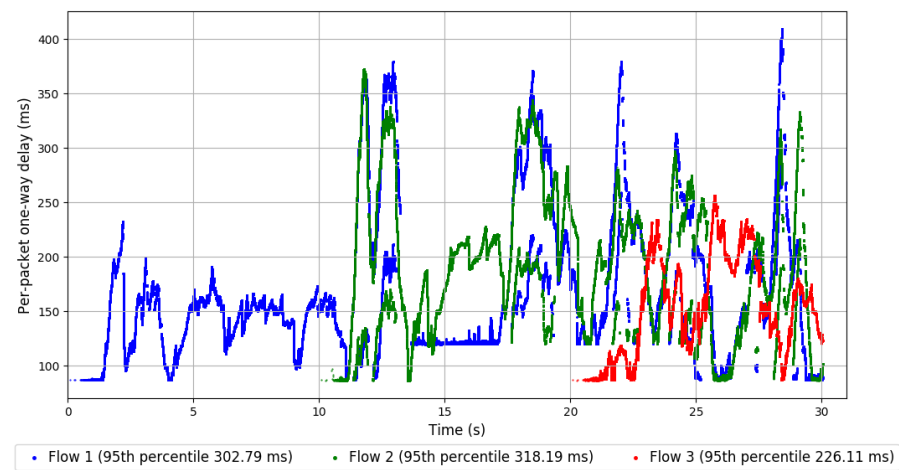
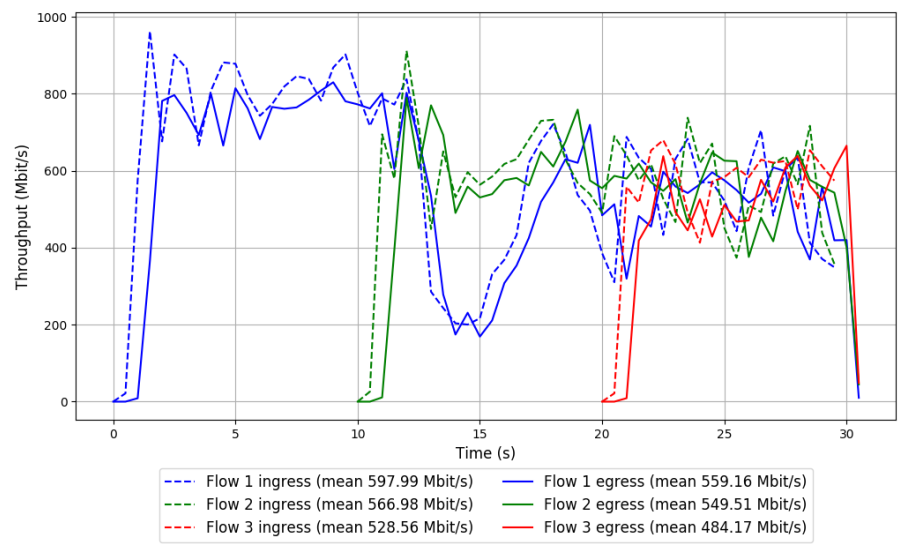
-- Flow 3:

Average throughput: 484.17 Mbit/s

95th percentile per-packet one-way delay: 226.110 ms

Loss rate: 8.39%

Run 8: Report of FillP — Data Link

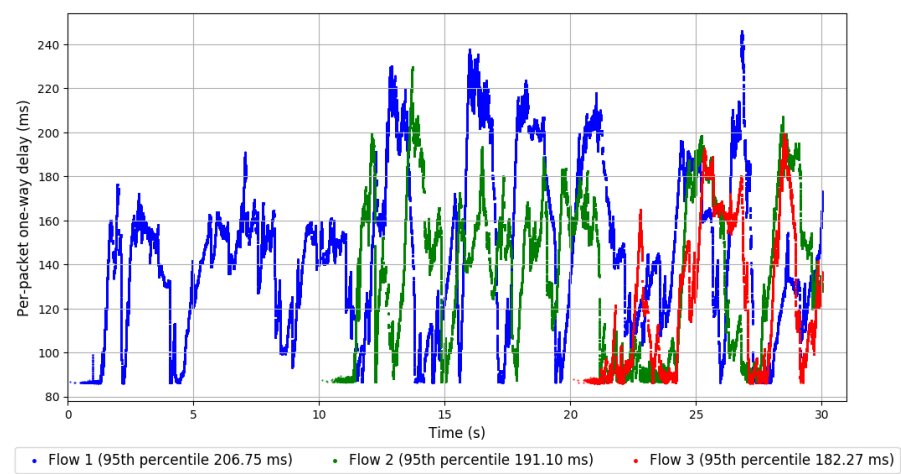
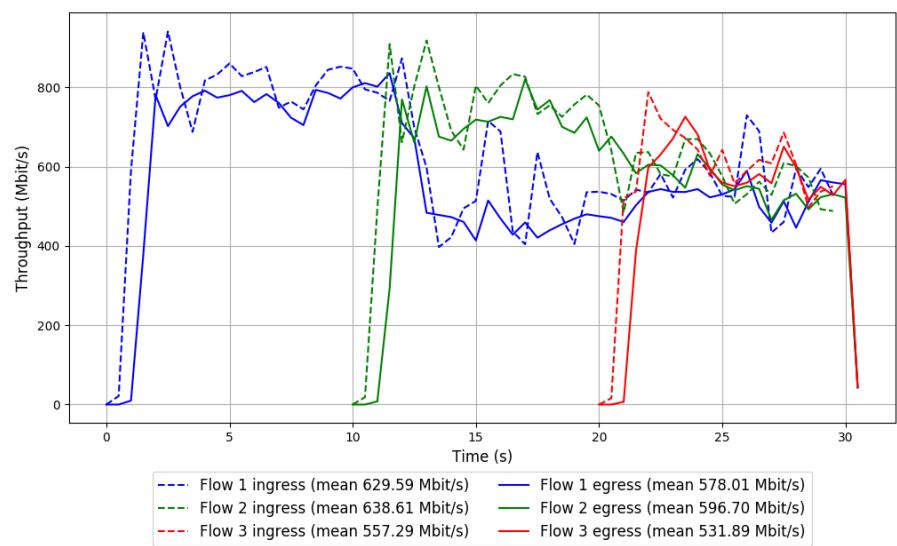


Run 9: Statistics of FillP

Start at: 2018-05-22 05:44:48
End at: 2018-05-22 05:45:18
Local clock offset: -0.122 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1151.21 Mbit/s
95th percentile per-packet one-way delay: 199.850 ms
Loss rate: 7.09%
-- Flow 1:
Average throughput: 578.01 Mbit/s
95th percentile per-packet one-way delay: 206.747 ms
Loss rate: 8.19%
-- Flow 2:
Average throughput: 596.70 Mbit/s
95th percentile per-packet one-way delay: 191.102 ms
Loss rate: 6.56%
-- Flow 3:
Average throughput: 531.89 Mbit/s
95th percentile per-packet one-way delay: 182.274 ms
Loss rate: 4.56%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 06:08:24

End at: 2018-05-22 06:08:54

Local clock offset: -0.128 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 1124.41 Mbit/s

95th percentile per-packet one-way delay: 192.872 ms

Loss rate: 7.70%

-- Flow 1:

Average throughput: 557.32 Mbit/s

95th percentile per-packet one-way delay: 195.989 ms

Loss rate: 8.63%

-- Flow 2:

Average throughput: 602.69 Mbit/s

95th percentile per-packet one-way delay: 187.501 ms

Loss rate: 6.36%

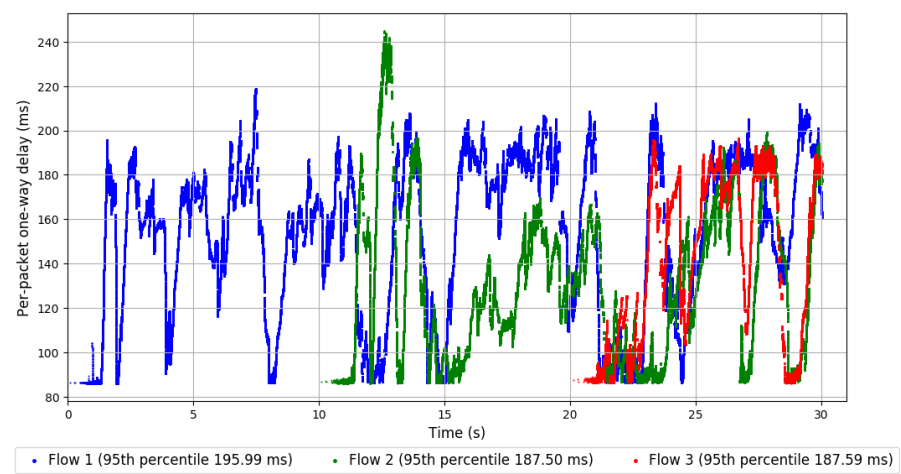
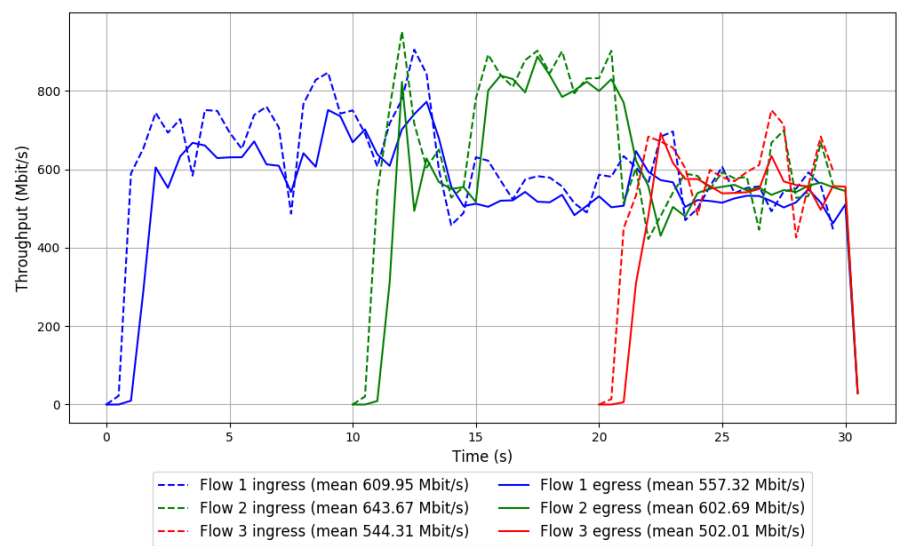
-- Flow 3:

Average throughput: 502.01 Mbit/s

95th percentile per-packet one-way delay: 187.587 ms

Loss rate: 7.76%

Run 10: Report of FillP — Data Link

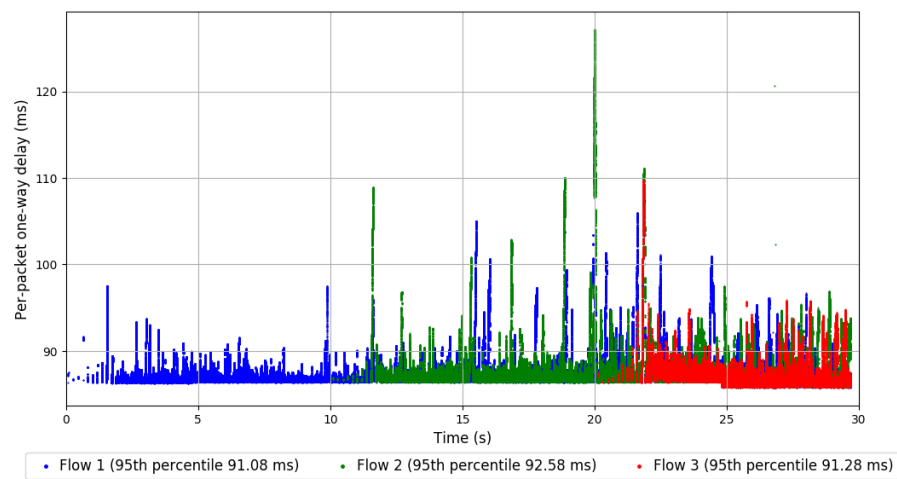
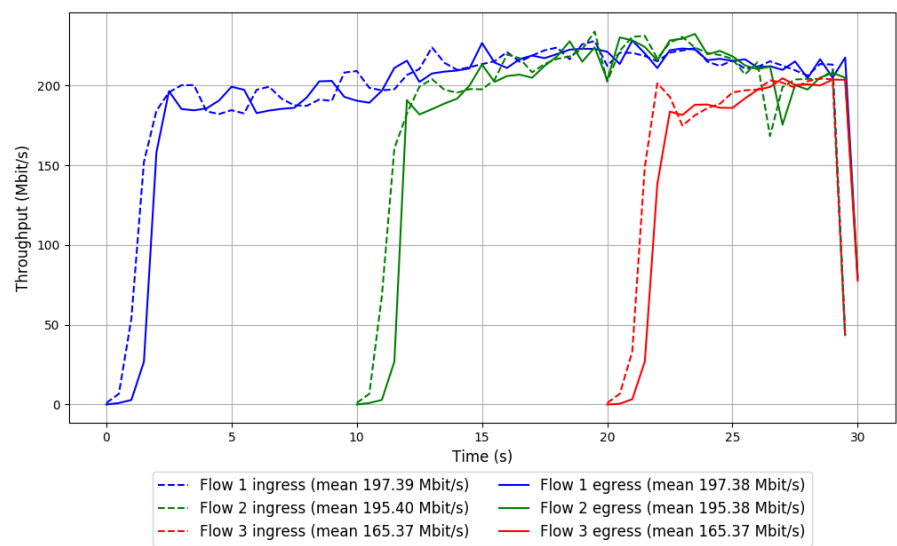


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 02:26:33
End at: 2018-05-22 02:27:03
Local clock offset: 0.151 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-22 07:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.06 Mbit/s
95th percentile per-packet one-way delay: 91.654 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 197.38 Mbit/s
95th percentile per-packet one-way delay: 91.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.38 Mbit/s
95th percentile per-packet one-way delay: 92.582 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 165.37 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 02:50:15

End at: 2018-05-22 02:50:45

Local clock offset: 0.176 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 364.55 Mbit/s

95th percentile per-packet one-way delay: 105.363 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 195.36 Mbit/s

95th percentile per-packet one-way delay: 99.565 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 181.91 Mbit/s

95th percentile per-packet one-way delay: 104.776 ms

Loss rate: 0.00%

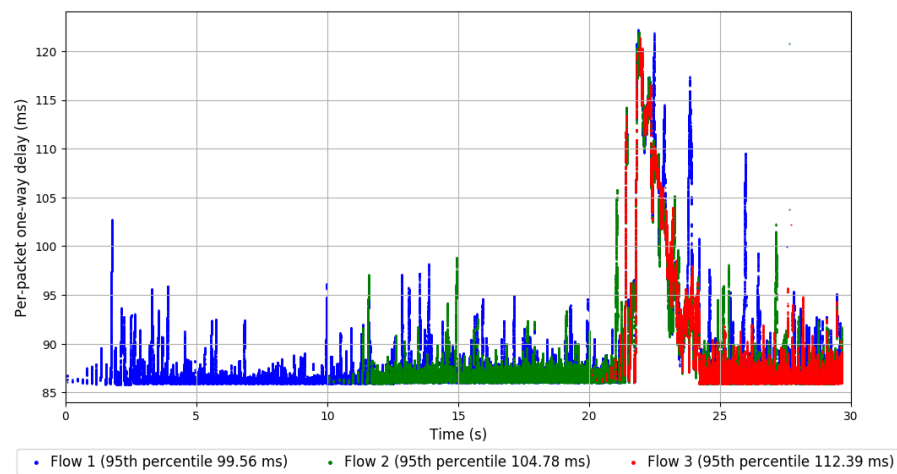
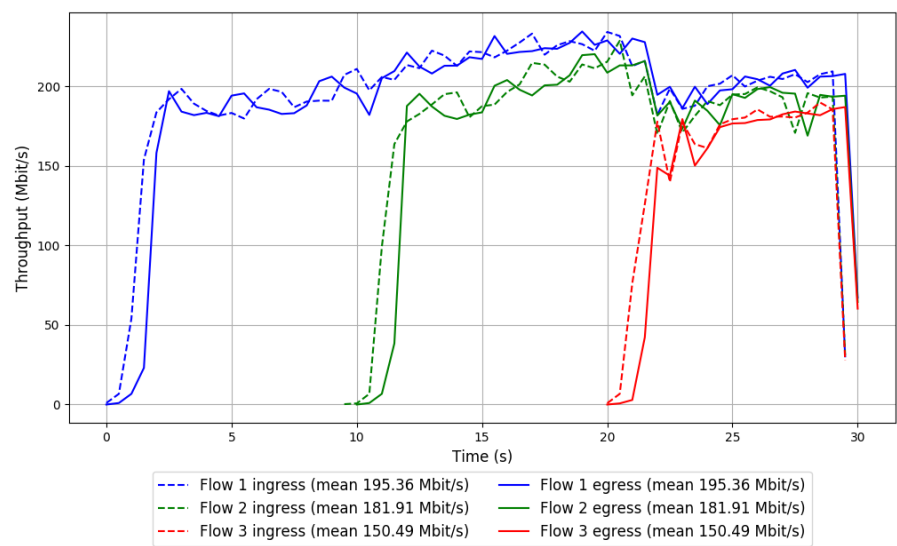
-- Flow 3:

Average throughput: 150.49 Mbit/s

95th percentile per-packet one-way delay: 112.389 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

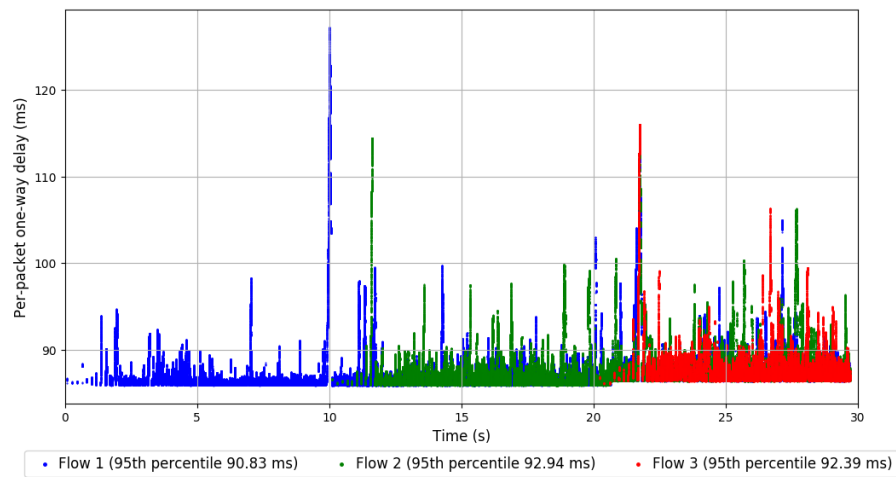
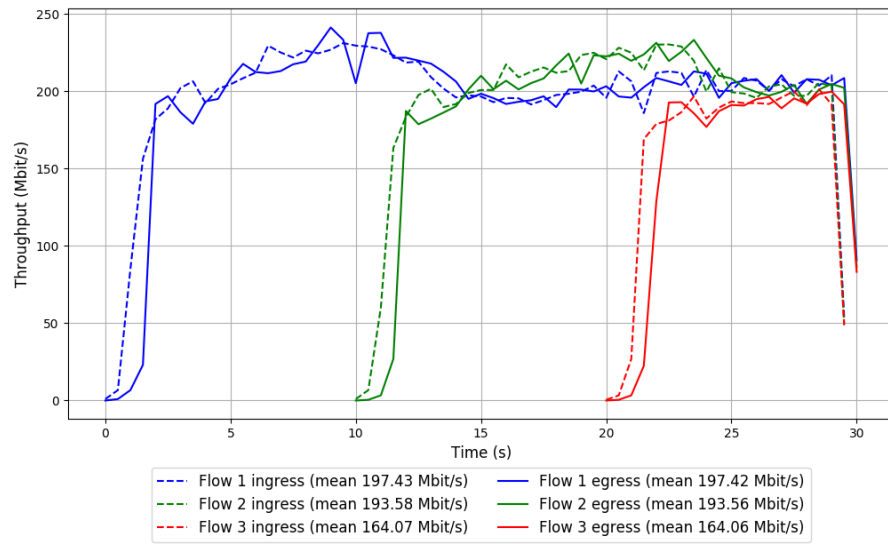


Run 3: Statistics of Indigo

Start at: 2018-05-22 03:13:57
End at: 2018-05-22 03:14:27
Local clock offset: 0.178 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 377.97 Mbit/s
95th percentile per-packet one-way delay: 91.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.42 Mbit/s
95th percentile per-packet one-way delay: 90.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.56 Mbit/s
95th percentile per-packet one-way delay: 92.941 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 164.06 Mbit/s
95th percentile per-packet one-way delay: 92.391 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

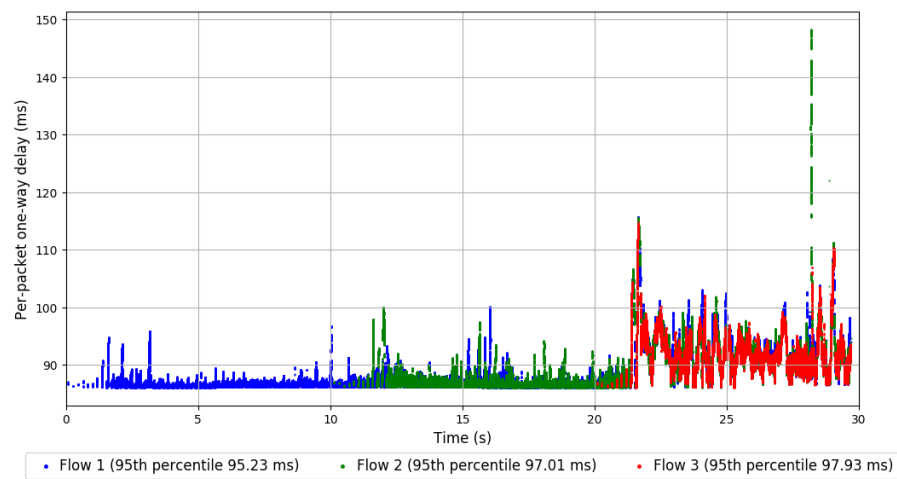
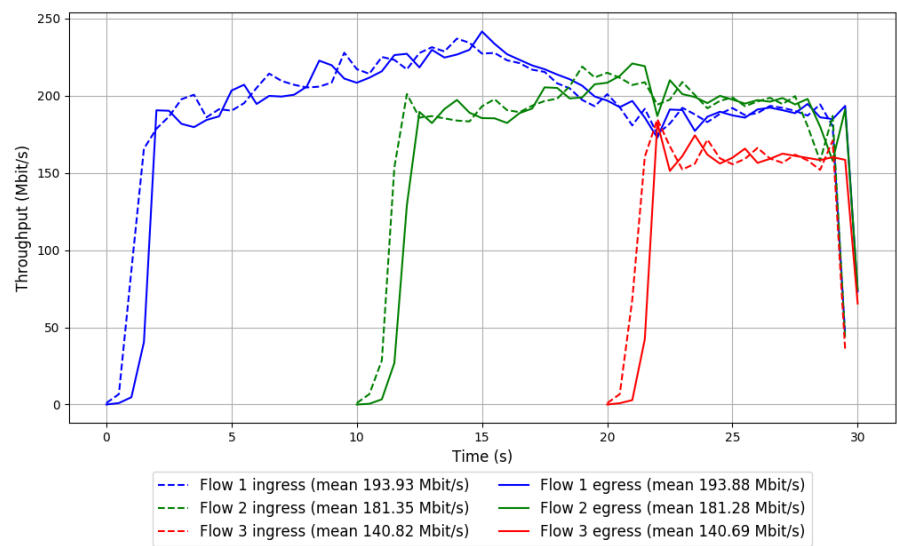


Run 4: Statistics of Indigo

Start at: 2018-05-22 03:37:32
End at: 2018-05-22 03:38:02
Local clock offset: -0.082 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.17 Mbit/s
95th percentile per-packet one-way delay: 96.560 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 193.88 Mbit/s
95th percentile per-packet one-way delay: 95.234 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 181.28 Mbit/s
95th percentile per-packet one-way delay: 97.013 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 140.69 Mbit/s
95th percentile per-packet one-way delay: 97.926 ms
Loss rate: 0.09%

Run 4: Report of Indigo — Data Link

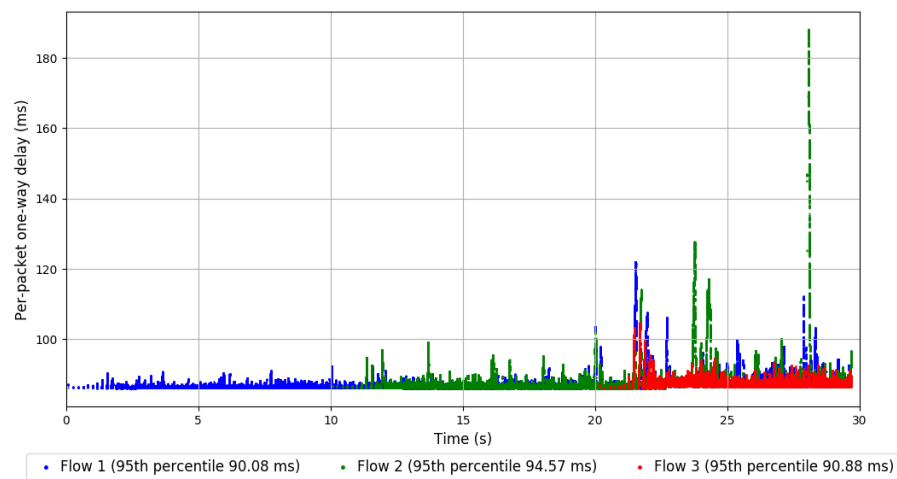
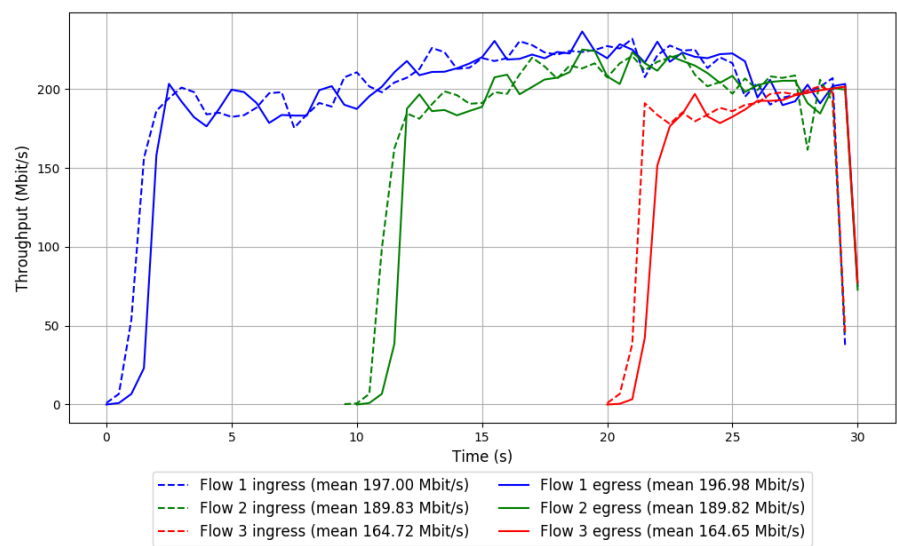


Run 5: Statistics of Indigo

Start at: 2018-05-22 04:01:25
End at: 2018-05-22 04:01:55
Local clock offset: 0.041 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.73 Mbit/s
95th percentile per-packet one-way delay: 91.366 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 196.98 Mbit/s
95th percentile per-packet one-way delay: 90.077 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 189.82 Mbit/s
95th percentile per-packet one-way delay: 94.566 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 164.65 Mbit/s
95th percentile per-packet one-way delay: 90.881 ms
Loss rate: 0.04%

Run 5: Report of Indigo — Data Link

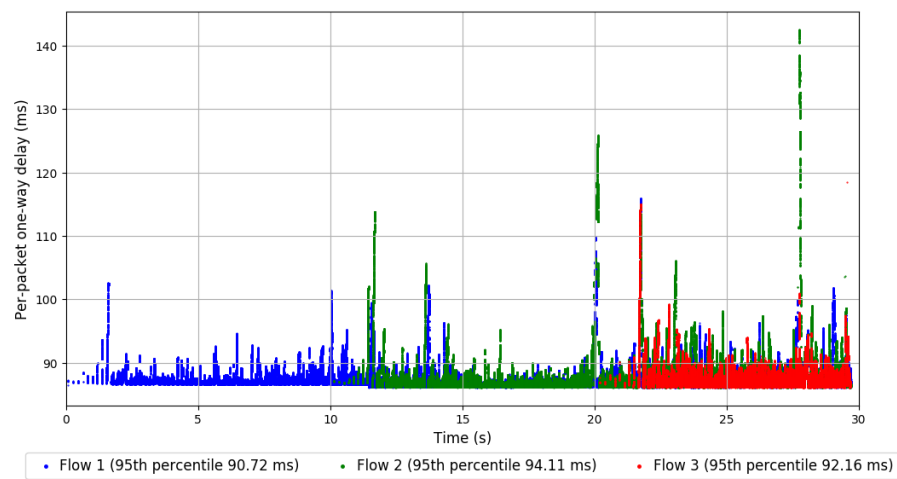
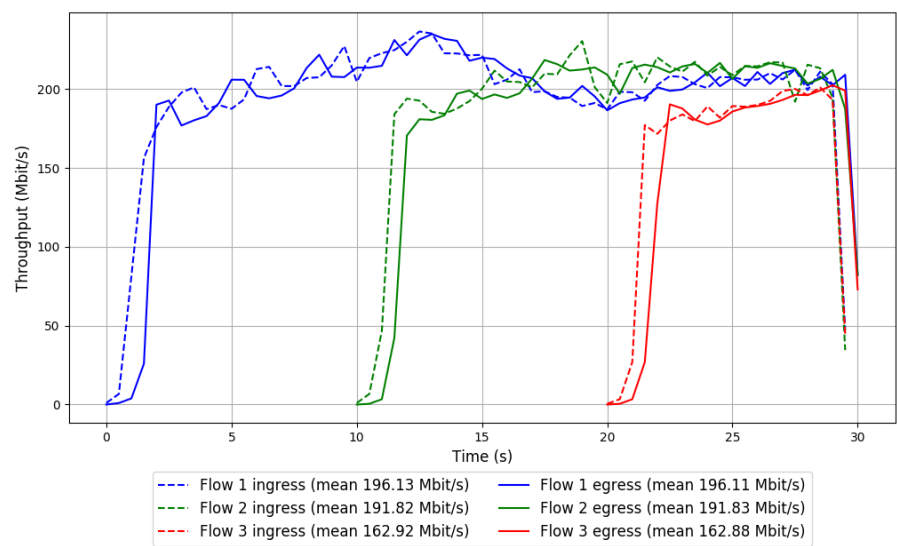


Run 6: Statistics of Indigo

Start at: 2018-05-22 04:25:07
End at: 2018-05-22 04:25:37
Local clock offset: -0.057 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 374.92 Mbit/s
95th percentile per-packet one-way delay: 92.063 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 196.11 Mbit/s
95th percentile per-packet one-way delay: 90.716 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 191.83 Mbit/s
95th percentile per-packet one-way delay: 94.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.88 Mbit/s
95th percentile per-packet one-way delay: 92.155 ms
Loss rate: 0.03%

Run 6: Report of Indigo — Data Link

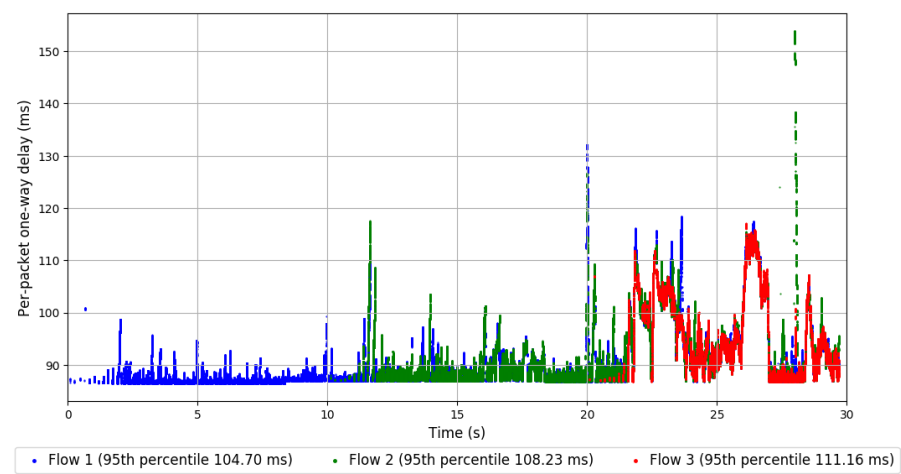
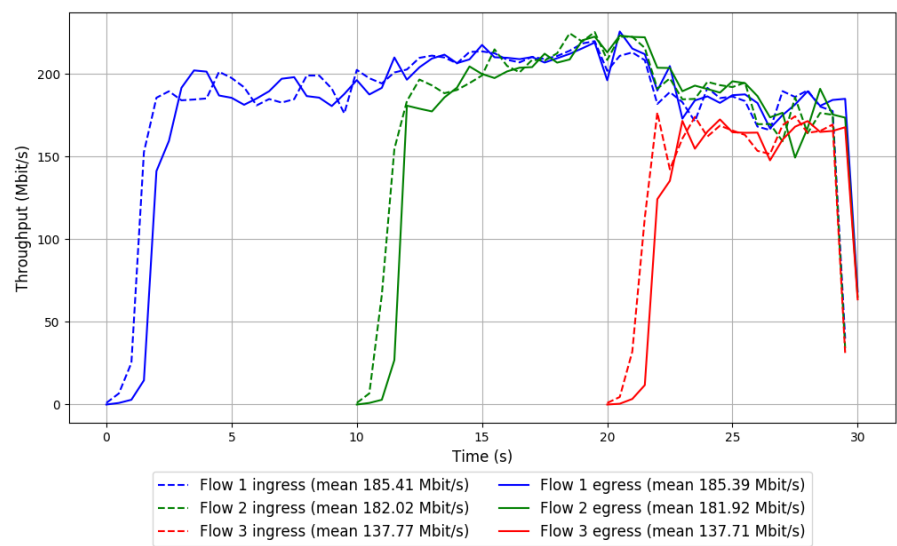


Run 7: Statistics of Indigo

Start at: 2018-05-22 04:48:40
End at: 2018-05-22 04:49:10
Local clock offset: -0.444 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.33 Mbit/s
95th percentile per-packet one-way delay: 107.251 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 185.39 Mbit/s
95th percentile per-packet one-way delay: 104.705 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 181.92 Mbit/s
95th percentile per-packet one-way delay: 108.231 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 137.71 Mbit/s
95th percentile per-packet one-way delay: 111.160 ms
Loss rate: 0.03%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-22 05:12:20

End at: 2018-05-22 05:12:50

Local clock offset: -0.194 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 375.01 Mbit/s

95th percentile per-packet one-way delay: 90.969 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 199.89 Mbit/s

95th percentile per-packet one-way delay: 90.873 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 191.42 Mbit/s

95th percentile per-packet one-way delay: 91.403 ms

Loss rate: 0.01%

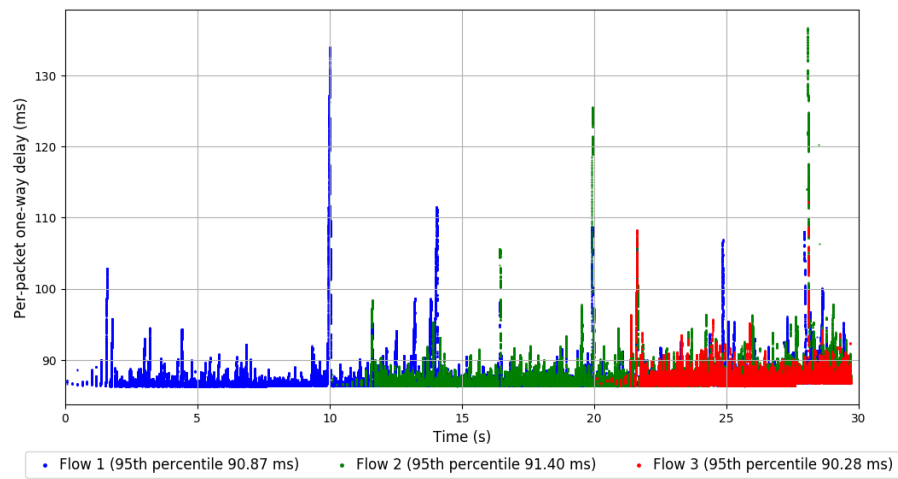
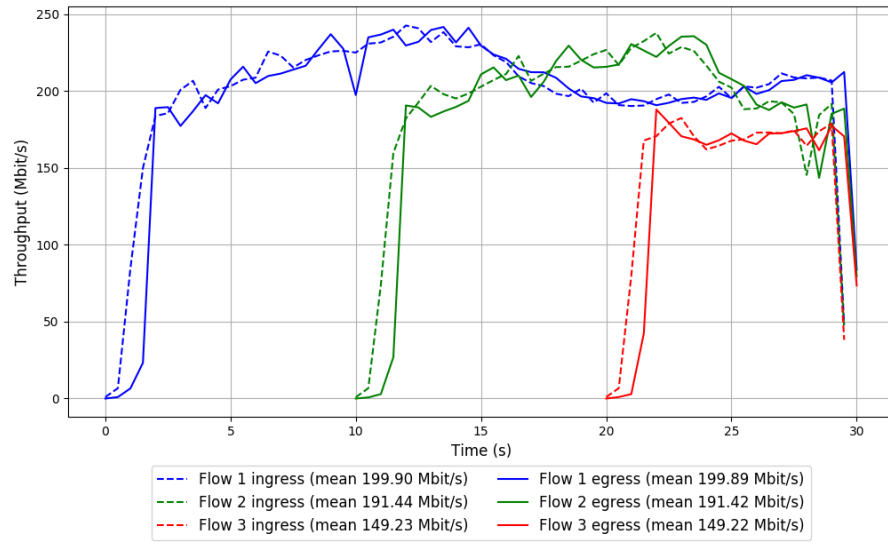
-- Flow 3:

Average throughput: 149.22 Mbit/s

95th percentile per-packet one-way delay: 90.277 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 05:35:55

End at: 2018-05-22 05:36:25

Local clock offset: -0.256 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.12 Mbit/s

95th percentile per-packet one-way delay: 92.591 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.80 Mbit/s

95th percentile per-packet one-way delay: 91.950 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.47 Mbit/s

95th percentile per-packet one-way delay: 93.690 ms

Loss rate: 0.00%

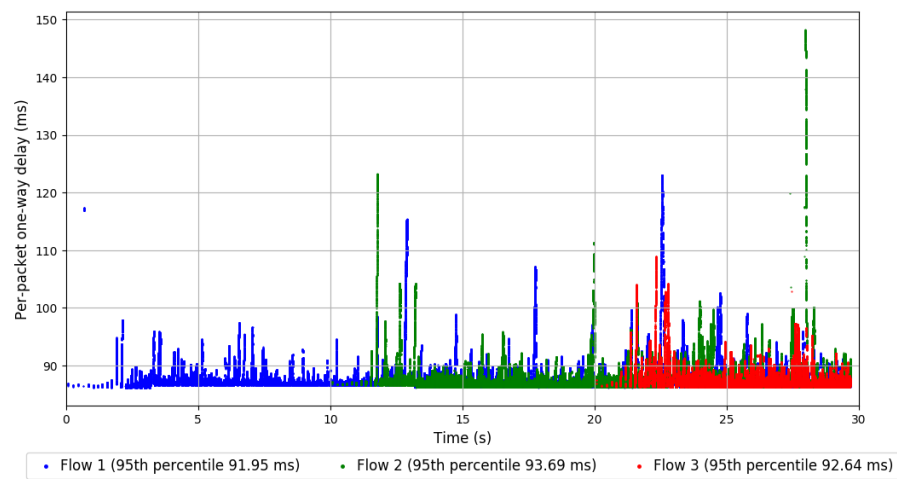
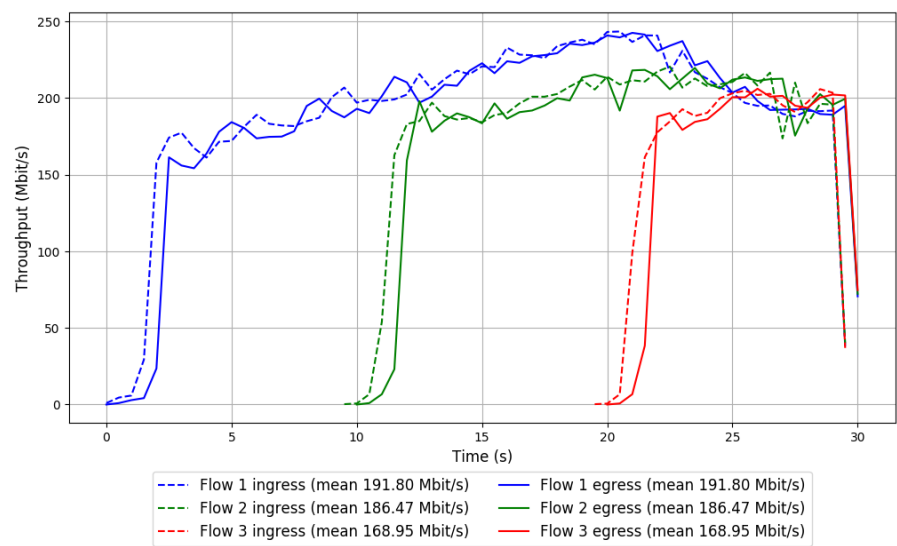
-- Flow 3:

Average throughput: 168.95 Mbit/s

95th percentile per-packet one-way delay: 92.639 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 05:59:32

End at: 2018-05-22 06:00:02

Local clock offset: -0.265 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.98 Mbit/s

95th percentile per-packet one-way delay: 103.932 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.86 Mbit/s

95th percentile per-packet one-way delay: 100.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.23 Mbit/s

95th percentile per-packet one-way delay: 105.504 ms

Loss rate: 0.00%

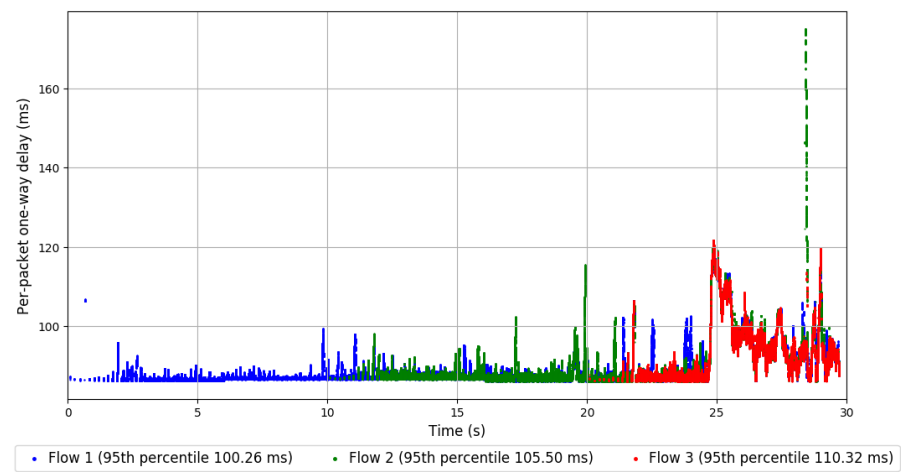
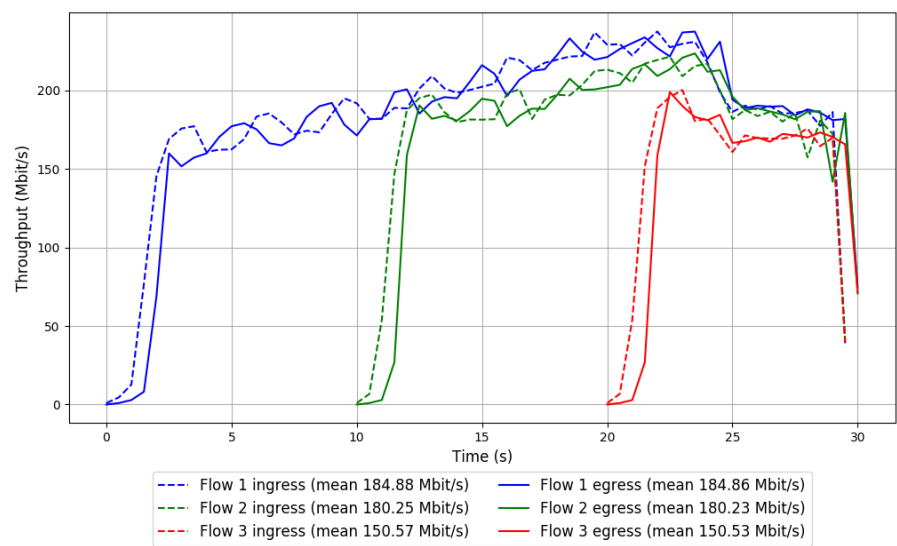
-- Flow 3:

Average throughput: 150.53 Mbit/s

95th percentile per-packet one-way delay: 110.322 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

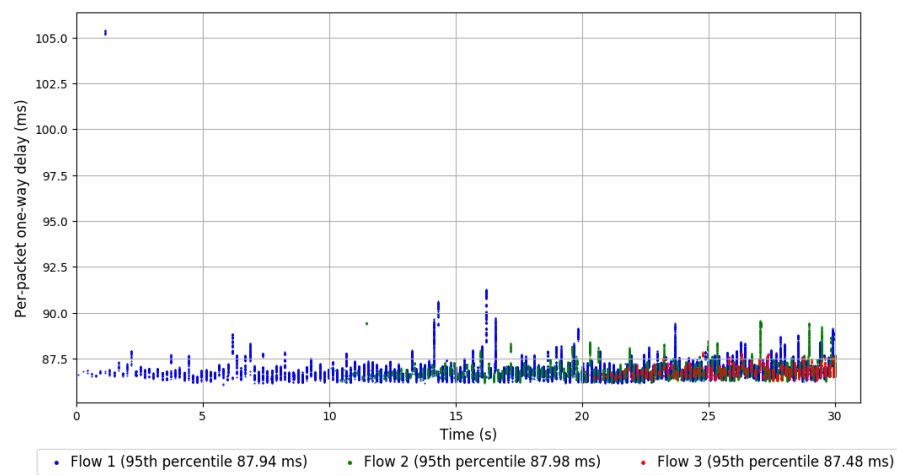
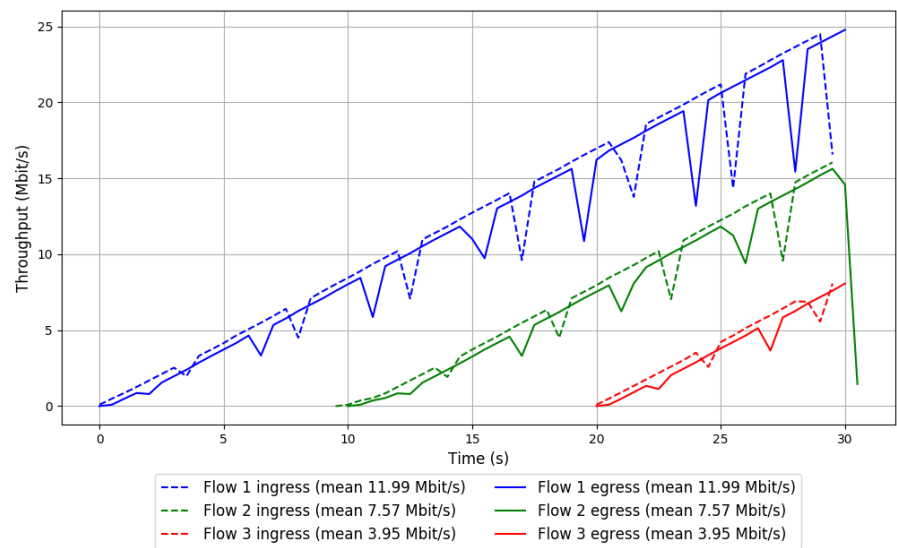


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 02:16:45
End at: 2018-05-22 02:17:15
Local clock offset: -0.156 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-05-22 07:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 87.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 87.940 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 87.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 87.476 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 02:40:22

End at: 2018-05-22 02:40:52

Local clock offset: -0.204 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 88.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.83 Mbit/s

95th percentile per-packet one-way delay: 88.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 88.037 ms

Loss rate: 0.00%

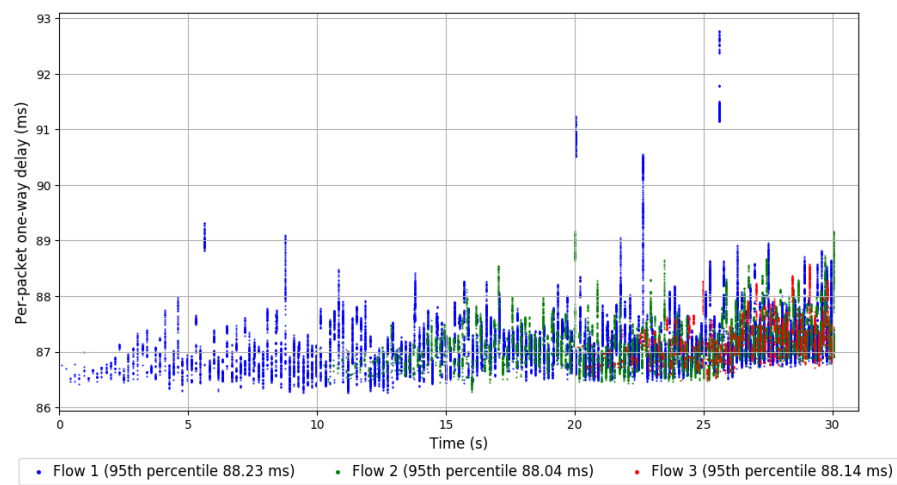
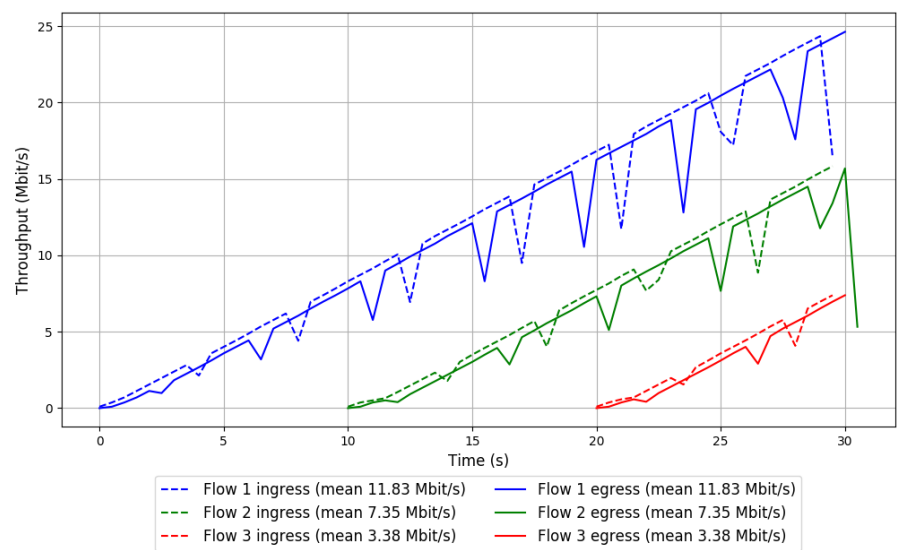
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 88.143 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-22 03:04:12

End at: 2018-05-22 03:04:42

Local clock offset: 0.075 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 87.850 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 87.951 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 87.603 ms

Loss rate: 0.00%

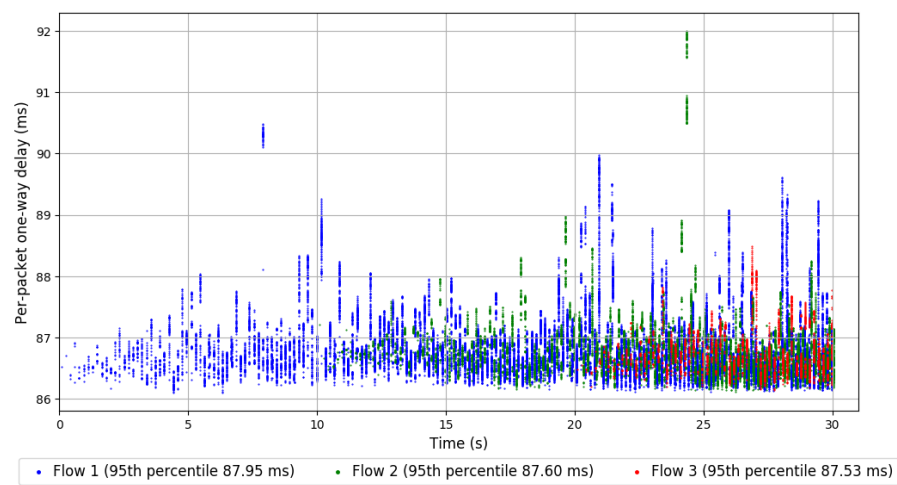
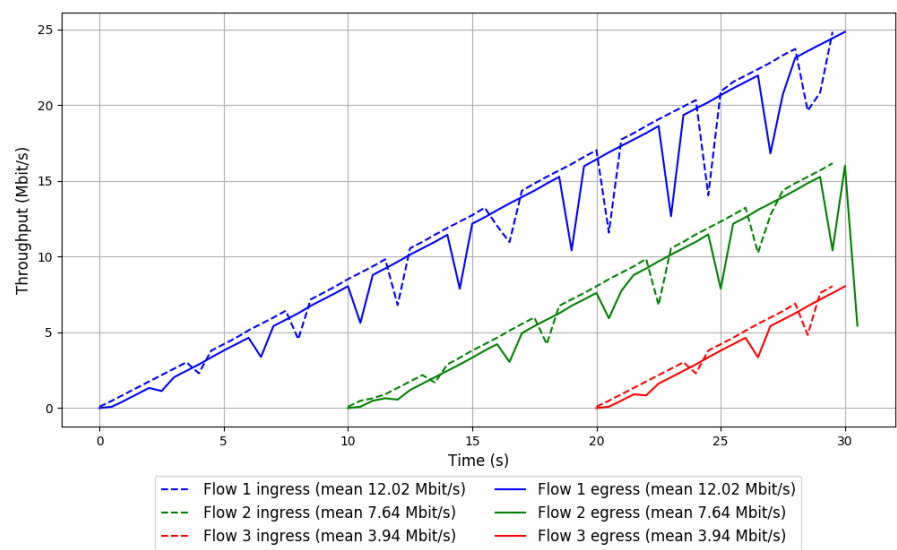
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

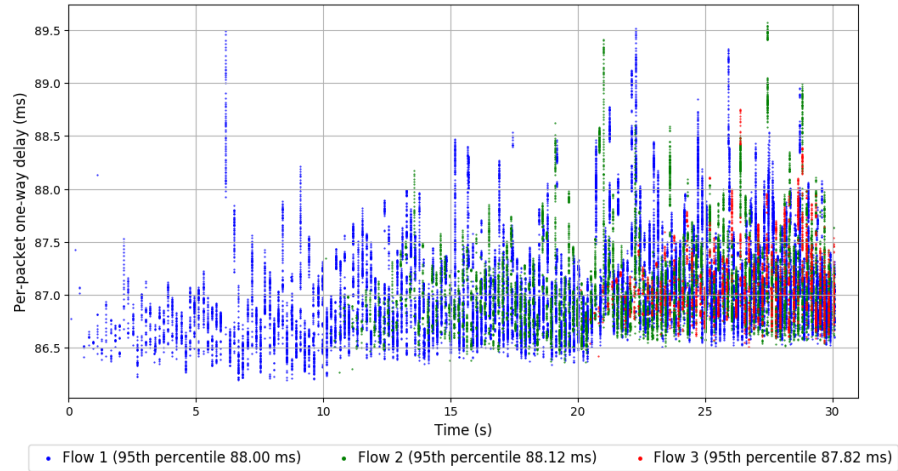
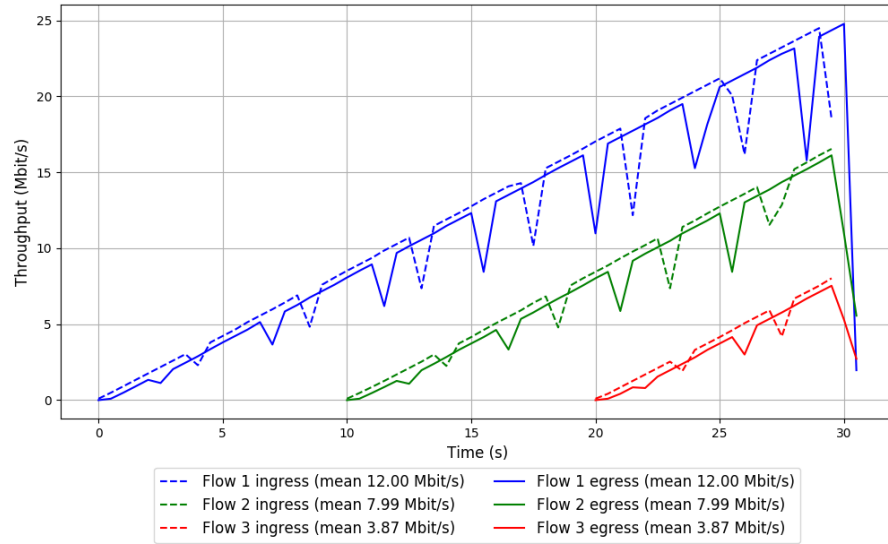


Run 4: Statistics of LEDBAT

Start at: 2018-05-22 03:27:48
End at: 2018-05-22 03:28:18
Local clock offset: -0.105 ms
Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.59 Mbit/s
95th percentile per-packet one-way delay: 88.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 88.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 88.118 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.823 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-22 03:51:35

End at: 2018-05-22 03:52:05

Local clock offset: 0.074 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.70 Mbit/s

95th percentile per-packet one-way delay: 87.765 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 87.861 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.04 Mbit/s

95th percentile per-packet one-way delay: 87.544 ms

Loss rate: 0.00%

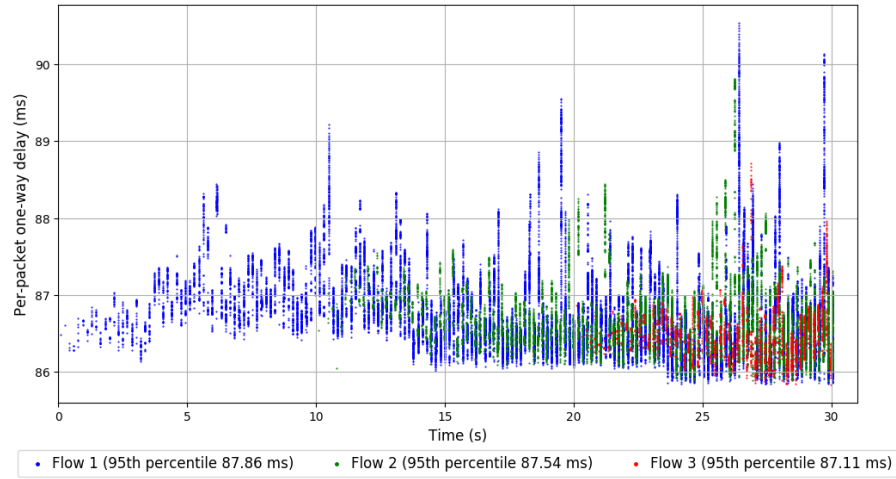
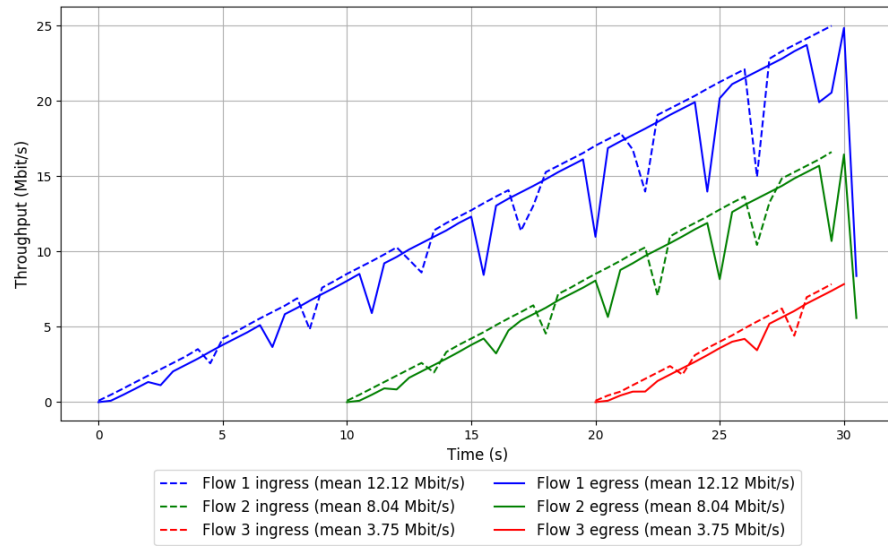
-- Flow 3:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.106 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

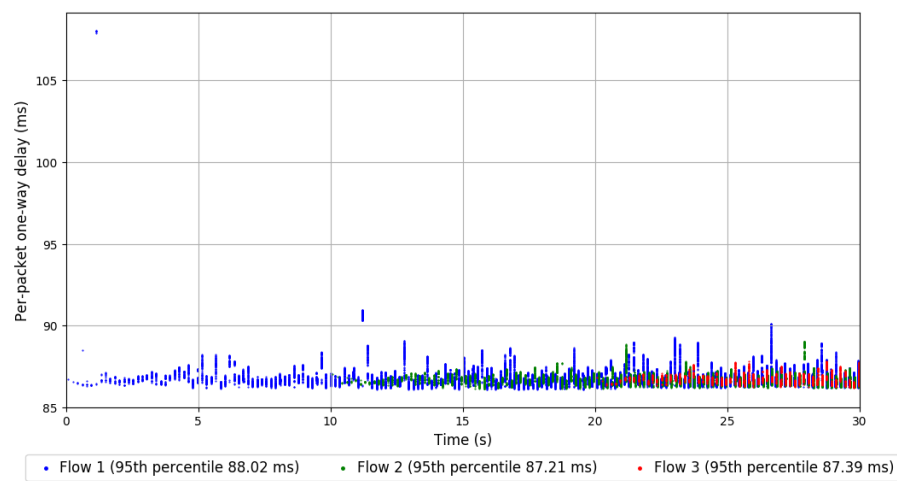
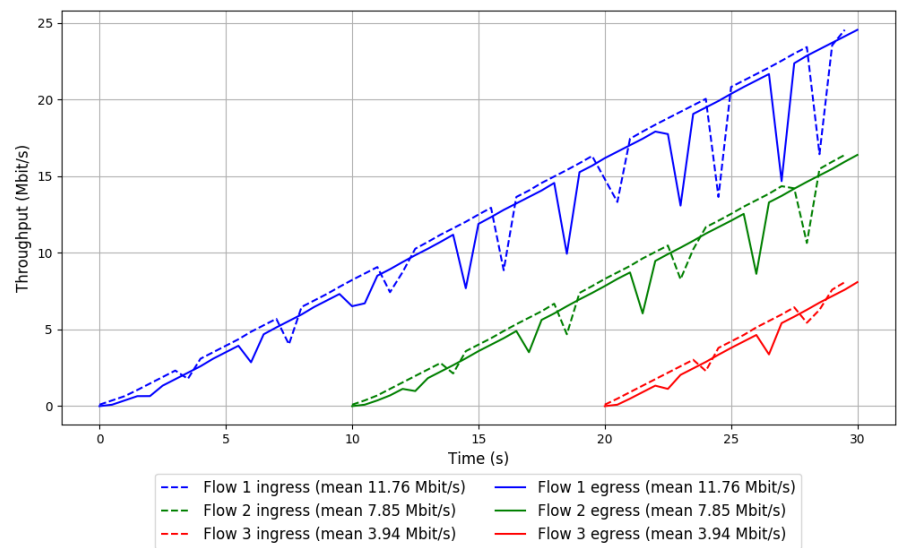


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 04:15:17
End at: 2018-05-22 04:15:47
Local clock offset: -0.098 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.28 Mbit/s
95th percentile per-packet one-way delay: 87.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 88.016 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 87.211 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 87.386 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

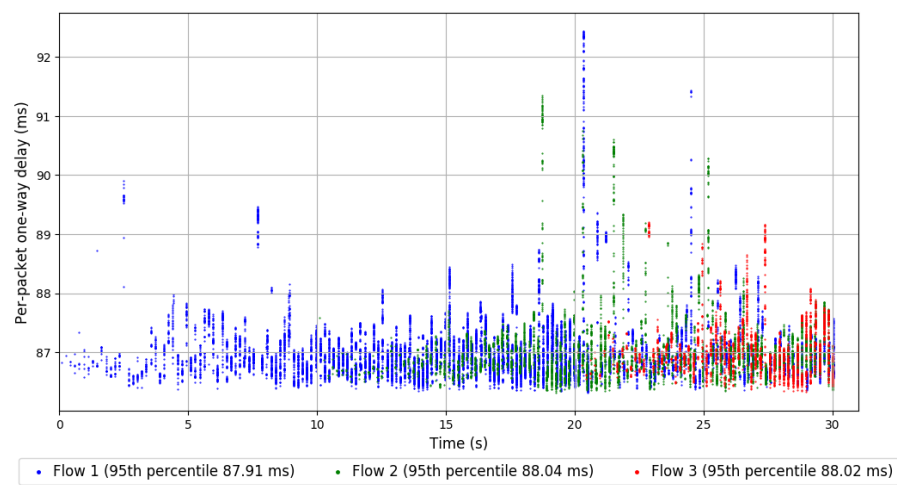
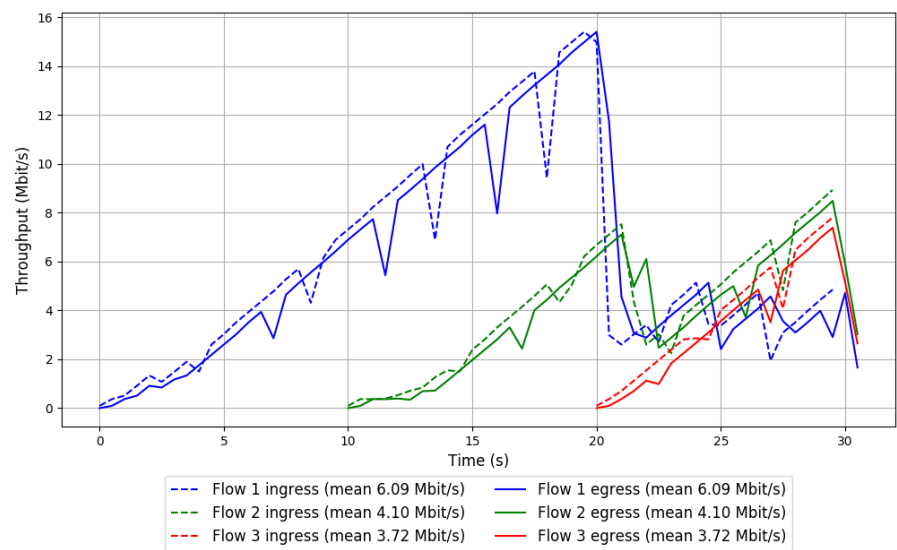


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 04:39:01
End at: 2018-05-22 04:39:31
Local clock offset: -0.281 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 87.969 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 87.911 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 88.040 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 88.021 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

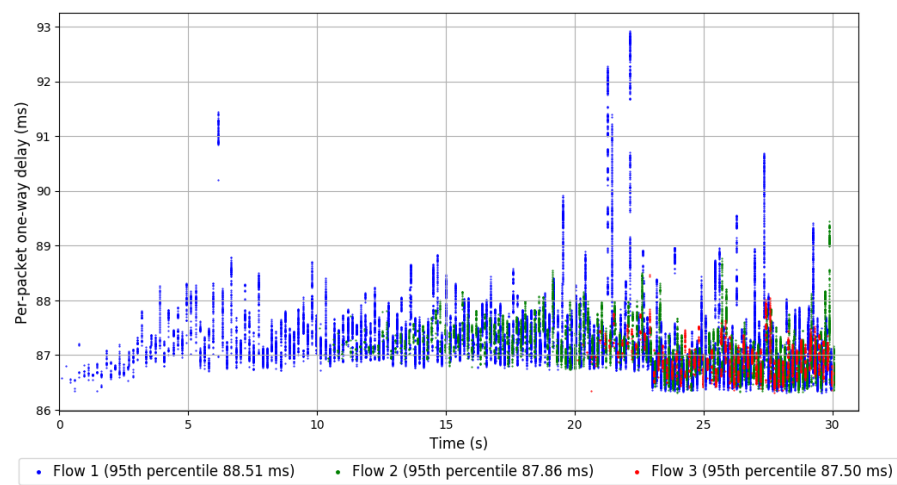
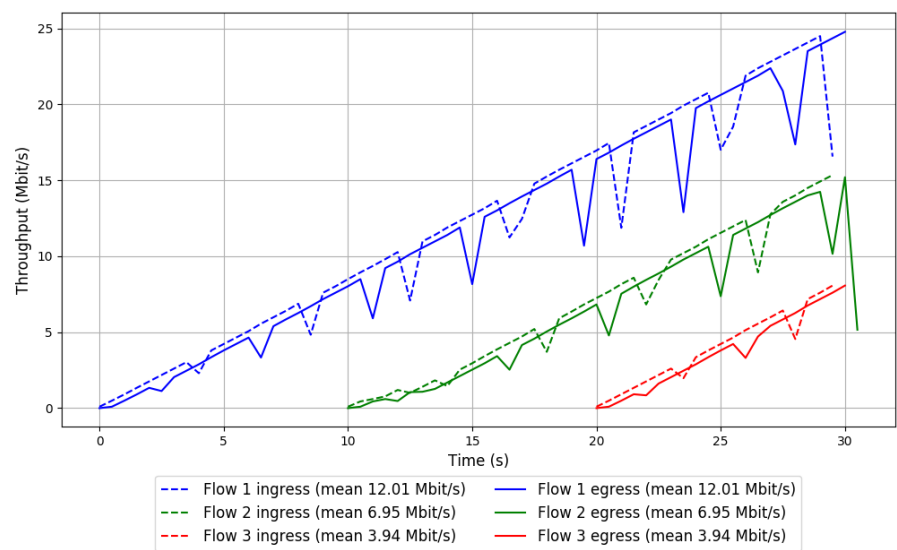


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 05:02:35
End at: 2018-05-22 05:03:05
Local clock offset: -0.202 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-22 07:21:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 88.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 88.513 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 87.861 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 87.497 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 05:26:09

End at: 2018-05-22 05:26:39

Local clock offset: -0.204 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 88.060 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 8.46 Mbit/s

95th percentile per-packet one-way delay: 88.234 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 8.05 Mbit/s

95th percentile per-packet one-way delay: 87.880 ms

Loss rate: 0.00%

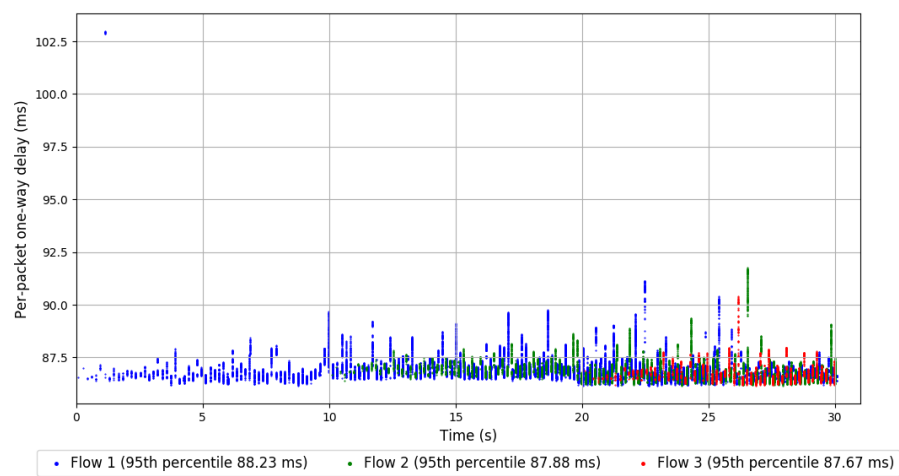
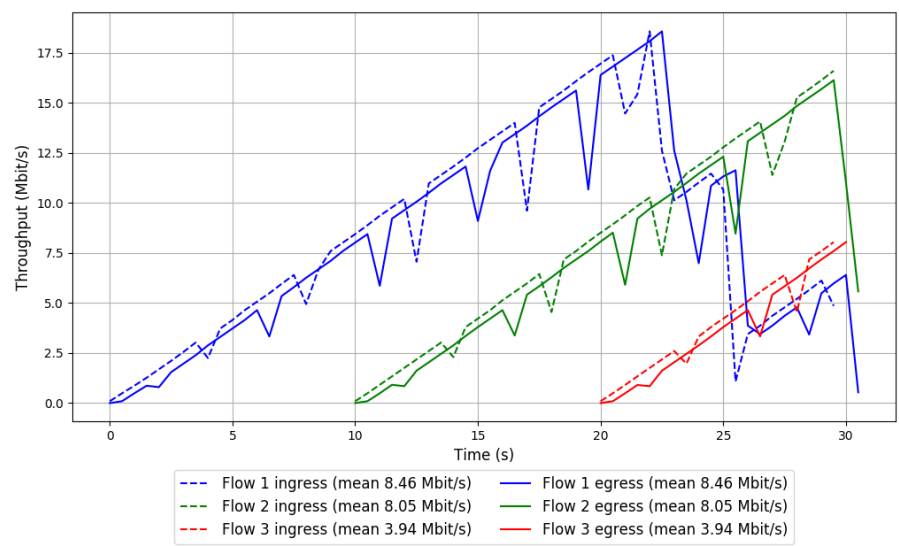
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.667 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 05:49:50

End at: 2018-05-22 05:50:20

Local clock offset: -0.073 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-22 07:21:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.22 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.11 Mbit/s

95th percentile per-packet one-way delay: 88.072 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 87.489 ms

Loss rate: 0.00%

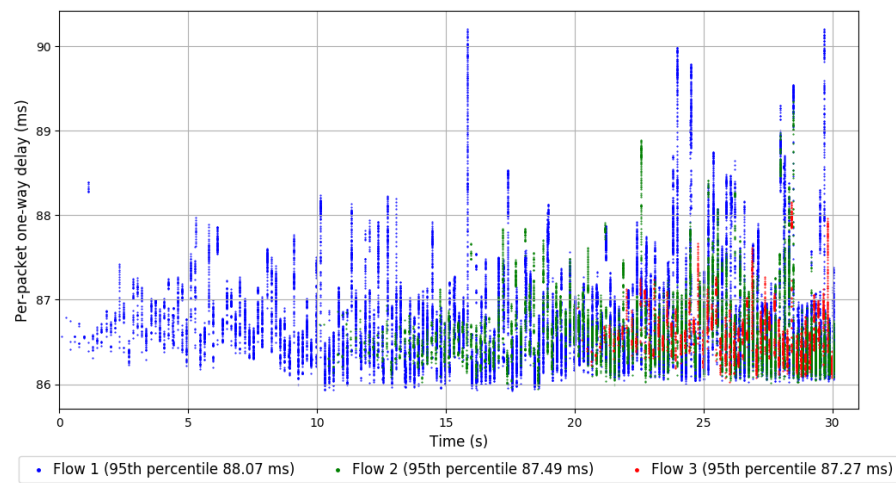
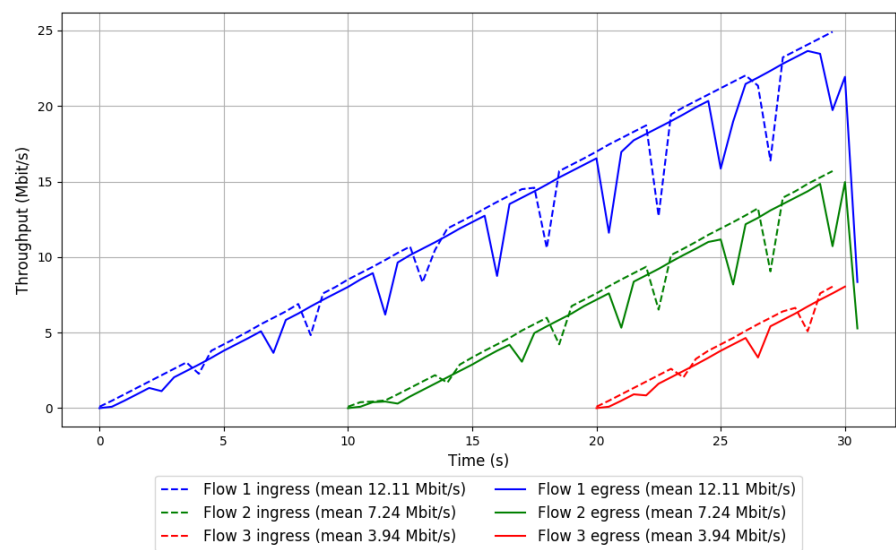
-- Flow 3:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.270 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 02:28:11

End at: 2018-05-22 02:28:41

Local clock offset: -0.079 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-22 07:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 590.94 Mbit/s

95th percentile per-packet one-way delay: 204.210 ms

Loss rate: 5.39%

-- Flow 1:

Average throughput: 422.51 Mbit/s

95th percentile per-packet one-way delay: 207.397 ms

Loss rate: 5.06%

-- Flow 2:

Average throughput: 198.34 Mbit/s

95th percentile per-packet one-way delay: 196.779 ms

Loss rate: 5.94%

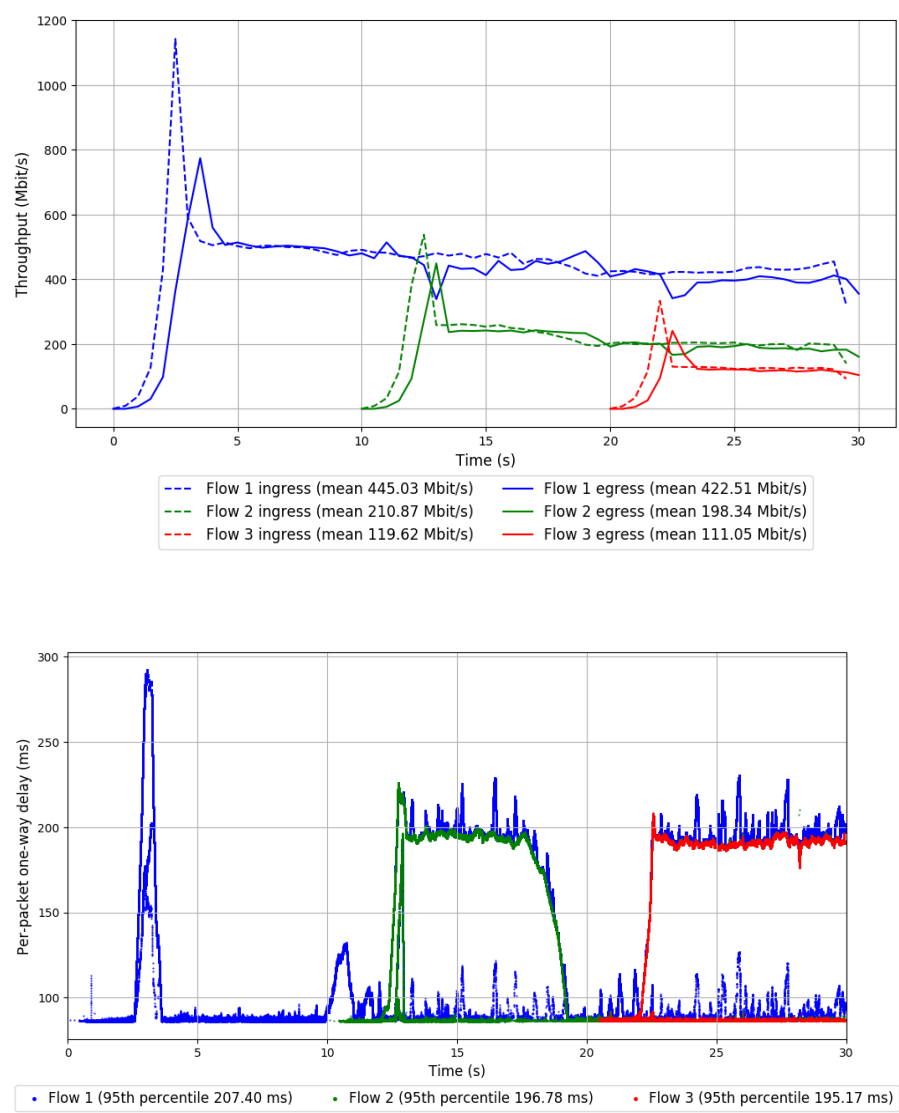
-- Flow 3:

Average throughput: 111.05 Mbit/s

95th percentile per-packet one-way delay: 195.170 ms

Loss rate: 7.21%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 02:51:52

End at: 2018-05-22 02:52:22

Local clock offset: -0.35 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-05-22 07:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 554.81 Mbit/s

95th percentile per-packet one-way delay: 193.600 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 460.21 Mbit/s

95th percentile per-packet one-way delay: 193.527 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 134.15 Mbit/s

95th percentile per-packet one-way delay: 191.122 ms

Loss rate: 1.26%

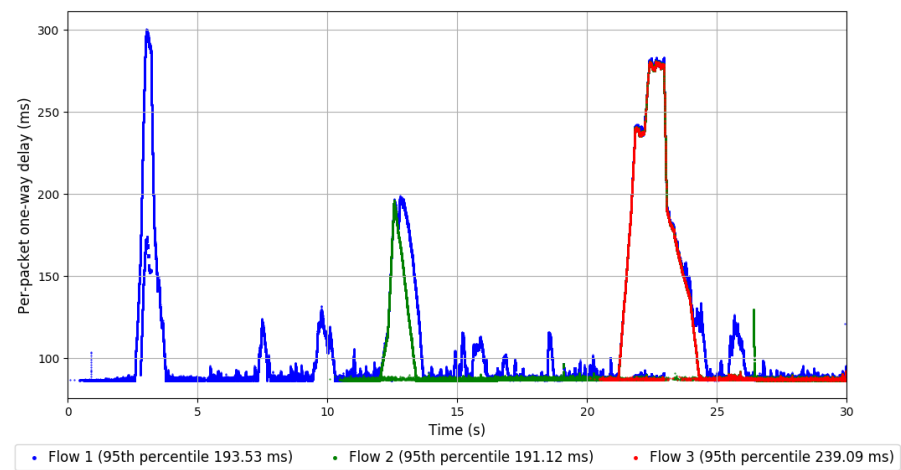
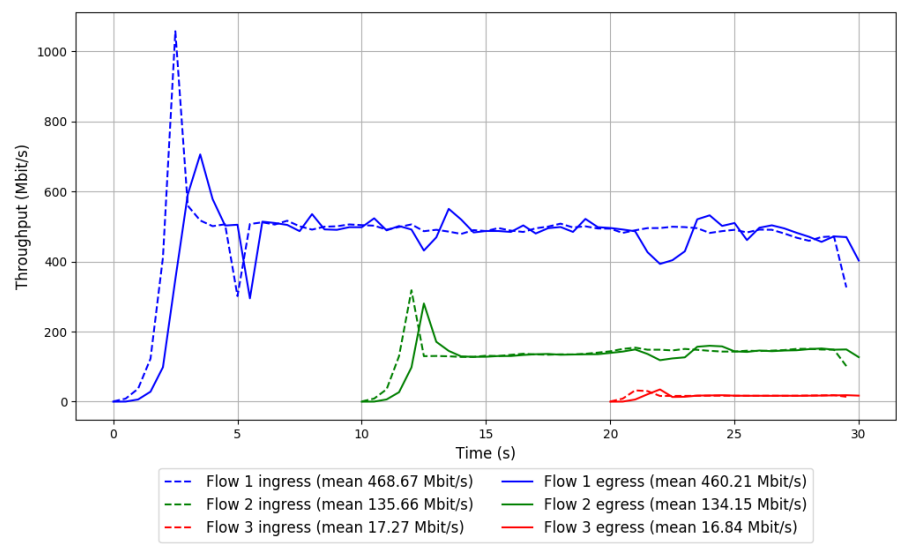
-- Flow 3:

Average throughput: 16.84 Mbit/s

95th percentile per-packet one-way delay: 239.086 ms

Loss rate: 2.45%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 03:15:35

End at: 2018-05-22 03:16:05

Local clock offset: 0.127 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-05-22 07:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 573.29 Mbit/s

95th percentile per-packet one-way delay: 211.376 ms

Loss rate: 3.69%

-- Flow 1:

Average throughput: 471.10 Mbit/s

95th percentile per-packet one-way delay: 214.158 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 124.75 Mbit/s

95th percentile per-packet one-way delay: 202.680 ms

Loss rate: 2.93%

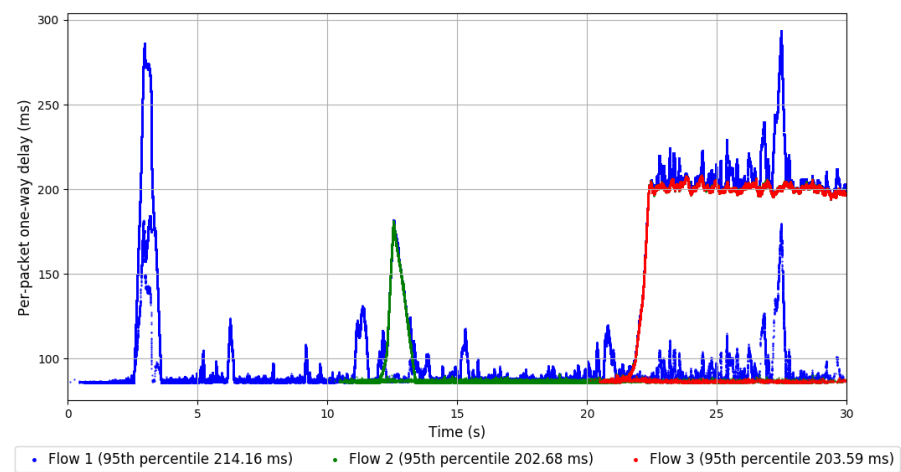
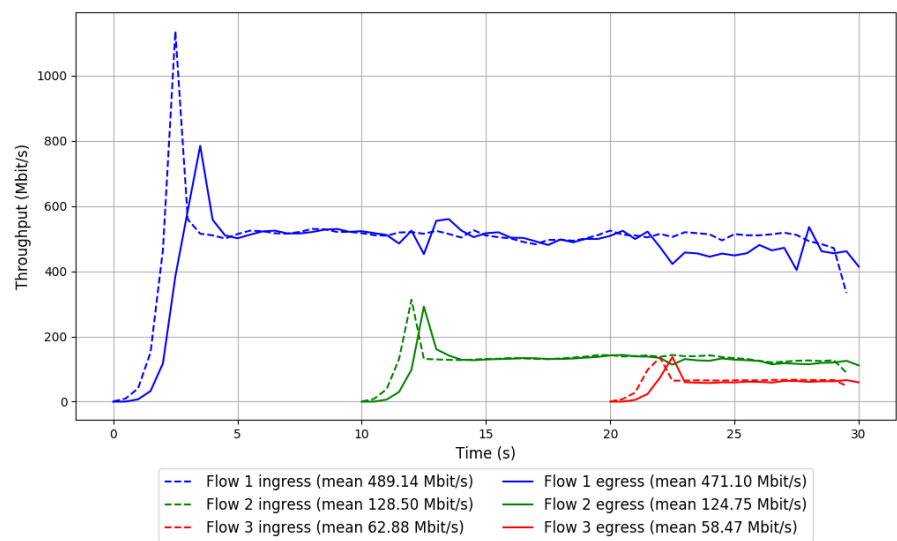
-- Flow 3:

Average throughput: 58.47 Mbit/s

95th percentile per-packet one-way delay: 203.589 ms

Loss rate: 7.03%

Run 3: Report of PCC-Allegro — Data Link

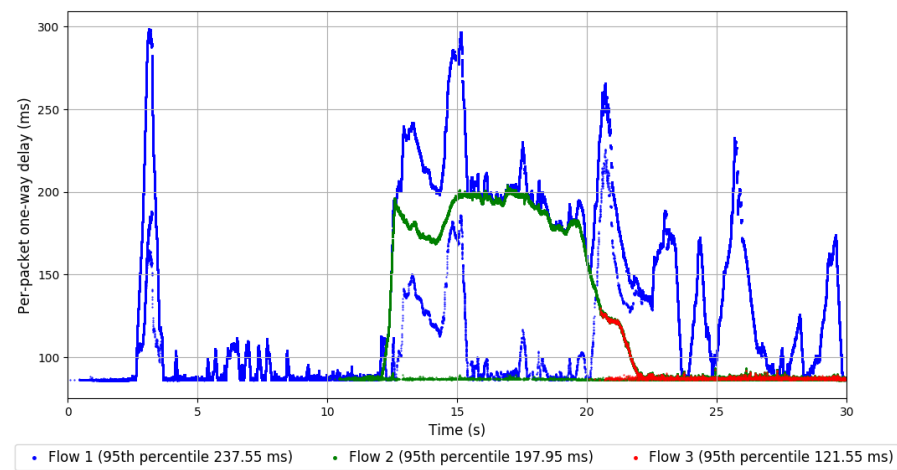
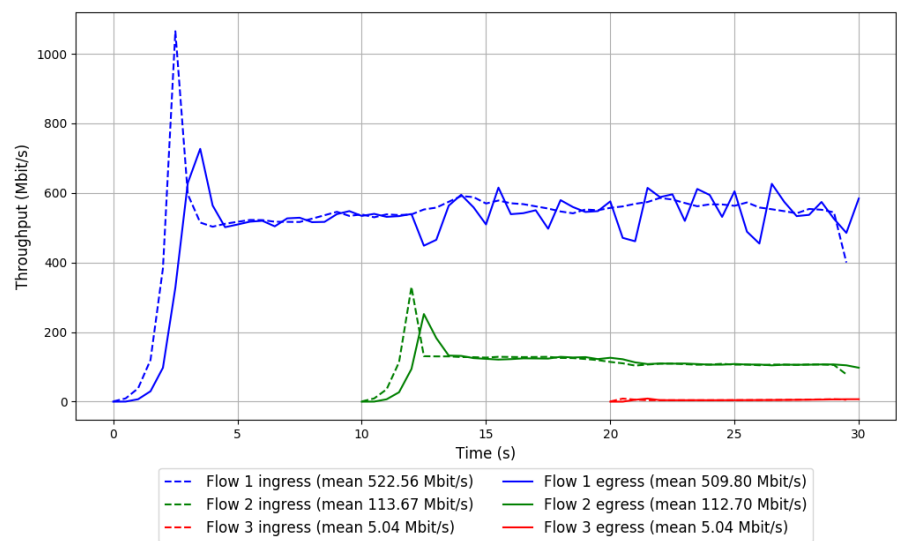


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 03:39:09
End at: 2018-05-22 03:39:39
Local clock offset: 0.092 ms
Remote clock offset: -0.302 ms

```
# Below is generated by plot.py at 2018-05-22 07:21:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 586.38 Mbit/s
95th percentile per-packet one-way delay: 234.312 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 509.80 Mbit/s
95th percentile per-packet one-way delay: 237.552 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 112.70 Mbit/s
95th percentile per-packet one-way delay: 197.952 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 121.550 ms
Loss rate: 0.07%
```

Run 4: Report of PCC-Allegro — Data Link

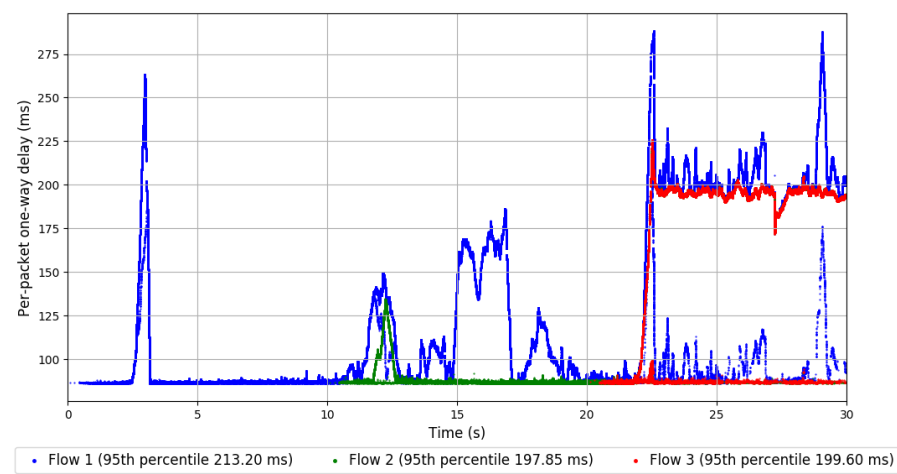
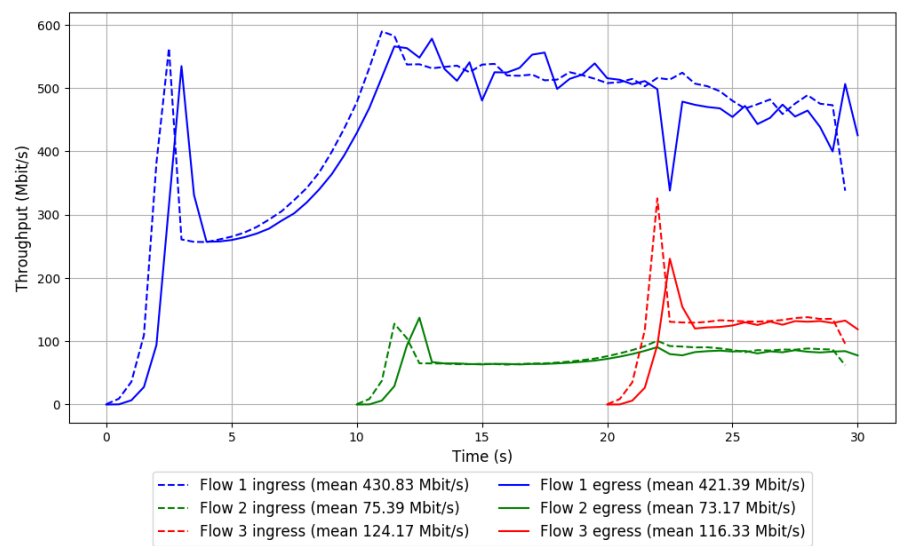


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 04:03:03
End at: 2018-05-22 04:03:33
Local clock offset: 0.053 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-05-22 07:21:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 508.34 Mbit/s
95th percentile per-packet one-way delay: 210.960 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 421.39 Mbit/s
95th percentile per-packet one-way delay: 213.202 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 197.853 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 116.33 Mbit/s
95th percentile per-packet one-way delay: 199.600 ms
Loss rate: 6.31%

Run 5: Report of PCC-Allegro — Data Link

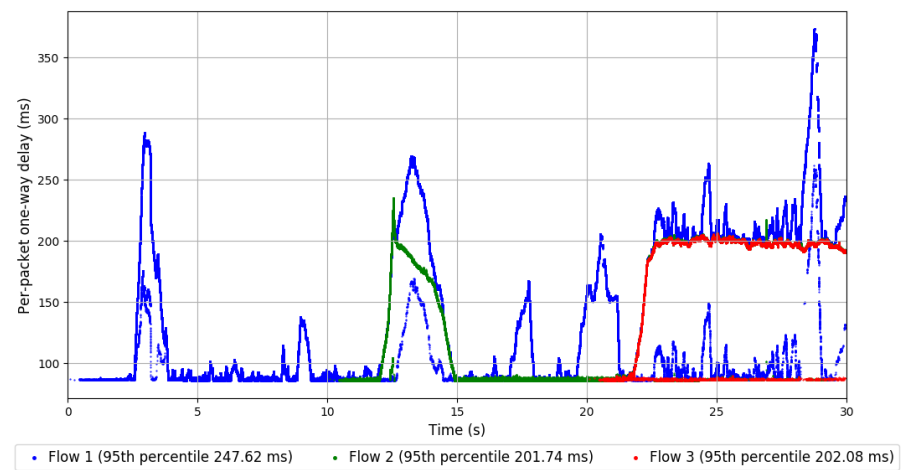
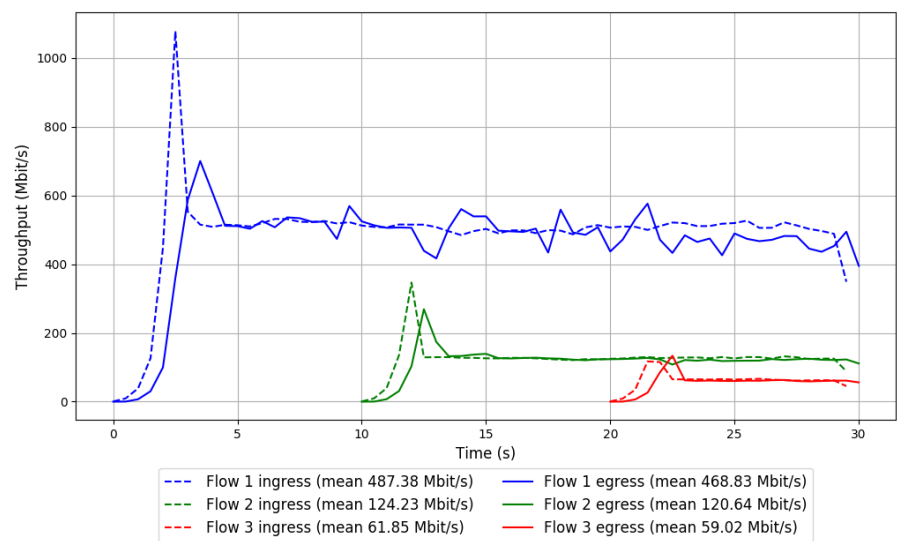


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 04:26:44
End at: 2018-05-22 04:27:14
Local clock offset: 0.164 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-05-22 07:22:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 239.134 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 468.83 Mbit/s
95th percentile per-packet one-way delay: 247.616 ms
Loss rate: 3.80%
-- Flow 2:
Average throughput: 120.64 Mbit/s
95th percentile per-packet one-way delay: 201.735 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 202.078 ms
Loss rate: 4.59%

Run 6: Report of PCC-Allegro — Data Link

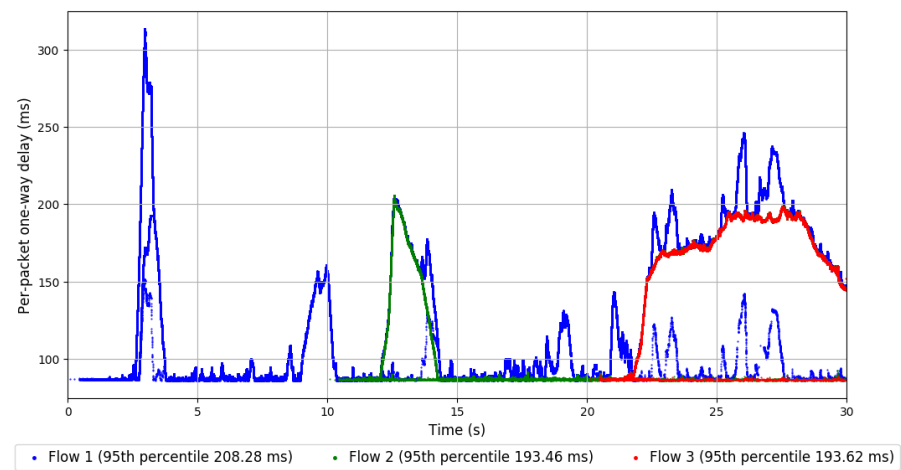
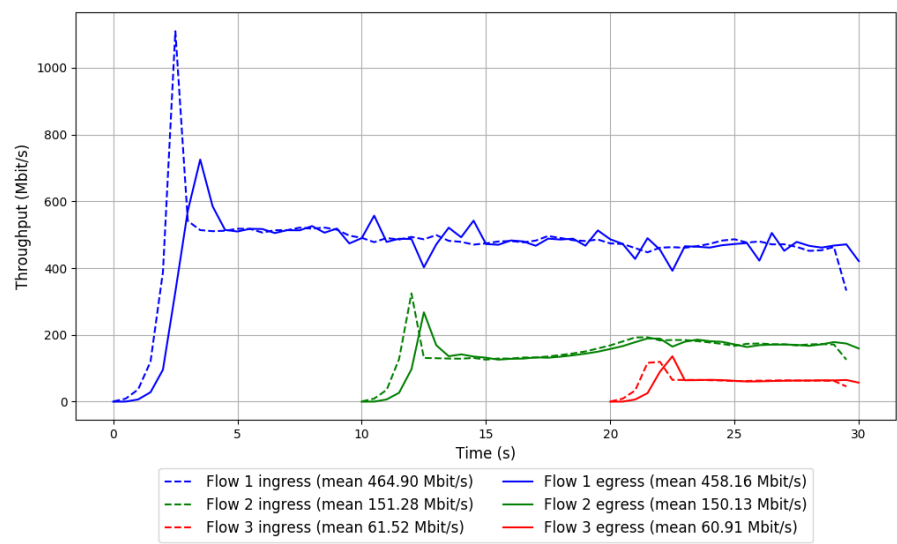


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 04:50:16
End at: 2018-05-22 04:50:46
Local clock offset: -0.13 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2018-05-22 07:28:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 577.92 Mbit/s
95th percentile per-packet one-way delay: 203.551 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 458.16 Mbit/s
95th percentile per-packet one-way delay: 208.281 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 150.13 Mbit/s
95th percentile per-packet one-way delay: 193.457 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 193.624 ms
Loss rate: 0.99%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 05:13:58

End at: 2018-05-22 05:14:28

Local clock offset: -0.047 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-22 07:28:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.95 Mbit/s

95th percentile per-packet one-way delay: 228.933 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 499.15 Mbit/s

95th percentile per-packet one-way delay: 229.011 ms

Loss rate: 2.93%

-- Flow 2:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 223.218 ms

Loss rate: 1.22%

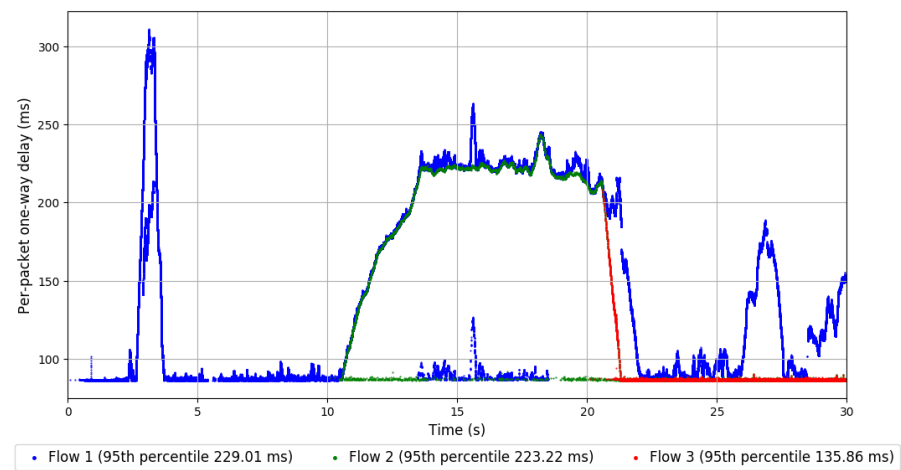
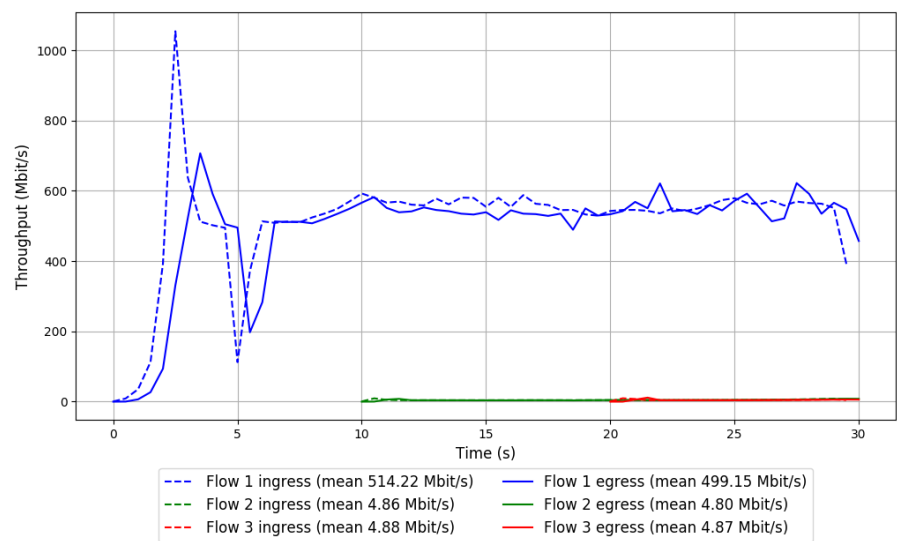
-- Flow 3:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 135.863 ms

Loss rate: 0.03%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 05:37:32

End at: 2018-05-22 05:38:02

Local clock offset: -0.198 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-22 07:29:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.38 Mbit/s

95th percentile per-packet one-way delay: 261.352 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 464.71 Mbit/s

95th percentile per-packet one-way delay: 270.171 ms

Loss rate: 4.71%

-- Flow 2:

Average throughput: 124.57 Mbit/s

95th percentile per-packet one-way delay: 198.923 ms

Loss rate: 2.93%

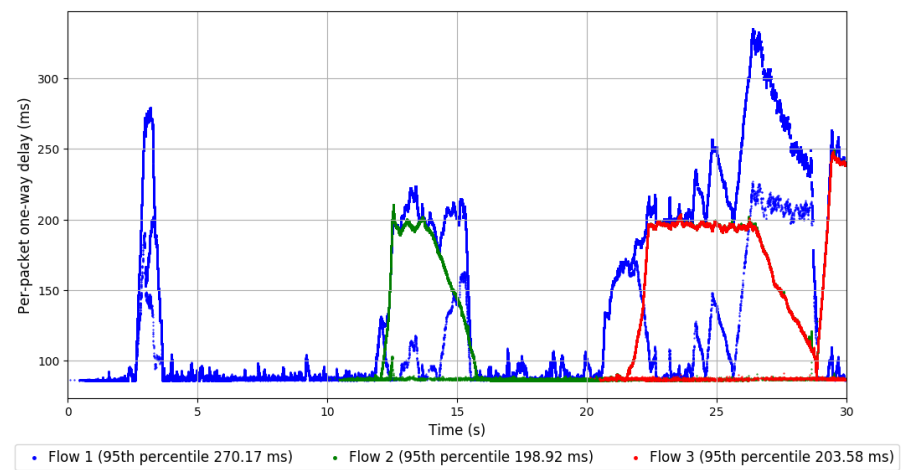
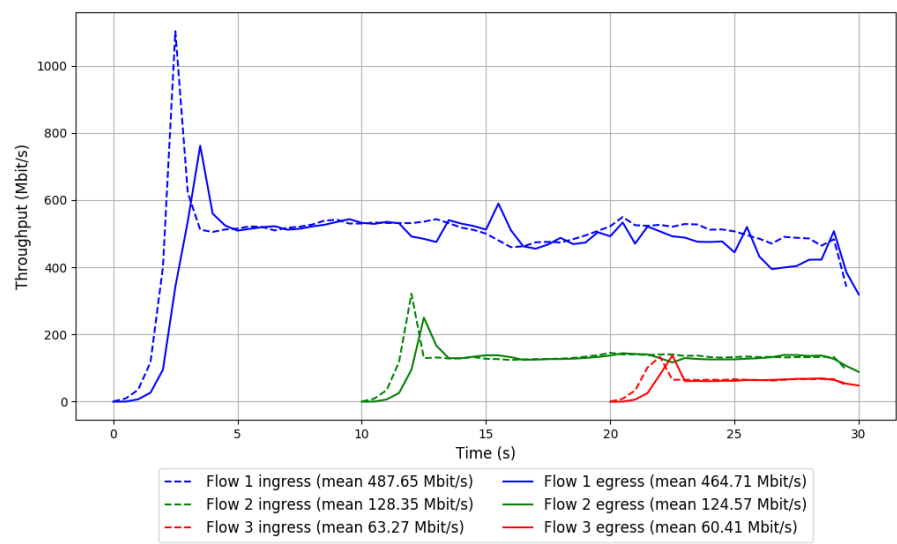
-- Flow 3:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 203.580 ms

Loss rate: 4.60%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 06:01:08

End at: 2018-05-22 06:01:38

Local clock offset: 0.059 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-05-22 07:29:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.53 Mbit/s

95th percentile per-packet one-way delay: 236.343 ms

Loss rate: 4.57%

-- Flow 1:

Average throughput: 460.16 Mbit/s

95th percentile per-packet one-way delay: 236.535 ms

Loss rate: 4.63%

-- Flow 2:

Average throughput: 118.27 Mbit/s

95th percentile per-packet one-way delay: 235.831 ms

Loss rate: 4.28%

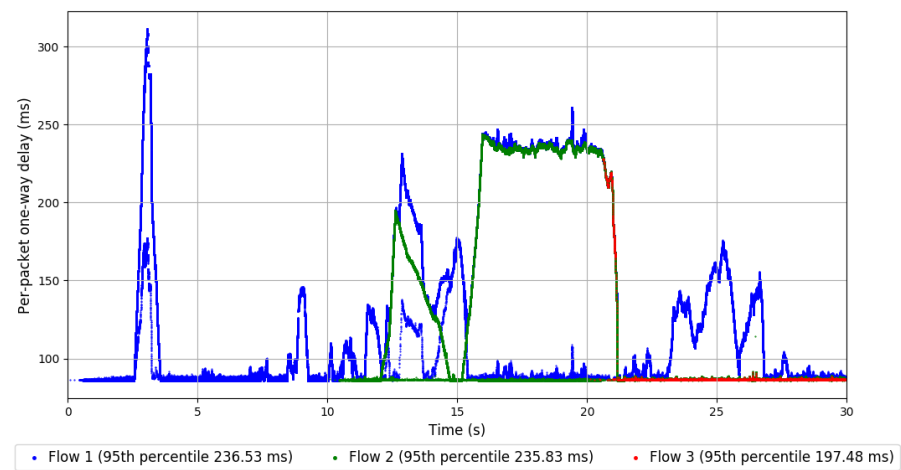
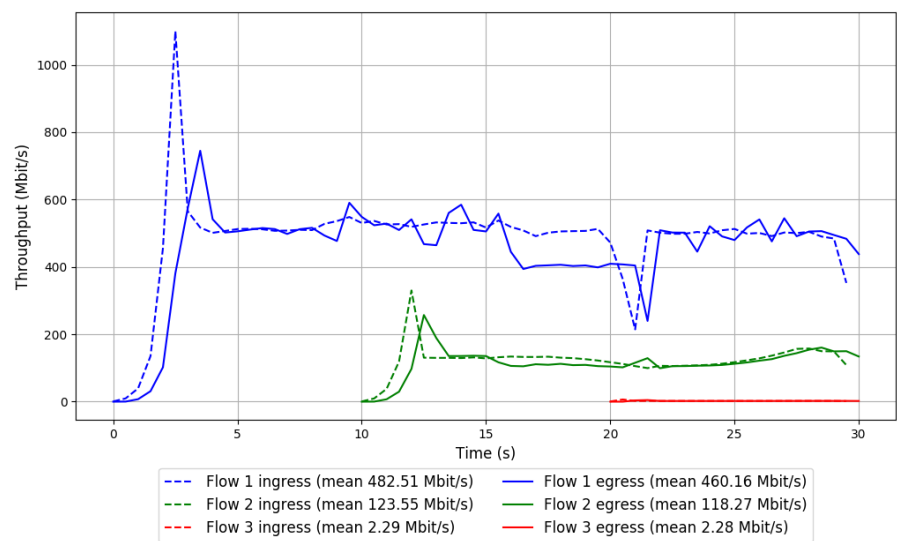
-- Flow 3:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 197.480 ms

Loss rate: 0.59%

Run 10: Report of PCC-Allegro — Data Link

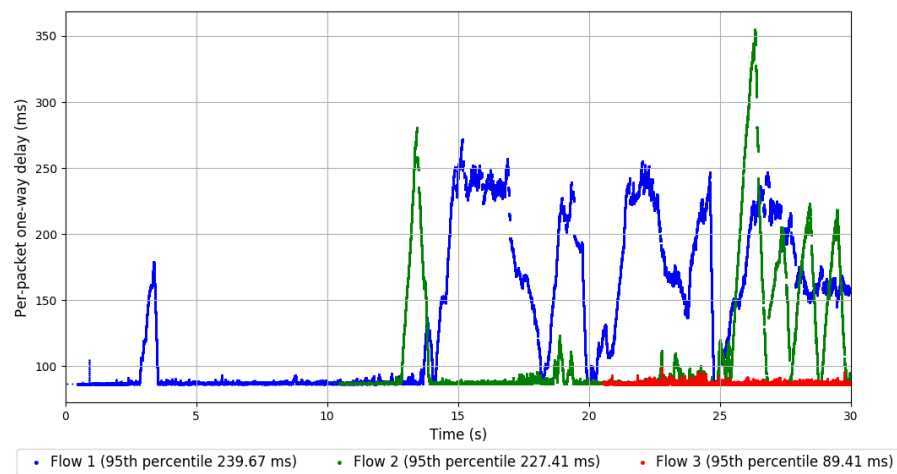
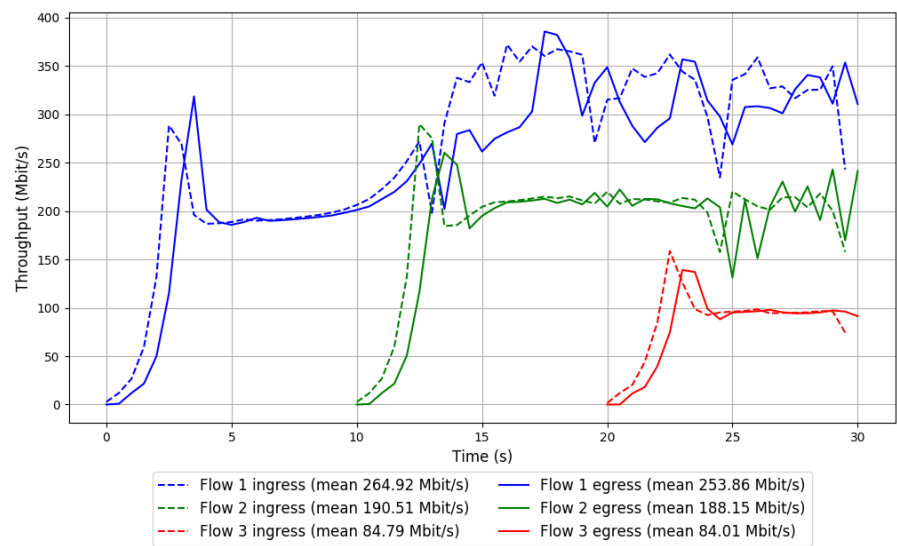


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 02:23:27
End at: 2018-05-22 02:23:57
Local clock offset: -0.15 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-05-22 07:33:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.69 Mbit/s
95th percentile per-packet one-way delay: 238.277 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 253.86 Mbit/s
95th percentile per-packet one-way delay: 239.671 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 188.15 Mbit/s
95th percentile per-packet one-way delay: 227.408 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 84.01 Mbit/s
95th percentile per-packet one-way delay: 89.412 ms
Loss rate: 0.92%
```

Run 1: Report of PCC-Expr — Data Link

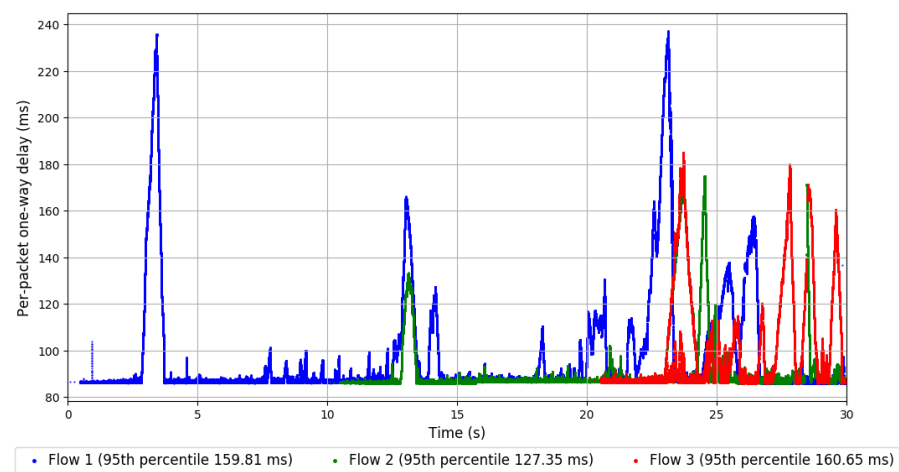
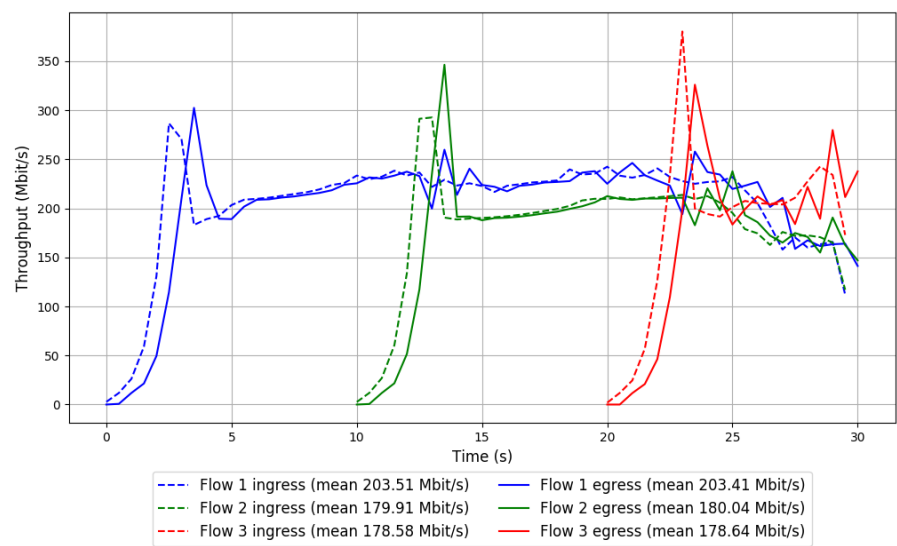


Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 02:47:13
End at: 2018-05-22 02:47:43
Local clock offset: 0.034 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-05-22 07:33:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 381.93 Mbit/s
95th percentile per-packet one-way delay: 153.384 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 203.41 Mbit/s
95th percentile per-packet one-way delay: 159.806 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 180.04 Mbit/s
95th percentile per-packet one-way delay: 127.354 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 178.64 Mbit/s
95th percentile per-packet one-way delay: 160.654 ms
Loss rate: 0.37%

Run 2: Report of PCC-Expr — Data Link

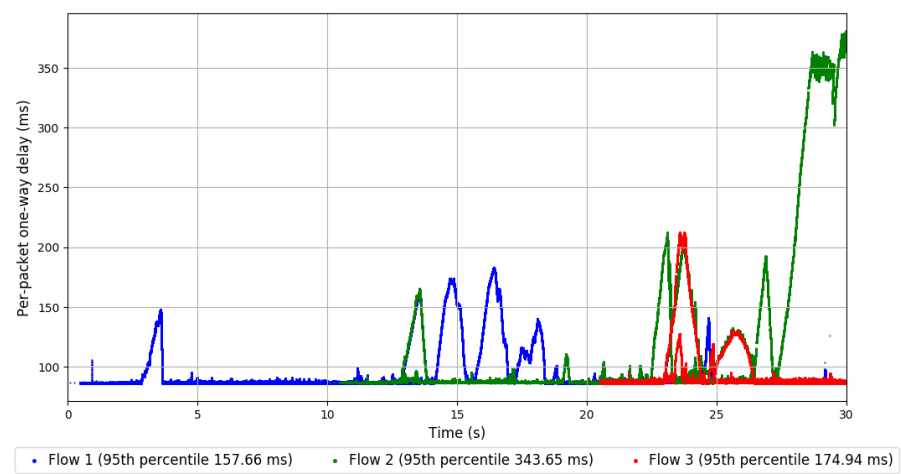
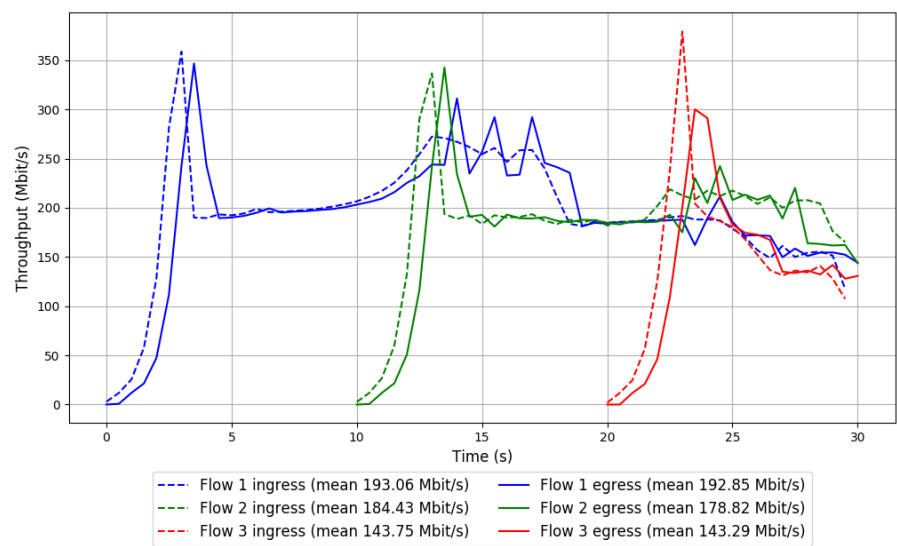


Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 03:10:58
End at: 2018-05-22 03:11:28
Local clock offset: 0.16 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-22 07:33:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.02 Mbit/s
95th percentile per-packet one-way delay: 181.496 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 192.85 Mbit/s
95th percentile per-packet one-way delay: 157.665 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 178.82 Mbit/s
95th percentile per-packet one-way delay: 343.653 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 143.29 Mbit/s
95th percentile per-packet one-way delay: 174.943 ms
Loss rate: 0.35%

Run 3: Report of PCC-Expr — Data Link

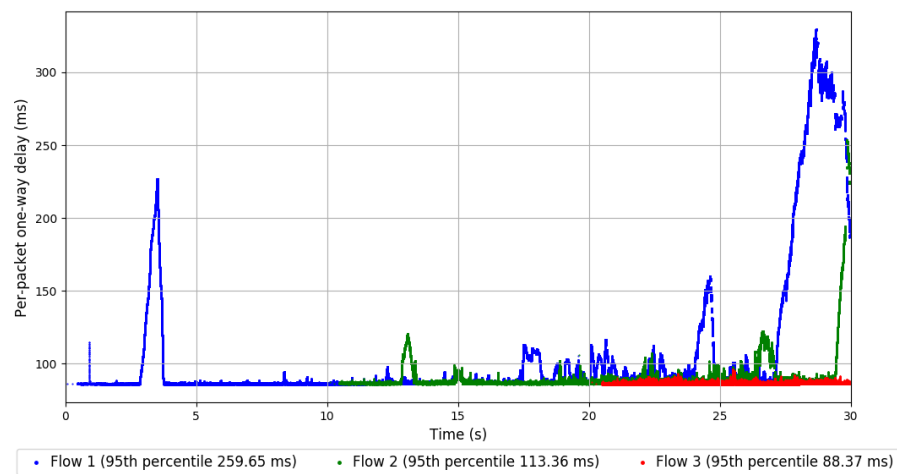
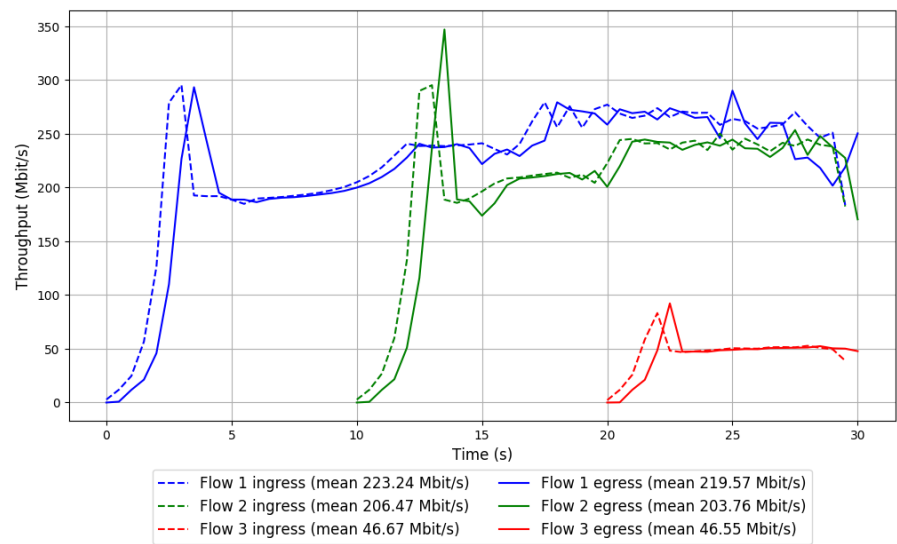


Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 03:34:30
End at: 2018-05-22 03:35:00
Local clock offset: 0.018 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-05-22 07:33:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 370.45 Mbit/s
95th percentile per-packet one-way delay: 201.434 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 219.57 Mbit/s
95th percentile per-packet one-way delay: 259.654 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 203.76 Mbit/s
95th percentile per-packet one-way delay: 113.358 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 46.55 Mbit/s
95th percentile per-packet one-way delay: 88.367 ms
Loss rate: 0.26%

Run 4: Report of PCC-Expr — Data Link

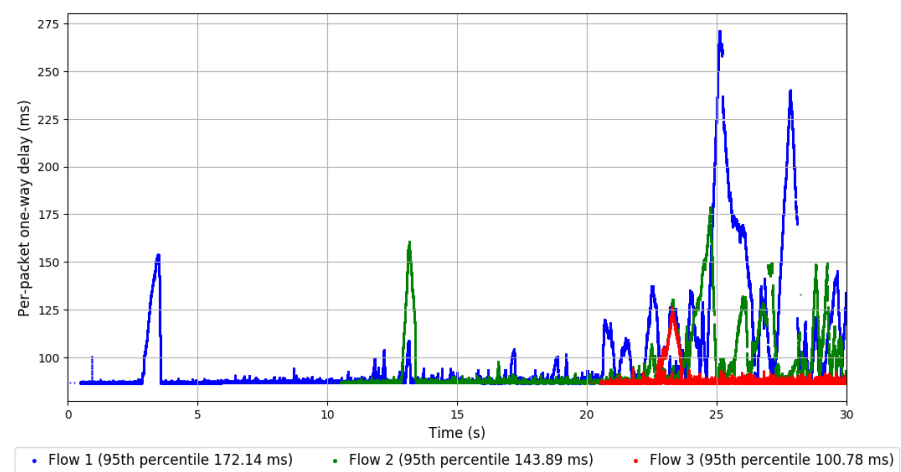
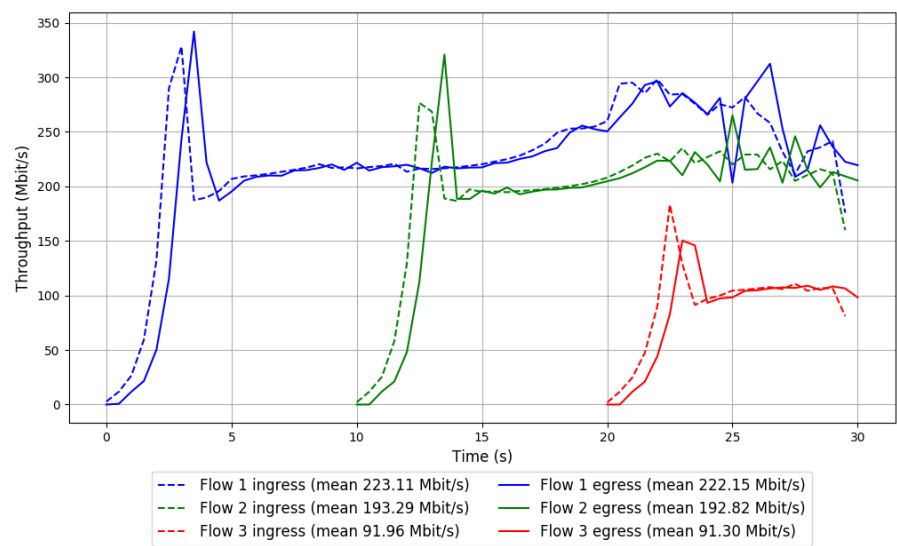


Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 03:58:22
End at: 2018-05-22 03:58:52
Local clock offset: -0.363 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-05-22 07:39:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.45 Mbit/s
95th percentile per-packet one-way delay: 155.425 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 222.15 Mbit/s
95th percentile per-packet one-way delay: 172.140 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 192.82 Mbit/s
95th percentile per-packet one-way delay: 143.894 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 100.781 ms
Loss rate: 0.76%

Run 5: Report of PCC-Expr — Data Link

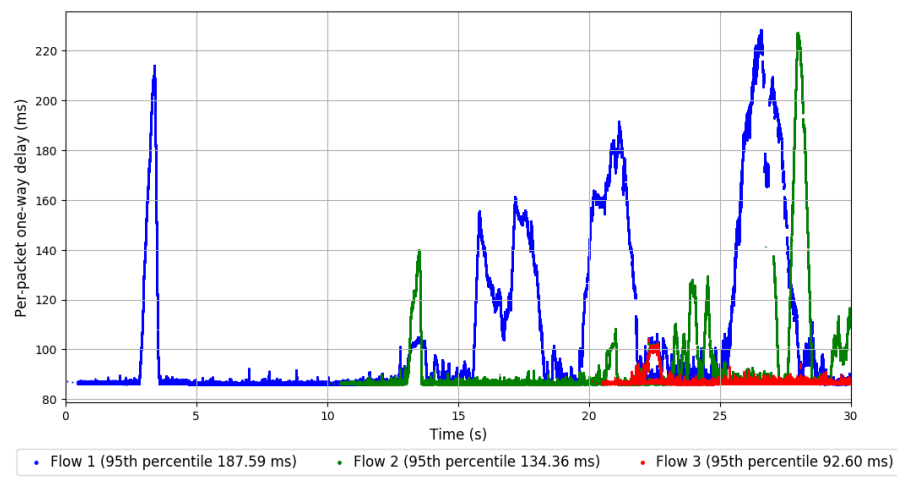
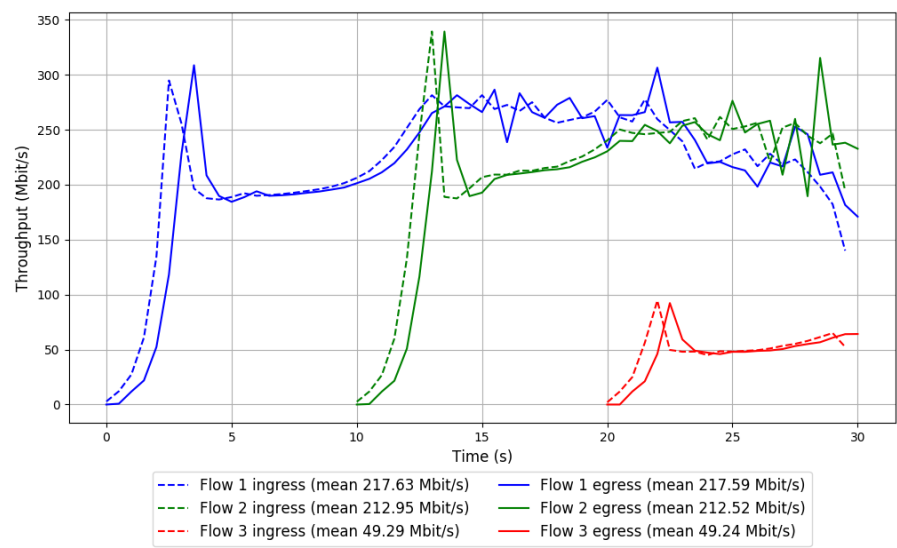


Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 04:22:04
End at: 2018-05-22 04:22:34
Local clock offset: 0.103 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-05-22 07:40:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 375.17 Mbit/s
95th percentile per-packet one-way delay: 179.039 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 217.59 Mbit/s
95th percentile per-packet one-way delay: 187.586 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 212.52 Mbit/s
95th percentile per-packet one-way delay: 134.364 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 92.602 ms
Loss rate: 0.09%

Run 6: Report of PCC-Expr — Data Link

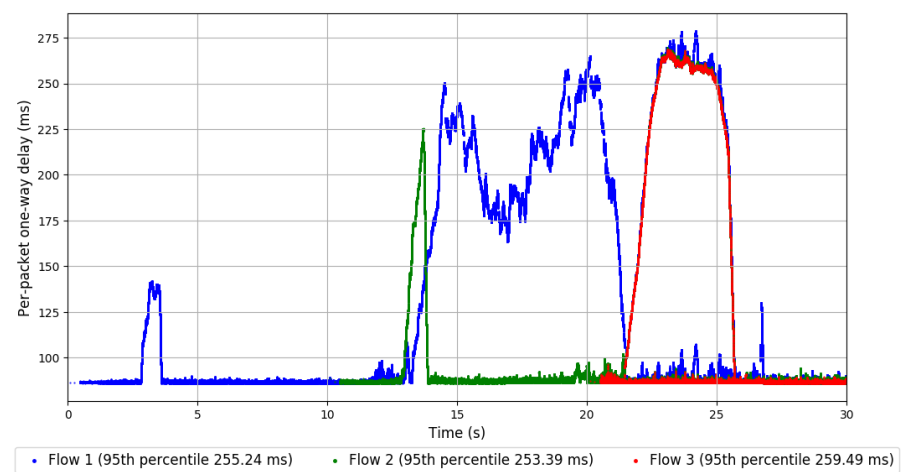
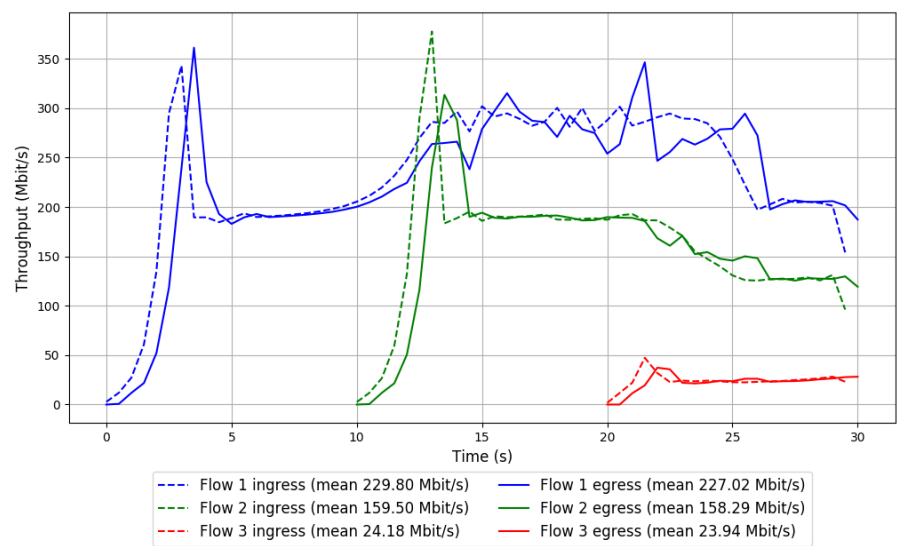


Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 04:45:42
End at: 2018-05-22 04:46:12
Local clock offset: -0.059 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-05-22 07:40:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.18 Mbit/s
95th percentile per-packet one-way delay: 255.431 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 227.02 Mbit/s
95th percentile per-packet one-way delay: 255.236 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 158.29 Mbit/s
95th percentile per-packet one-way delay: 253.392 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 259.491 ms
Loss rate: 1.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 05:09:19

End at: 2018-05-22 05:09:49

Local clock offset: -0.031 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-05-22 07:41:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.73 Mbit/s

95th percentile per-packet one-way delay: 205.545 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 179.58 Mbit/s

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

Loss rate: 0.31%

-- Flow 2:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 175.276 ms

Loss rate: 0.64%

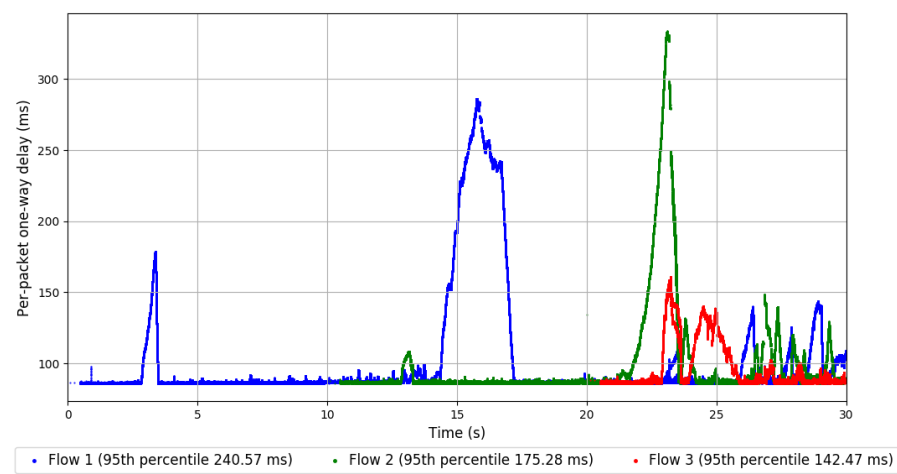
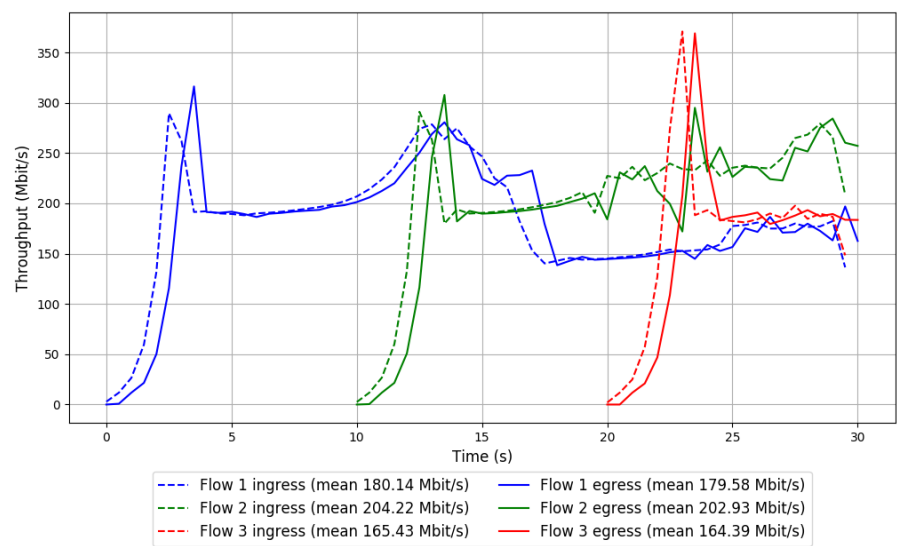
-- Flow 3:

Average throughput: 164.39 Mbit/s

95th percentile per-packet one-way delay: 142.468 ms

Loss rate: 0.64%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 05:32:54

End at: 2018-05-22 05:33:24

Local clock offset: -0.179 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-22 07:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.50 Mbit/s

95th percentile per-packet one-way delay: 165.774 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 189.89 Mbit/s

95th percentile per-packet one-way delay: 135.383 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 173.48 Mbit/s

95th percentile per-packet one-way delay: 172.293 ms

Loss rate: 0.09%

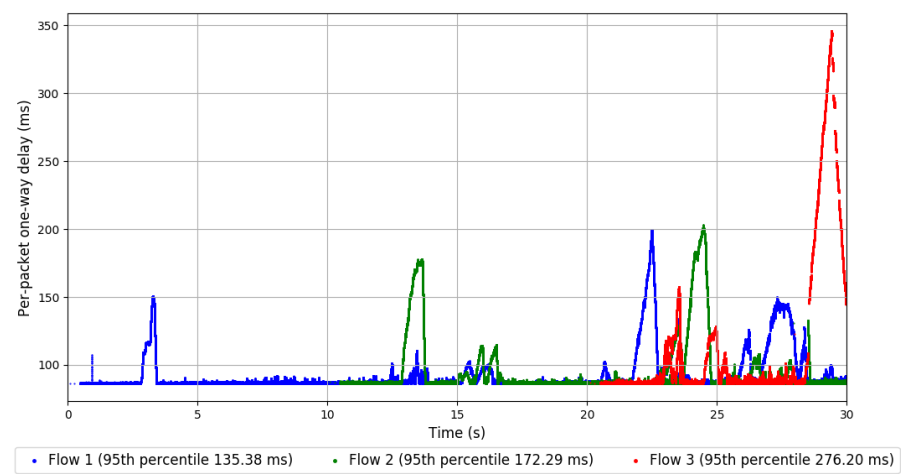
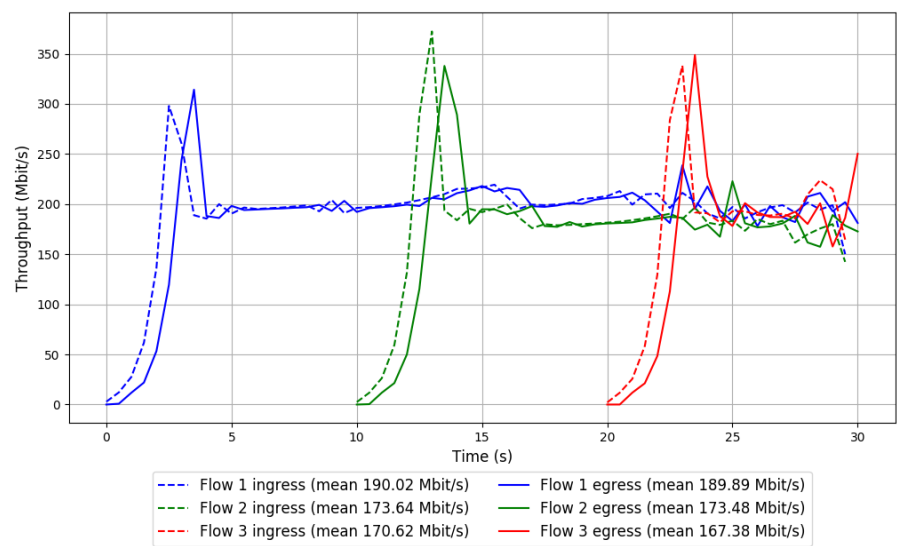
-- Flow 3:

Average throughput: 167.38 Mbit/s

95th percentile per-packet one-way delay: 276.196 ms

Loss rate: 1.88%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 05:56:31

End at: 2018-05-22 05:57:01

Local clock offset: 0.007 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 381.59 Mbit/s

95th percentile per-packet one-way delay: 260.693 ms

Loss rate: 3.11%

-- Flow 1:

Average throughput: 228.18 Mbit/s

95th percentile per-packet one-way delay: 297.829 ms

Loss rate: 3.34%

-- Flow 2:

Average throughput: 202.85 Mbit/s

95th percentile per-packet one-way delay: 204.322 ms

Loss rate: 2.47%

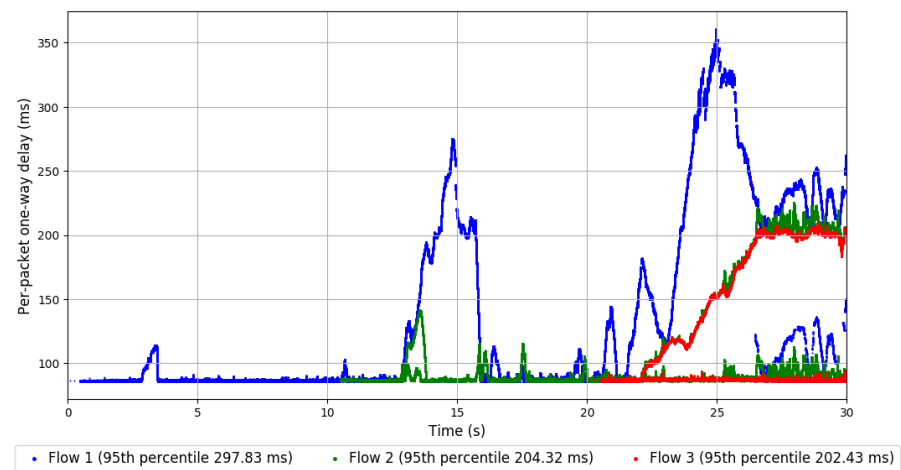
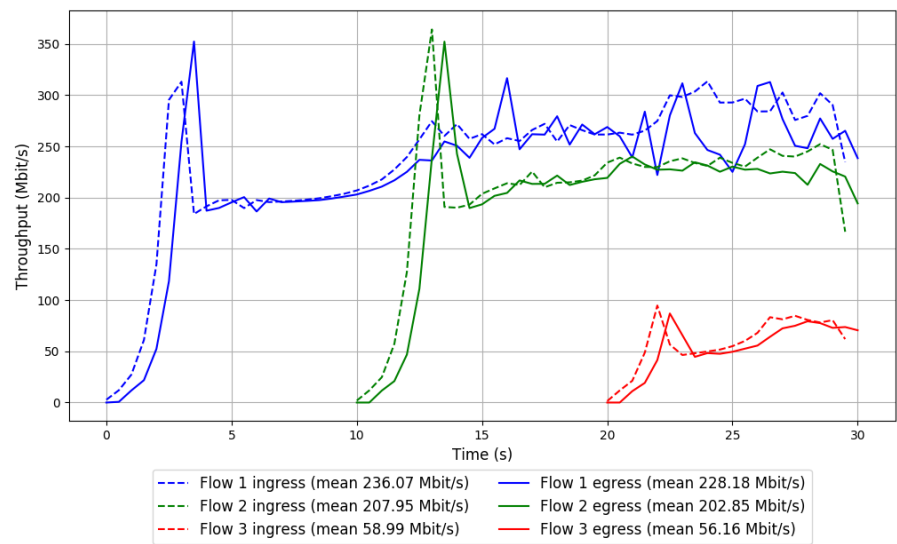
-- Flow 3:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 202.429 ms

Loss rate: 4.79%

Run 10: Report of PCC-Expr — Data Link

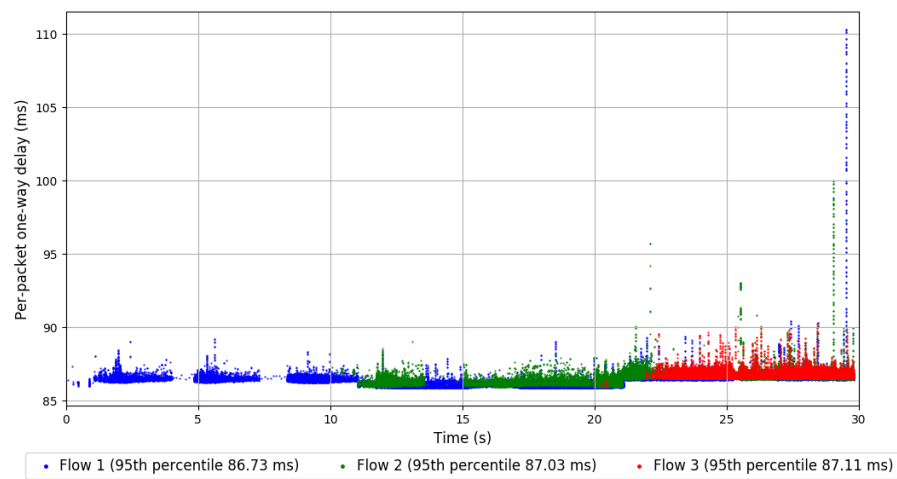
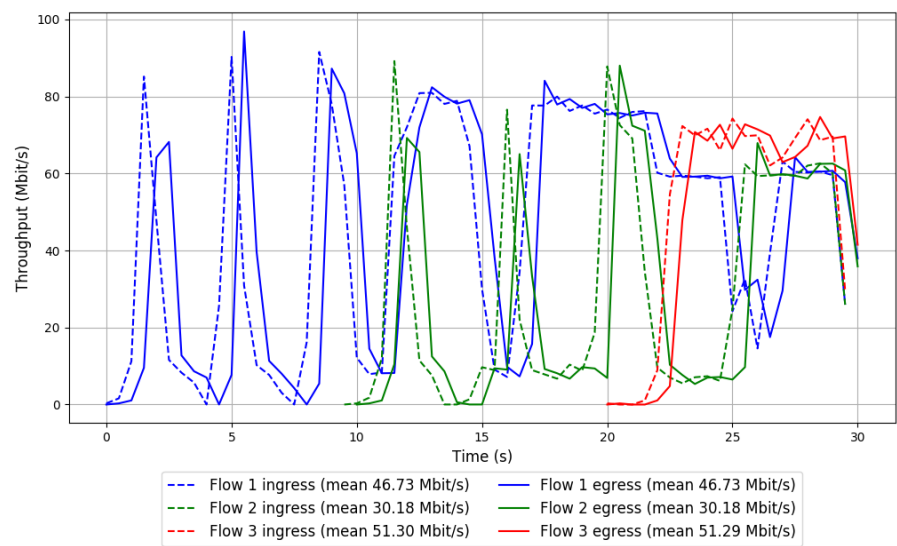


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 02:25:17
End at: 2018-05-22 02:25:47
Local clock offset: -0.022 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.50 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 86.728 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.29 Mbit/s
95th percentile per-packet one-way delay: 87.112 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 02:49:00

End at: 2018-05-22 02:49:30

Local clock offset: -0.249 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 87.181 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.00%

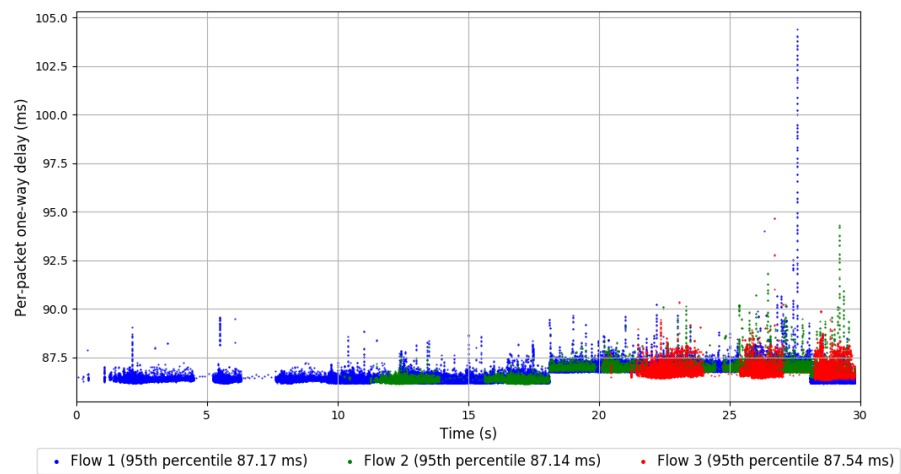
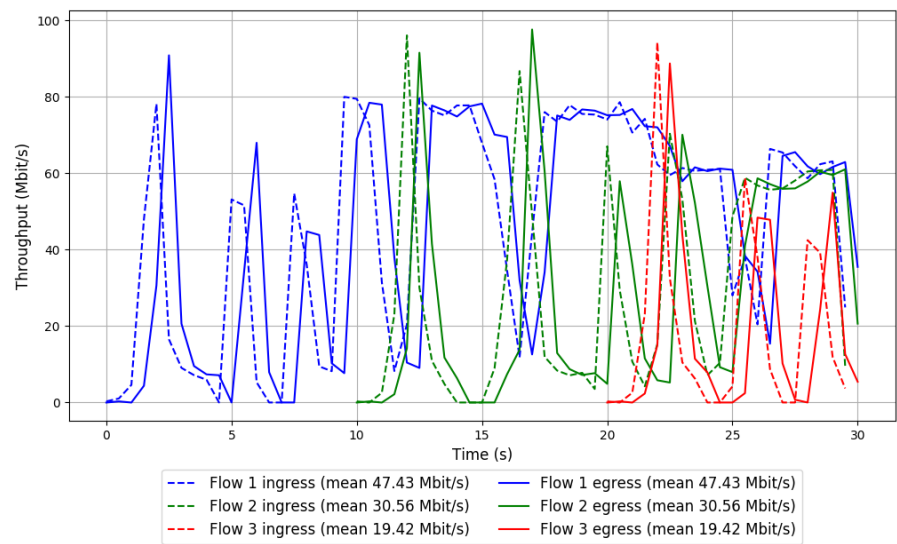
-- Flow 3:

Average throughput: 19.42 Mbit/s

95th percentile per-packet one-way delay: 87.539 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 03:12:42

End at: 2018-05-22 03:13:12

Local clock offset: 0.035 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.76 Mbit/s

95th percentile per-packet one-way delay: 86.892 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 86.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.76 Mbit/s

95th percentile per-packet one-way delay: 87.091 ms

Loss rate: 0.00%

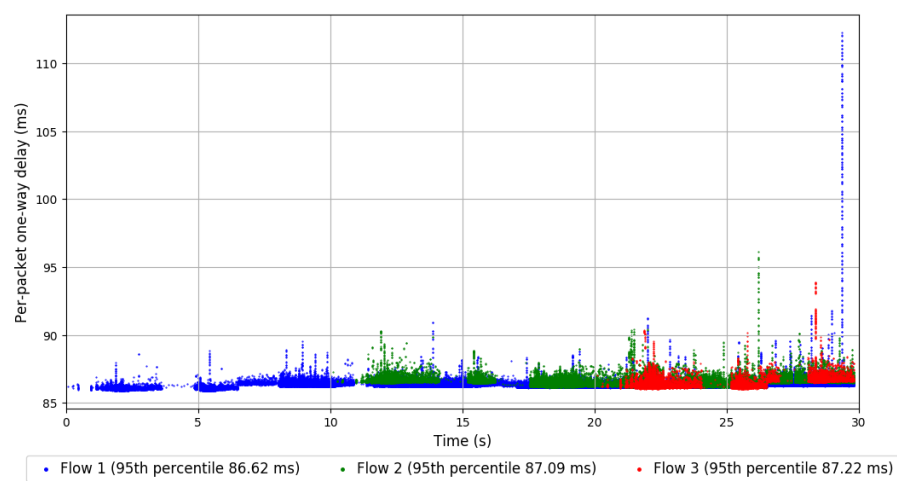
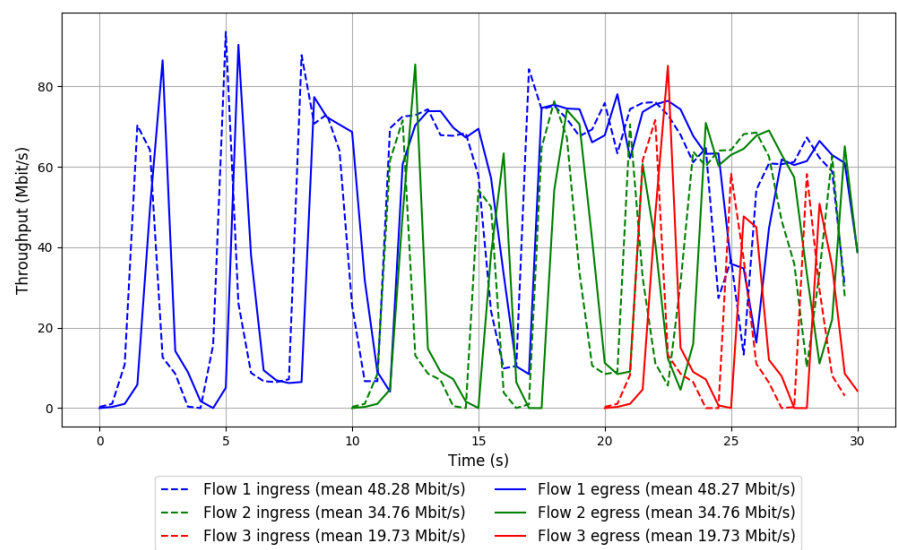
-- Flow 3:

Average throughput: 19.73 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

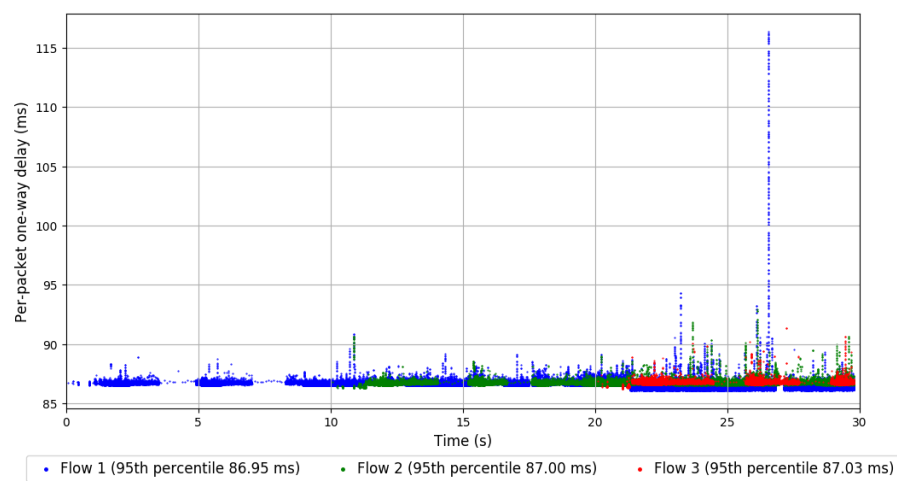
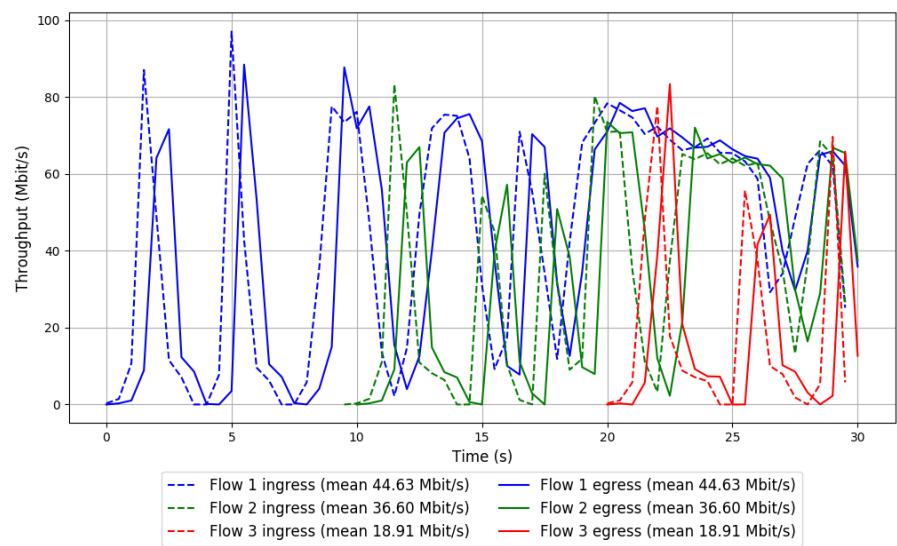


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 03:36:17
End at: 2018-05-22 03:36:47
Local clock offset: -0.06 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.09 Mbit/s
95th percentile per-packet one-way delay: 86.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.63 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 87.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.91 Mbit/s
95th percentile per-packet one-way delay: 87.027 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

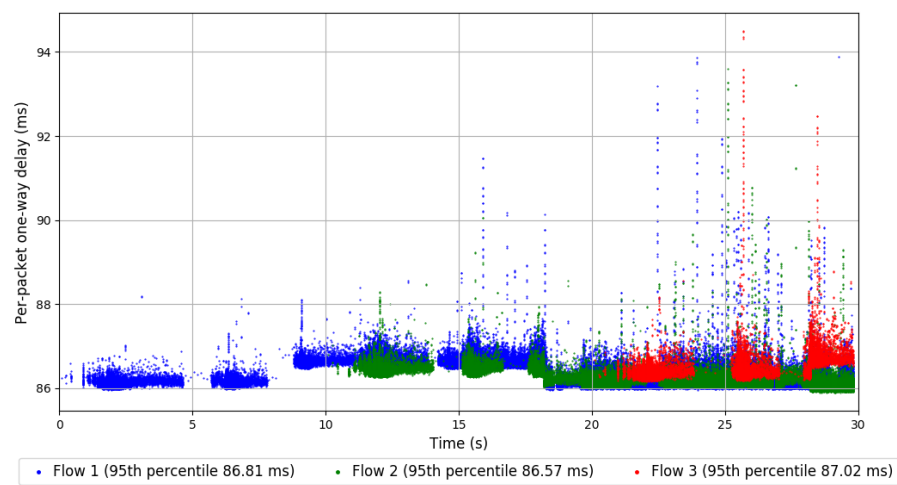
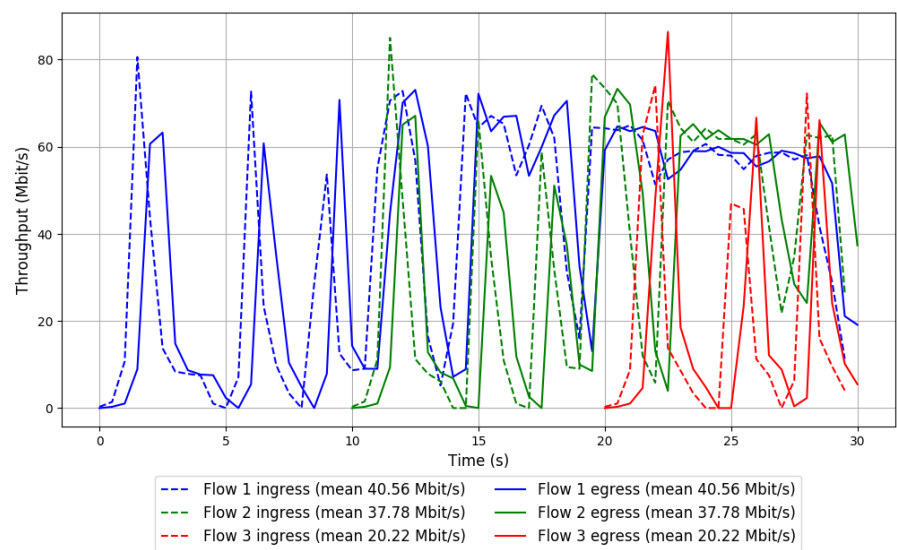


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 04:00:10
End at: 2018-05-22 04:00:40
Local clock offset: 0.039 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 86.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 86.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.22 Mbit/s
95th percentile per-packet one-way delay: 87.022 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

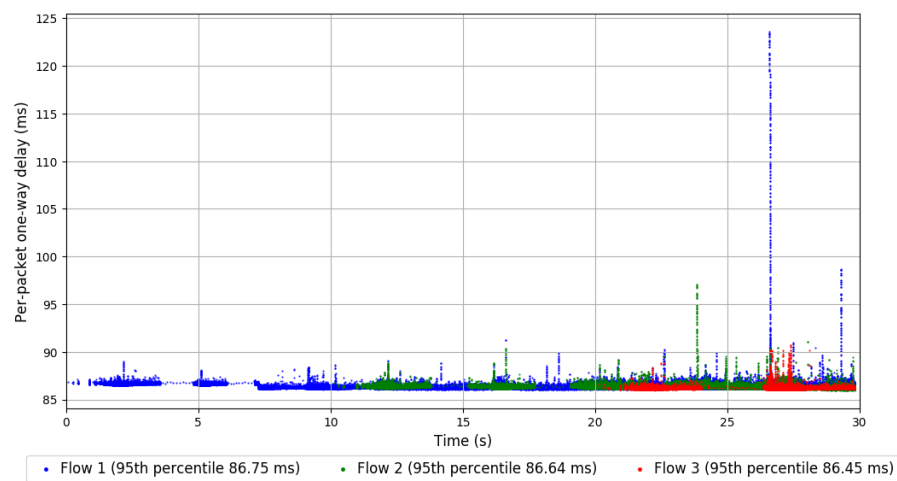
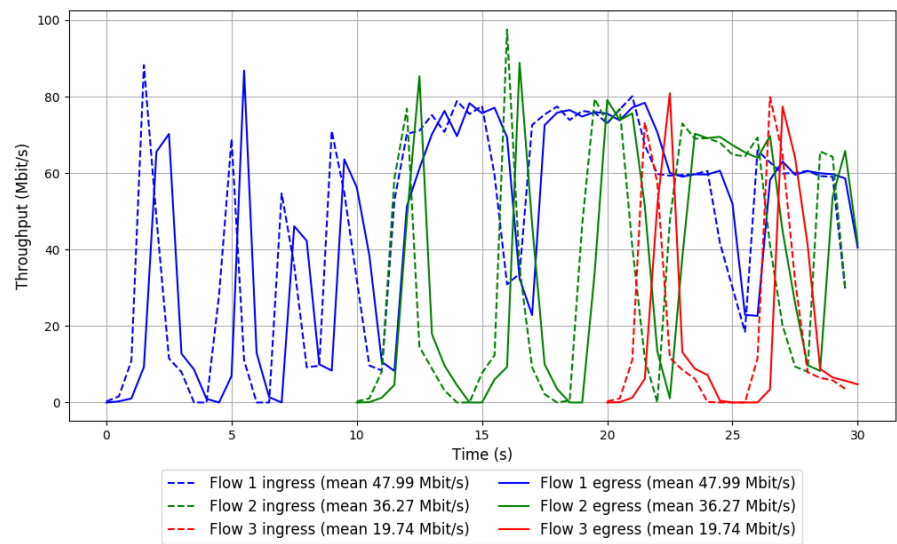


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 04:23:51
End at: 2018-05-22 04:24:21
Local clock offset: 0.066 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 86.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.99 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 86.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.74 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

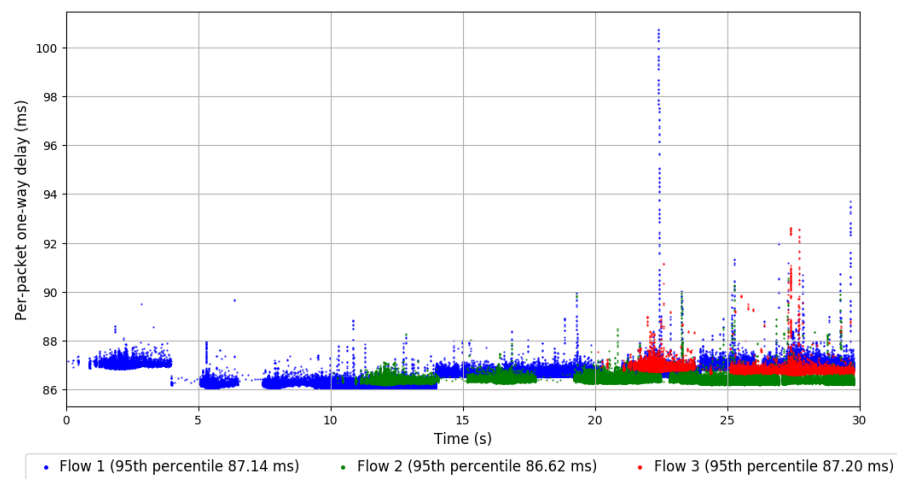
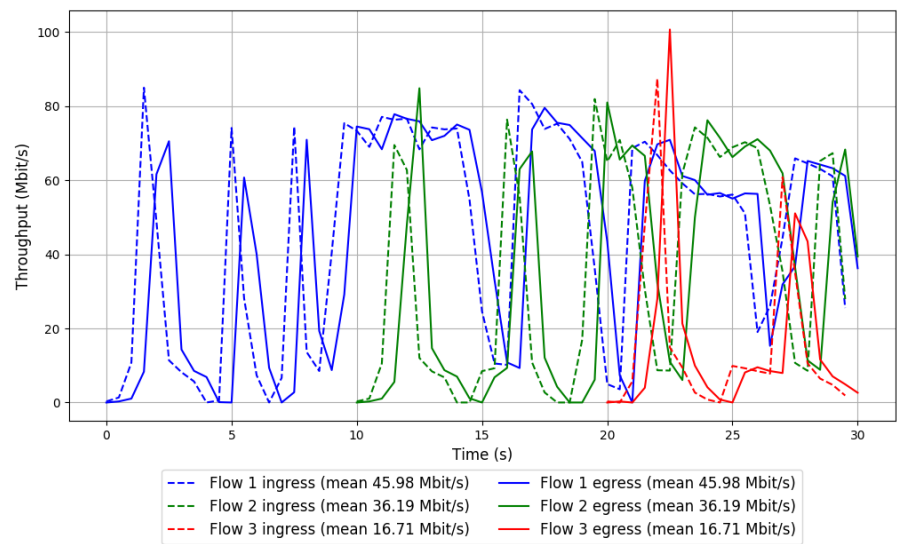


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 04:47:24
End at: 2018-05-22 04:47:54
Local clock offset: -0.058 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.43 Mbit/s
95th percentile per-packet one-way delay: 87.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 87.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 86.622 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 87.200 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 05:11:05

End at: 2018-05-22 05:11:35

Local clock offset: -0.171 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.24 Mbit/s

95th percentile per-packet one-way delay: 87.089 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.59 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.00%

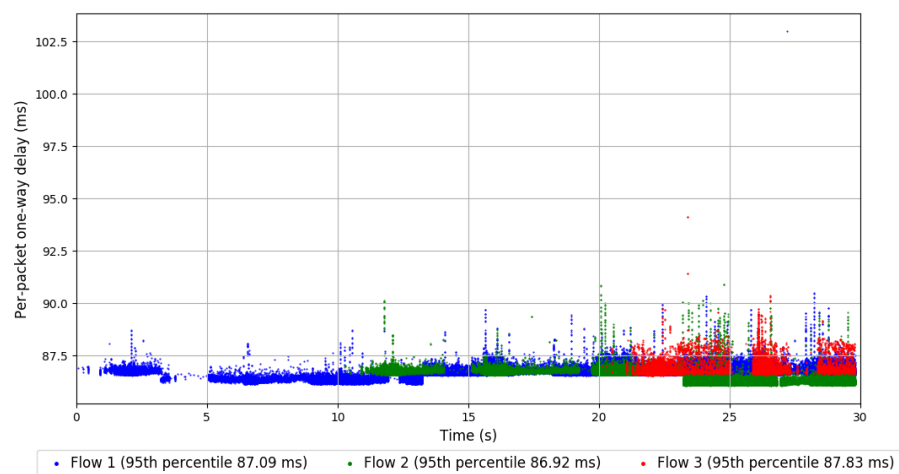
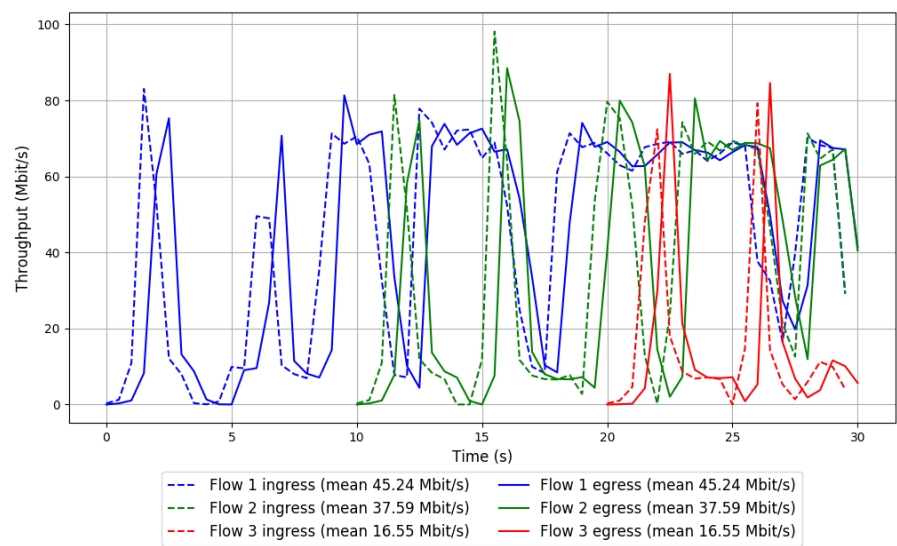
-- Flow 3:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 87.834 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 05:34:40

End at: 2018-05-22 05:35:10

Local clock offset: 0.147 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.86 Mbit/s

95th percentile per-packet one-way delay: 86.543 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 86.441 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 86.639 ms

Loss rate: 0.00%

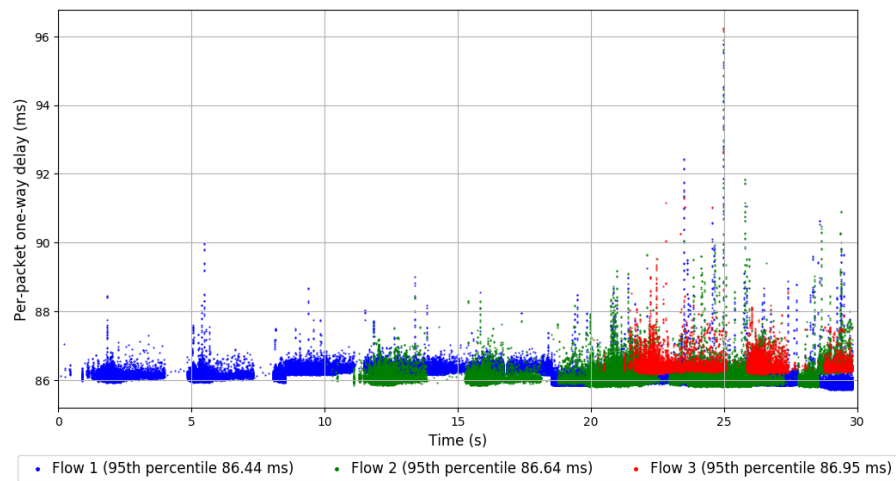
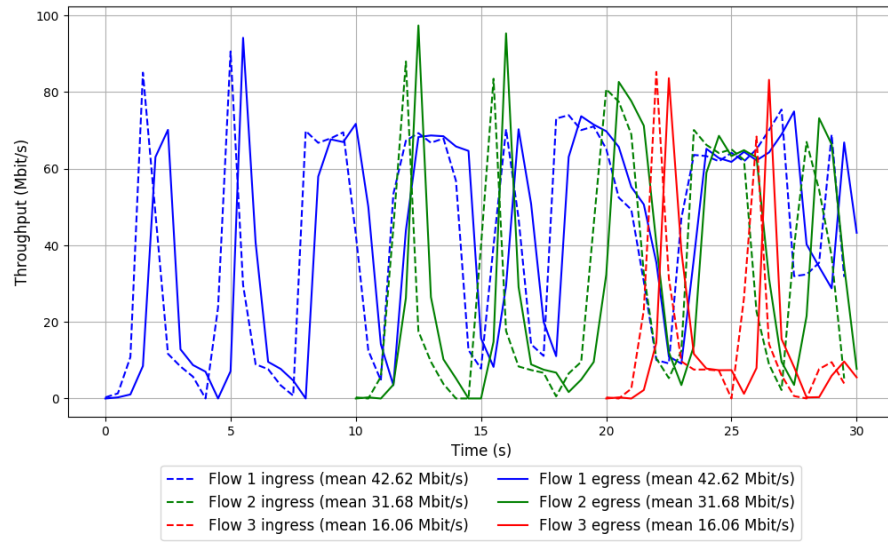
-- Flow 3:

Average throughput: 16.06 Mbit/s

95th percentile per-packet one-way delay: 86.952 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

End at: 2018-05-22 05:58:47

Local clock offset: -0.24 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 86.999 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 87.039 ms

Loss rate: 0.00%

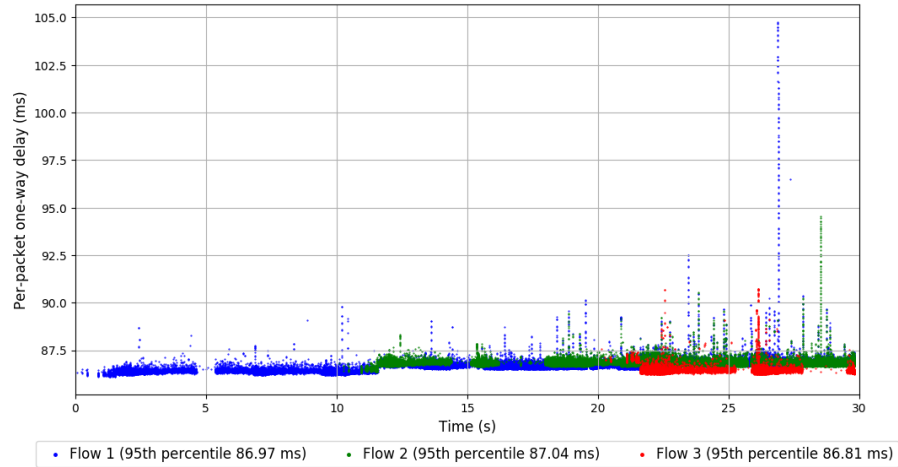
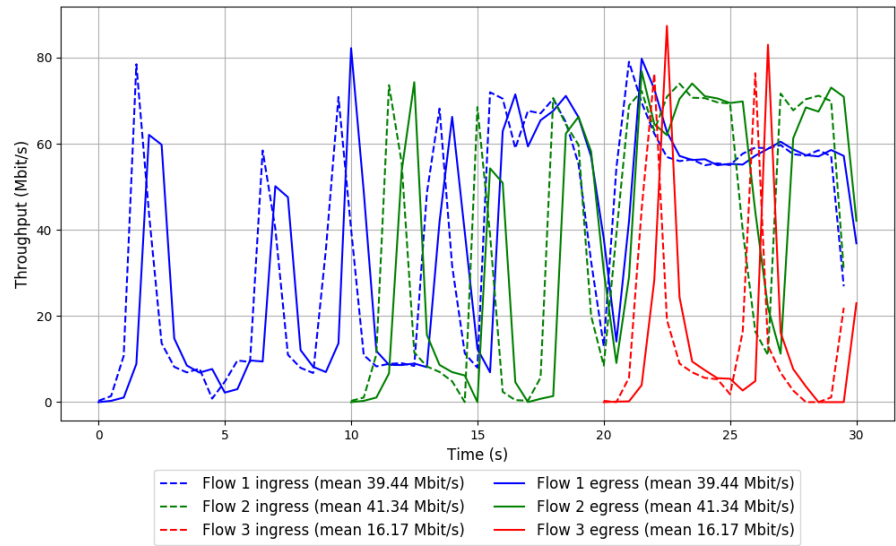
-- Flow 3:

Average throughput: 16.17 Mbit/s

95th percentile per-packet one-way delay: 86.813 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

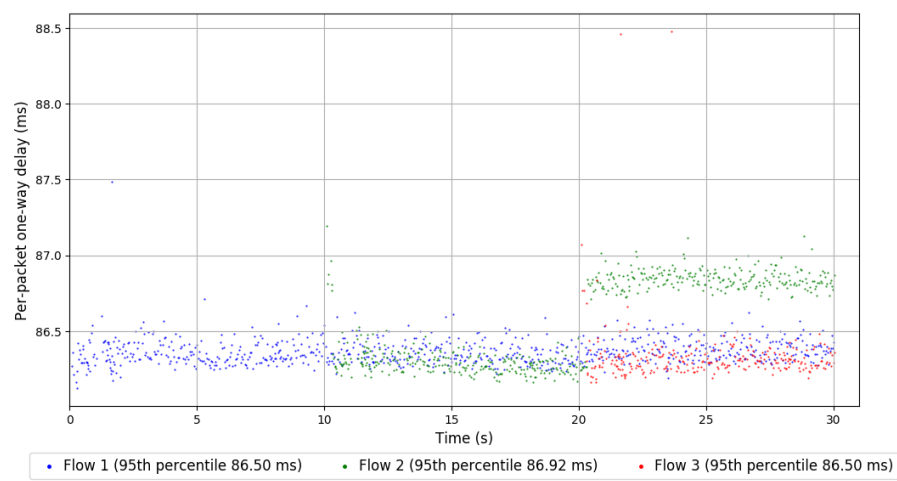
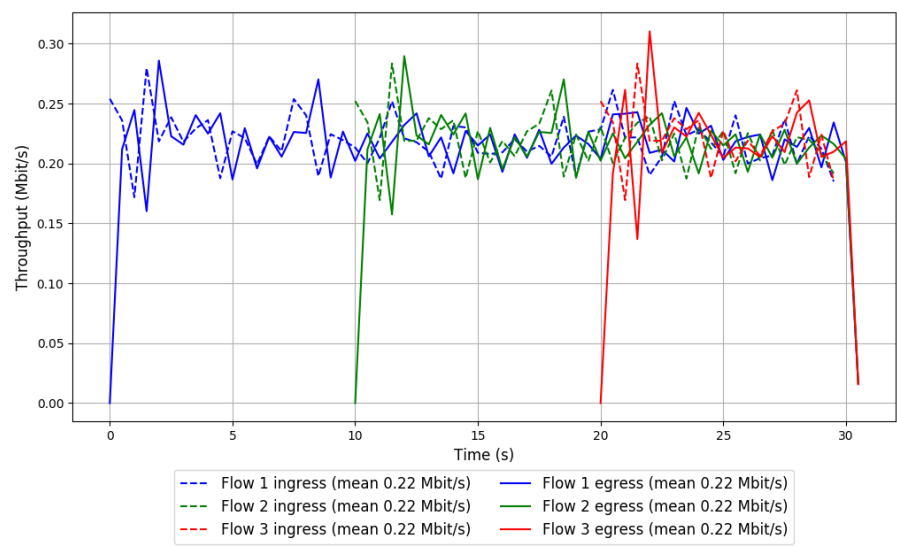


```
Run 1: Statistics of SReAM

Start at: 2018-05-22 02:17:58
End at: 2018-05-22 02:18:28
Local clock offset: -0.041 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.499 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.499 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

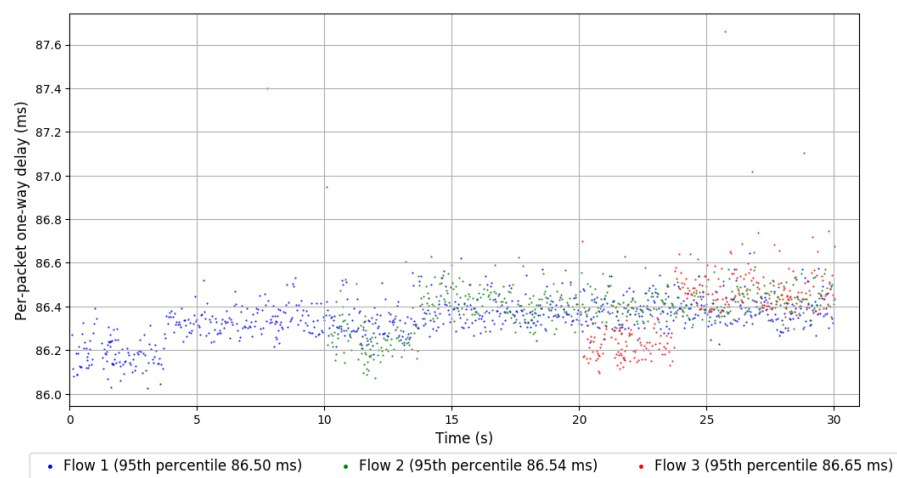
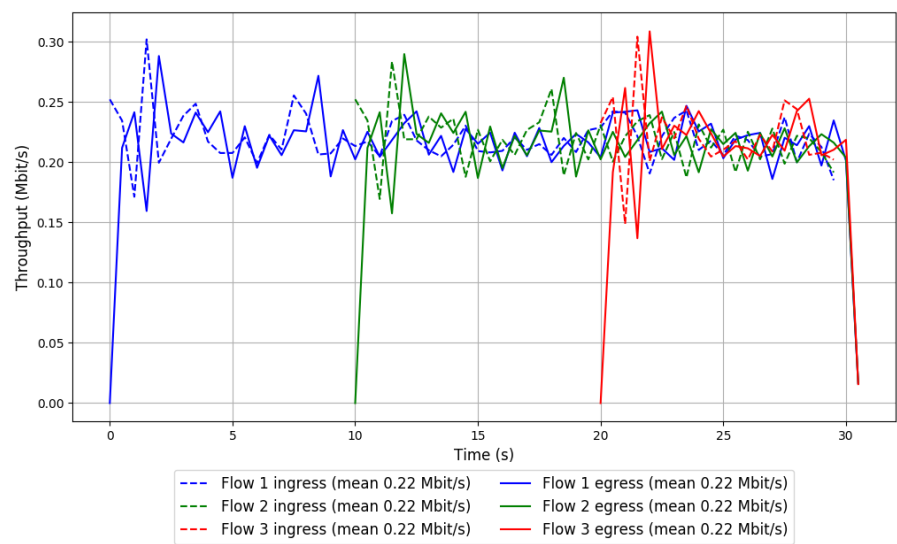


```
Run 2: Statistics of SReAM

Start at: 2018-05-22 02:41:35
End at: 2018-05-22 02:42:05
Local clock offset: 0.041 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-22 03:05:24

End at: 2018-05-22 03:05:54

Local clock offset: -0.14 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.046 ms

Loss rate: 0.00%

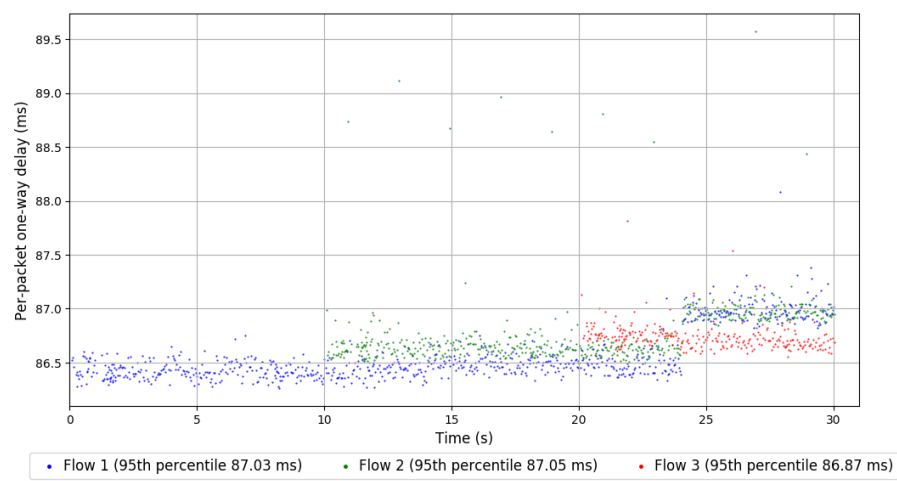
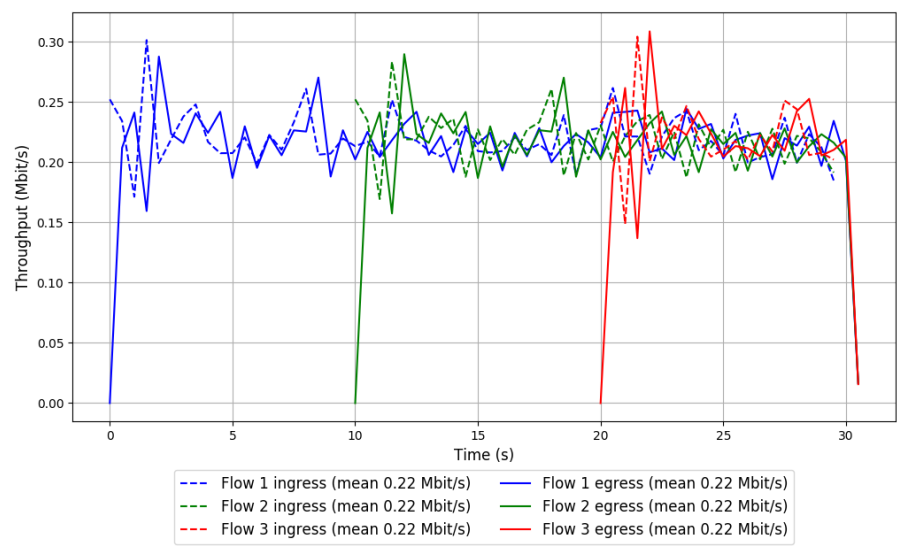
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.874 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

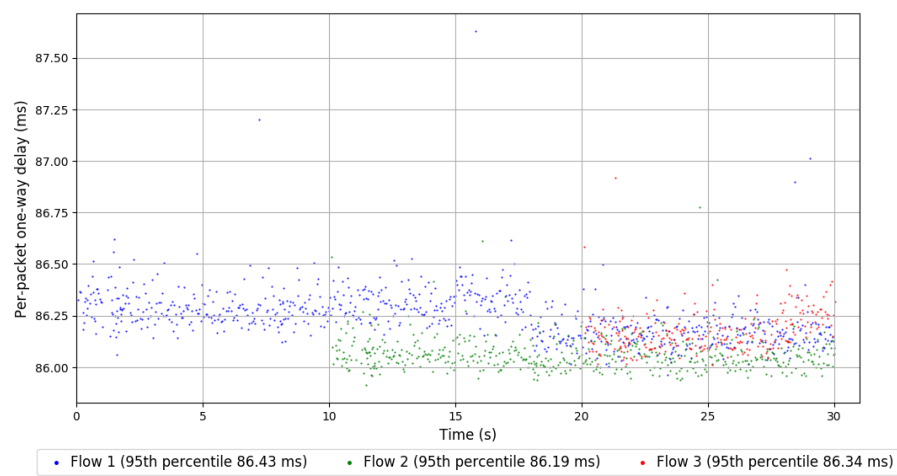
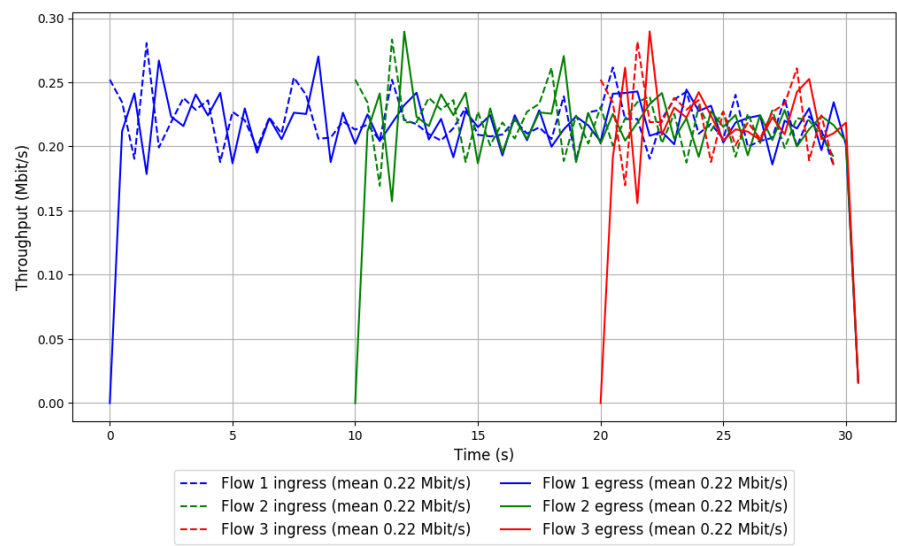


Run 4: Statistics of SReAM

Start at: 2018-05-22 03:29:00
End at: 2018-05-22 03:29:30
Local clock offset: 0.115 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.188 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.345 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

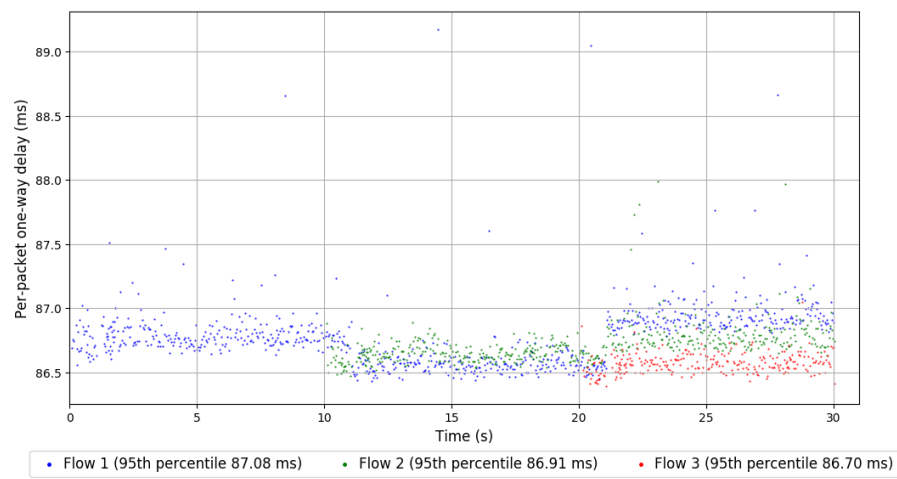
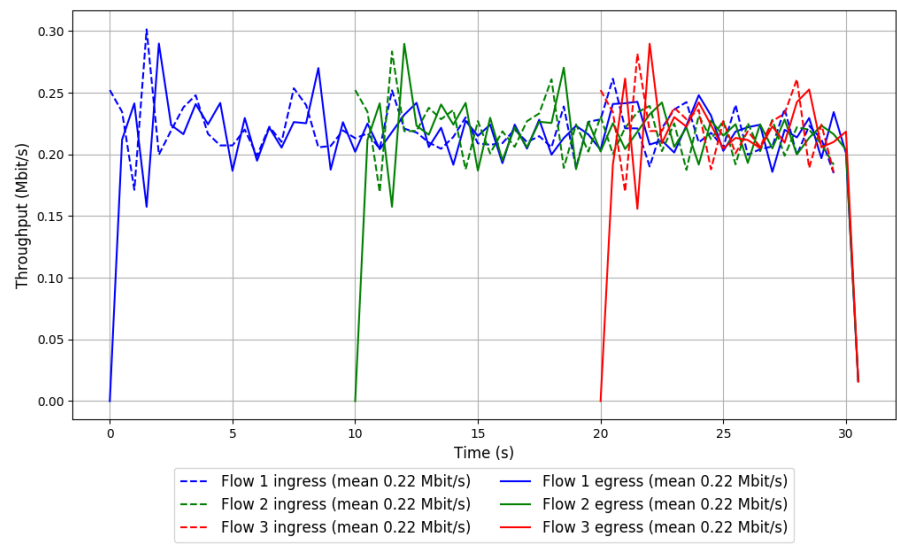


Run 5: Statistics of SReAM

Start at: 2018-05-22 03:52:47
End at: 2018-05-22 03:53:17
Local clock offset: -0.257 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.003 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.910 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.703 ms
Loss rate: 0.00%

Run 5: Report of SCSReAM — Data Link

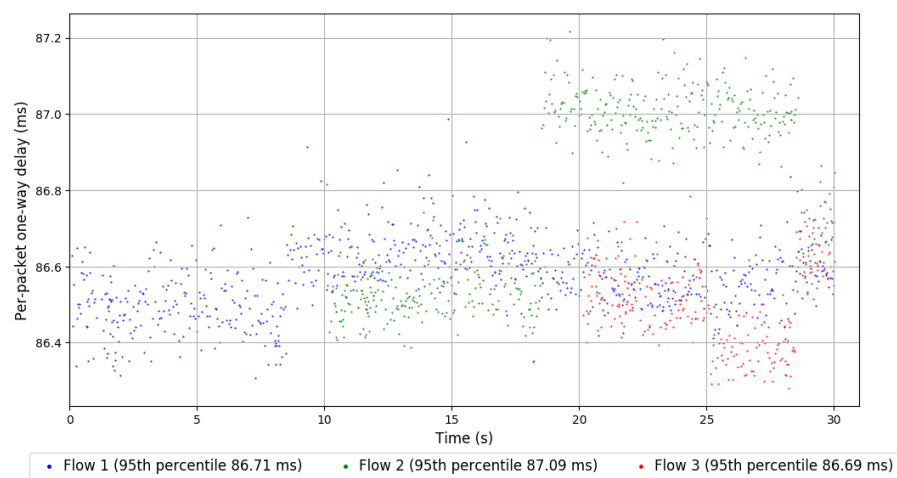
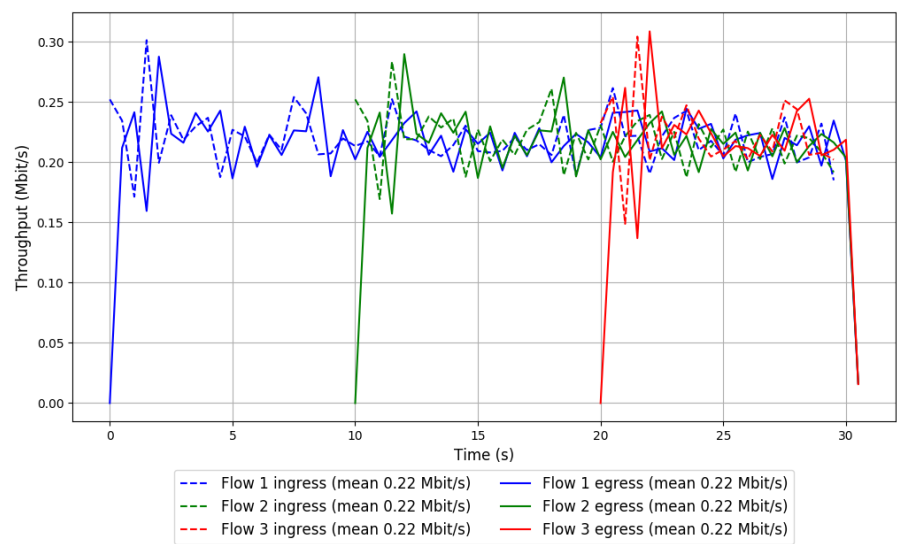


Run 6: Statistics of SReAM

Start at: 2018-05-22 04:16:30
End at: 2018-05-22 04:17:00
Local clock offset: -0.169 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.713 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.692 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

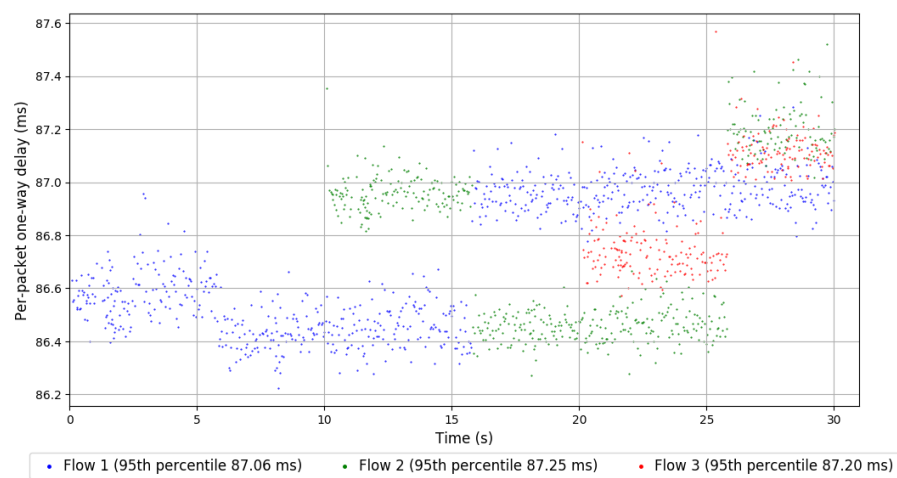
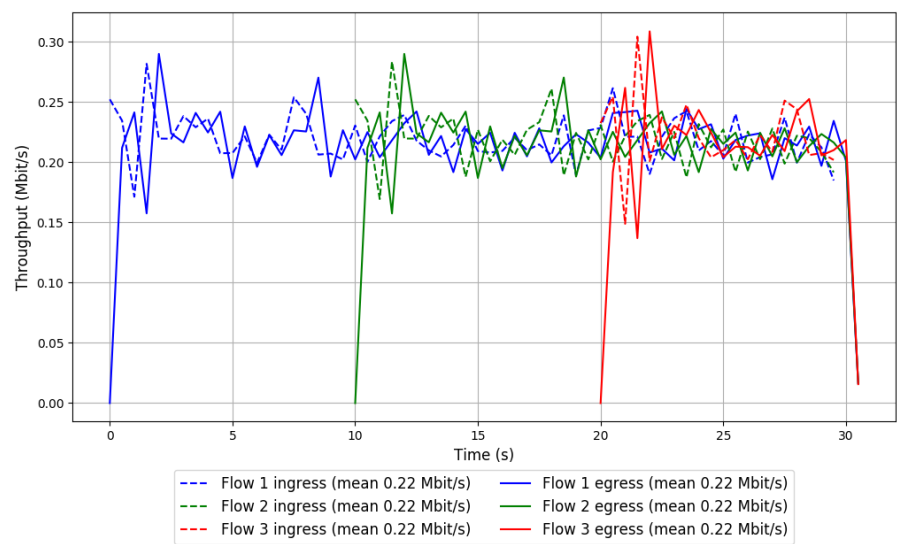


Run 7: Statistics of SReAM

Start at: 2018-05-22 04:40:13
End at: 2018-05-22 04:40:43
Local clock offset: -0.187 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.251 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.199 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

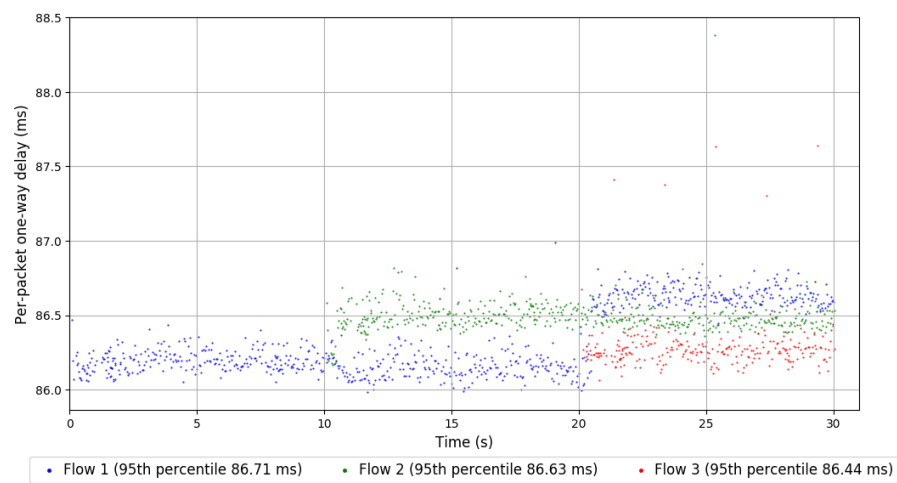
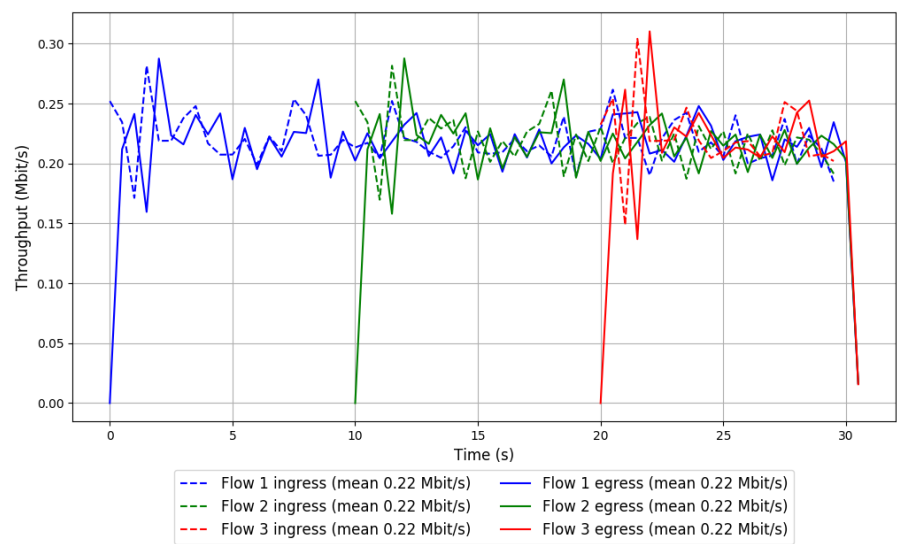


Run 8: Statistics of SReAM

Start at: 2018-05-22 05:03:48
End at: 2018-05-22 05:04:18
Local clock offset: 0.072 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.709 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.435 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-22 05:27:21

End at: 2018-05-22 05:27:51

Local clock offset: 0.029 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.676 ms

Loss rate: 0.00%

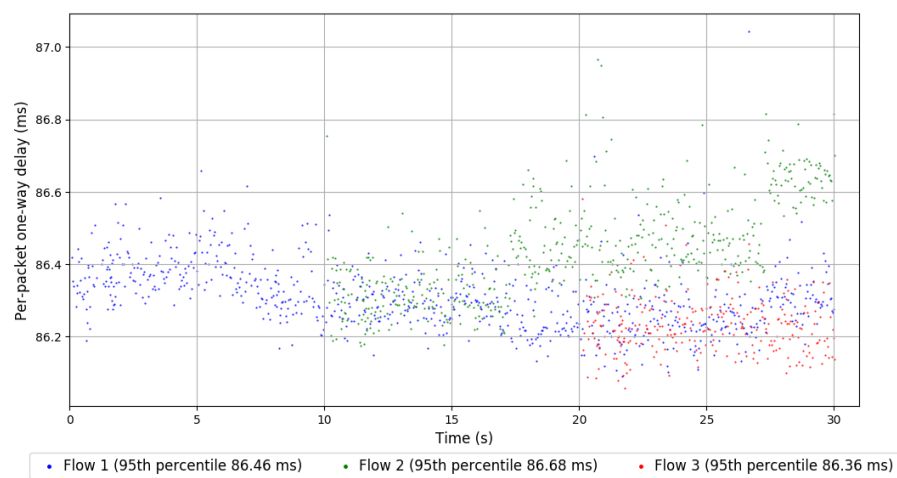
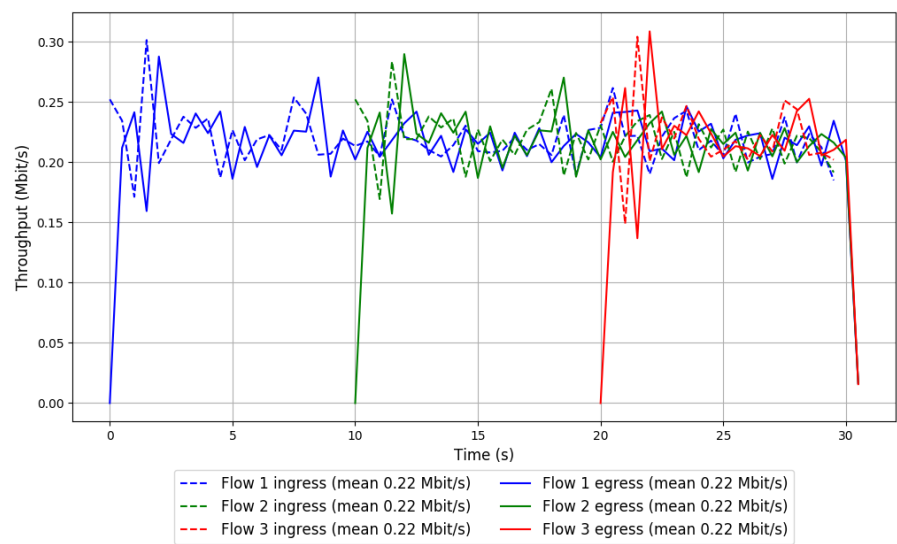
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.360 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 05:51:02

End at: 2018-05-22 05:51:32

Local clock offset: -0.112 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.870 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.832 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.00%

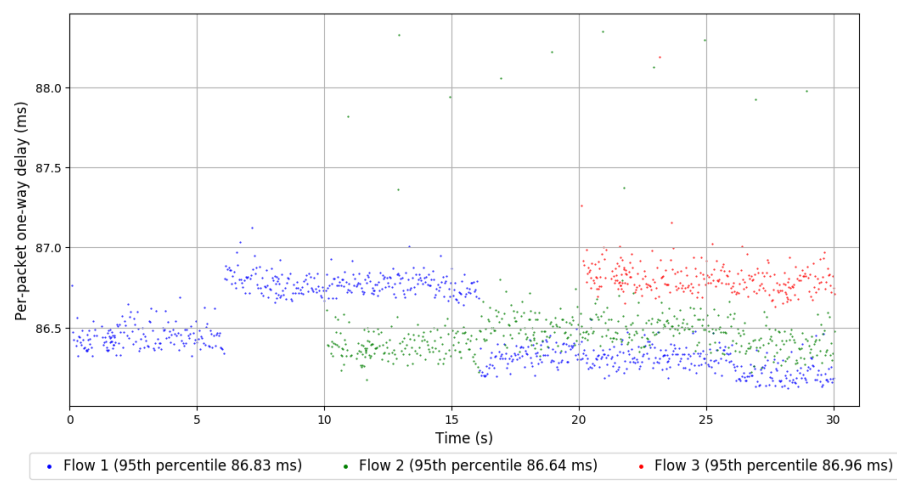
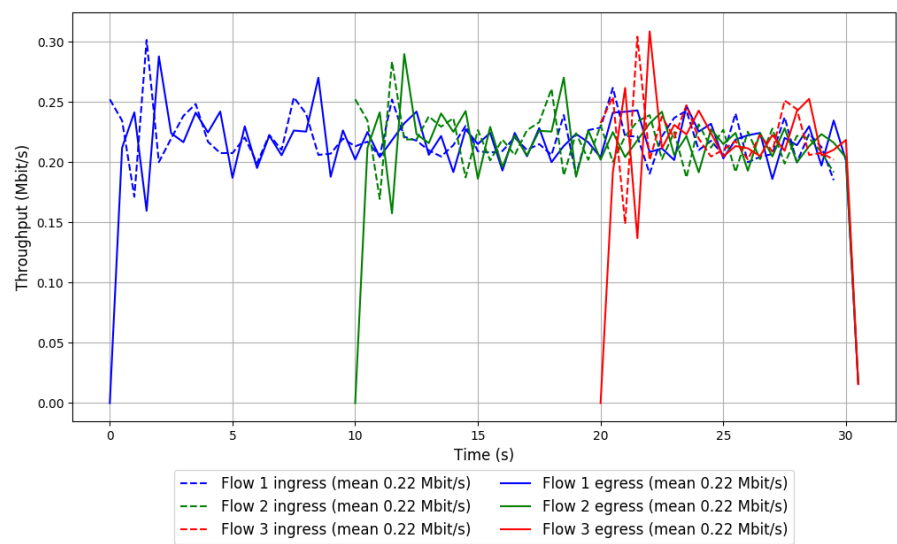
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.957 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-22 02:30:56

End at: 2018-05-22 02:31:26

Local clock offset: -0.198 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-22 07:45:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 87.073 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 87.034 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 87.100 ms

Loss rate: 0.00%

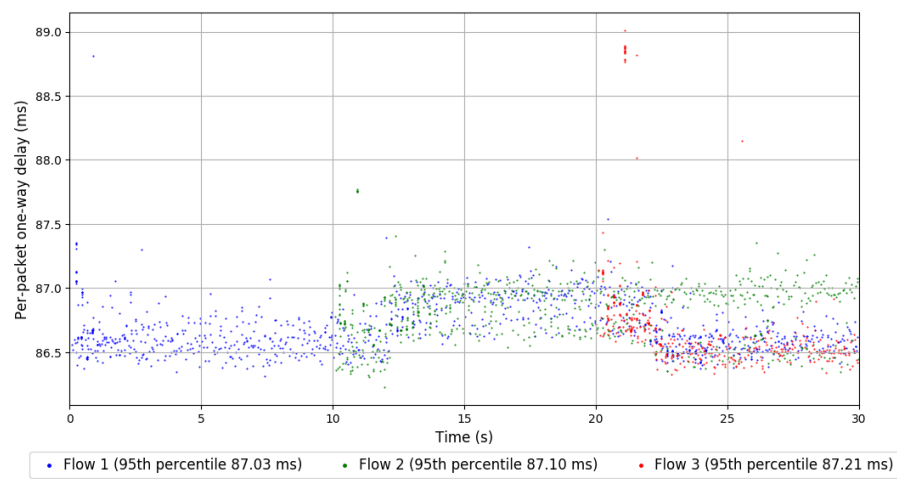
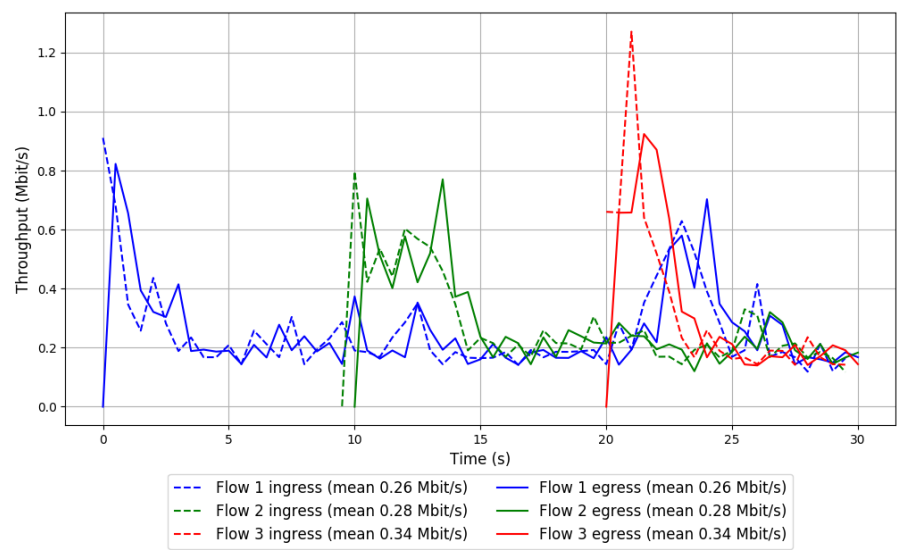
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

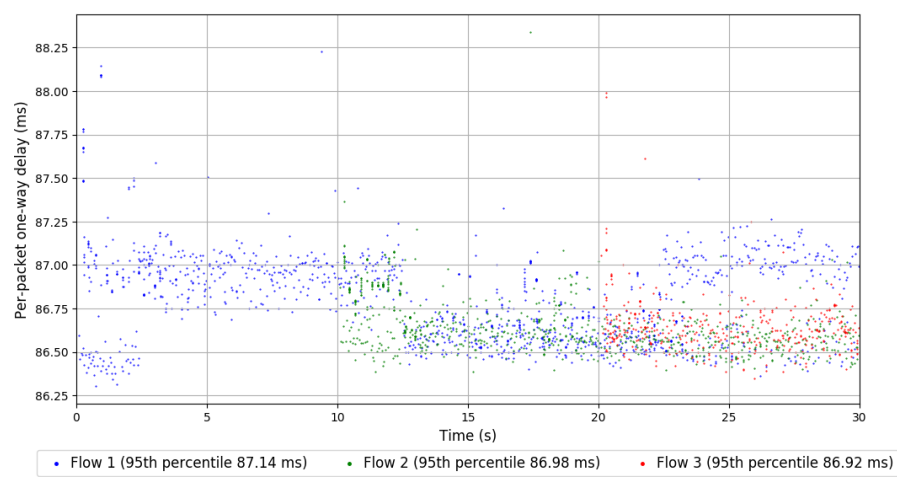
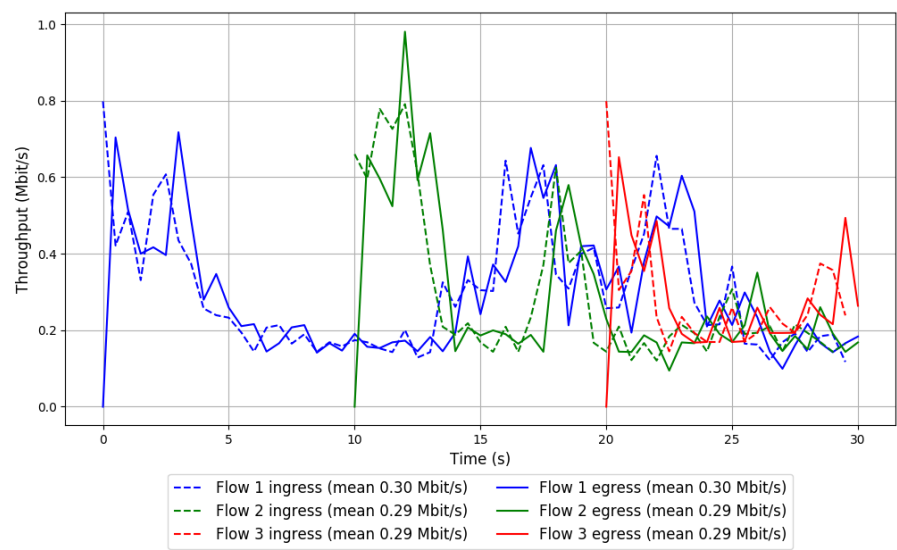


Run 2: Statistics of Sprout

Start at: 2018-05-22 02:54:36
End at: 2018-05-22 02:55:06
Local clock offset: -0.206 ms
Remote clock offset: 0.064 ms

```
# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 87.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

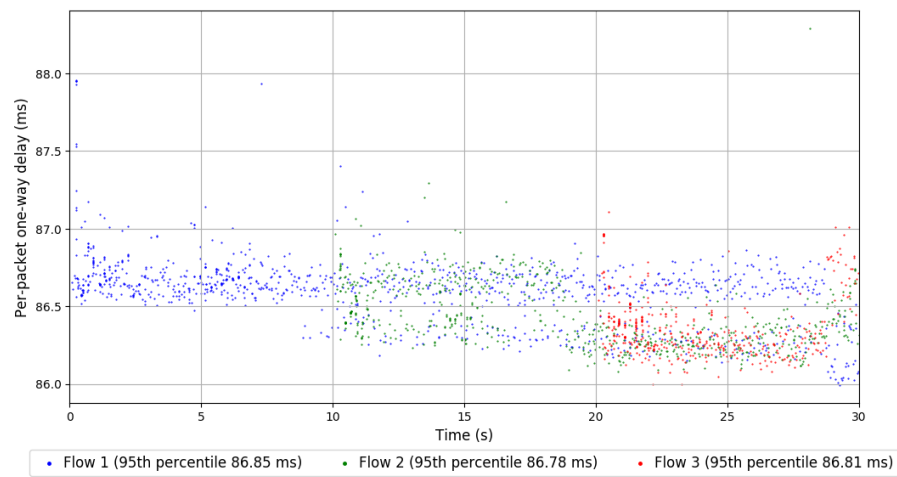
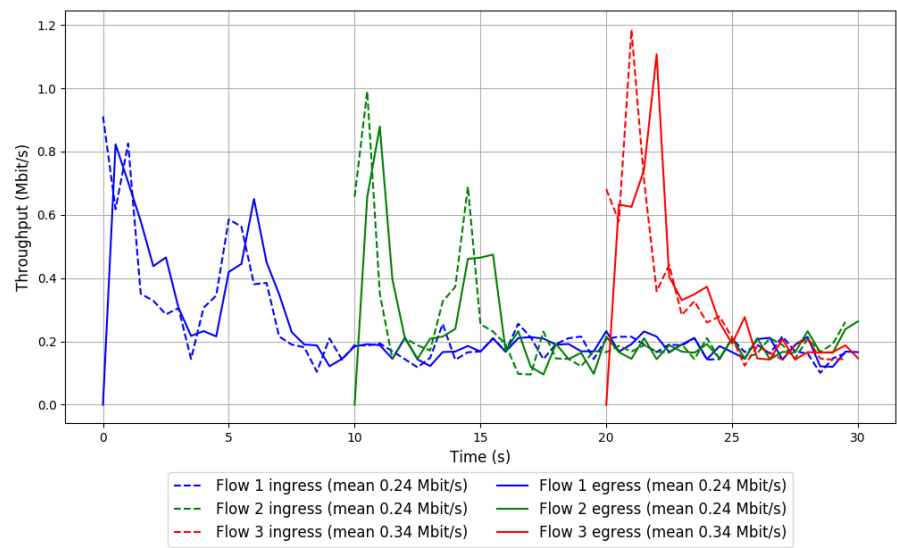


Run 3: Statistics of Sprout

Start at: 2018-05-22 03:18:20
End at: 2018-05-22 03:18:50
Local clock offset: 0.11 ms
Remote clock offset: -0.16 ms

```
# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.852 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 86.809 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

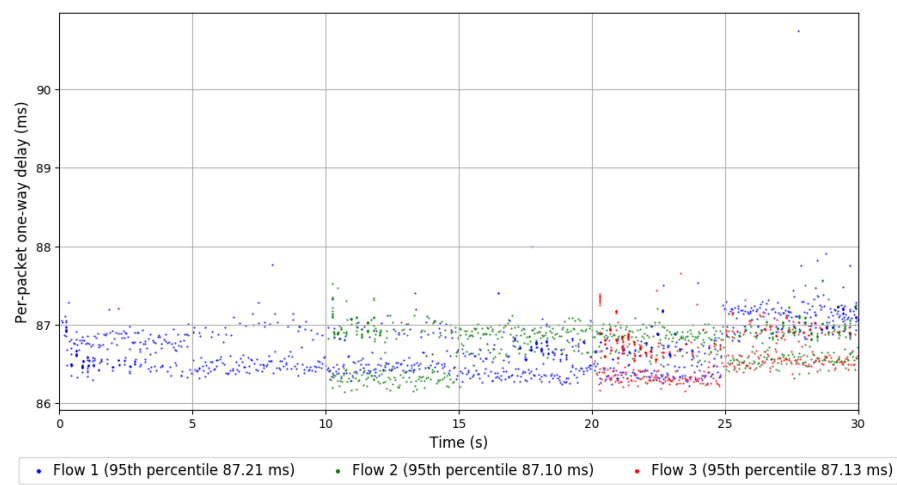
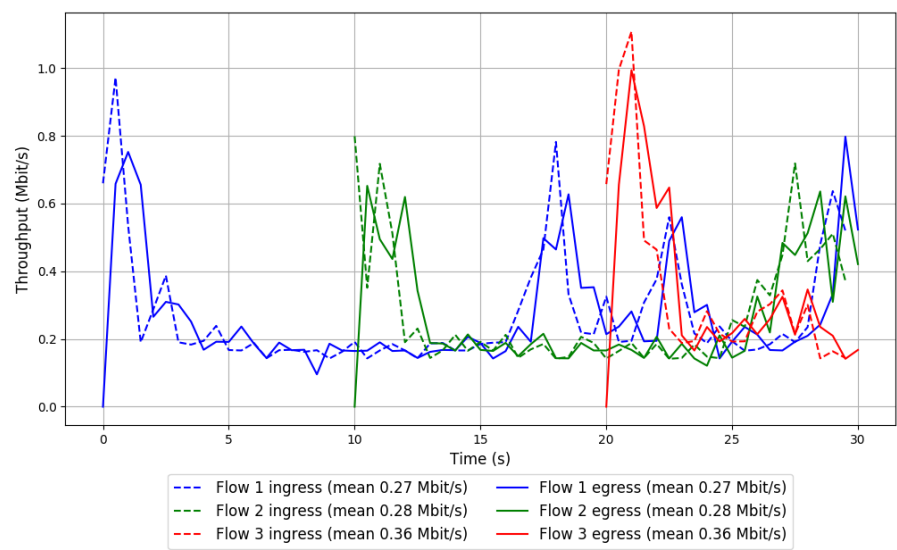


Run 4: Statistics of Sprout

Start at: 2018-05-22 03:41:53
End at: 2018-05-22 03:42:24
Local clock offset: -0.162 ms
Remote clock offset: -0.229 ms

```
# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 87.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 87.211 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 87.100 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 87.130 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

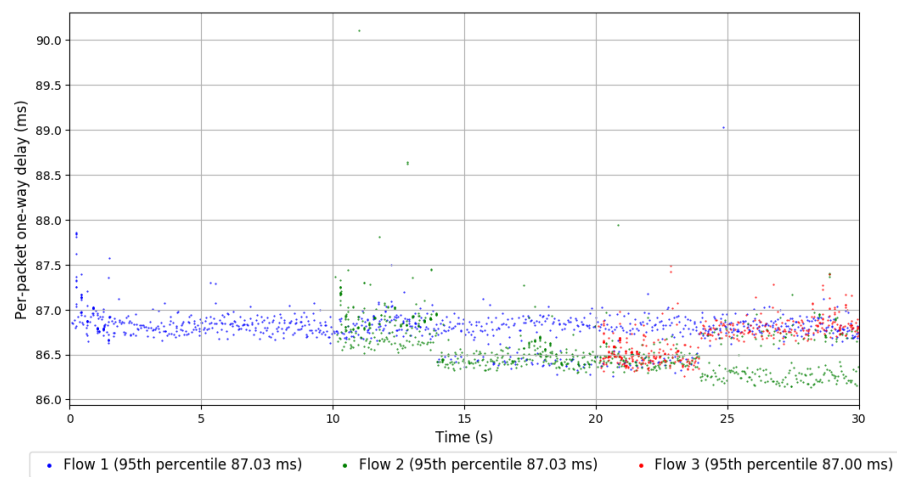
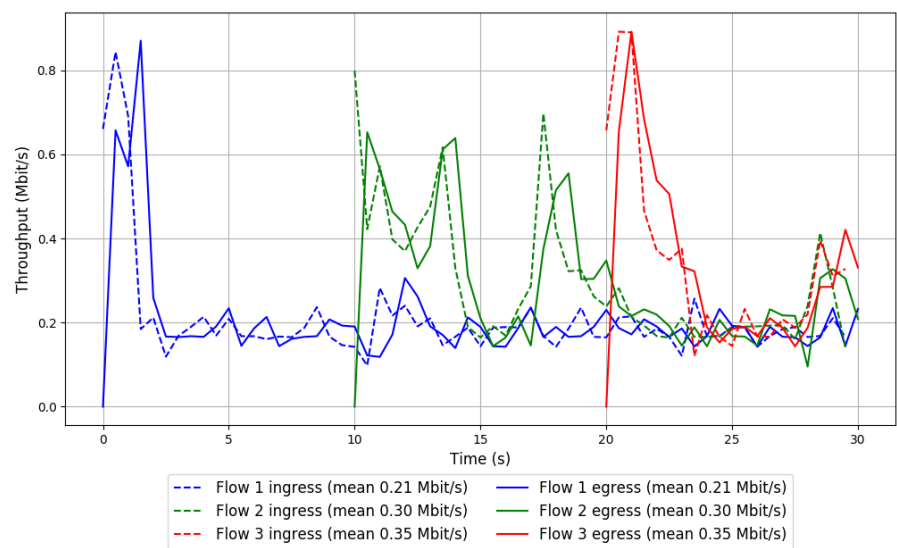


Run 5: Statistics of Sprout

Start at: 2018-05-22 04:05:44
End at: 2018-05-22 04:06:14
Local clock offset: 0.013 ms
Remote clock offset: -0.319 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 87.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 87.003 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

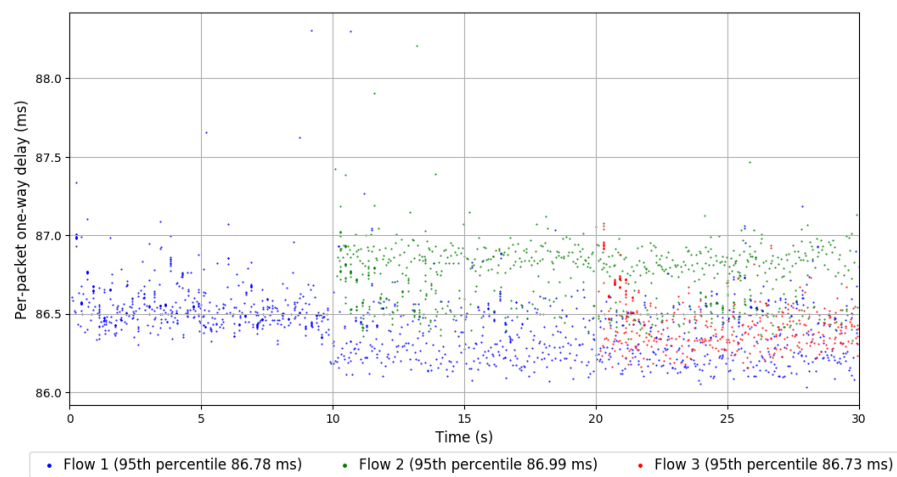
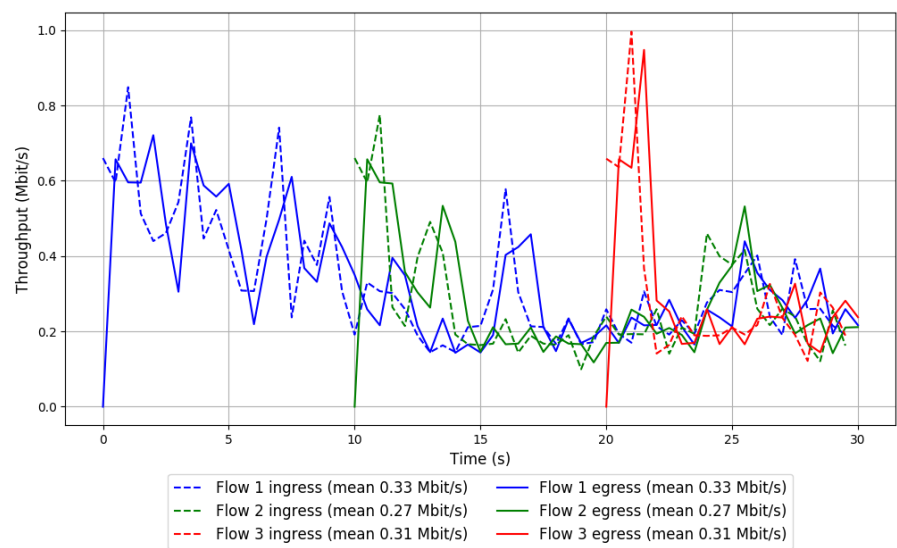


Run 6: Statistics of Sprout

Start at: 2018-05-22 04:29:29
End at: 2018-05-22 04:29:59
Local clock offset: -0.05 ms
Remote clock offset: -0.259 ms

```
# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 86.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 86.784 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.727 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

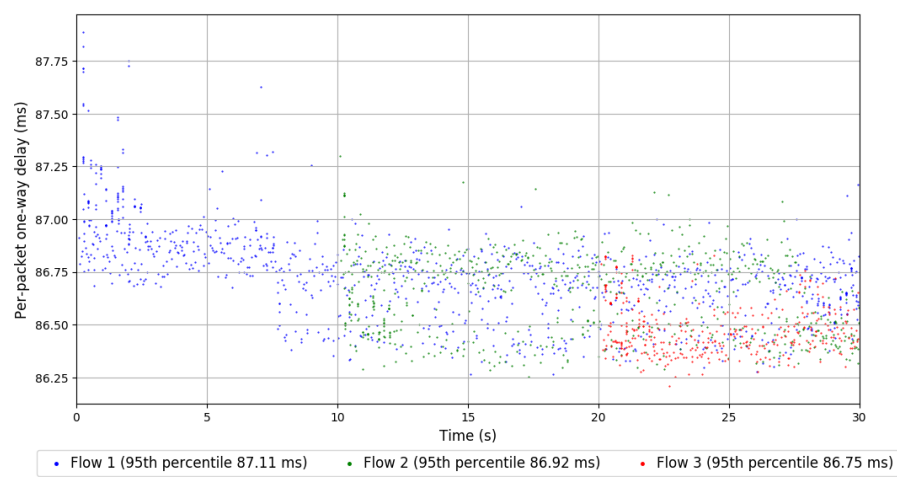
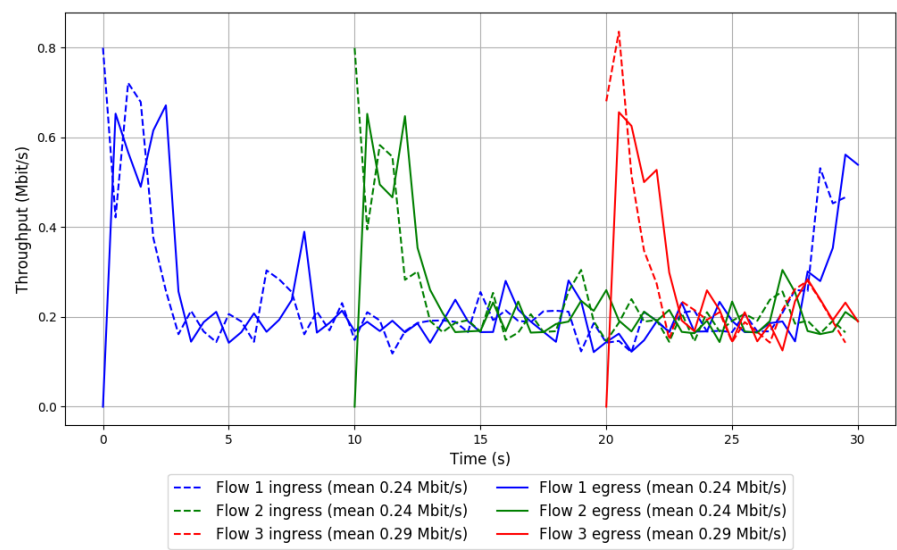


Run 7: Statistics of Sprout

Start at: 2018-05-22 04:53:01
End at: 2018-05-22 04:53:31
Local clock offset: -0.153 ms
Remote clock offset: -0.205 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 87.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 87.109 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

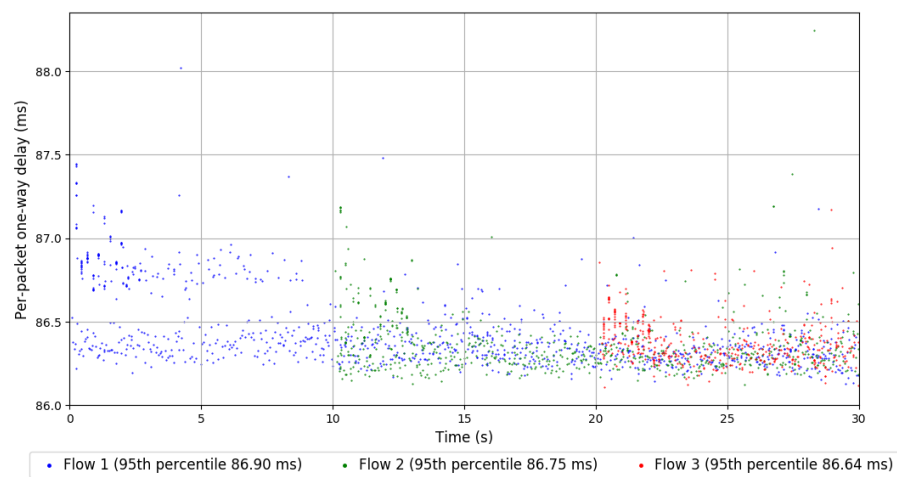
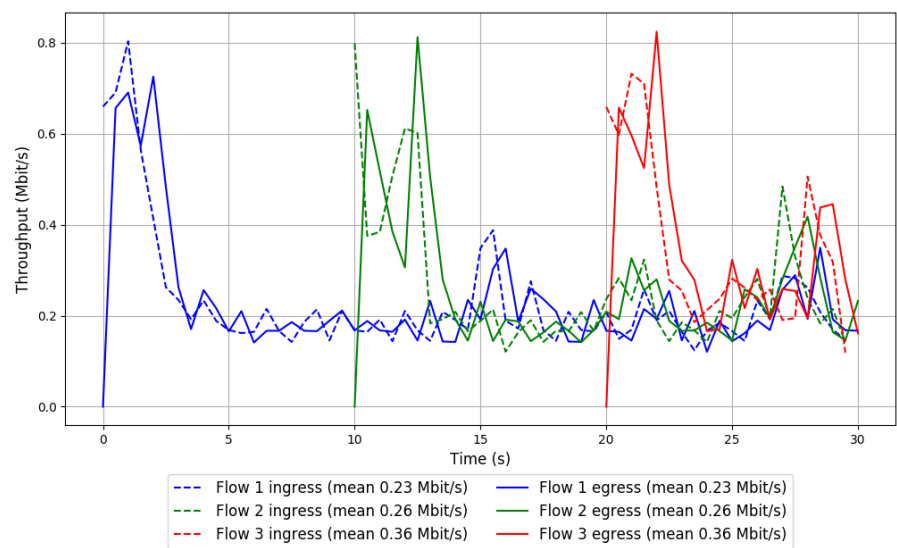


Run 8: Statistics of Sprout

Start at: 2018-05-22 05:16:39
End at: 2018-05-22 05:17:09
Local clock offset: -0.098 ms
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2018-05-22 07:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 86.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.903 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.745 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 86.637 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

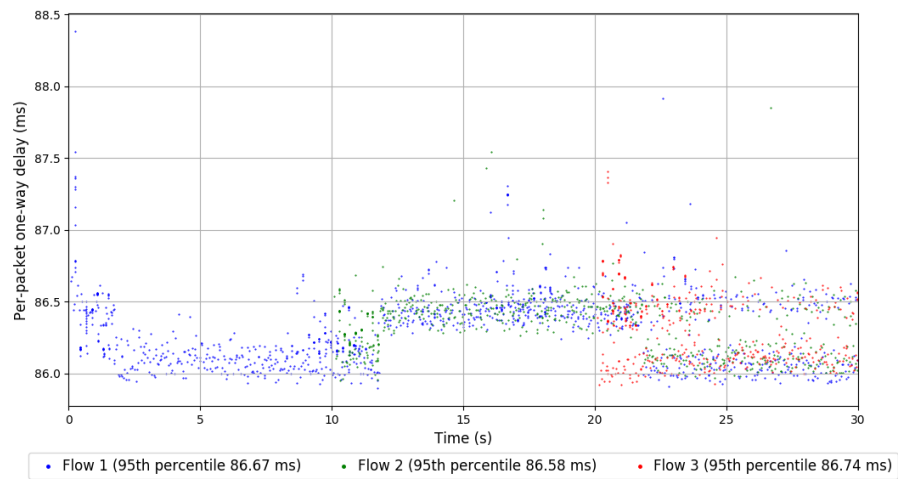
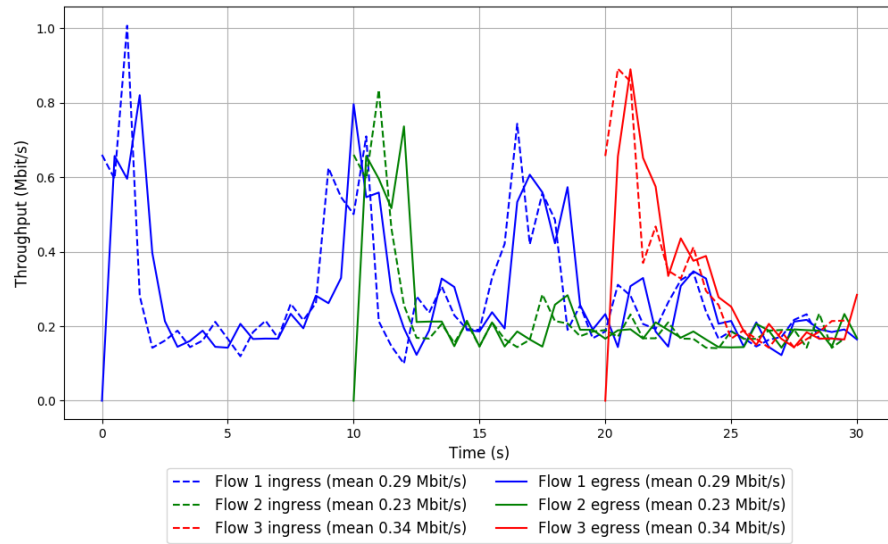


Run 9: Statistics of Sprout

Start at: 2018-05-22 05:40:17
End at: 2018-05-22 05:40:47
Local clock offset: 0.109 ms
Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 86.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.668 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 86.737 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

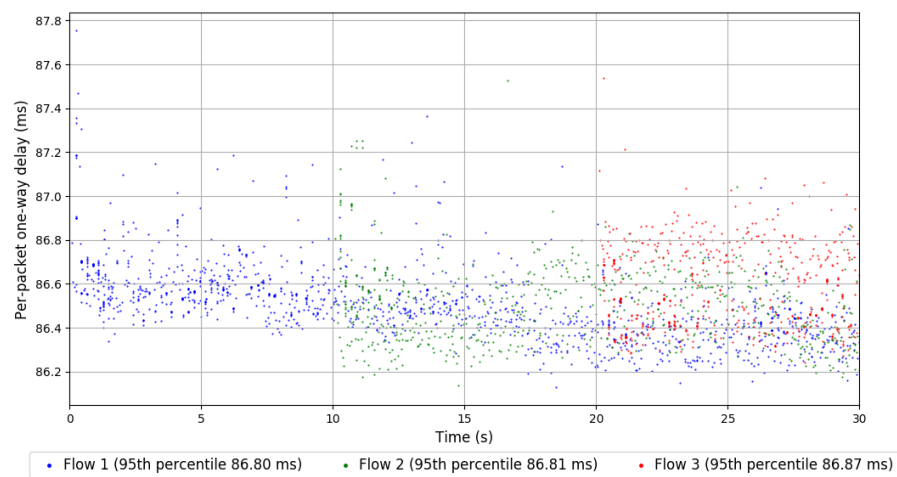
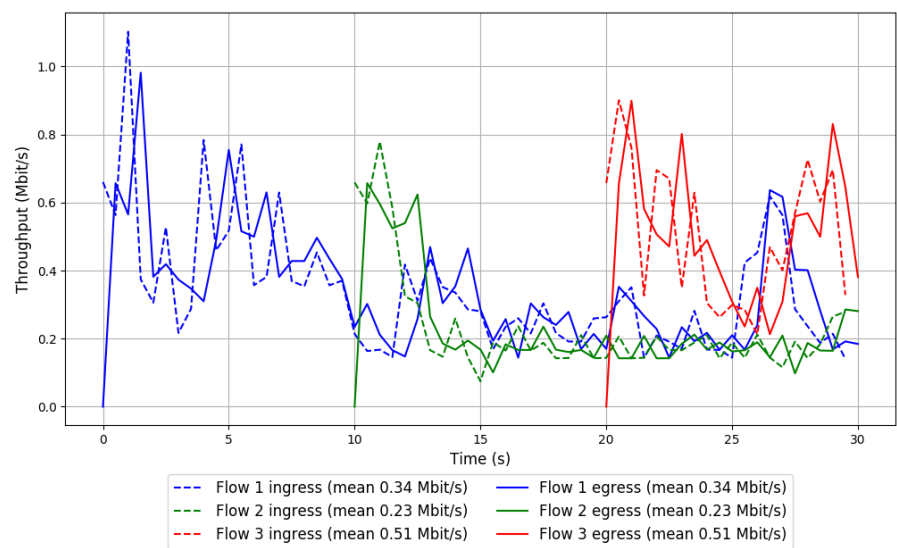


Run 10: Statistics of Sprout

Start at: 2018-05-22 06:03:51
End at: 2018-05-22 06:04:21
Local clock offset: -0.165 ms
Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-22 07:45:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 86.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.872 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

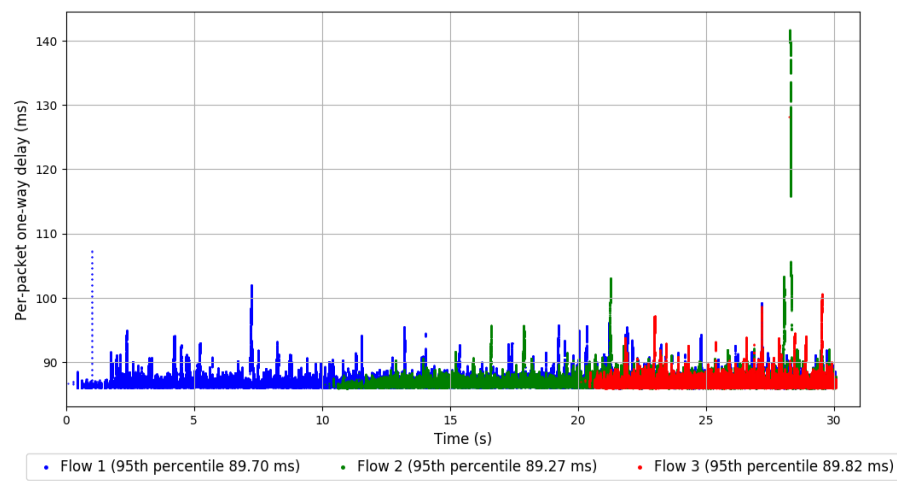
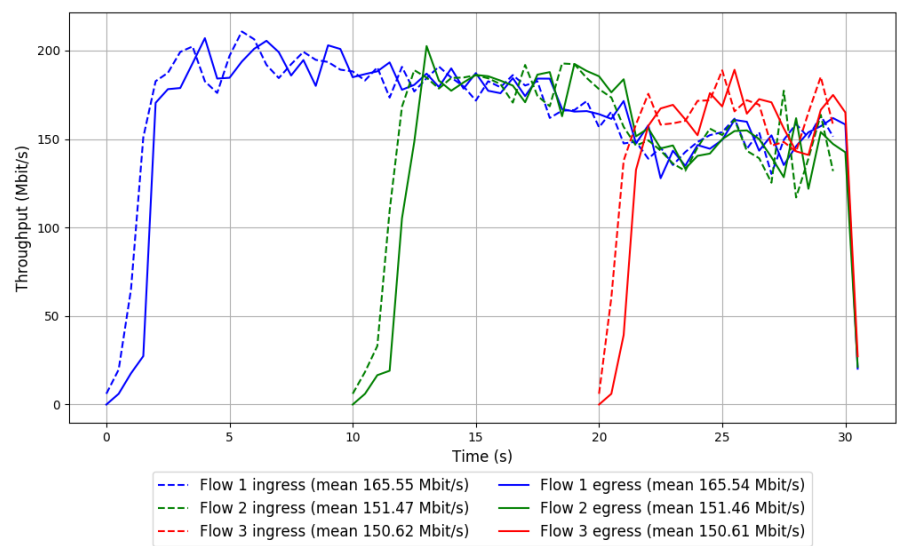


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 02:32:07
End at: 2018-05-22 02:32:37
Local clock offset: -0.02 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-22 07:50:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.37 Mbit/s
95th percentile per-packet one-way delay: 89.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.54 Mbit/s
95th percentile per-packet one-way delay: 89.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.46 Mbit/s
95th percentile per-packet one-way delay: 89.270 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 150.61 Mbit/s
95th percentile per-packet one-way delay: 89.816 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 02:55:47

End at: 2018-05-22 02:56:17

Local clock offset: -0.037 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-22 07:50:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.05 Mbit/s

95th percentile per-packet one-way delay: 89.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 88.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.87 Mbit/s

95th percentile per-packet one-way delay: 89.258 ms

Loss rate: 0.01%

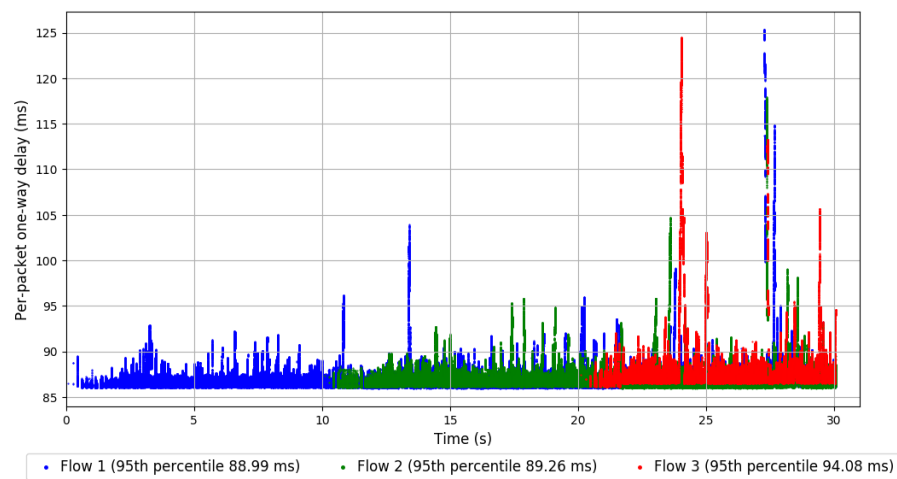
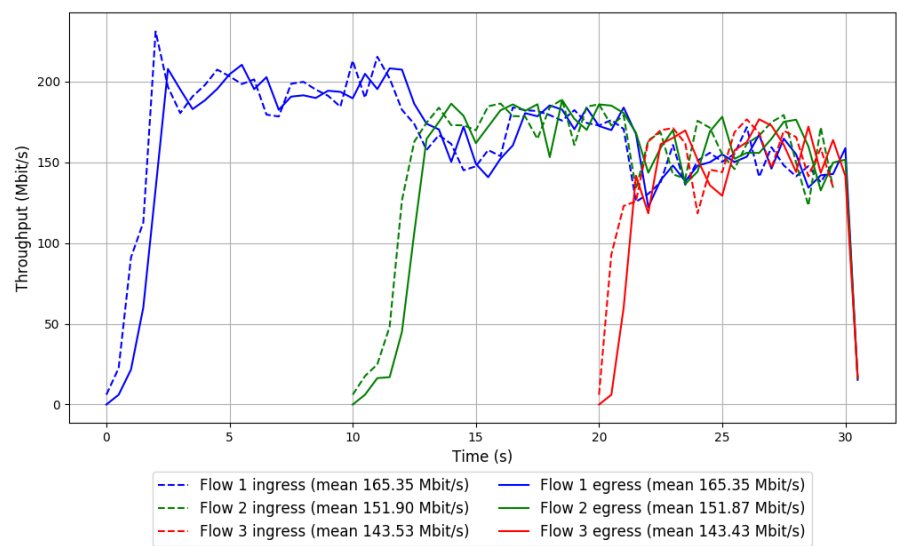
-- Flow 3:

Average throughput: 143.43 Mbit/s

95th percentile per-packet one-way delay: 94.081 ms

Loss rate: 0.00%

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

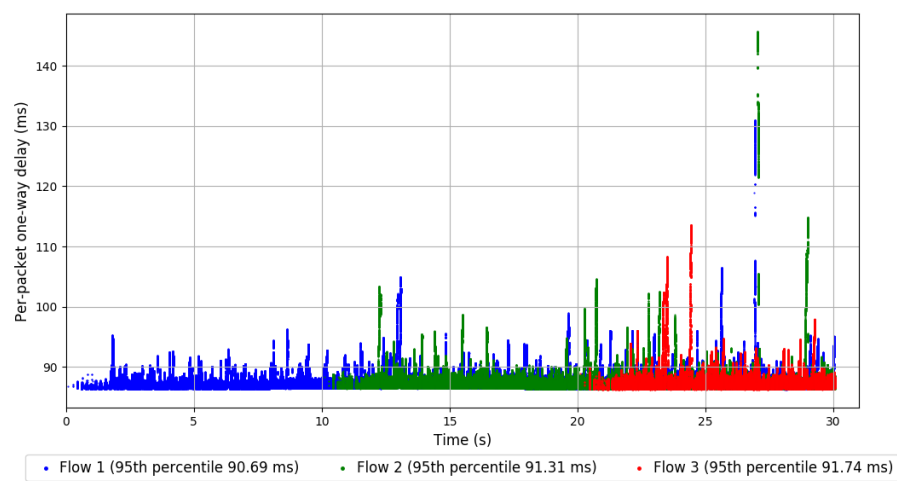
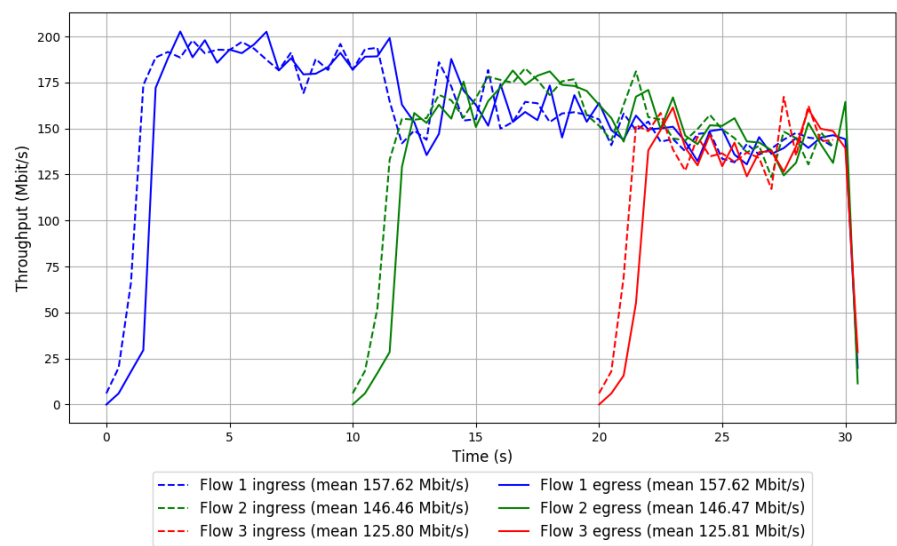


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 03:19:30
End at: 2018-05-22 03:20:01
Local clock offset: -0.287 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2018-05-22 07:50:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 296.97 Mbit/s
95th percentile per-packet one-way delay: 90.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.62 Mbit/s
95th percentile per-packet one-way delay: 90.686 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.47 Mbit/s
95th percentile per-packet one-way delay: 91.313 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.81 Mbit/s
95th percentile per-packet one-way delay: 91.742 ms
Loss rate: 0.01%

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

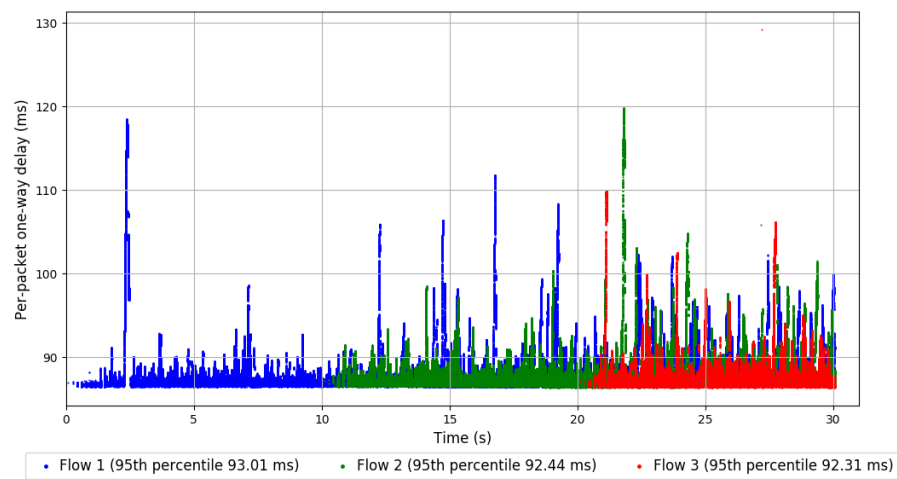
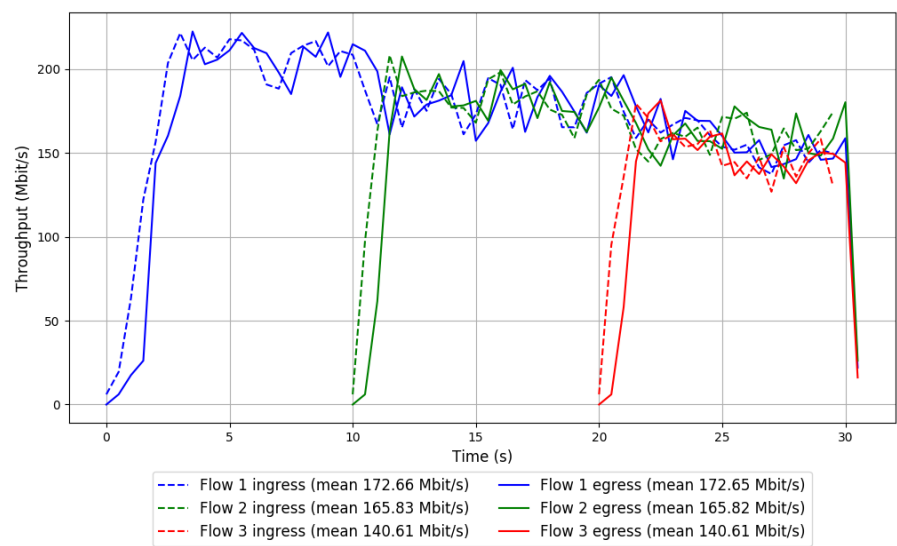


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 03:43:04
End at: 2018-05-22 03:43:34
Local clock offset: -0.404 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-05-22 07:50:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.82 Mbit/s
95th percentile per-packet one-way delay: 92.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.65 Mbit/s
95th percentile per-packet one-way delay: 93.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.82 Mbit/s
95th percentile per-packet one-way delay: 92.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.61 Mbit/s
95th percentile per-packet one-way delay: 92.306 ms
Loss rate: 0.01%

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

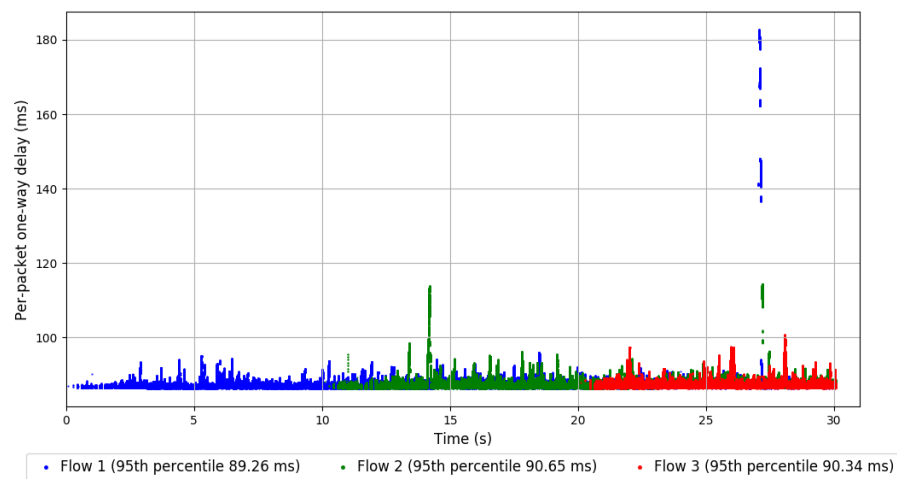
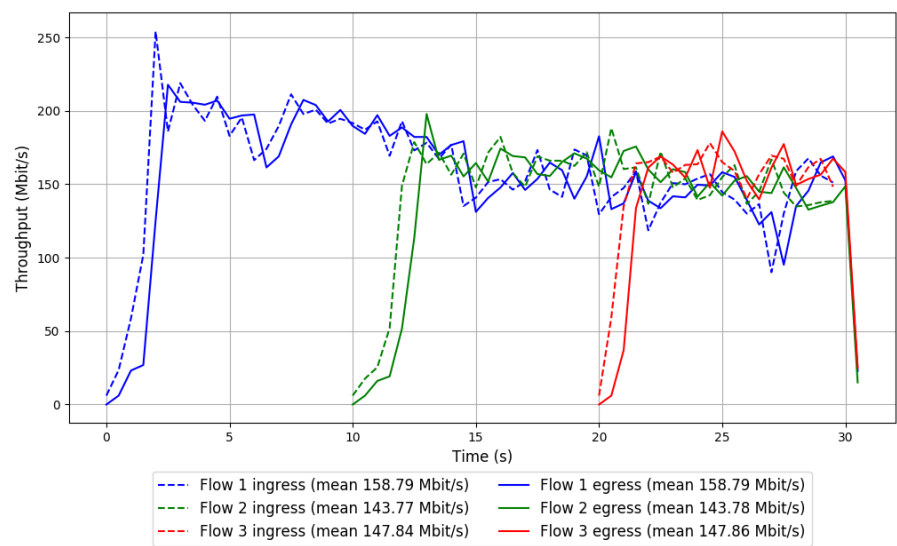


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 04:06:55
End at: 2018-05-22 04:07:25
Local clock offset: -0.143 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-05-22 07:50:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.66 Mbit/s
95th percentile per-packet one-way delay: 89.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.79 Mbit/s
95th percentile per-packet one-way delay: 89.256 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.78 Mbit/s
95th percentile per-packet one-way delay: 90.649 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 147.86 Mbit/s
95th percentile per-packet one-way delay: 90.340 ms
Loss rate: 0.00%

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

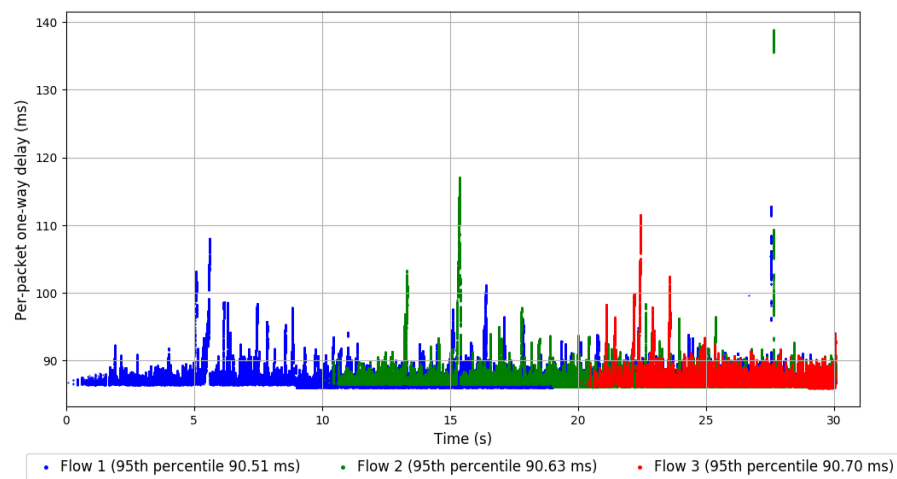
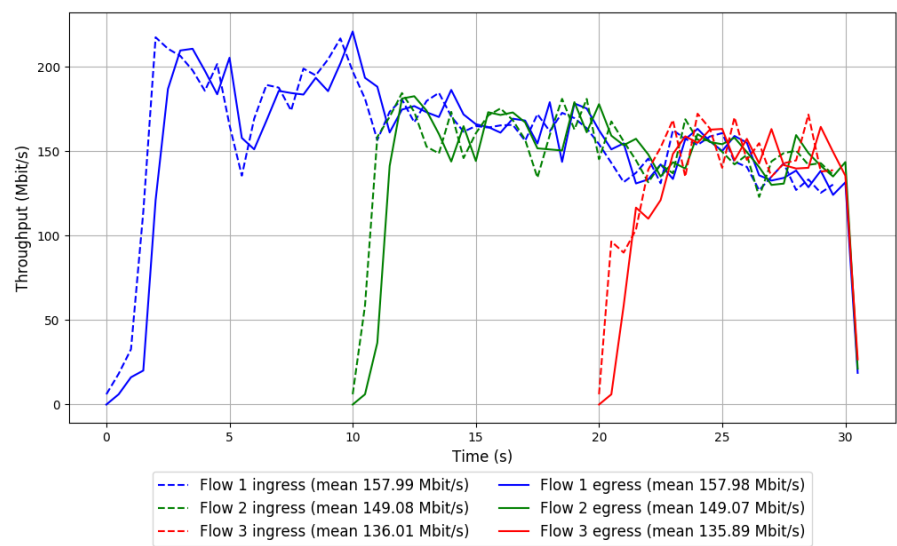


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 04:30:39
End at: 2018-05-22 04:31:09
Local clock offset: -0.062 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-05-22 07:51:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.38 Mbit/s
95th percentile per-packet one-way delay: 90.567 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 157.98 Mbit/s
95th percentile per-packet one-way delay: 90.508 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.07 Mbit/s
95th percentile per-packet one-way delay: 90.634 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 135.89 Mbit/s
95th percentile per-packet one-way delay: 90.703 ms
Loss rate: 0.03%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 04:54:12

End at: 2018-05-22 04:54:42

Local clock offset: -0.067 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-05-22 07:54:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.01 Mbit/s

95th percentile per-packet one-way delay: 89.938 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 164.57 Mbit/s

95th percentile per-packet one-way delay: 90.342 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 150.87 Mbit/s

95th percentile per-packet one-way delay: 89.725 ms

Loss rate: 0.02%

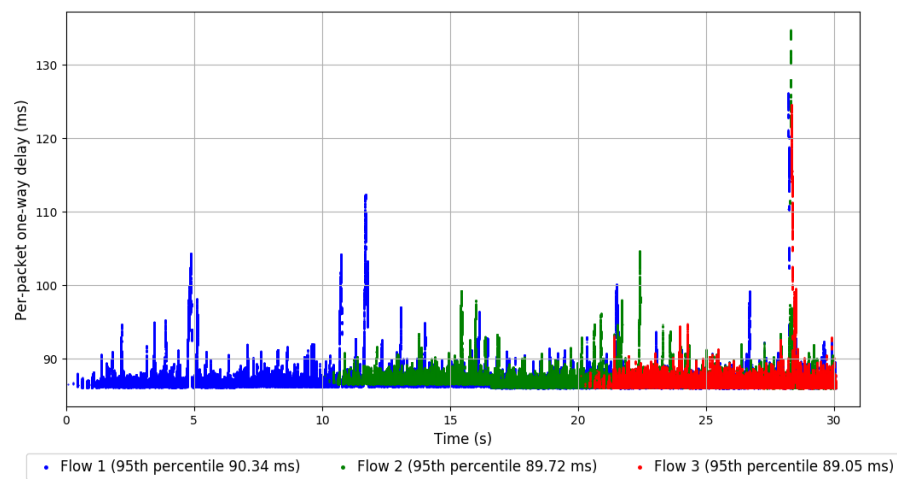
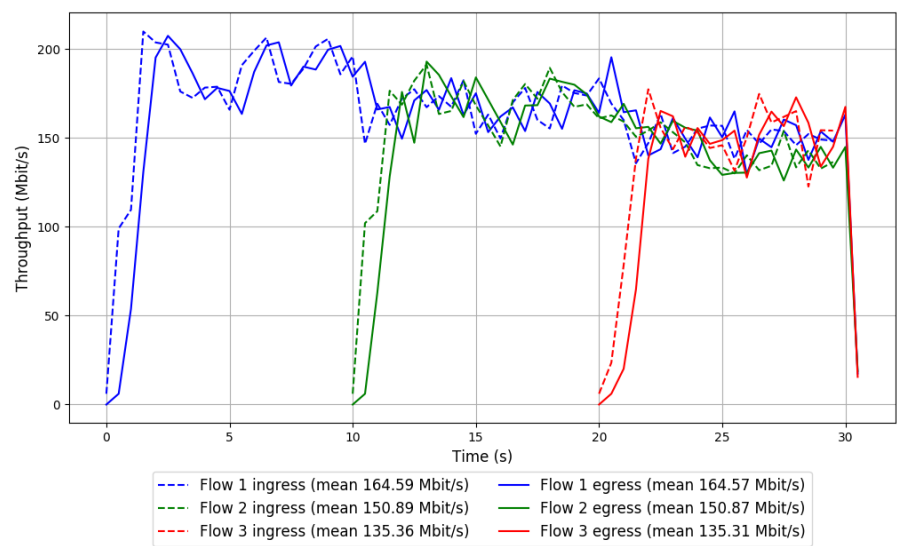
-- Flow 3:

Average throughput: 135.31 Mbit/s

95th percentile per-packet one-way delay: 89.051 ms

Loss rate: 0.04%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 05:17:51

End at: 2018-05-22 05:18:21

Local clock offset: 0.194 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-22 07:55:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.27 Mbit/s

95th percentile per-packet one-way delay: 89.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 157.84 Mbit/s

95th percentile per-packet one-way delay: 89.656 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.05 Mbit/s

95th percentile per-packet one-way delay: 88.924 ms

Loss rate: 0.00%

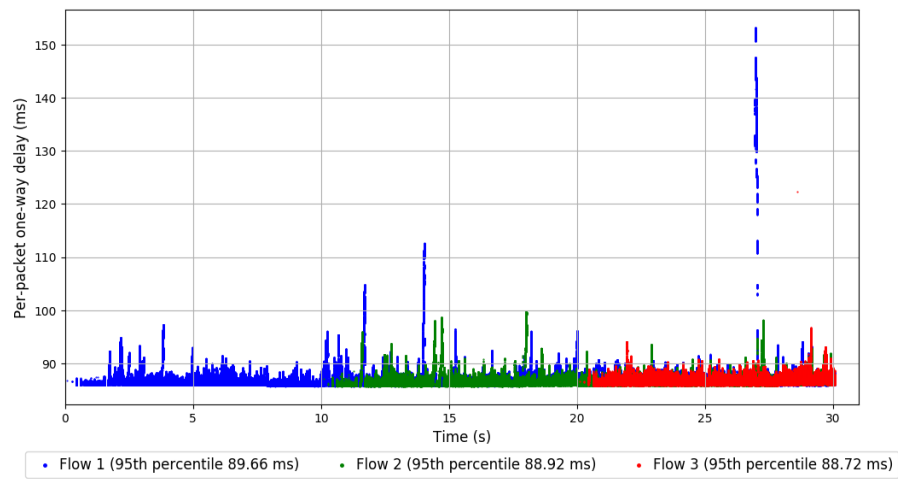
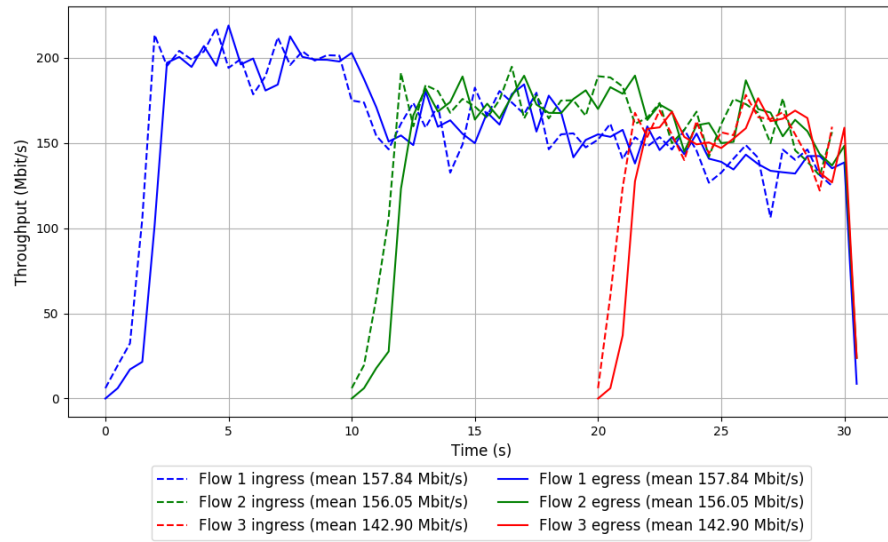
-- Flow 3:

Average throughput: 142.90 Mbit/s

95th percentile per-packet one-way delay: 88.717 ms

Loss rate: 0.00%

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

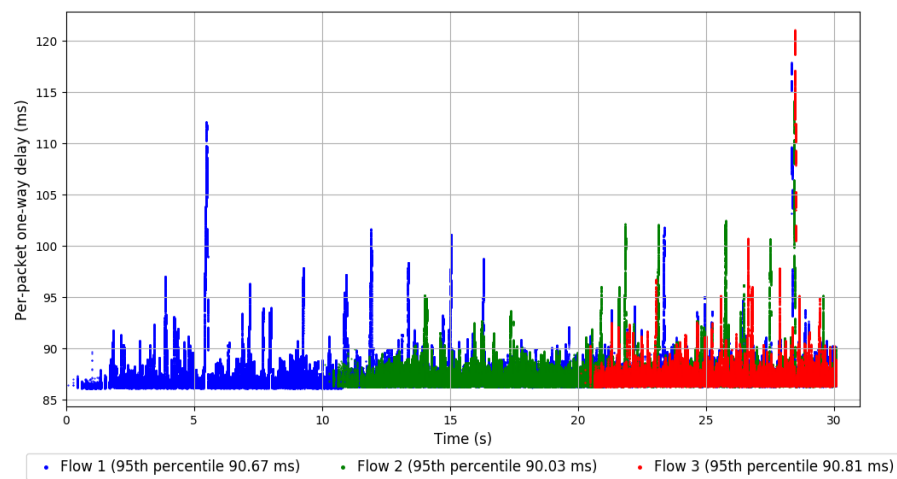
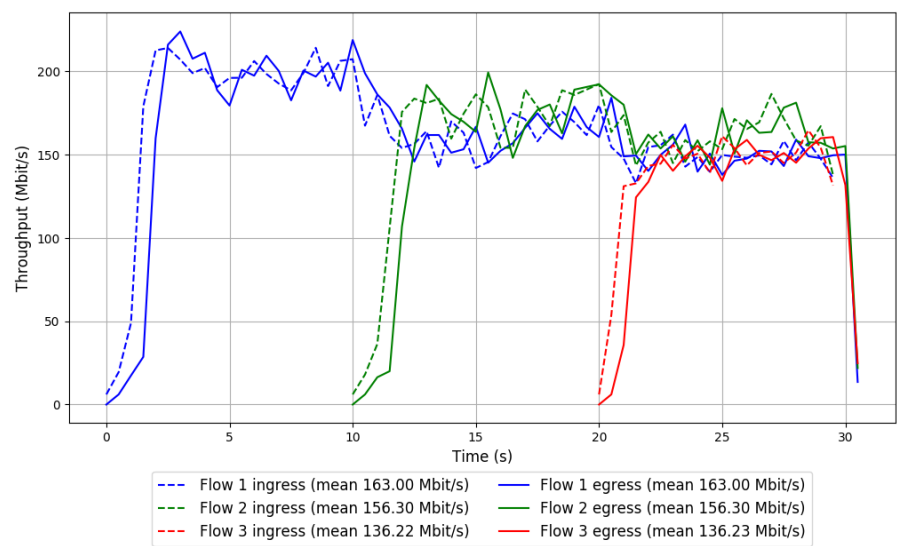


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 05:41:27
End at: 2018-05-22 05:41:57
Local clock offset: -0.329 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-22 07:59:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.35 Mbit/s
95th percentile per-packet one-way delay: 90.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 90.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.30 Mbit/s
95th percentile per-packet one-way delay: 90.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 136.23 Mbit/s
95th percentile per-packet one-way delay: 90.815 ms
Loss rate: 0.00%

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

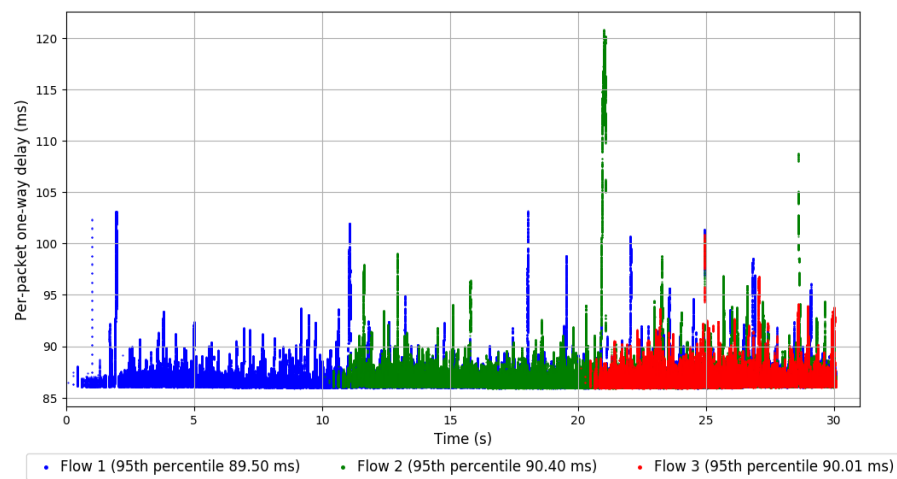
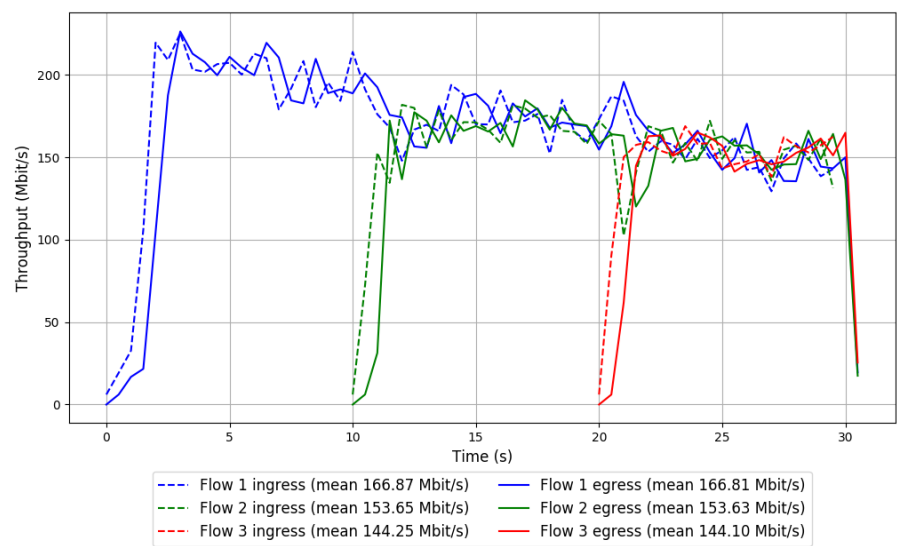


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 06:05:02
End at: 2018-05-22 06:05:32
Local clock offset: -0.144 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-05-22 08:00:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.00 Mbit/s
95th percentile per-packet one-way delay: 89.813 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 166.81 Mbit/s
95th percentile per-packet one-way delay: 89.496 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 153.63 Mbit/s
95th percentile per-packet one-way delay: 90.397 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 144.10 Mbit/s
95th percentile per-packet one-way delay: 90.006 ms
Loss rate: 0.12%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 02:19:09

End at: 2018-05-22 02:19:39

Local clock offset: 0.113 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.00 Mbit/s

95th percentile per-packet one-way delay: 95.290 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.24 Mbit/s

95th percentile per-packet one-way delay: 90.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.36 Mbit/s

95th percentile per-packet one-way delay: 91.495 ms

Loss rate: 0.00%

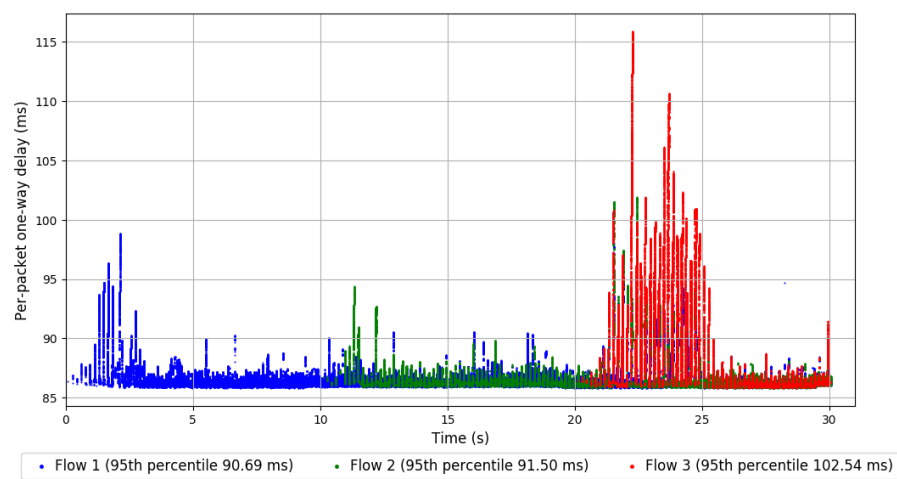
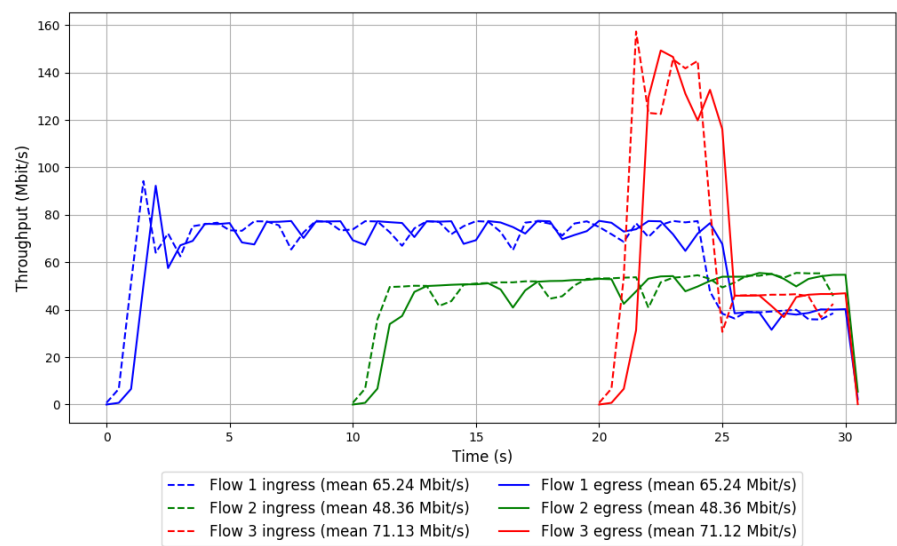
-- Flow 3:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 102.543 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 02:42:46

End at: 2018-05-22 02:43:16

Local clock offset: 0.035 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 142.82 Mbit/s

95th percentile per-packet one-way delay: 99.642 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 115.08 Mbit/s

95th percentile per-packet one-way delay: 99.040 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 93.782 ms

Loss rate: 0.25%

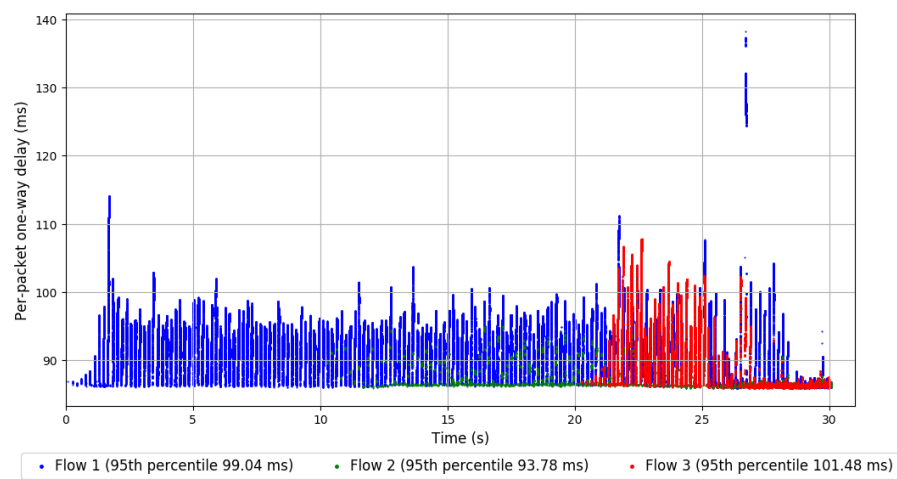
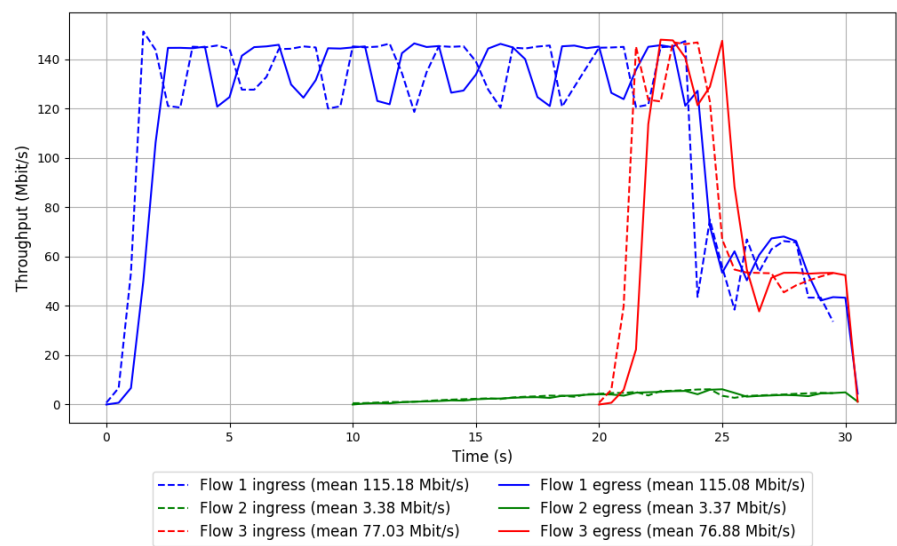
-- Flow 3:

Average throughput: 76.88 Mbit/s

95th percentile per-packet one-way delay: 101.478 ms

Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 03:06:35

End at: 2018-05-22 03:07:05

Local clock offset: 0.092 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.05 Mbit/s

95th percentile per-packet one-way delay: 100.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.28 Mbit/s

95th percentile per-packet one-way delay: 100.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.12 Mbit/s

95th percentile per-packet one-way delay: 100.523 ms

Loss rate: 0.00%

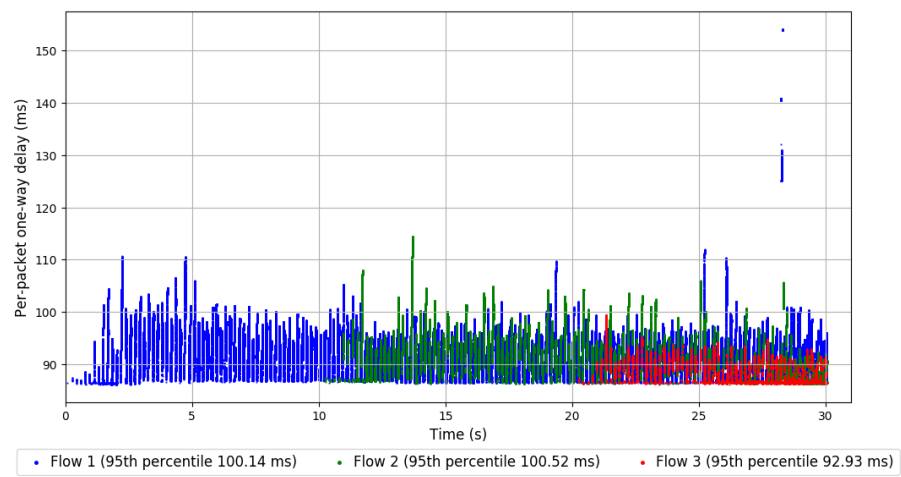
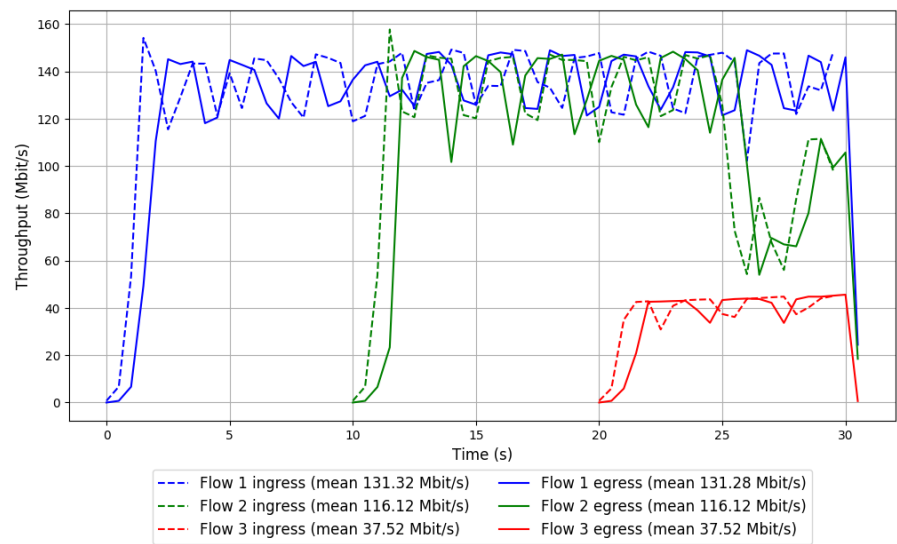
-- Flow 3:

Average throughput: 37.52 Mbit/s

95th percentile per-packet one-way delay: 92.932 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

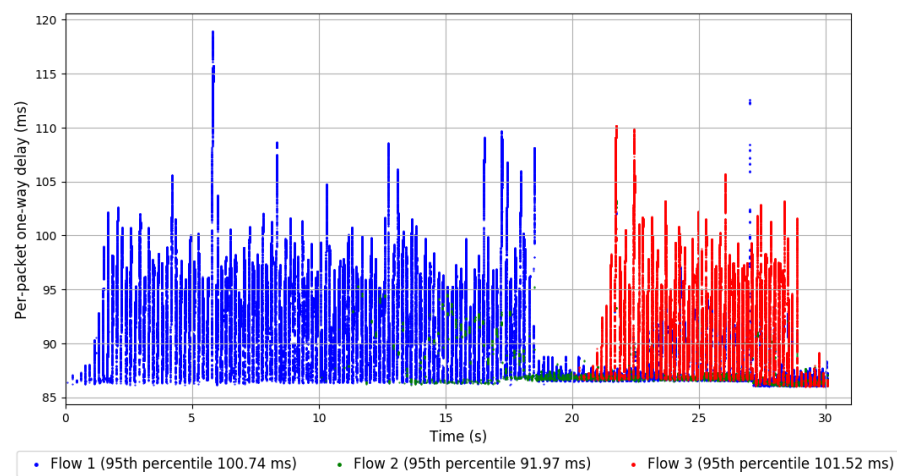
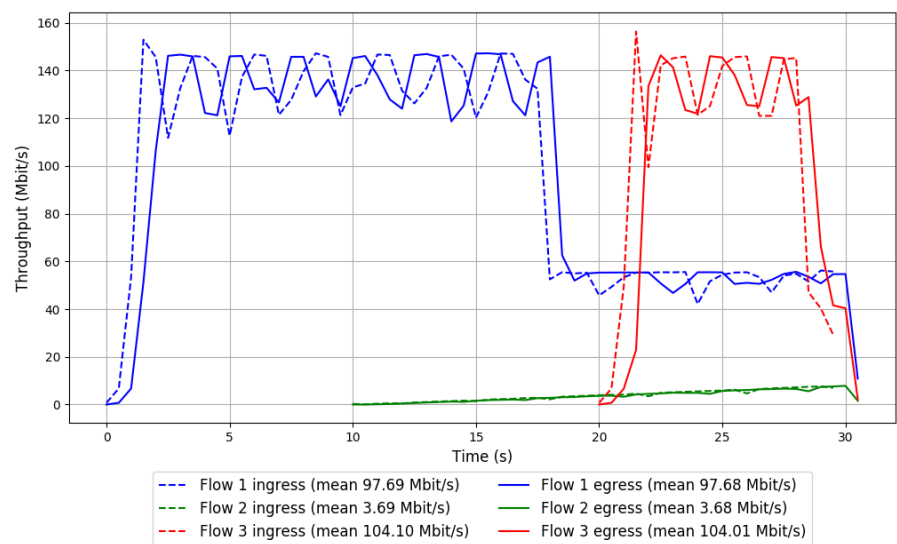


Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 03:30:11
End at: 2018-05-22 03:30:41
Local clock offset: 0.076 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2018-05-22 08:00:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.66 Mbit/s
95th percentile per-packet one-way delay: 100.967 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 97.68 Mbit/s
95th percentile per-packet one-way delay: 100.738 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 91.969 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 104.01 Mbit/s
95th percentile per-packet one-way delay: 101.515 ms
Loss rate: 0.10%

Run 4: Report of TCP Vegas — Data Link

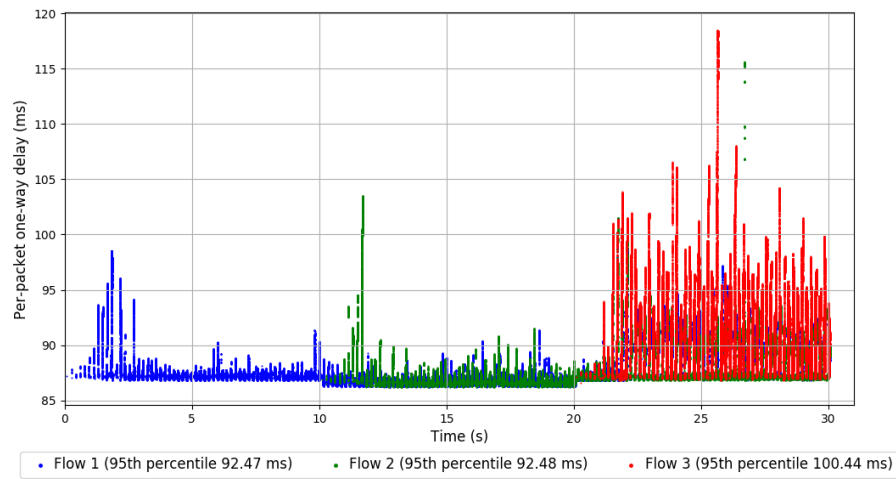
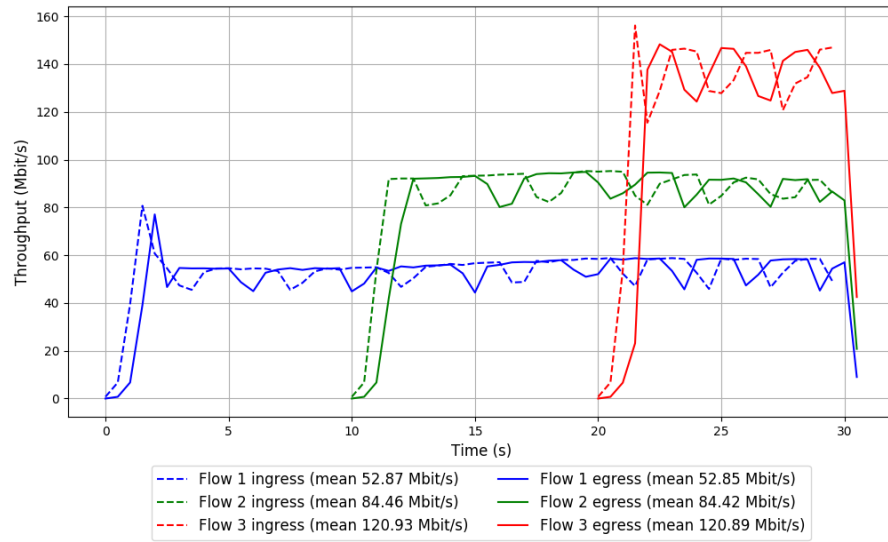


Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 03:53:58
End at: 2018-05-22 03:54:28
Local clock offset: -0.268 ms
Remote clock offset: -0.329 ms

```
# Below is generated by plot.py at 2018-05-22 08:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.19 Mbit/s
95th percentile per-packet one-way delay: 97.042 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 92.474 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: 92.485 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 120.89 Mbit/s
95th percentile per-packet one-way delay: 100.440 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

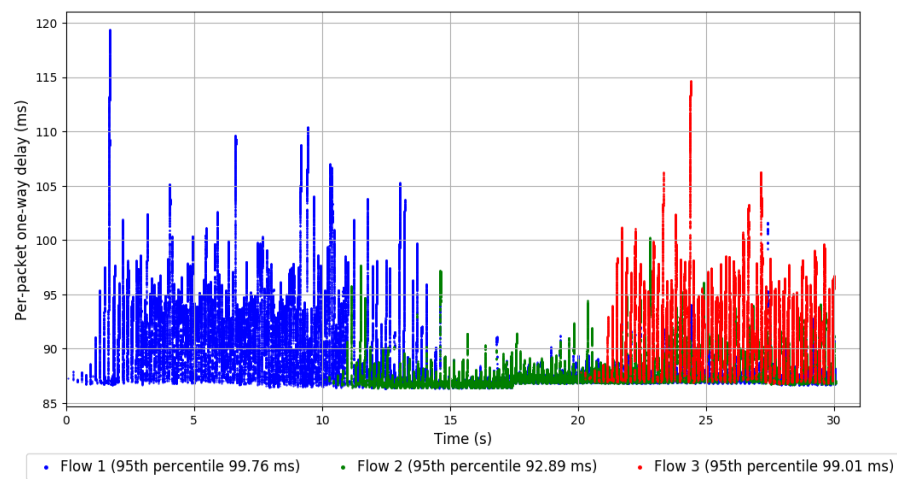
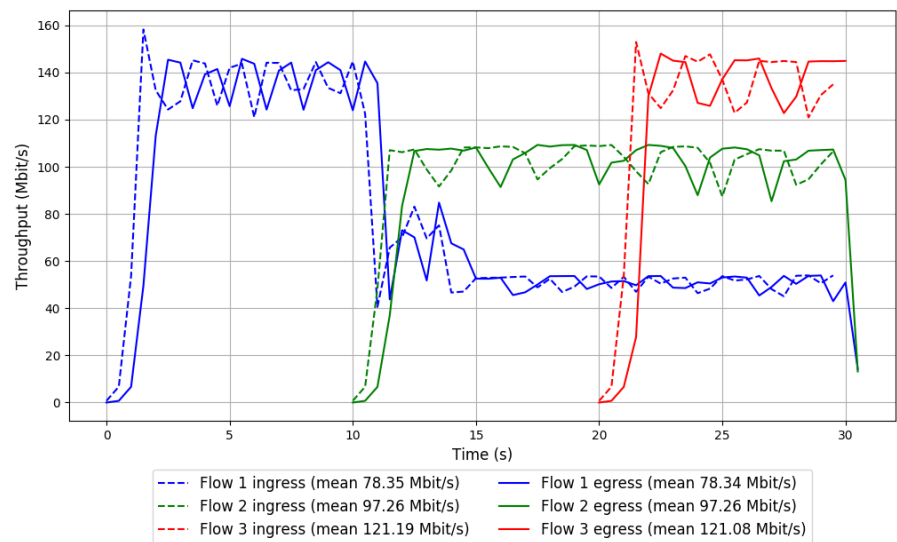


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 04:17:41
End at: 2018-05-22 04:18:11
Local clock offset: -0.36 ms
Remote clock offset: -0.348 ms

```
# Below is generated by plot.py at 2018-05-22 08:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.96 Mbit/s
95th percentile per-packet one-way delay: 98.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.34 Mbit/s
95th percentile per-packet one-way delay: 99.764 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 92.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 121.08 Mbit/s
95th percentile per-packet one-way delay: 99.013 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link

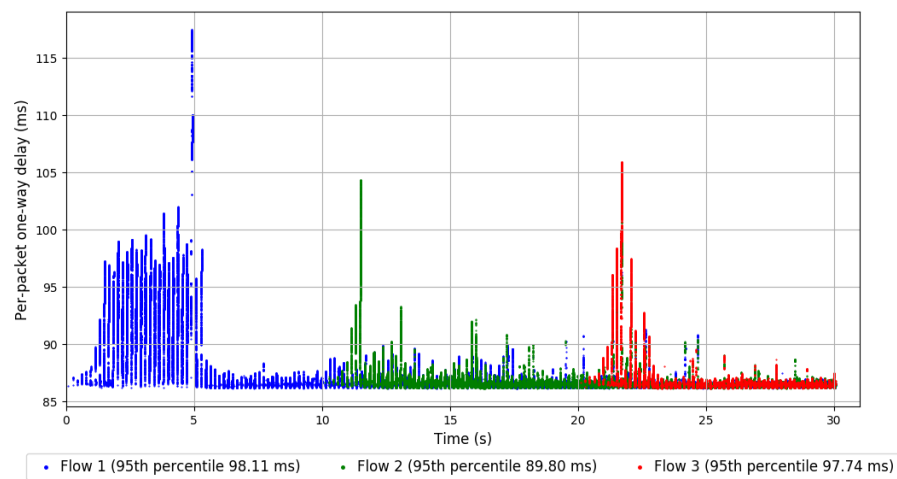
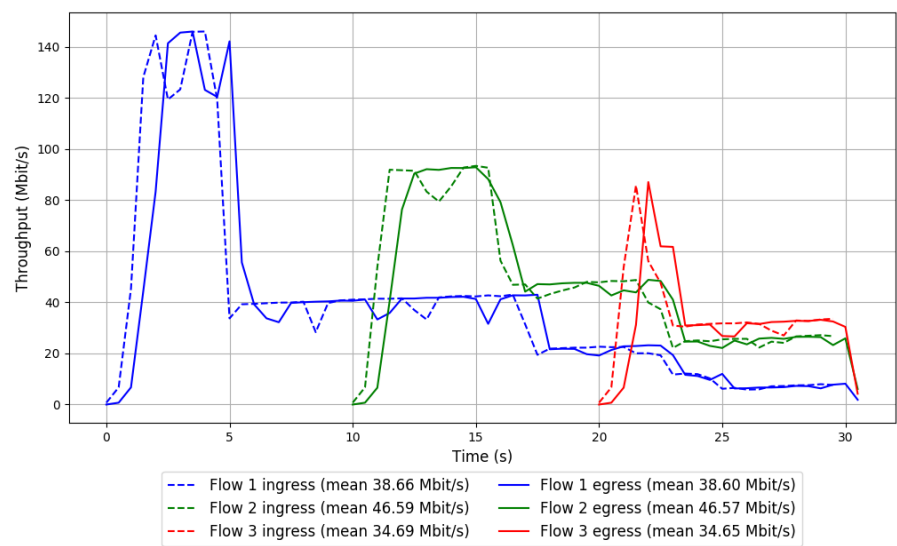


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 04:41:24
End at: 2018-05-22 04:41:54
Local clock offset: -0.192 ms
Remote clock offset: -0.262 ms

```
# Below is generated by plot.py at 2018-05-22 08:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.12 Mbit/s
95th percentile per-packet one-way delay: 97.080 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 38.60 Mbit/s
95th percentile per-packet one-way delay: 98.106 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 46.57 Mbit/s
95th percentile per-packet one-way delay: 89.795 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 97.739 ms
Loss rate: 0.10%
```

Run 7: Report of TCP Vegas — Data Link

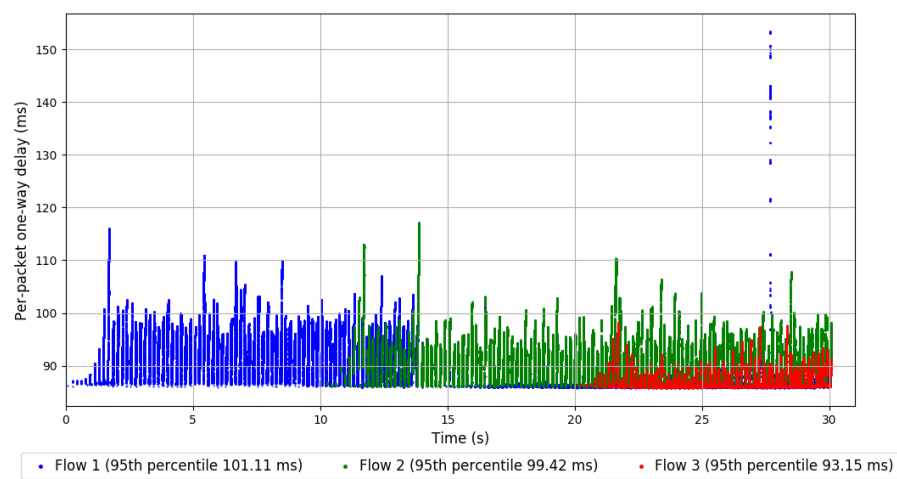
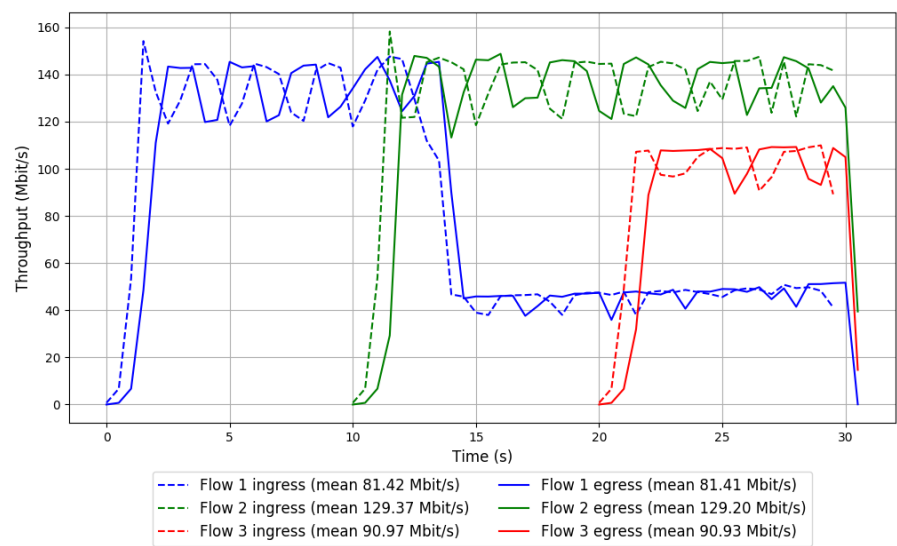


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 05:04:59
End at: 2018-05-22 05:05:29
Local clock offset: 0.08 ms
Remote clock offset: -0.077 ms

```
# Below is generated by plot.py at 2018-05-22 08:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.53 Mbit/s
95th percentile per-packet one-way delay: 99.808 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 101.108 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 129.20 Mbit/s
95th percentile per-packet one-way delay: 99.421 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 93.152 ms
Loss rate: 0.04%
```

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 05:28:32

End at: 2018-05-22 05:29:02

Local clock offset: -0.08 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.09 Mbit/s

95th percentile per-packet one-way delay: 101.357 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 131.04 Mbit/s

95th percentile per-packet one-way delay: 100.461 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 95.819 ms

Loss rate: 0.03%

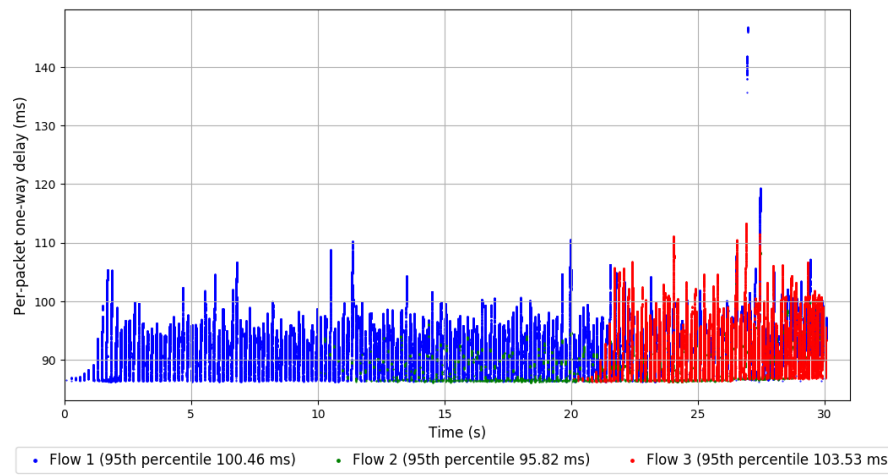
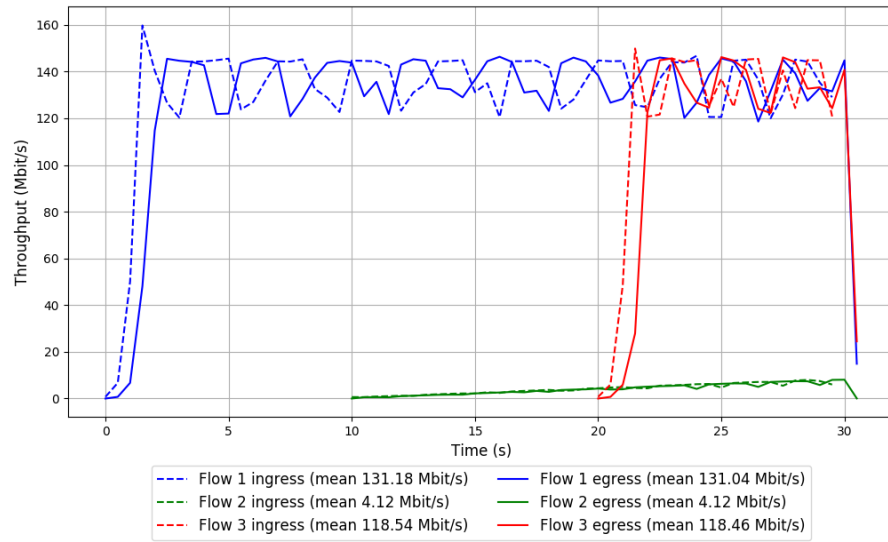
-- Flow 3:

Average throughput: 118.46 Mbit/s

95th percentile per-packet one-way delay: 103.525 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 05:52:13

End at: 2018-05-22 05:52:43

Local clock offset: -0.15 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.03 Mbit/s

95th percentile per-packet one-way delay: 98.096 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 48.26 Mbit/s

95th percentile per-packet one-way delay: 92.238 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.26 Mbit/s

95th percentile per-packet one-way delay: 99.420 ms

Loss rate: 0.02%

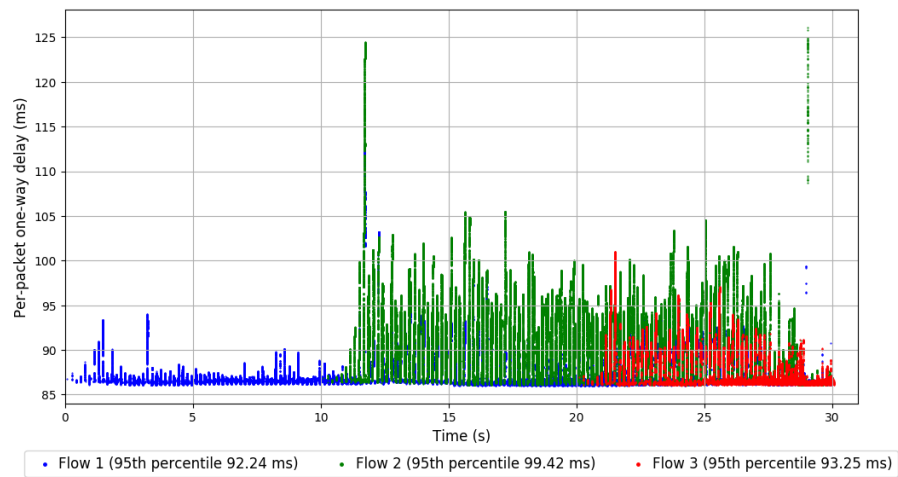
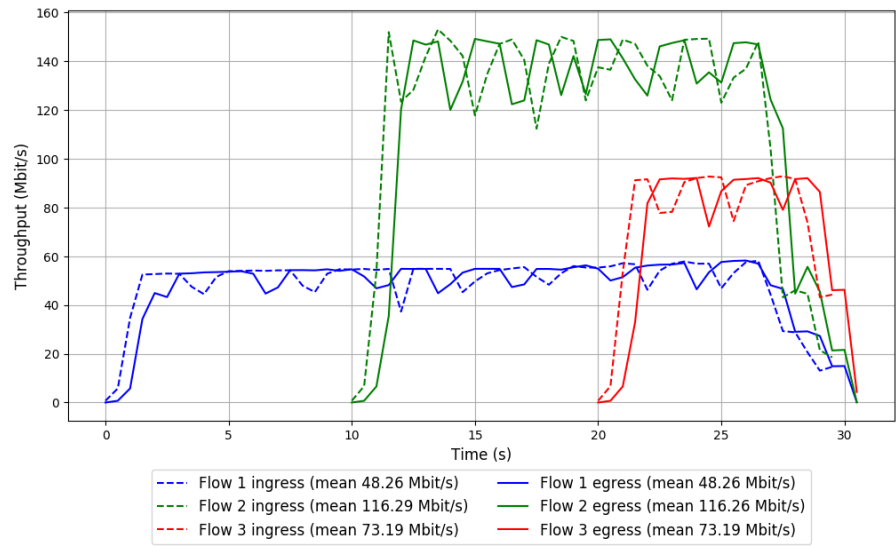
-- Flow 3:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 93.252 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 02:15:14

End at: 2018-05-22 02:15:44

Local clock offset: 0.038 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-05-22 08:00:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 282.76 Mbit/s

95th percentile per-packet one-way delay: 164.640 ms

Loss rate: 2.06%

-- Flow 1:

Average throughput: 175.69 Mbit/s

95th percentile per-packet one-way delay: 176.105 ms

Loss rate: 3.22%

-- Flow 2:

Average throughput: 80.68 Mbit/s

95th percentile per-packet one-way delay: 169.303 ms

Loss rate: 0.03%

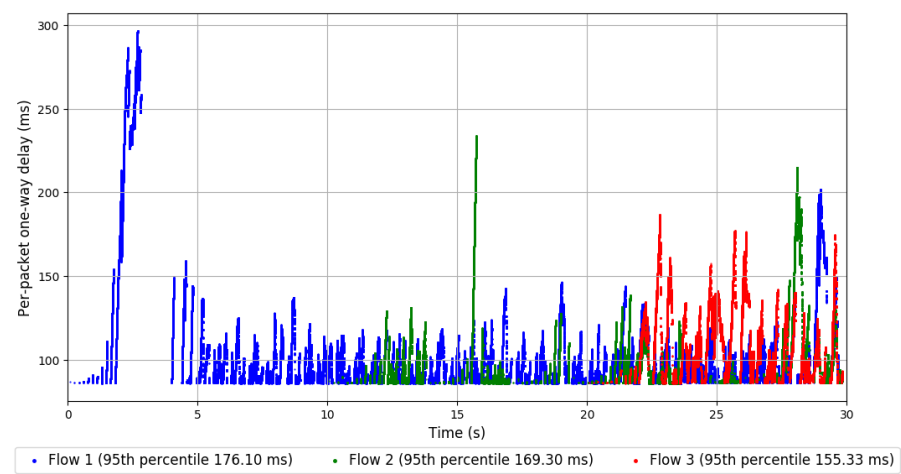
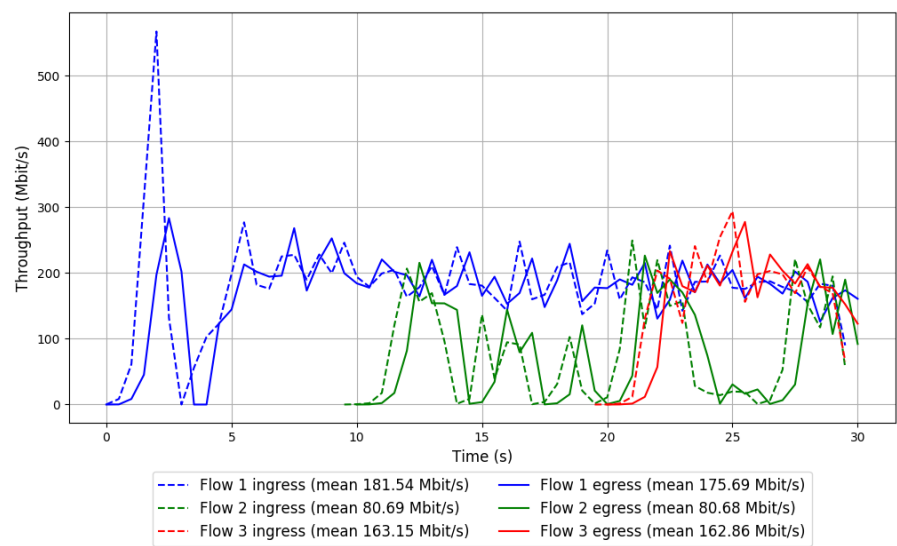
-- Flow 3:

Average throughput: 162.86 Mbit/s

95th percentile per-packet one-way delay: 155.330 ms

Loss rate: 0.17%

Run 1: Report of Verus — Data Link

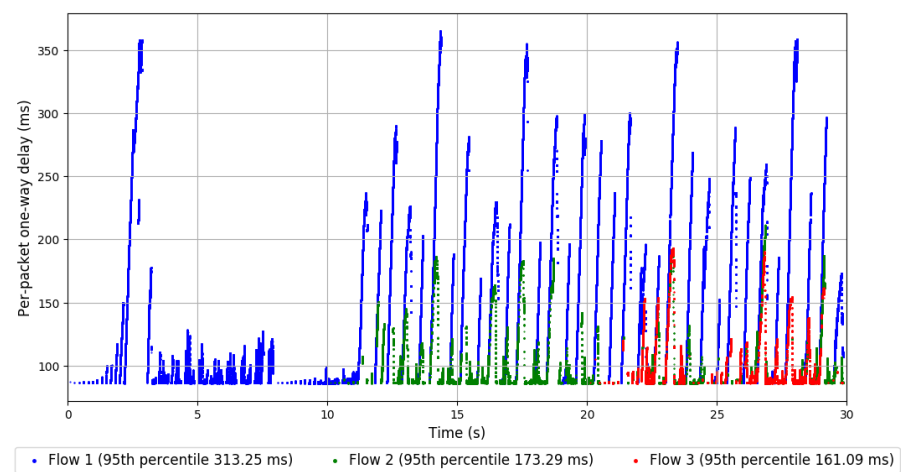
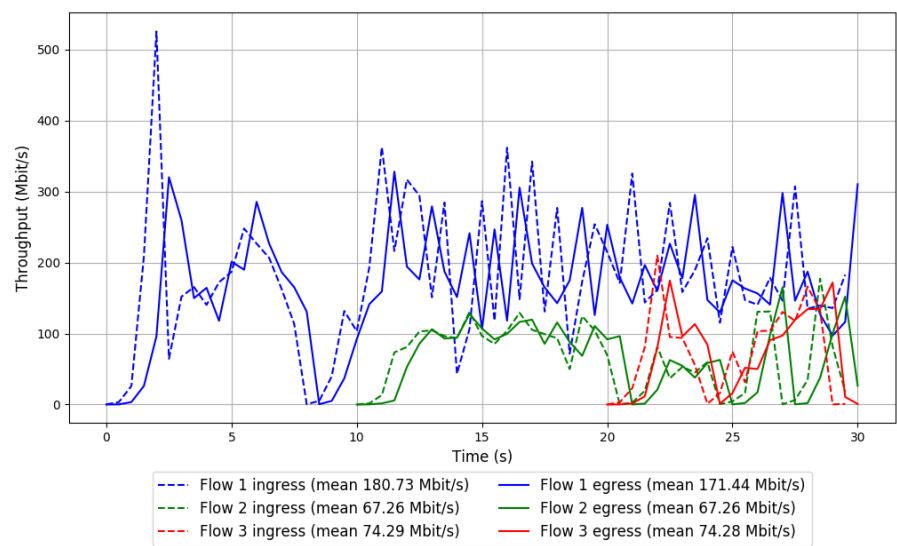


Run 2: Statistics of Verus

Start at: 2018-05-22 02:38:54
End at: 2018-05-22 02:39:24
Local clock offset: -0.28 ms
Remote clock offset: 0.008 ms

```
# Below is generated by plot.py at 2018-05-22 08:00:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.13 Mbit/s
95th percentile per-packet one-way delay: 289.906 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 171.44 Mbit/s
95th percentile per-packet one-way delay: 313.254 ms
Loss rate: 5.08%
-- Flow 2:
Average throughput: 67.26 Mbit/s
95th percentile per-packet one-way delay: 173.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.28 Mbit/s
95th percentile per-packet one-way delay: 161.088 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

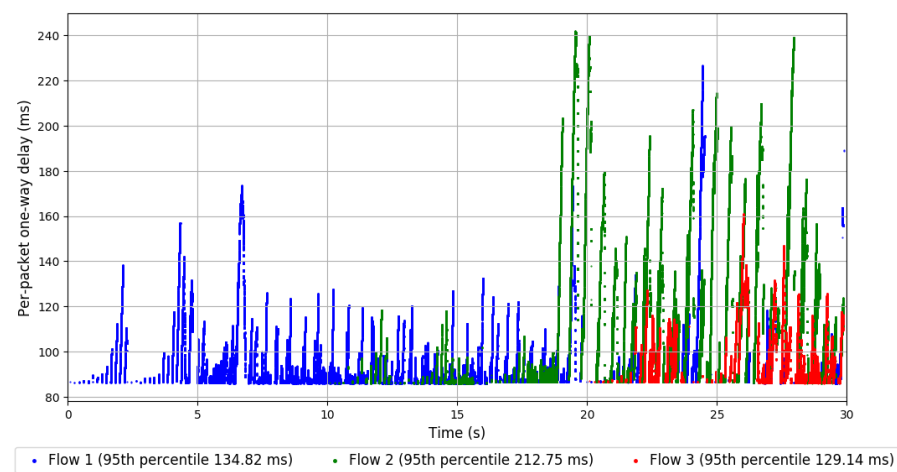
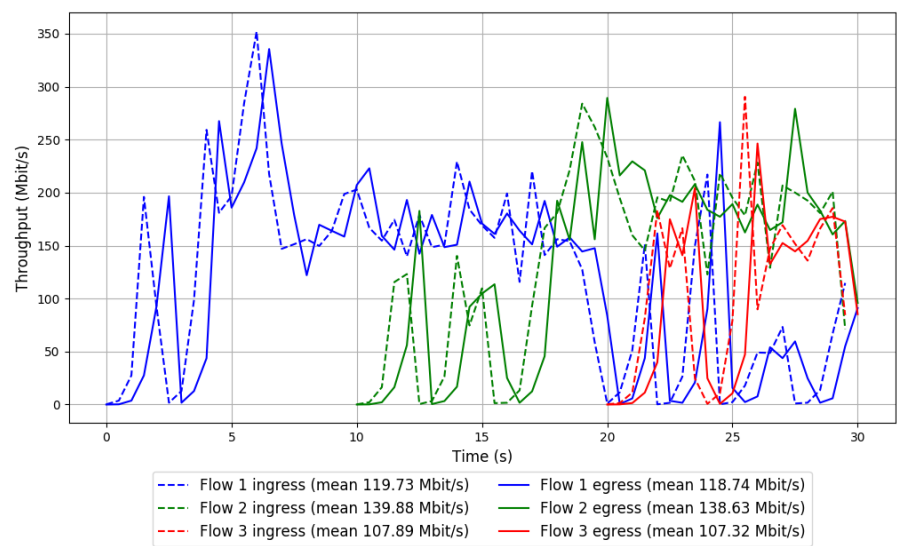


Run 3: Statistics of Verus

Start at: 2018-05-22 03:02:42
End at: 2018-05-22 03:03:12
Local clock offset: 0.038 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-05-22 08:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.94 Mbit/s
95th percentile per-packet one-way delay: 182.659 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 118.74 Mbit/s
95th percentile per-packet one-way delay: 134.825 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 138.63 Mbit/s
95th percentile per-packet one-way delay: 212.751 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 107.32 Mbit/s
95th percentile per-packet one-way delay: 129.144 ms
Loss rate: 0.57%

Run 3: Report of Verus — Data Link

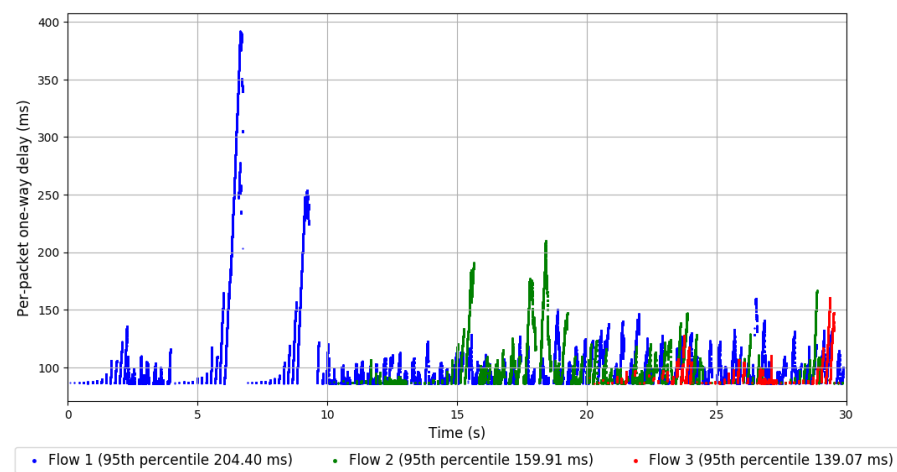
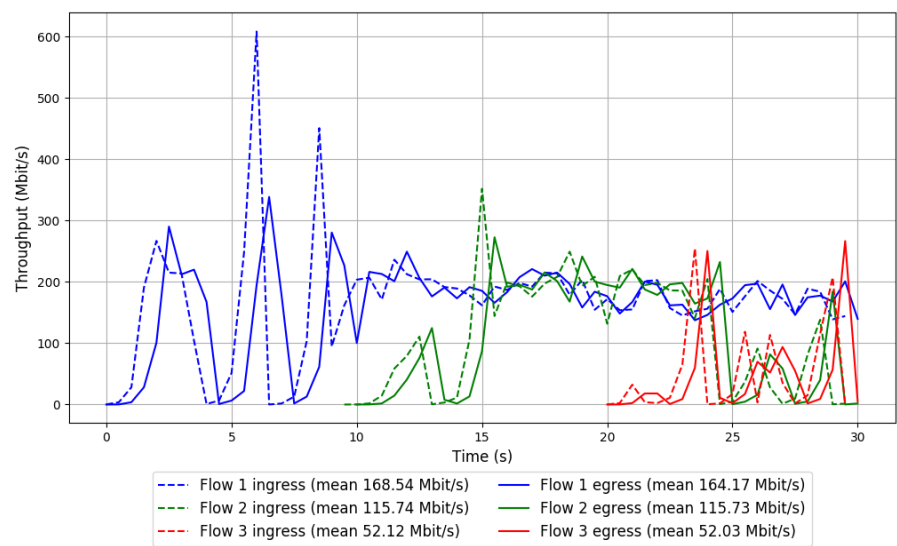


Run 4: Statistics of Verus

Start at: 2018-05-22 03:26:18
End at: 2018-05-22 03:26:48
Local clock offset: -0.075 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-05-22 08:01:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.78 Mbit/s
95th percentile per-packet one-way delay: 167.184 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 164.17 Mbit/s
95th percentile per-packet one-way delay: 204.397 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 115.73 Mbit/s
95th percentile per-packet one-way delay: 159.905 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 139.068 ms
Loss rate: 0.21%

Run 4: Report of Verus — Data Link

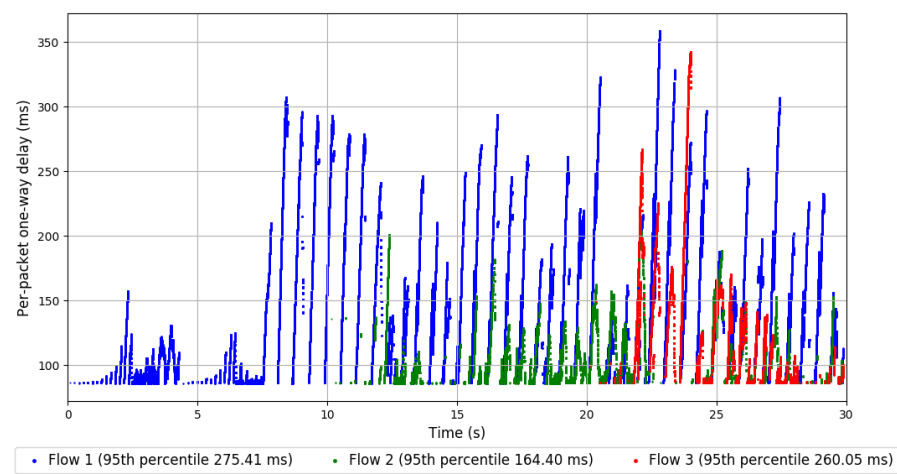
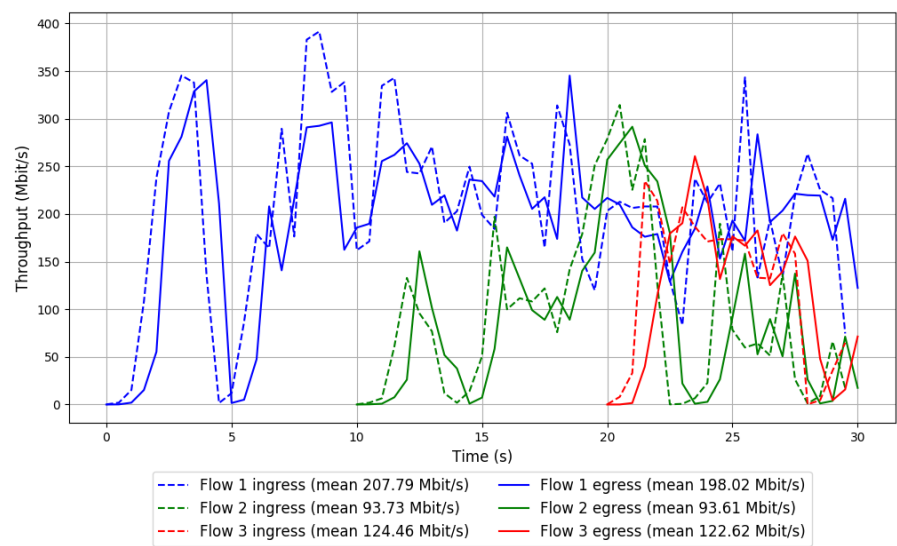


Run 5: Statistics of Verus

Start at: 2018-05-22 03:49:59
End at: 2018-05-22 03:50:29
Local clock offset: 0.177 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-22 08:02:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.97 Mbit/s
95th percentile per-packet one-way delay: 267.546 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 198.02 Mbit/s
95th percentile per-packet one-way delay: 275.411 ms
Loss rate: 4.70%
-- Flow 2:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 164.396 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 122.62 Mbit/s
95th percentile per-packet one-way delay: 260.050 ms
Loss rate: 1.59%

Run 5: Report of Verus — Data Link

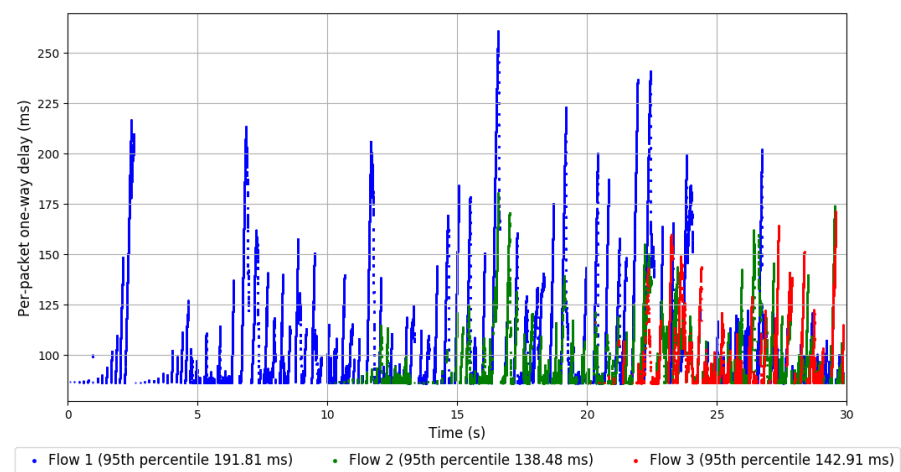
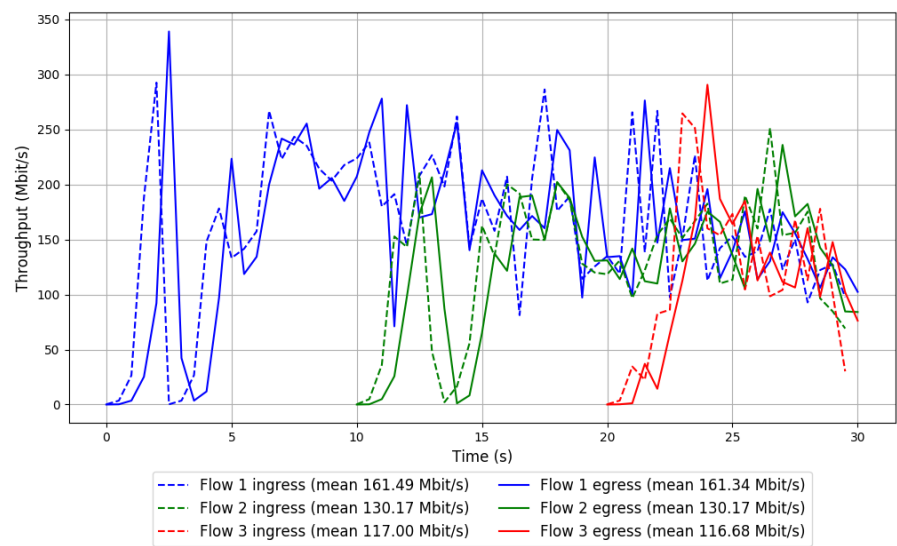


Run 6: Statistics of Verus

Start at: 2018-05-22 04:13:45
End at: 2018-05-22 04:14:15
Local clock offset: 0.108 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-05-22 08:02:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.97 Mbit/s
95th percentile per-packet one-way delay: 172.121 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 161.34 Mbit/s
95th percentile per-packet one-way delay: 191.809 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 130.17 Mbit/s
95th percentile per-packet one-way delay: 138.479 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.68 Mbit/s
95th percentile per-packet one-way delay: 142.907 ms
Loss rate: 0.26%

Run 6: Report of Verus — Data Link

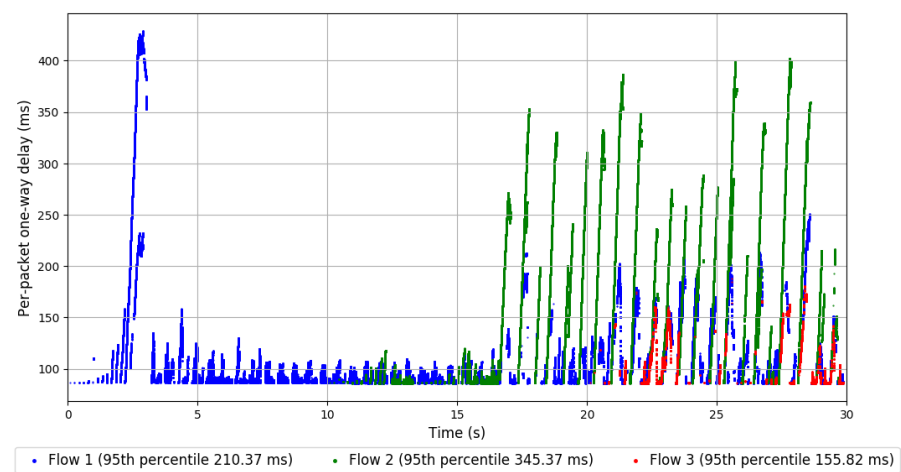
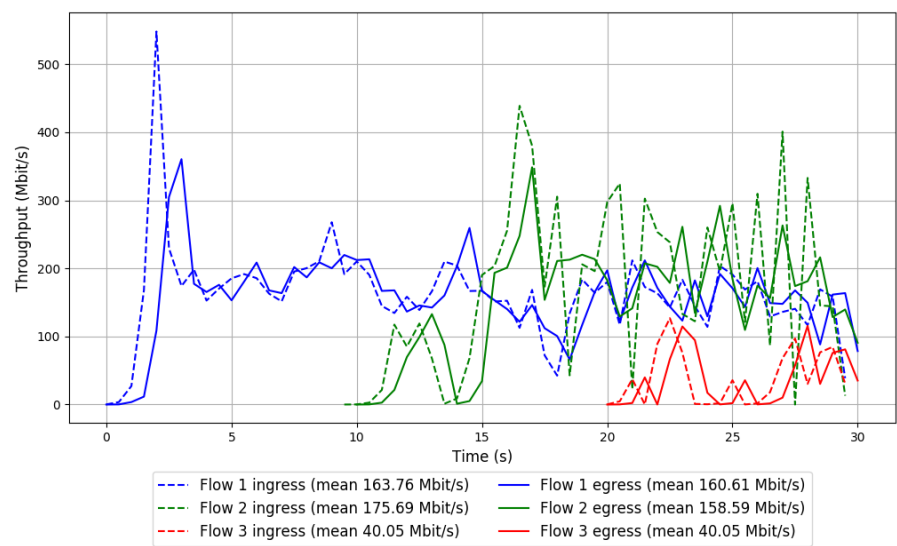


Run 7: Statistics of Verus

Start at: 2018-05-22 04:37:27
End at: 2018-05-22 04:37:57
Local clock offset: 0.018 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-05-22 08:04:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.11 Mbit/s
95th percentile per-packet one-way delay: 320.165 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 160.61 Mbit/s
95th percentile per-packet one-way delay: 210.371 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 345.370 ms
Loss rate: 9.73%
-- Flow 3:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 155.819 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

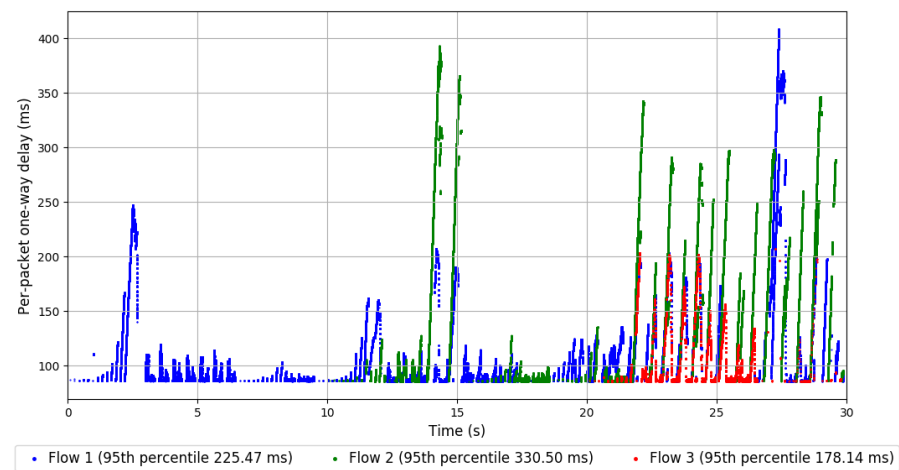
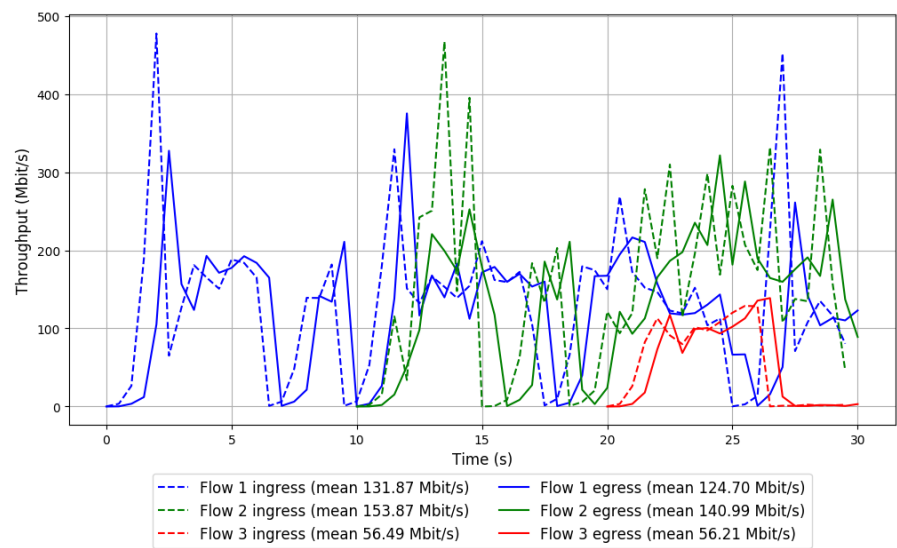


Run 8: Statistics of Verus

Start at: 2018-05-22 05:01:06
End at: 2018-05-22 05:01:36
Local clock offset: 0.253 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-22 08:04:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.55 Mbit/s
95th percentile per-packet one-way delay: 293.233 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 124.70 Mbit/s
95th percentile per-packet one-way delay: 225.466 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 140.99 Mbit/s
95th percentile per-packet one-way delay: 330.503 ms
Loss rate: 8.40%
-- Flow 3:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 178.141 ms
Loss rate: 0.47%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-22 05:24:38

End at: 2018-05-22 05:25:08

Local clock offset: 0.013 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-05-22 08:04:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.09 Mbit/s

95th percentile per-packet one-way delay: 187.789 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 95.35 Mbit/s

95th percentile per-packet one-way delay: 181.836 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 186.36 Mbit/s

95th percentile per-packet one-way delay: 160.454 ms

Loss rate: 0.75%

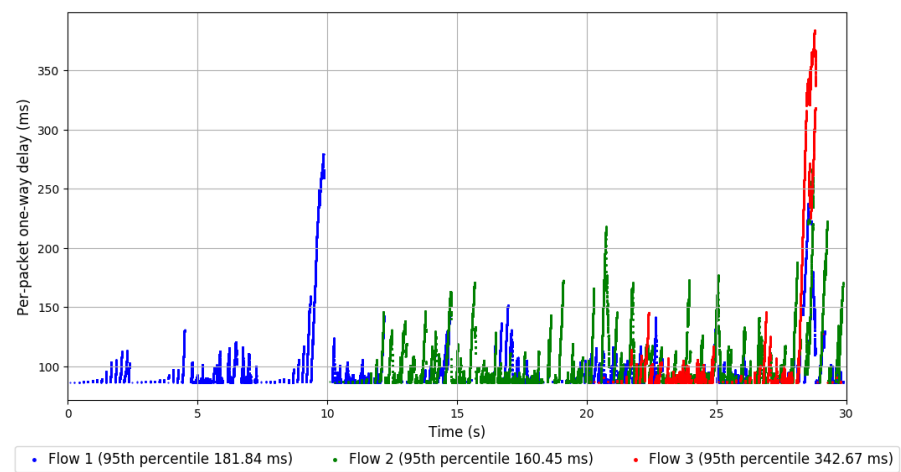
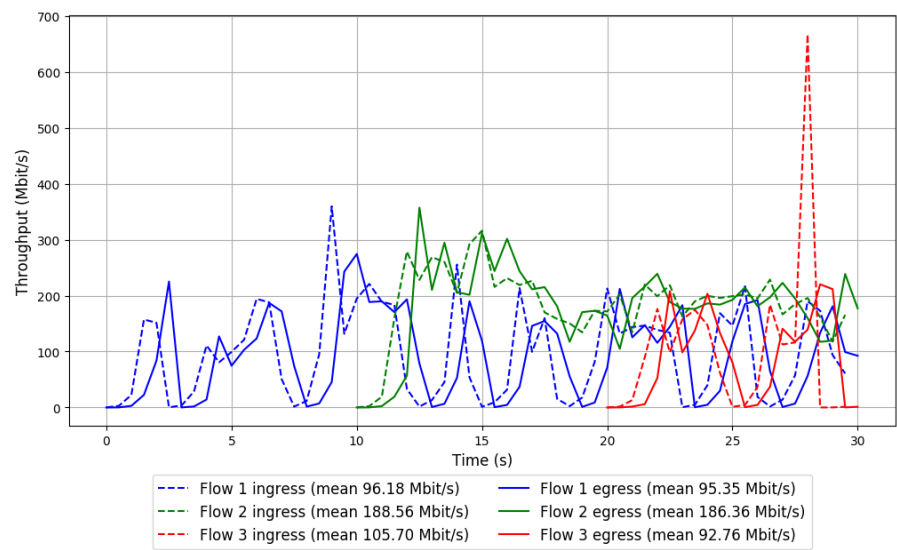
-- Flow 3:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 342.669 ms

Loss rate: 12.24%

Run 9: Report of Verus — Data Link

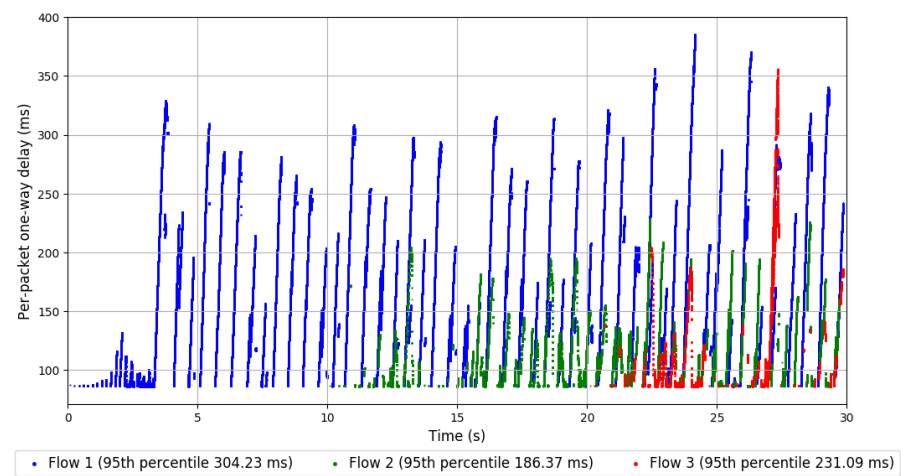
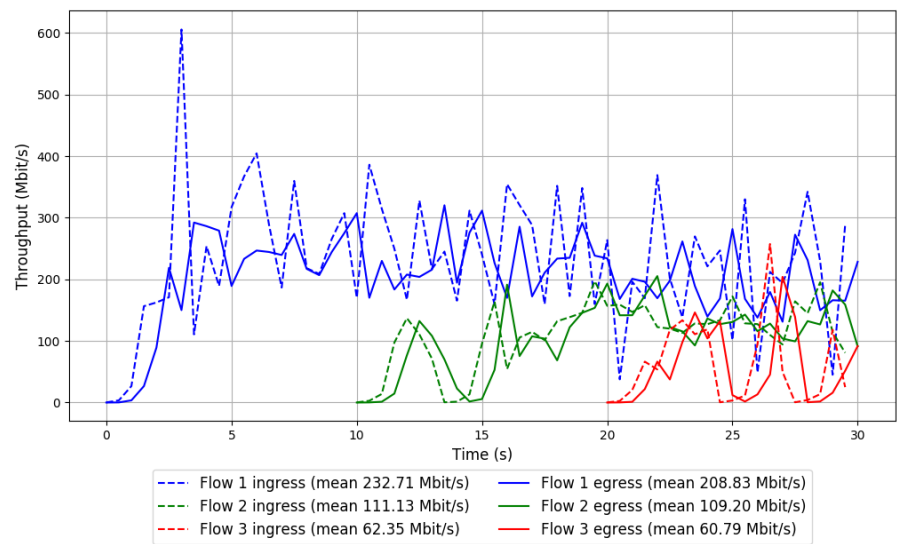


Run 10: Statistics of Verus

Start at: 2018-05-22 05:48:14
End at: 2018-05-22 05:48:44
Local clock offset: -0.385 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-22 08:05:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.18 Mbit/s
95th percentile per-packet one-way delay: 295.682 ms
Loss rate: 7.81%
-- Flow 1:
Average throughput: 208.83 Mbit/s
95th percentile per-packet one-way delay: 304.233 ms
Loss rate: 10.26%
-- Flow 2:
Average throughput: 109.20 Mbit/s
95th percentile per-packet one-way delay: 186.367 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 60.79 Mbit/s
95th percentile per-packet one-way delay: 231.089 ms
Loss rate: 1.56%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 02:33:49

End at: 2018-05-22 02:34:19

Local clock offset: 0.048 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-05-22 08:06:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 388.47 Mbit/s

95th percentile per-packet one-way delay: 90.172 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 206.82 Mbit/s

95th percentile per-packet one-way delay: 89.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 198.80 Mbit/s

95th percentile per-packet one-way delay: 90.725 ms

Loss rate: 0.00%

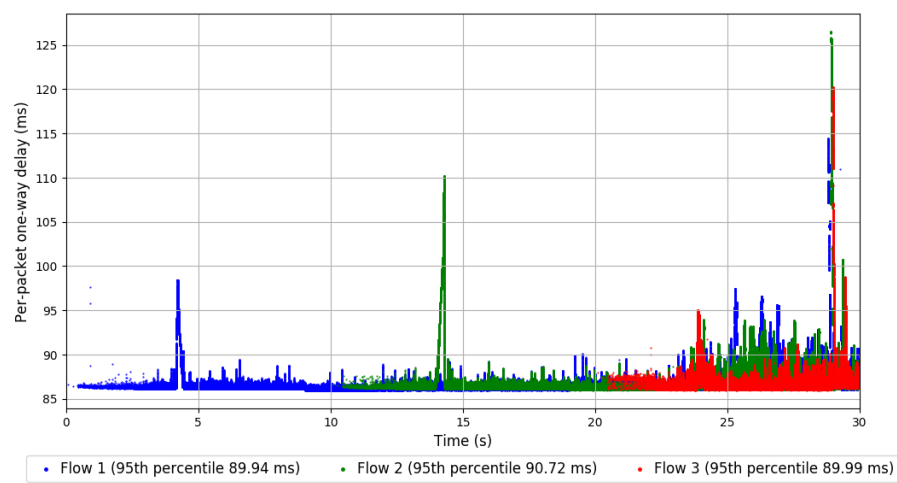
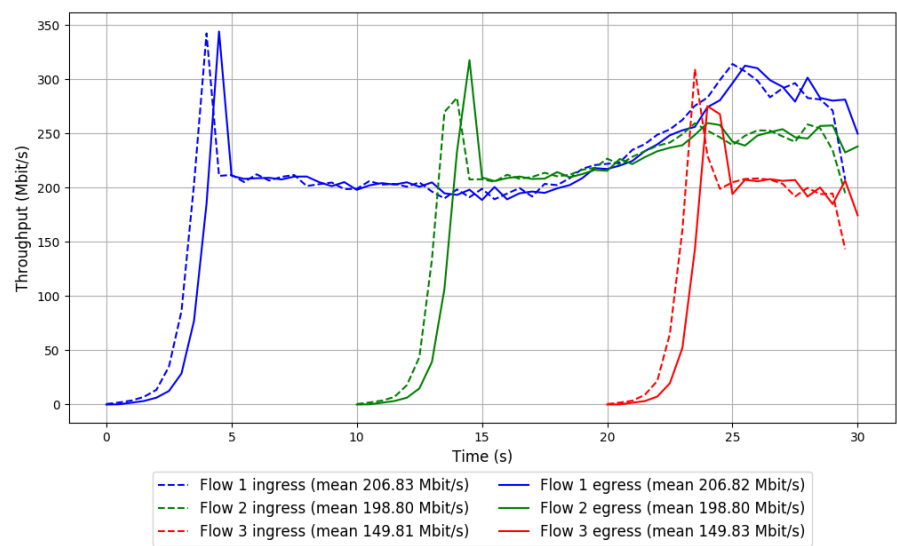
-- Flow 3:

Average throughput: 149.83 Mbit/s

95th percentile per-packet one-way delay: 89.989 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 02:57:28

End at: 2018-05-22 02:57:58

Local clock offset: -0.168 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-05-22 08:08:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.12 Mbit/s

95th percentile per-packet one-way delay: 94.381 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 232.57 Mbit/s

95th percentile per-packet one-way delay: 97.408 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 207.02 Mbit/s

95th percentile per-packet one-way delay: 92.453 ms

Loss rate: 0.00%

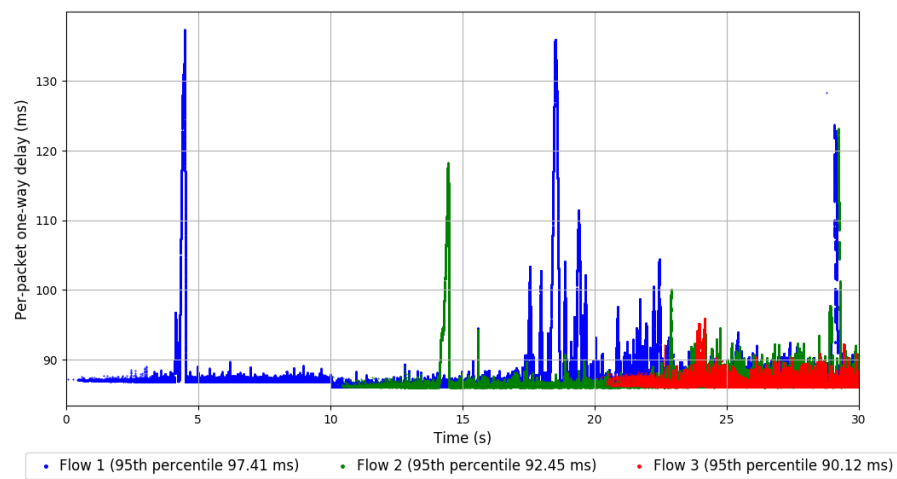
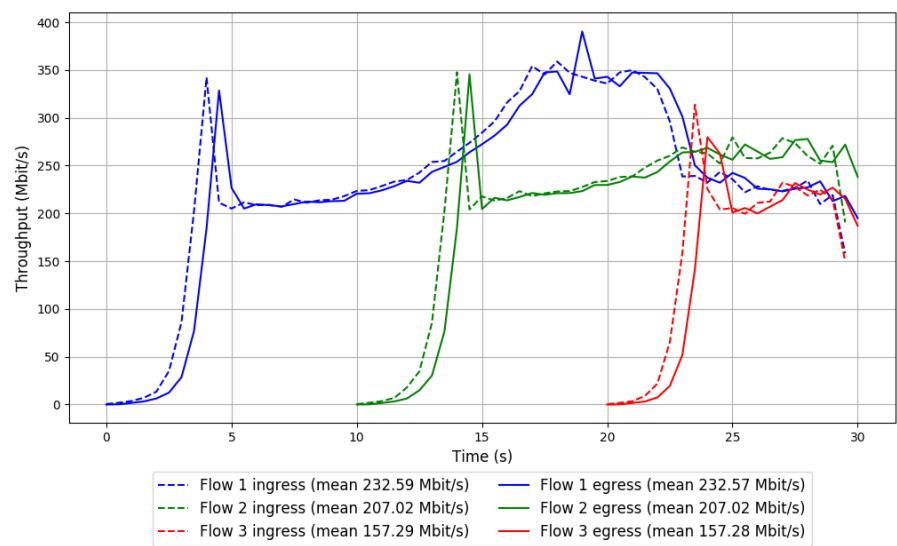
-- Flow 3:

Average throughput: 157.28 Mbit/s

95th percentile per-packet one-way delay: 90.124 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 03:21:10

End at: 2018-05-22 03:21:40

Local clock offset: 0.015 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-05-22 08:09:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.20 Mbit/s

95th percentile per-packet one-way delay: 105.939 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 223.72 Mbit/s

95th percentile per-packet one-way delay: 94.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 203.37 Mbit/s

95th percentile per-packet one-way delay: 111.239 ms

Loss rate: 0.04%

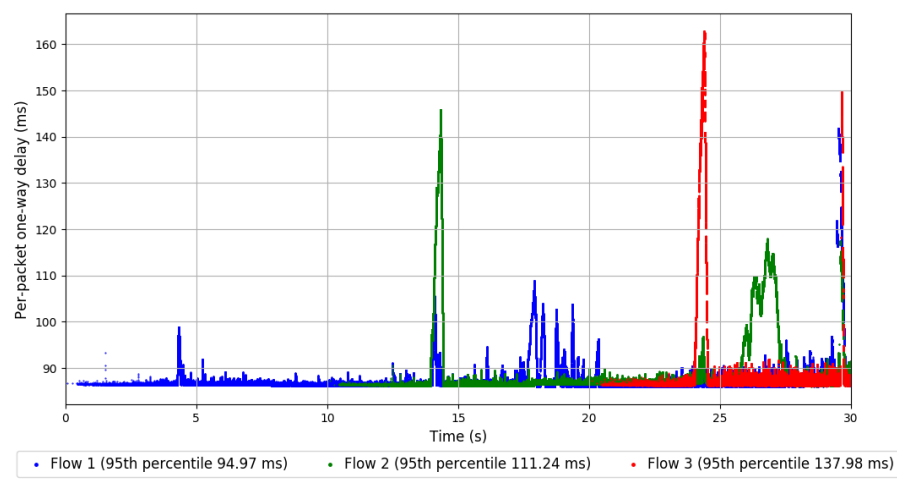
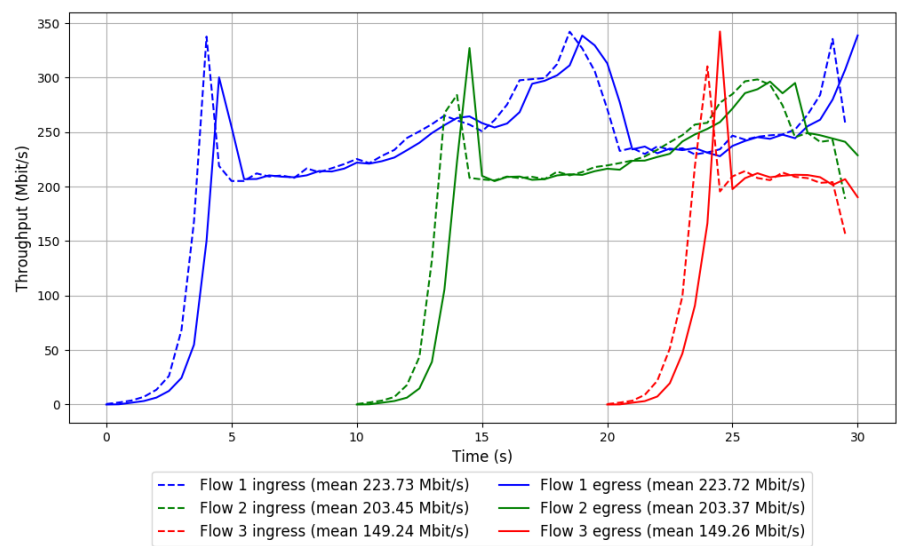
-- Flow 3:

Average throughput: 149.26 Mbit/s

95th percentile per-packet one-way delay: 137.984 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

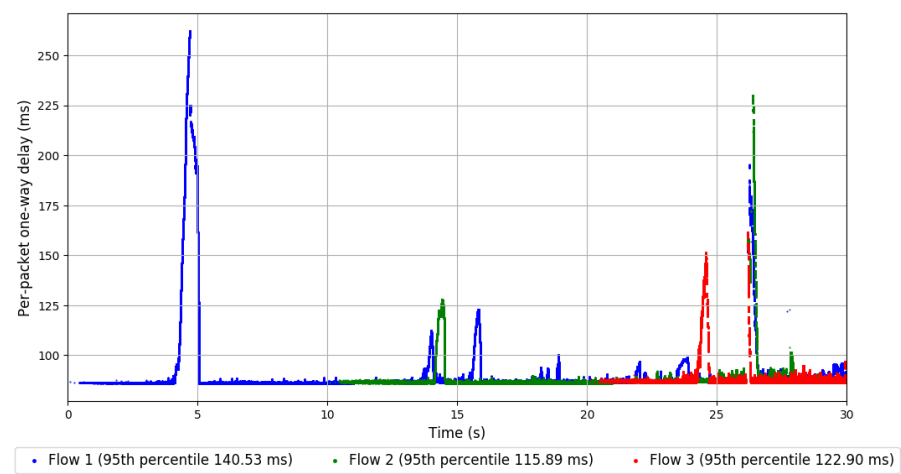
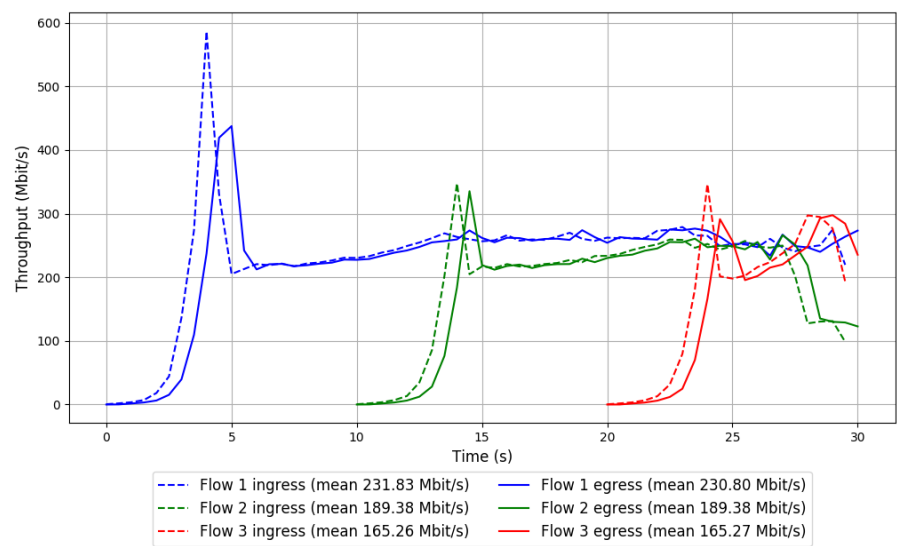


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 03:44:47
End at: 2018-05-22 03:45:17
Local clock offset: -0.059 ms
Remote clock offset: -0.268 ms

```
# Below is generated by plot.py at 2018-05-22 08:09:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.23 Mbit/s
95th percentile per-packet one-way delay: 122.152 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 230.80 Mbit/s
95th percentile per-packet one-way delay: 140.526 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 189.38 Mbit/s
95th percentile per-packet one-way delay: 115.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.27 Mbit/s
95th percentile per-packet one-way delay: 122.903 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

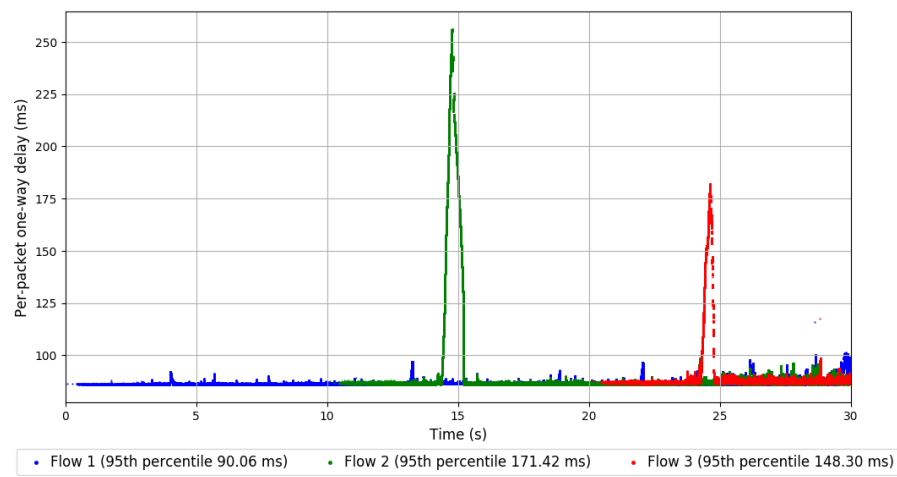
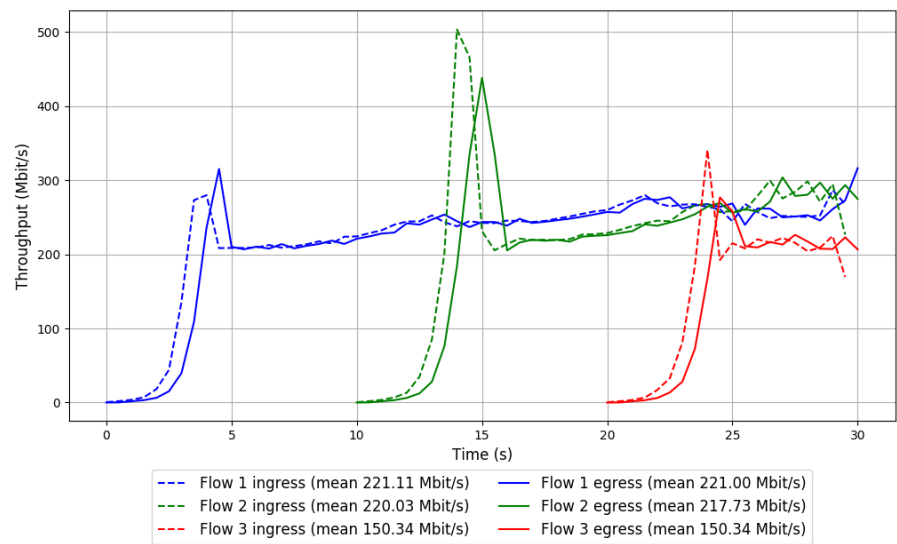


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 04:08:36
End at: 2018-05-22 04:09:06
Local clock offset: 0.188 ms
Remote clock offset: -0.322 ms

Below is generated by plot.py at 2018-05-22 08:10:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 415.37 Mbit/s
95th percentile per-packet one-way delay: 95.107 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 221.00 Mbit/s
95th percentile per-packet one-way delay: 90.056 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 171.419 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 150.34 Mbit/s
95th percentile per-packet one-way delay: 148.298 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

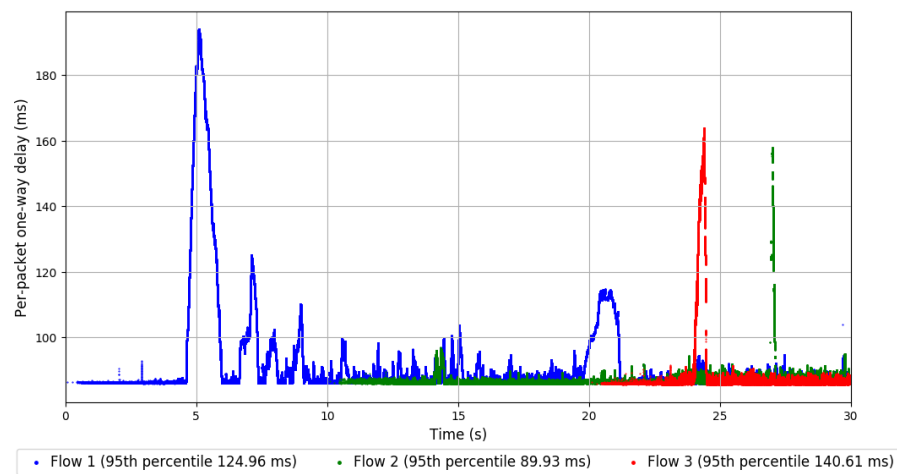
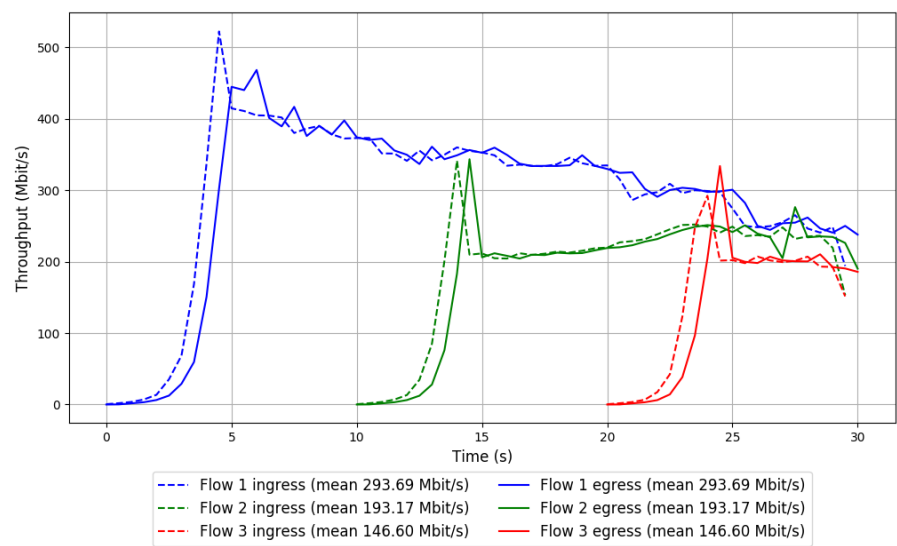


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 04:32:20
End at: 2018-05-22 04:32:50
Local clock offset: 0.235 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-22 08:11:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 470.52 Mbit/s
95th percentile per-packet one-way delay: 114.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 293.69 Mbit/s
95th percentile per-packet one-way delay: 124.960 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.17 Mbit/s
95th percentile per-packet one-way delay: 89.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.60 Mbit/s
95th percentile per-packet one-way delay: 140.610 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 04:55:53

End at: 2018-05-22 04:56:23

Local clock offset: -0.142 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2018-05-22 08:11:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.28 Mbit/s

95th percentile per-packet one-way delay: 113.364 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 245.35 Mbit/s

95th percentile per-packet one-way delay: 109.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 251.57 Mbit/s

95th percentile per-packet one-way delay: 140.951 ms

Loss rate: 0.00%

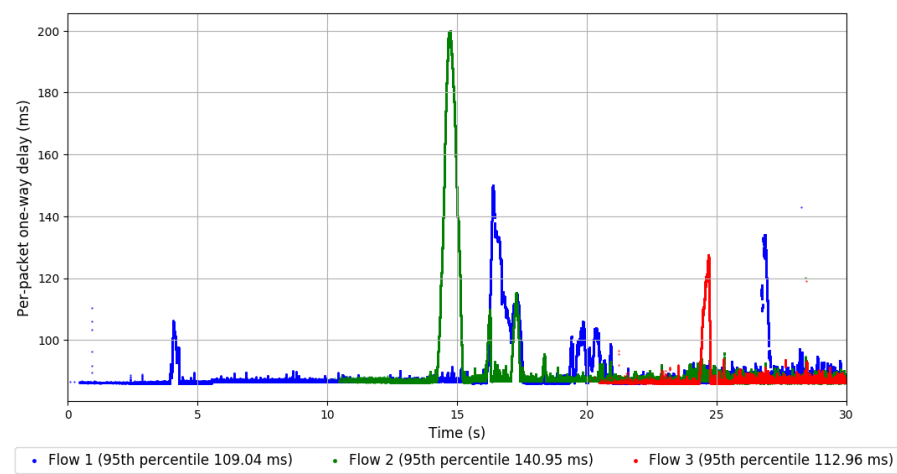
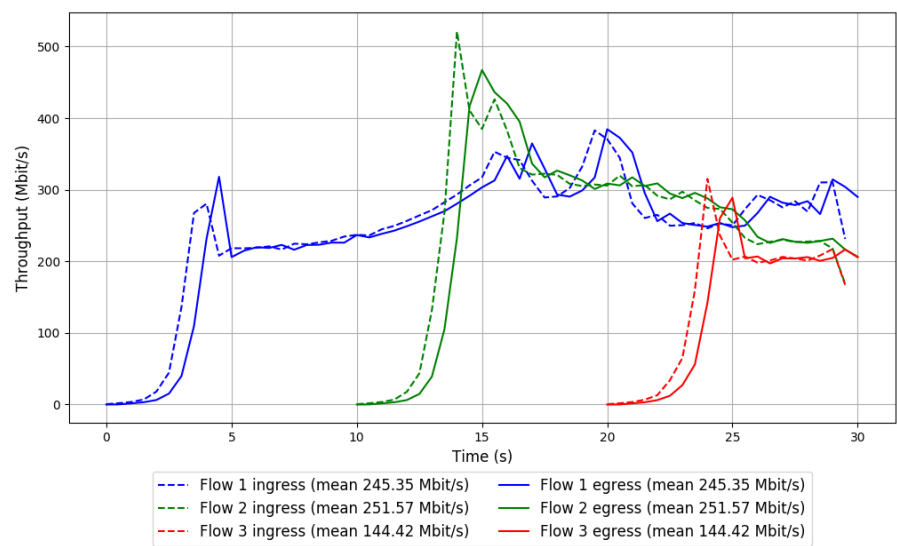
-- Flow 3:

Average throughput: 144.42 Mbit/s

95th percentile per-packet one-way delay: 112.960 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 05:19:32

End at: 2018-05-22 05:20:02

Local clock offset: 0.226 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-22 08:11:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.39 Mbit/s

95th percentile per-packet one-way delay: 166.666 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 233.64 Mbit/s

95th percentile per-packet one-way delay: 212.674 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 196.27 Mbit/s

95th percentile per-packet one-way delay: 90.578 ms

Loss rate: 0.00%

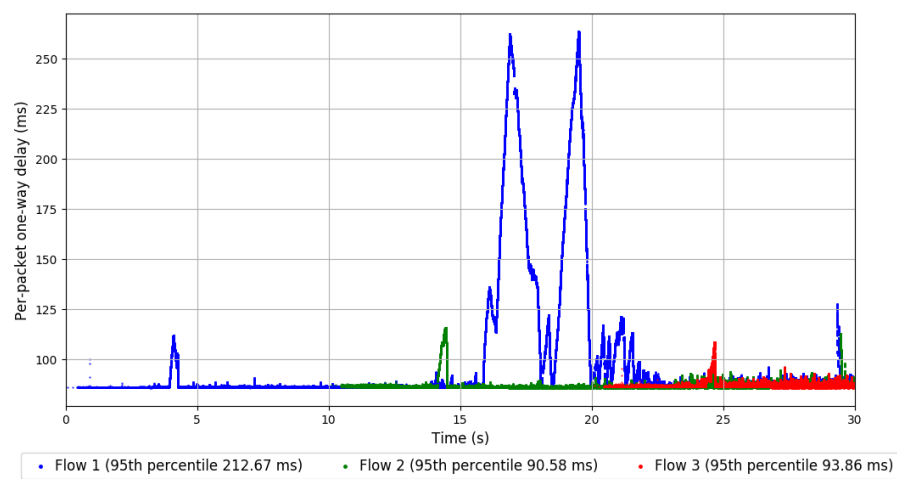
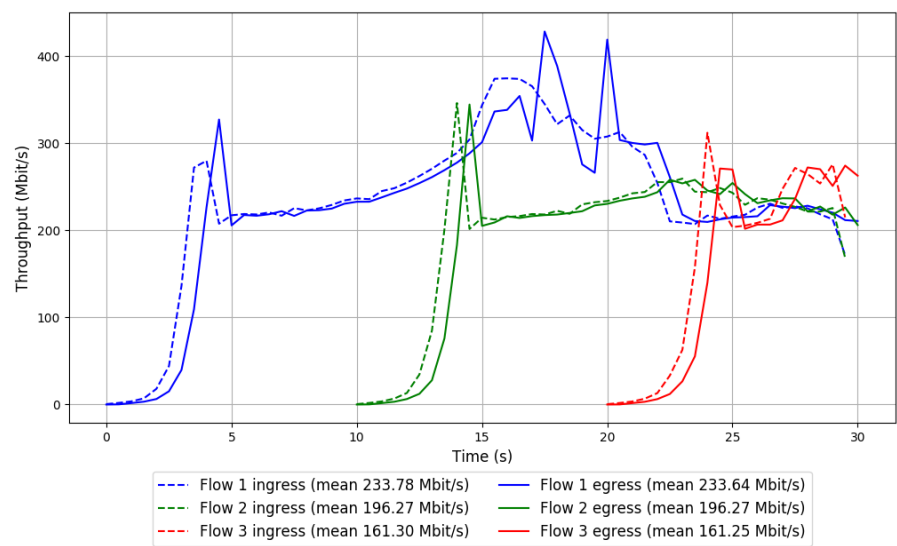
-- Flow 3:

Average throughput: 161.25 Mbit/s

95th percentile per-packet one-way delay: 93.858 ms

Loss rate: 0.02%

Run 8: Report of PCC-Vivace — Data Link

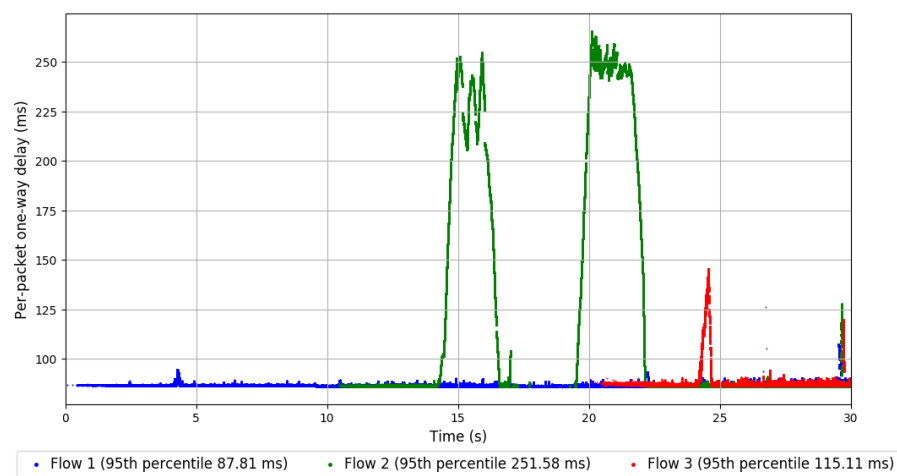
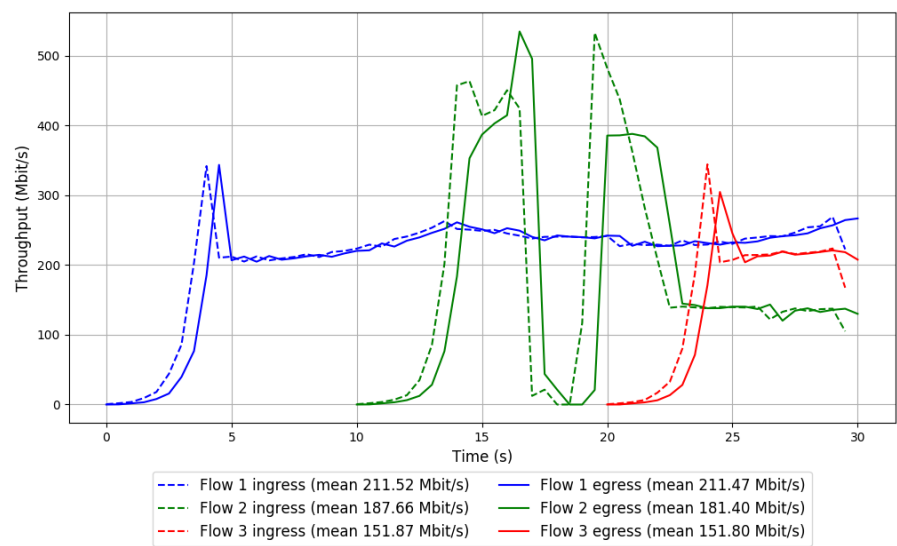


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 05:43:09
End at: 2018-05-22 05:43:39
Local clock offset: -0.125 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-22 08:12:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 382.15 Mbit/s
95th percentile per-packet one-way delay: 244.784 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 211.47 Mbit/s
95th percentile per-packet one-way delay: 87.811 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 181.40 Mbit/s
95th percentile per-packet one-way delay: 251.580 ms
Loss rate: 3.34%
-- Flow 3:
Average throughput: 151.80 Mbit/s
95th percentile per-packet one-way delay: 115.106 ms
Loss rate: 0.04%

Run 9: Report of PCC-Vivace — Data Link

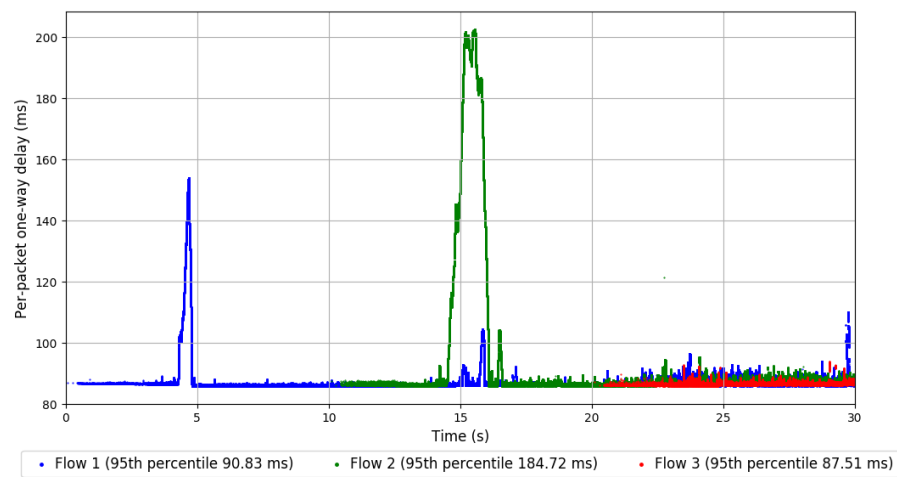
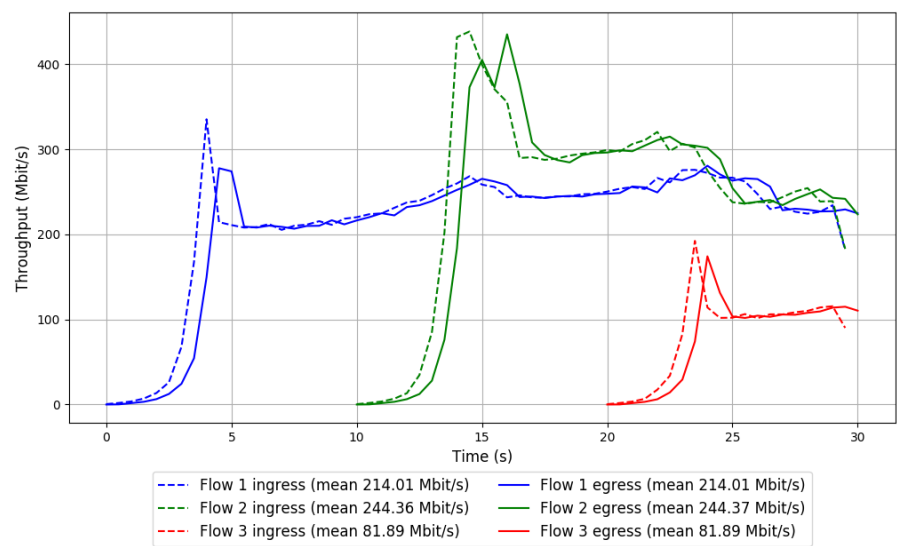


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 06:06:44
End at: 2018-05-22 06:07:14
Local clock offset: -0.179 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 403.53 Mbit/s
95th percentile per-packet one-way delay: 116.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.01 Mbit/s
95th percentile per-packet one-way delay: 90.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 244.37 Mbit/s
95th percentile per-packet one-way delay: 184.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.89 Mbit/s
95th percentile per-packet one-way delay: 87.509 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-22 02:29:45

End at: 2018-05-22 02:30:15

Local clock offset: 0.051 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-05-22 08:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.319 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.091 ms

Loss rate: 0.00%

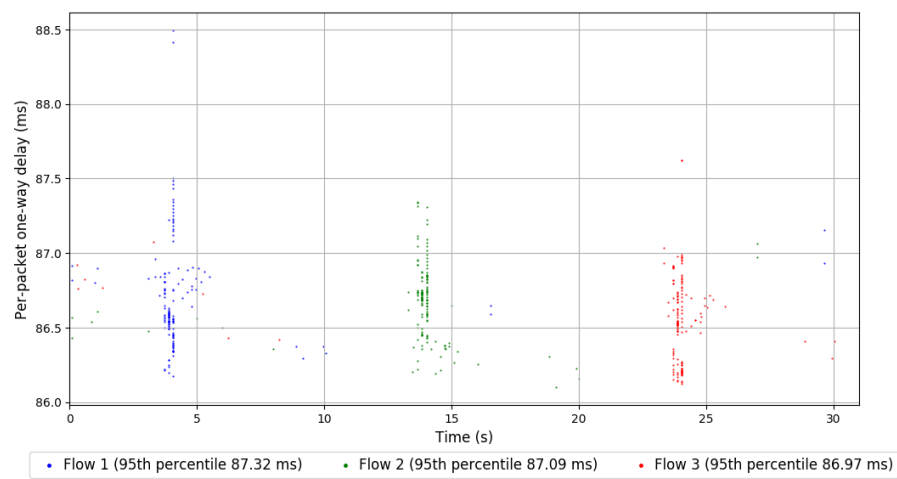
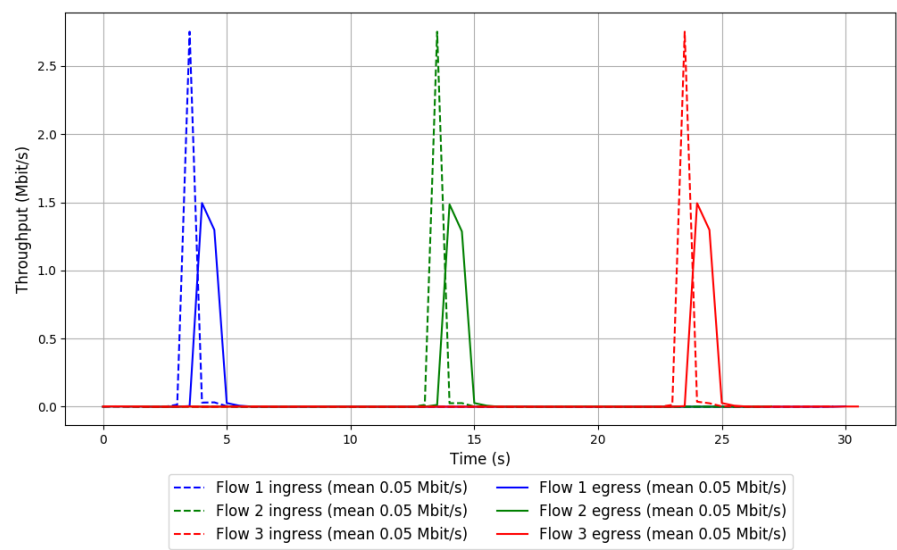
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.974 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 02:53:25

End at: 2018-05-22 02:53:55

Local clock offset: 0.033 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-22 08:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.724 ms

Loss rate: 0.00%

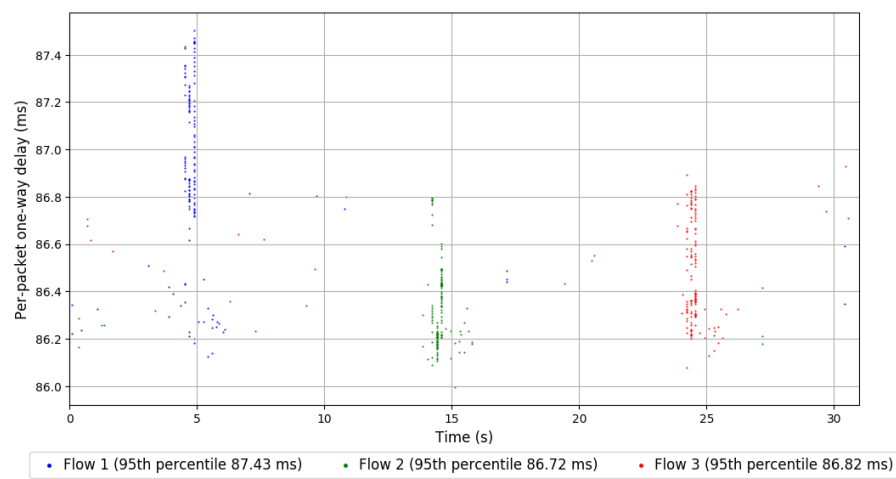
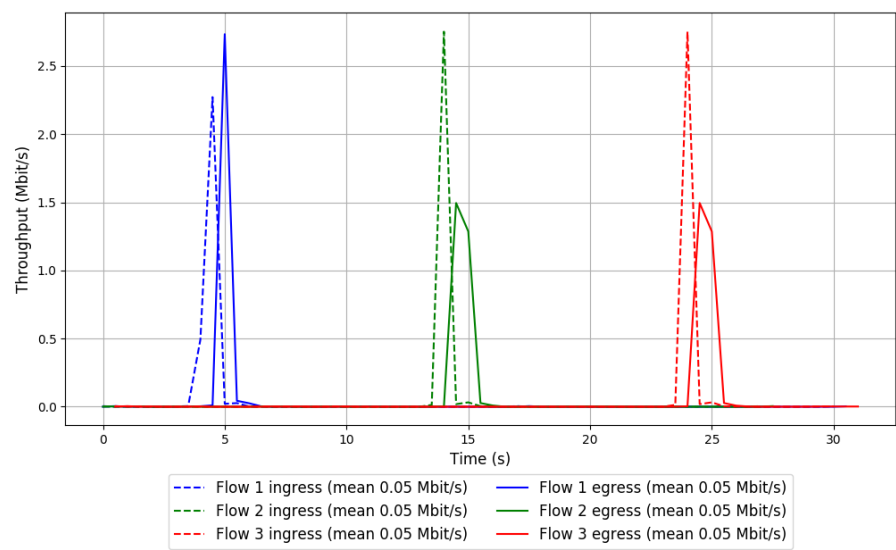
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.824 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

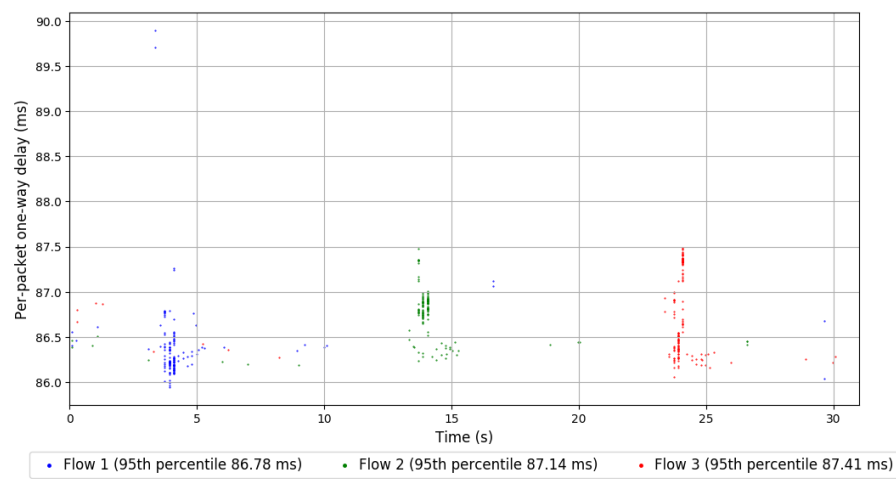
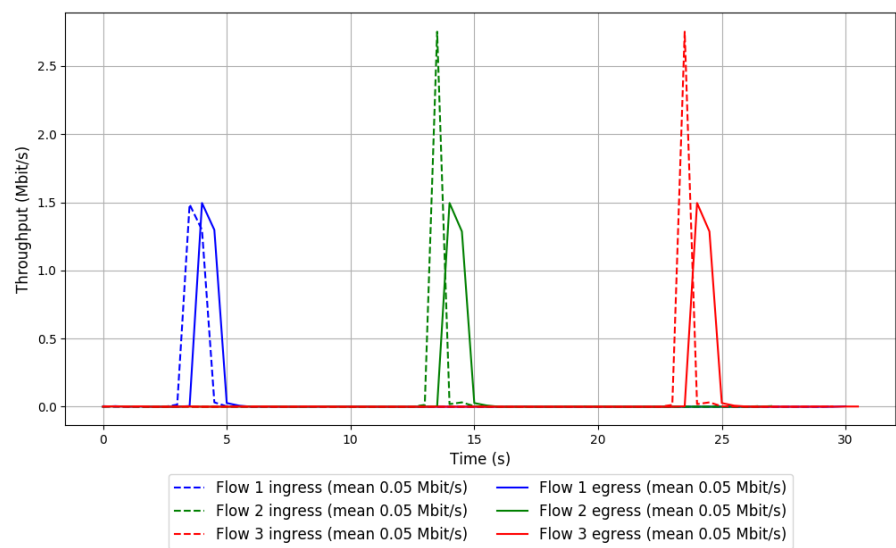


Run 3: Statistics of WebRTC media

Start at: 2018-05-22 03:17:09
End at: 2018-05-22 03:17:39
Local clock offset: 0.065 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 87.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.777 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

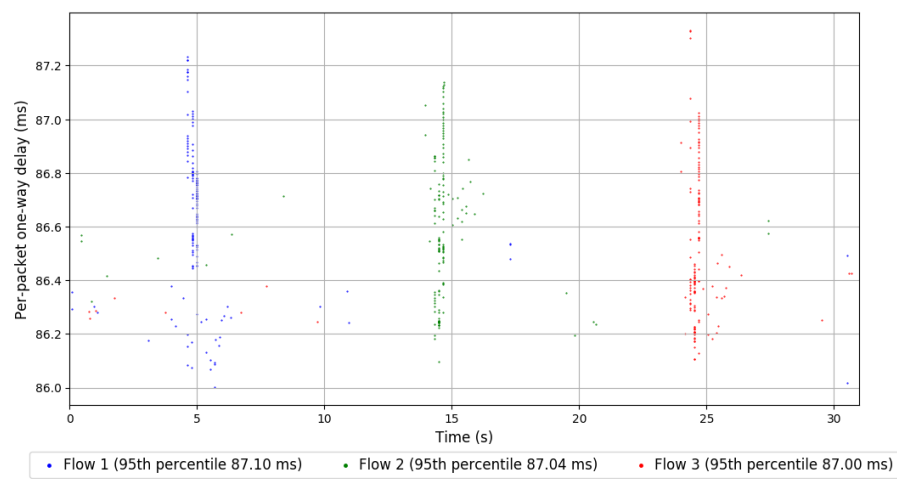
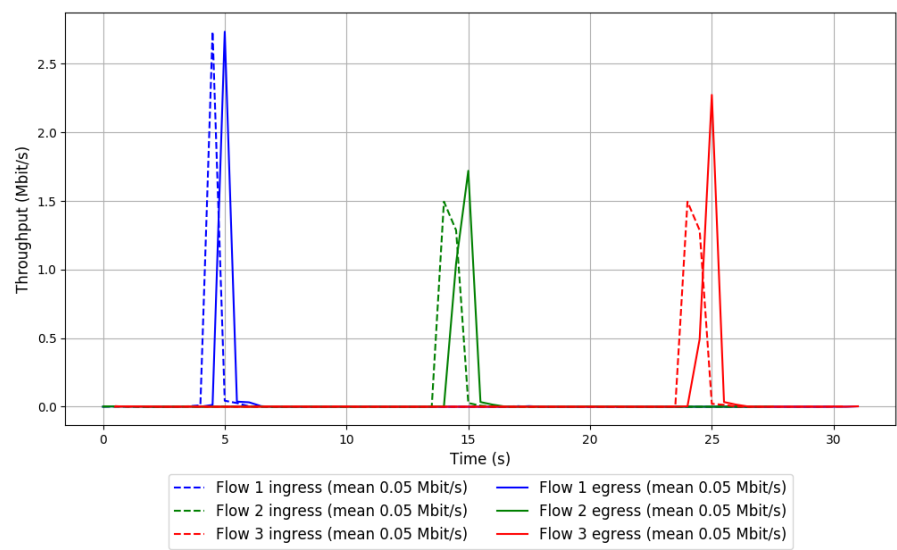


Run 4: Statistics of WebRTC media

Start at: 2018-05-22 03:40:43
End at: 2018-05-22 03:41:13
Local clock offset: 0.03 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 87.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.995 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

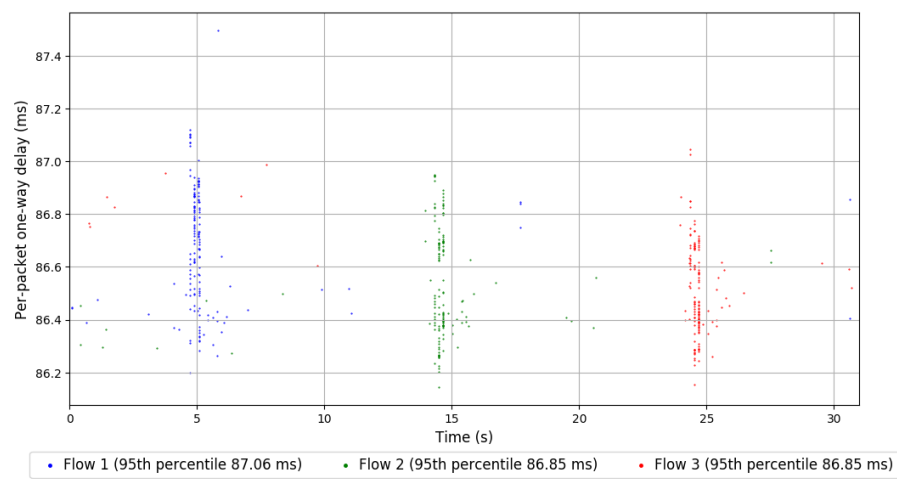
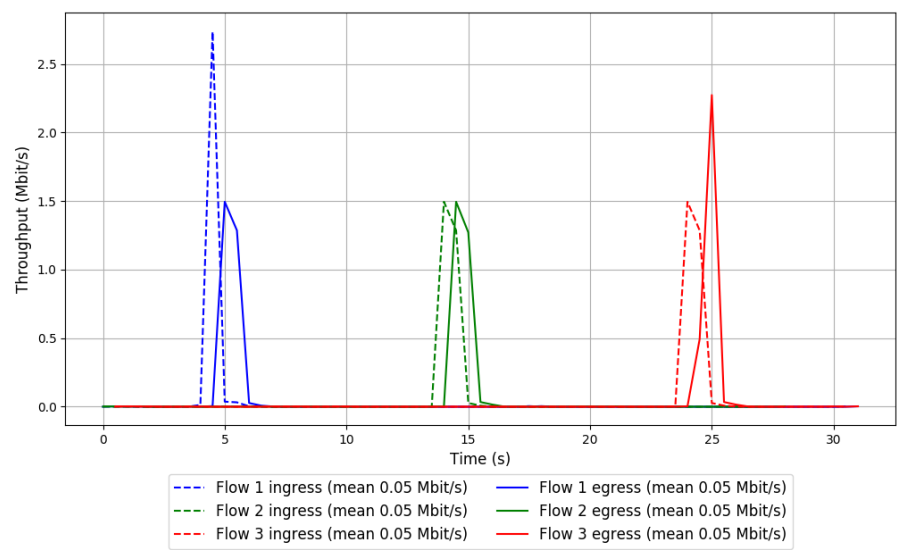


Run 5: Statistics of WebRTC media

Start at: 2018-05-22 04:04:33
End at: 2018-05-22 04:05:04
Local clock offset: 0.079 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.853 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

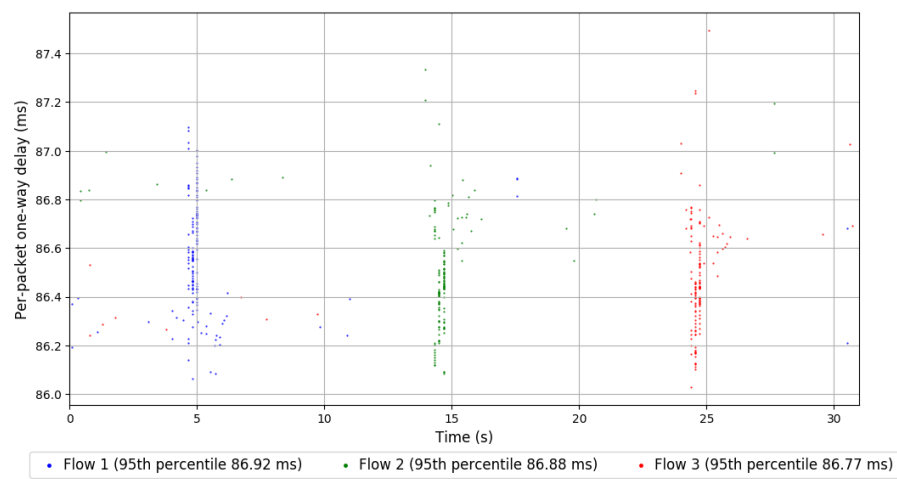
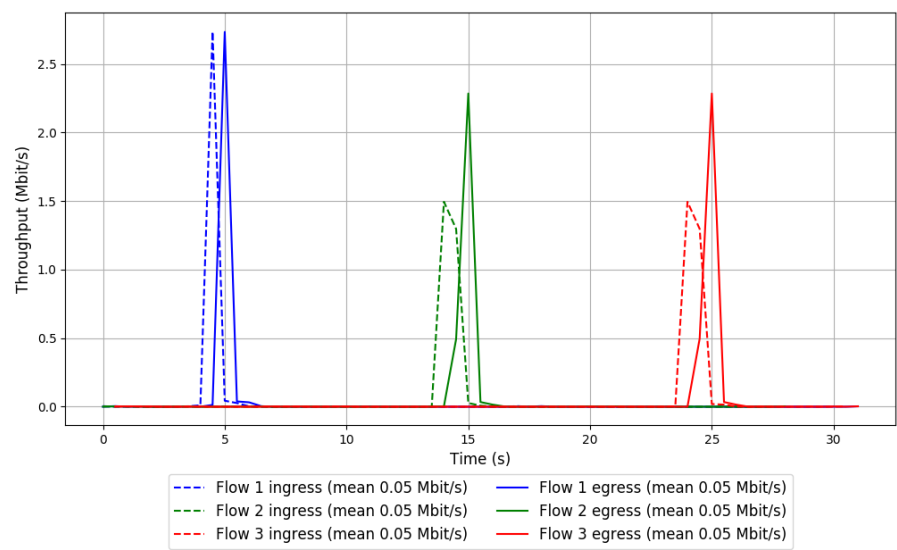


Run 6: Statistics of WebRTC media

Start at: 2018-05-22 04:28:18
End at: 2018-05-22 04:28:48
Local clock offset: -0.006 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.769 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

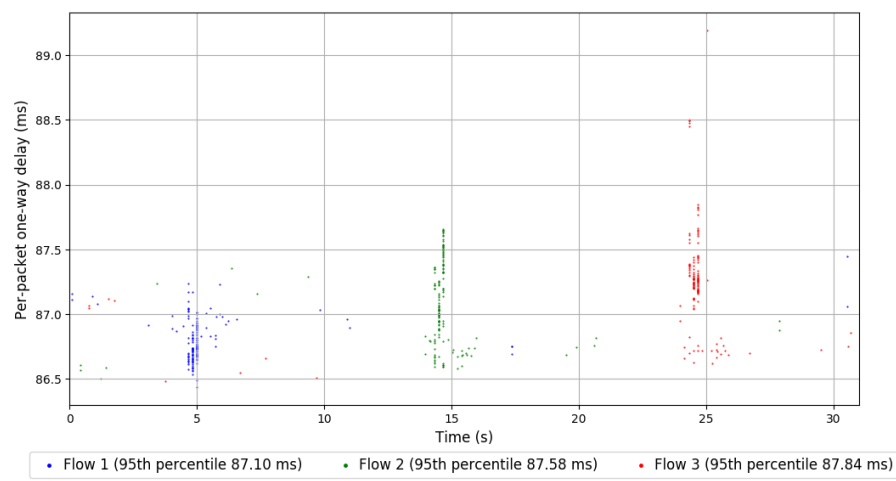
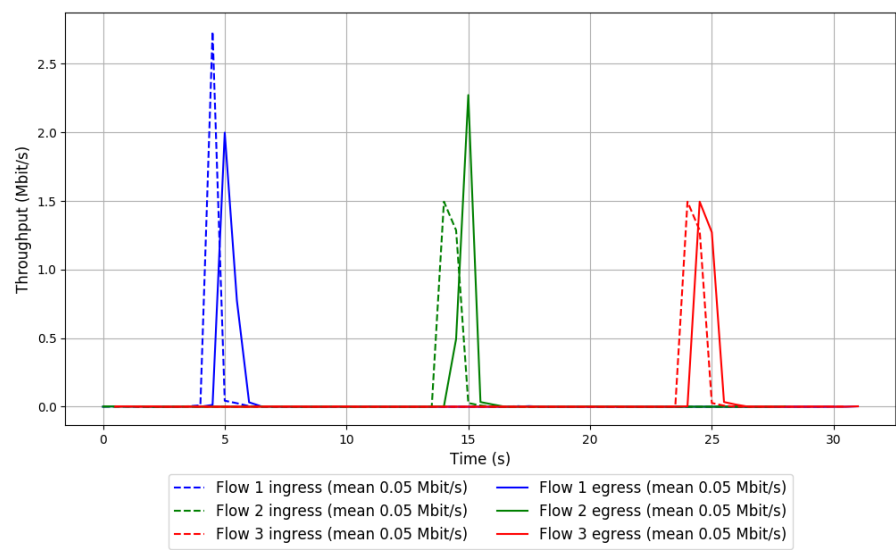


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 04:51:50
End at: 2018-05-22 04:52:20
Local clock offset: -0.361 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-22 08:12:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 87.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.844 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-22 05:15:29

End at: 2018-05-22 05:15:59

Local clock offset: 0.139 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-22 08:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.00%

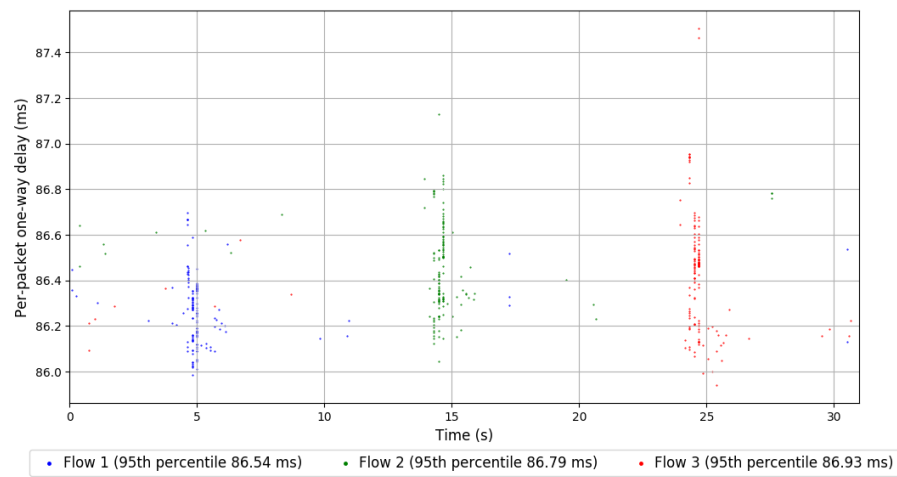
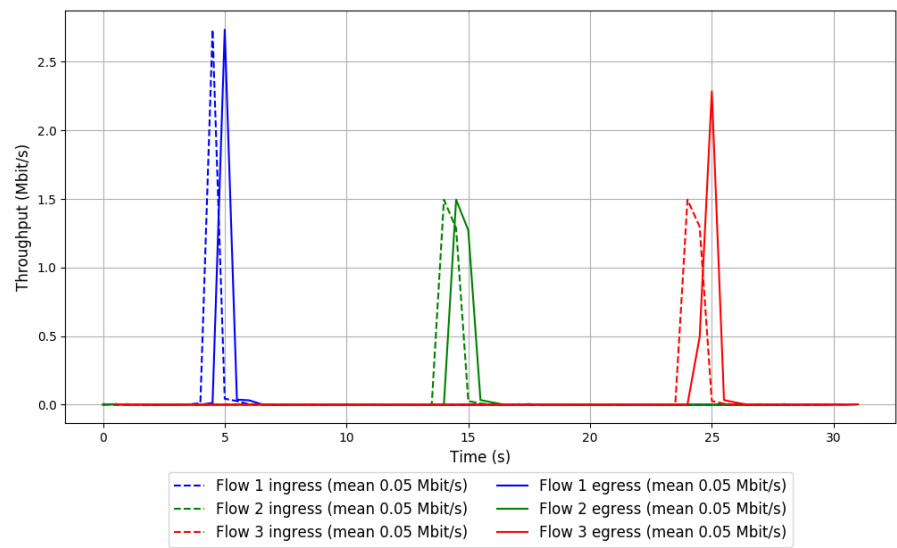
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.929 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-22 05:39:06

End at: 2018-05-22 05:39:36

Local clock offset: -0.041 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-05-22 08:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.062 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.00%

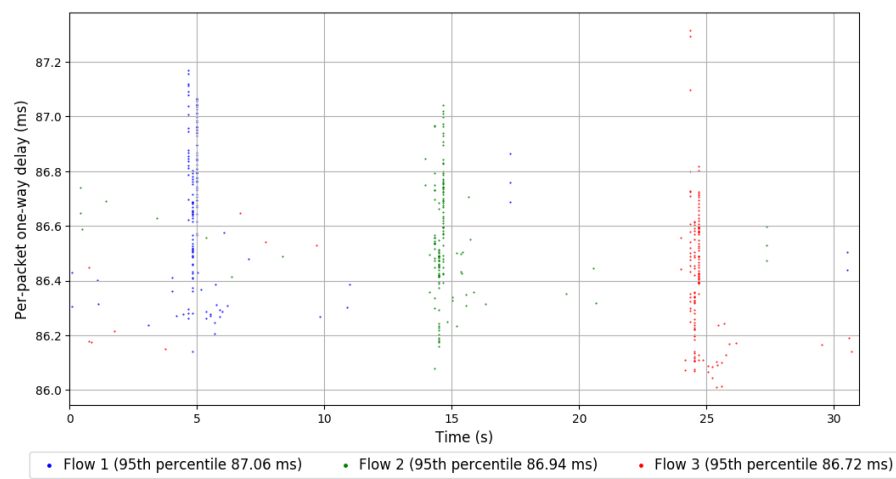
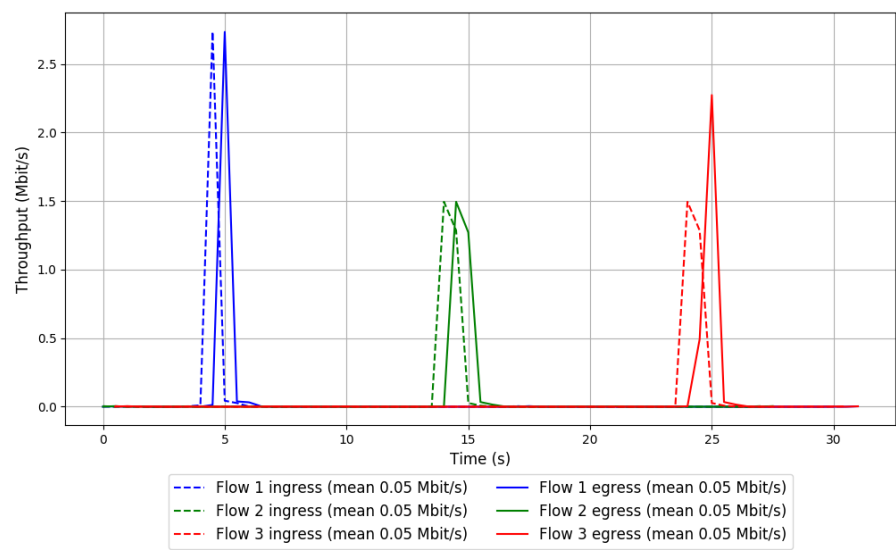
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 06:02:40

End at: 2018-05-22 06:03:10

Local clock offset: 0.06 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-22 08:12:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.662 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.173 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

