

Pantheon Report

Generated at 2018-05-26 20:12:52 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

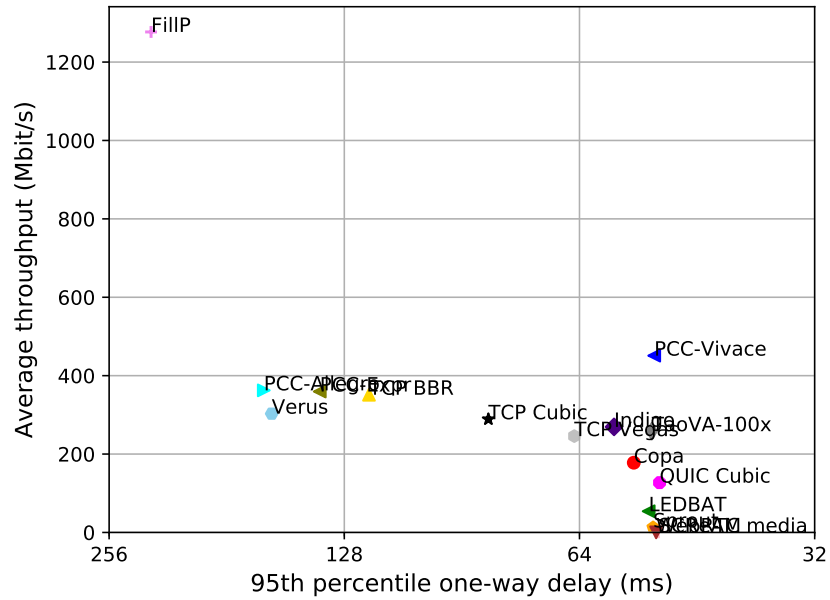
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

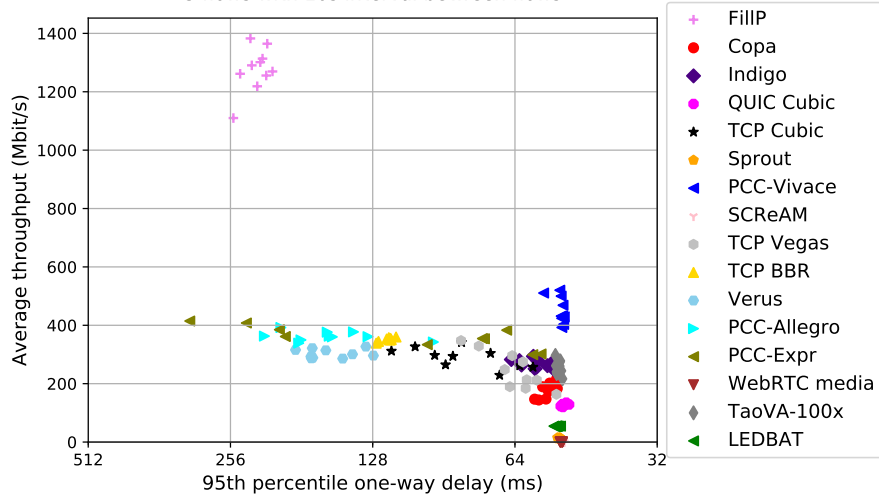
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/illp @ 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-quick @ 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 Iowa to GCE London, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



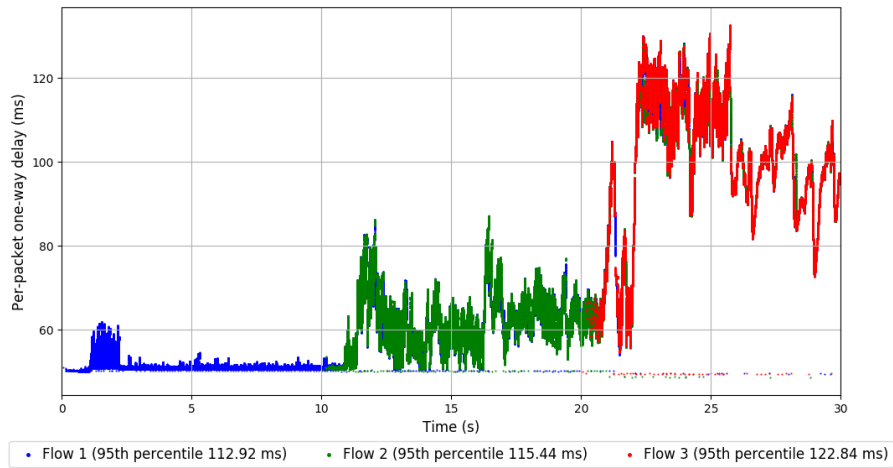
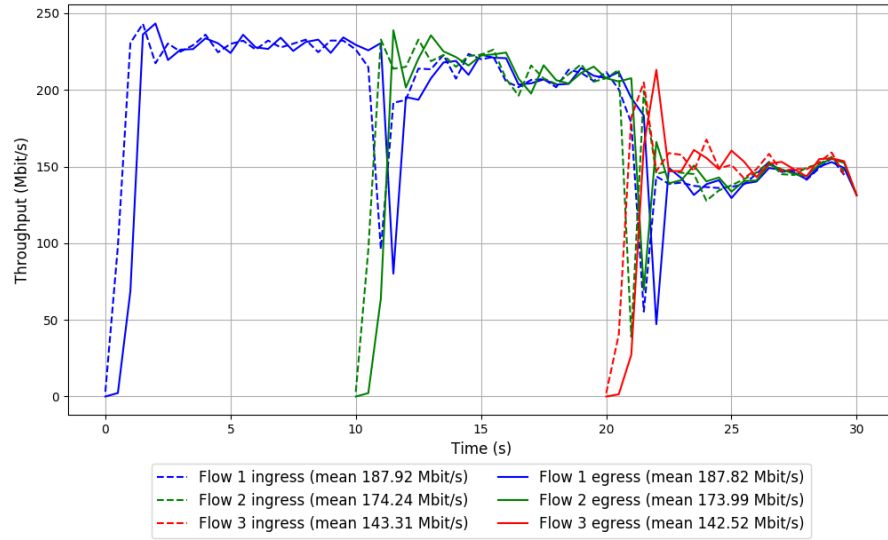
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	189.69	174.25	138.66	114.56	118.94	125.76	0.40	0.60	1.66
Copa	10	103.04	86.22	83.54	54.19	55.43	54.30	0.39	0.65	0.82
TCP Cubic	10	182.53	119.36	81.81	82.01	86.38	87.73	0.37	1.29	2.51
FillP	10	679.08	633.07	538.13	232.20	224.73	172.54	0.98	1.29	1.95
Indigo	10	147.03	130.64	108.54	55.94	58.03	61.43	0.29	0.47	1.07
LEDBAT	10	34.93	23.46	10.97	52.16	52.34	51.83	0.67	1.01	2.10
PCC-Allegro	10	335.41	28.40	25.19	162.11	162.19	143.96	0.50	0.76	1.25
PCC-Expr	10	258.88	122.33	59.33	136.14	125.95	131.42	2.00	2.97	4.46
QUIC Cubic	10	68.44	60.30	55.93	50.27	50.30	50.28	0.34	0.52	1.05
SCReAM	10	0.22	0.22	0.22	50.69	50.16	50.25	0.28	0.61	1.09
Sprout	10	6.47	6.52	6.39	51.49	51.55	51.49	0.40	0.62	1.35
TaoVA-100x	10	135.03	124.07	126.88	51.13	52.42	53.58	0.21	0.48	0.91
TCP Vegas	10	129.30	126.12	99.00	63.95	64.05	64.94	0.28	0.43	1.44
Verus	10	184.67	131.00	98.27	146.59	162.77	185.14	0.56	1.02	1.95
PCC-Vivace	10	268.68	218.28	114.37	52.09	50.83	51.03	0.33	0.54	1.60
WebRTC media	10	0.05	0.05	0.05	50.99	50.92	50.94	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-26 14:36:19
End at: 2018-05-26 14:36:49
Local clock offset: -0.21 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-05-26 18:22:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.59 Mbit/s
95th percentile per-packet one-way delay: 116.947 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 112.918 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 173.99 Mbit/s
95th percentile per-packet one-way delay: 115.441 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 142.52 Mbit/s
95th percentile per-packet one-way delay: 122.841 ms
Loss rate: 1.55%

Run 1: Report of TCP BBR — Data Link

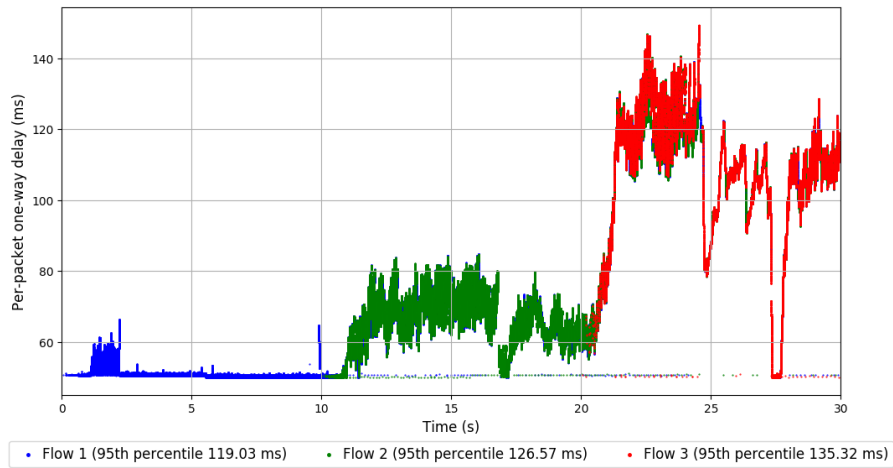
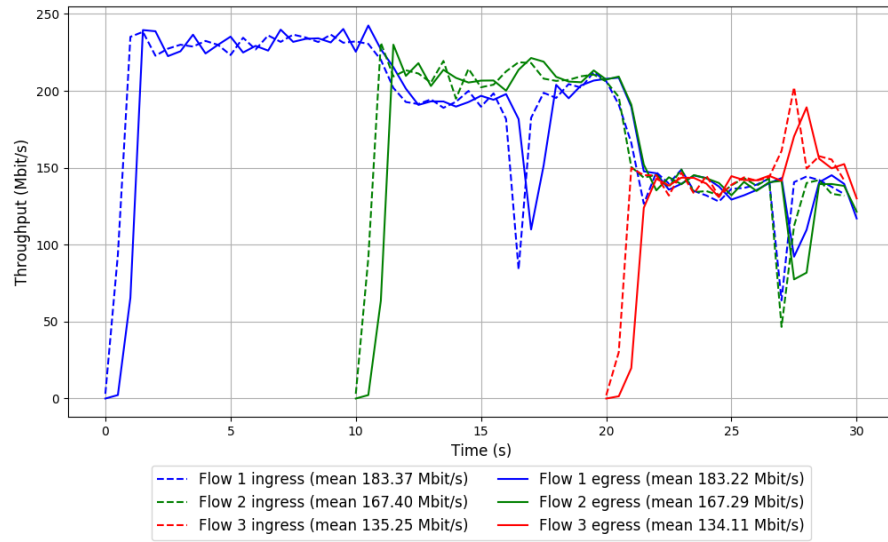


Run 2: Statistics of TCP BBR

Start at: 2018-05-26 14:58:35
End at: 2018-05-26 14:59:05
Local clock offset: -0.213 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-26 18:22:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.77 Mbit/s
95th percentile per-packet one-way delay: 125.806 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 183.22 Mbit/s
95th percentile per-packet one-way delay: 119.026 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 167.29 Mbit/s
95th percentile per-packet one-way delay: 126.569 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 134.11 Mbit/s
95th percentile per-packet one-way delay: 135.321 ms
Loss rate: 1.84%

Run 2: Report of TCP BBR — Data Link

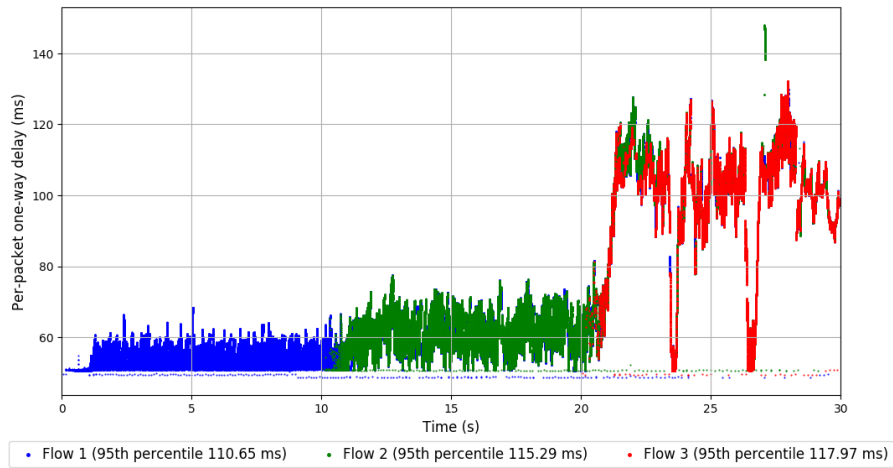
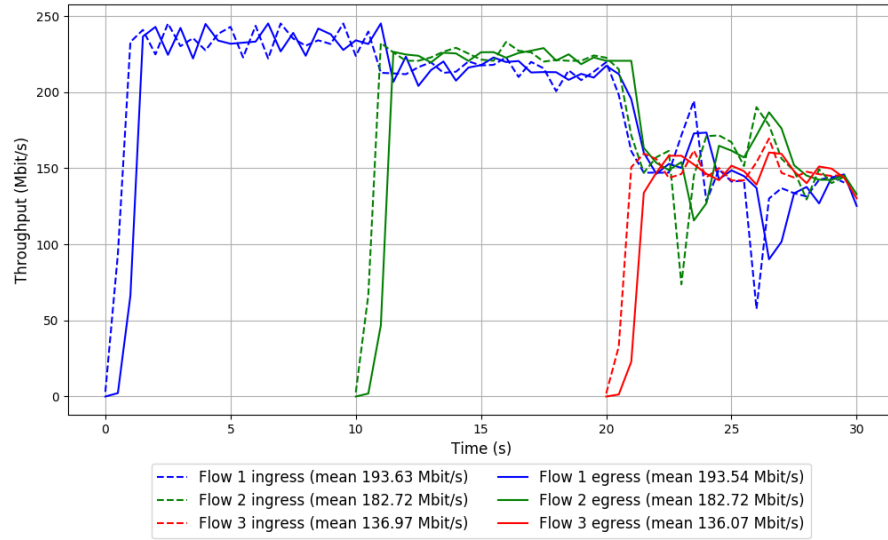


Run 3: Statistics of TCP BBR

Start at: 2018-05-26 15:21:01
End at: 2018-05-26 15:21:31
Local clock offset: -0.225 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-26 18:22:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.95 Mbit/s
95th percentile per-packet one-way delay: 114.243 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 193.54 Mbit/s
95th percentile per-packet one-way delay: 110.652 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 182.72 Mbit/s
95th percentile per-packet one-way delay: 115.287 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 136.07 Mbit/s
95th percentile per-packet one-way delay: 117.965 ms
Loss rate: 1.66%

Run 3: Report of TCP BBR — Data Link

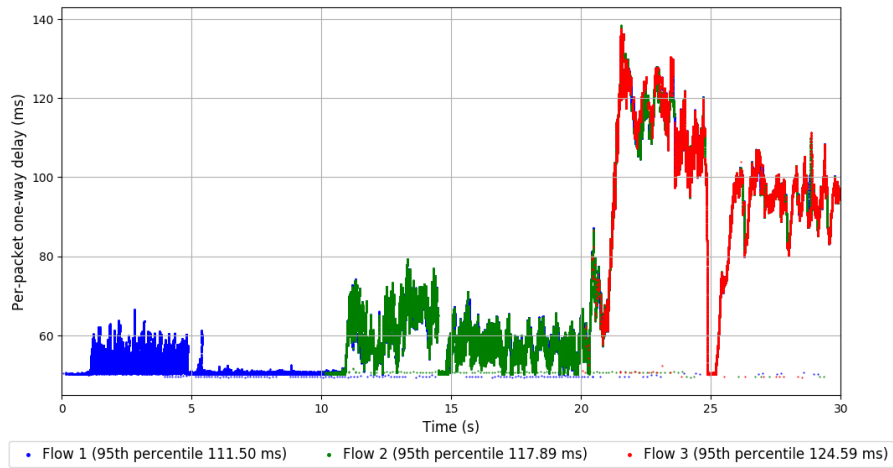
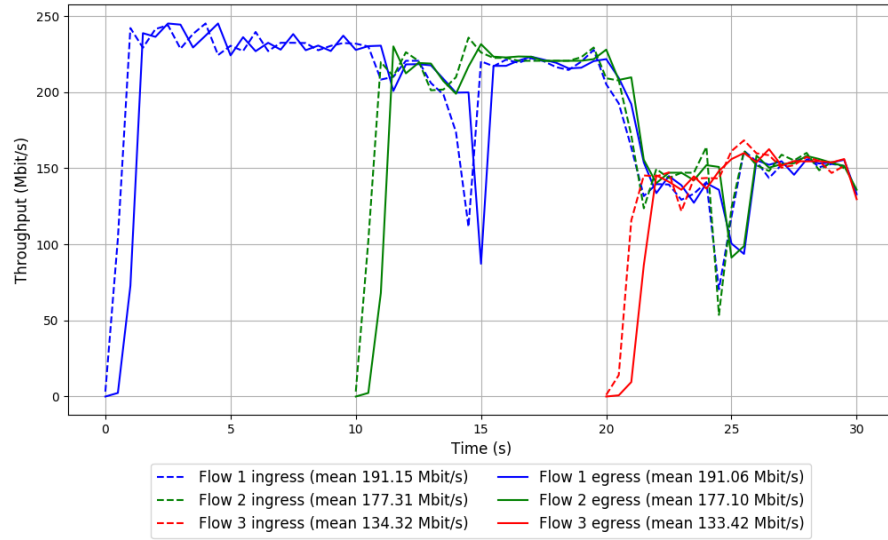


Run 4: Statistics of TCP BBR

Start at: 2018-05-26 15:43:27
End at: 2018-05-26 15:43:57
Local clock offset: -0.257 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-26 18:22:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 352.97 Mbit/s
95th percentile per-packet one-way delay: 118.201 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 191.06 Mbit/s
95th percentile per-packet one-way delay: 111.496 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 177.10 Mbit/s
95th percentile per-packet one-way delay: 117.889 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 133.42 Mbit/s
95th percentile per-packet one-way delay: 124.588 ms
Loss rate: 1.68%

Run 4: Report of TCP BBR — Data Link

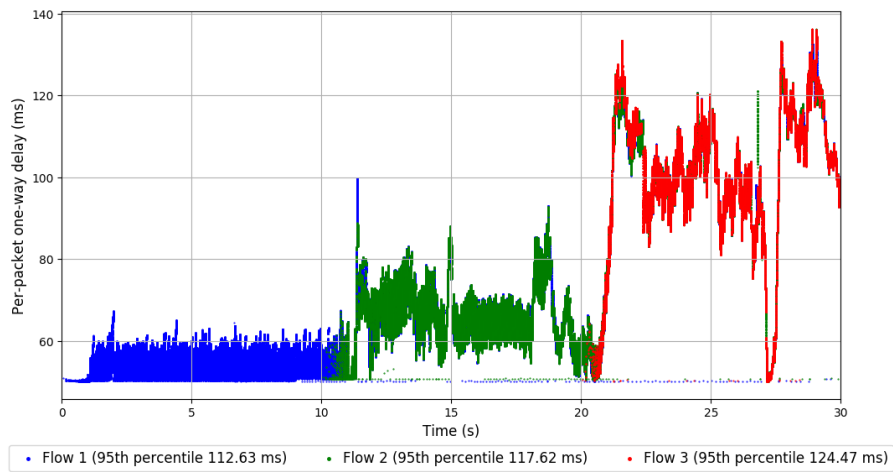
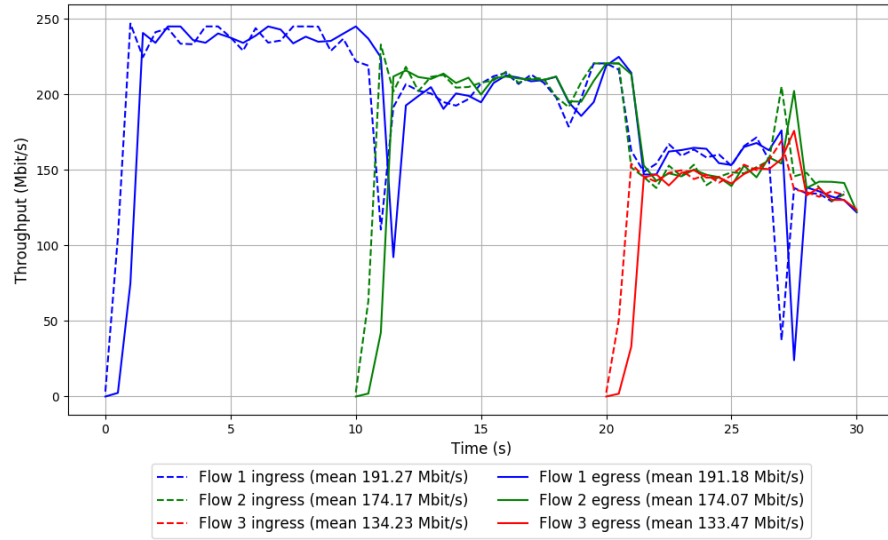


Run 5: Statistics of TCP BBR

Start at: 2018-05-26 16:05:51
End at: 2018-05-26 16:06:21
Local clock offset: -0.23 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-26 18:22:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.01 Mbit/s
95th percentile per-packet one-way delay: 117.415 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 191.18 Mbit/s
95th percentile per-packet one-way delay: 112.629 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 174.07 Mbit/s
95th percentile per-packet one-way delay: 117.616 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 133.47 Mbit/s
95th percentile per-packet one-way delay: 124.470 ms
Loss rate: 1.56%

Run 5: Report of TCP BBR — Data Link

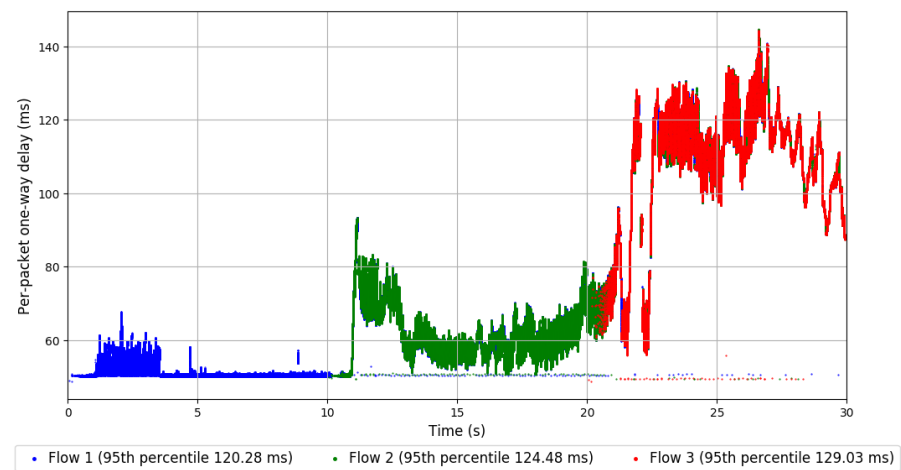
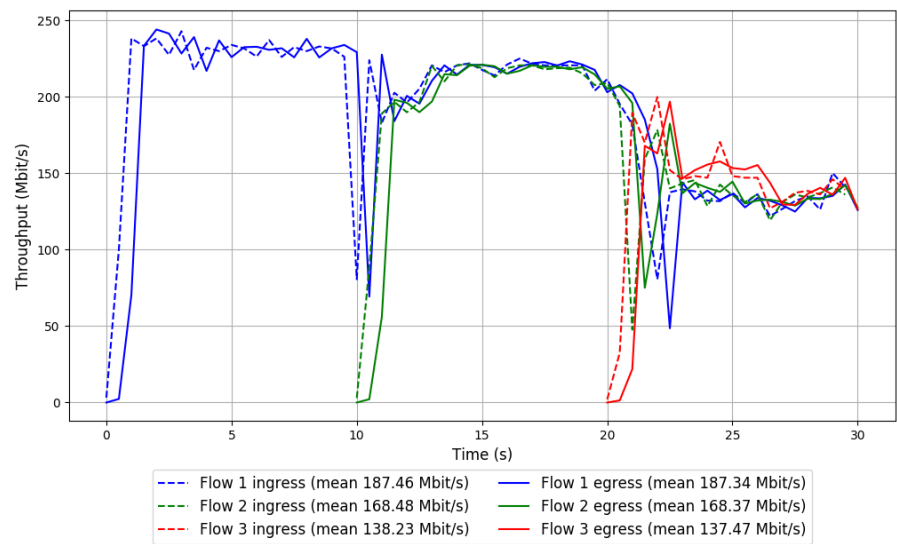


Run 6: Statistics of TCP BBR

Start at: 2018-05-26 16:28:10
End at: 2018-05-26 16:28:40
Local clock offset: -0.262 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-05-26 18:22:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.70 Mbit/s
95th percentile per-packet one-way delay: 124.461 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 187.34 Mbit/s
95th percentile per-packet one-way delay: 120.285 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 168.37 Mbit/s
95th percentile per-packet one-way delay: 124.479 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 137.47 Mbit/s
95th percentile per-packet one-way delay: 129.027 ms
Loss rate: 1.54%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-26 16:50:39

End at: 2018-05-26 16:51:09

Local clock offset: -0.606 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-26 18:22:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.05 Mbit/s

95th percentile per-packet one-way delay: 119.589 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 191.19 Mbit/s

95th percentile per-packet one-way delay: 115.860 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 170.45 Mbit/s

95th percentile per-packet one-way delay: 119.598 ms

Loss rate: 0.66%

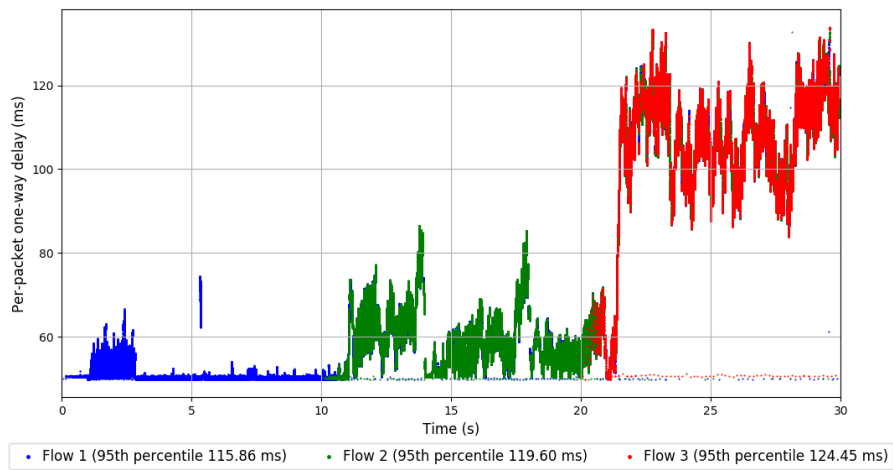
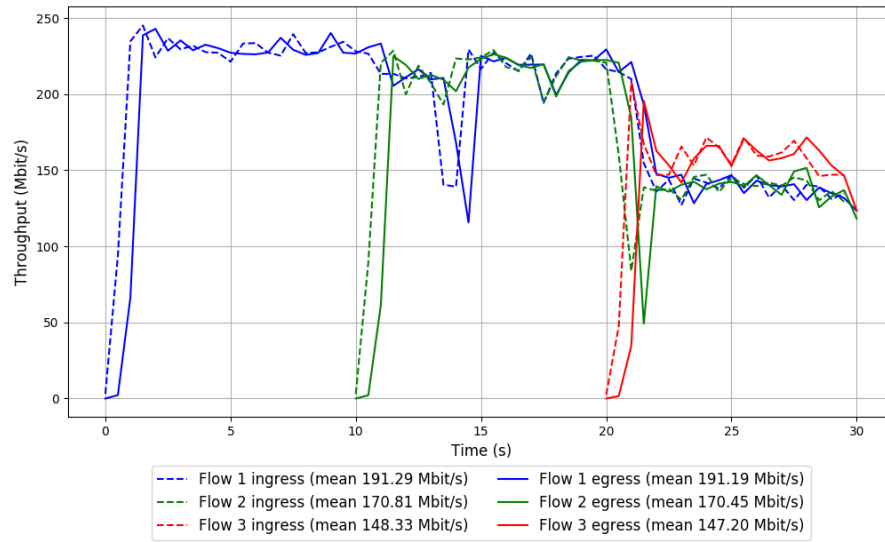
-- Flow 3:

Average throughput: 147.20 Mbit/s

95th percentile per-packet one-way delay: 124.446 ms

Loss rate: 1.66%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-26 17:13:11

End at: 2018-05-26 17:13:41

Local clock offset: -0.302 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-26 18:22:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.03 Mbit/s

95th percentile per-packet one-way delay: 117.310 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 192.06 Mbit/s

95th percentile per-packet one-way delay: 112.629 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 176.17 Mbit/s

95th percentile per-packet one-way delay: 115.748 ms

Loss rate: 0.66%

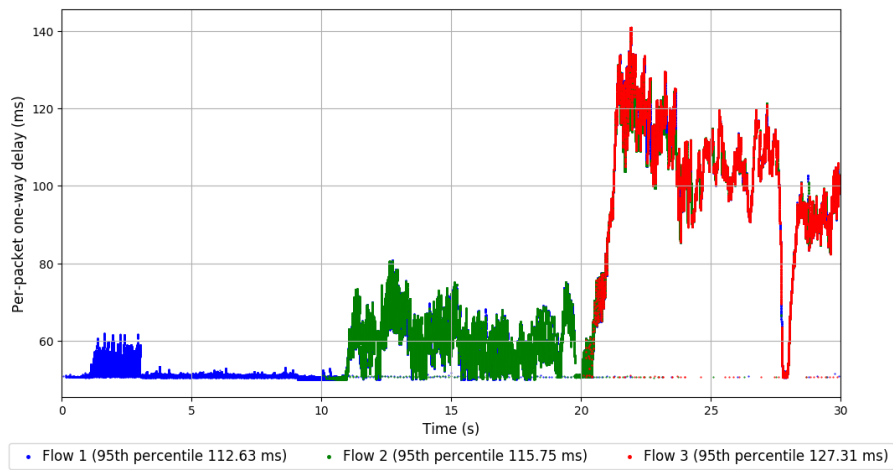
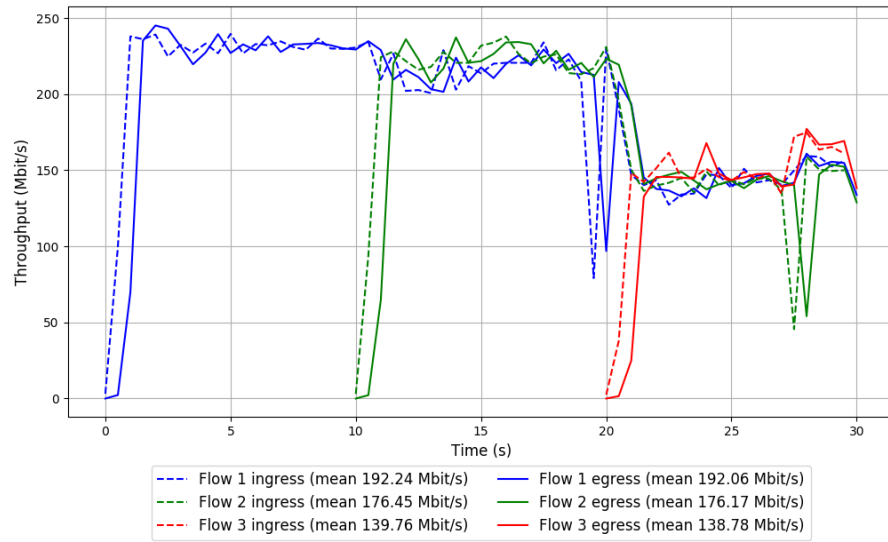
-- Flow 3:

Average throughput: 138.78 Mbit/s

95th percentile per-packet one-way delay: 127.307 ms

Loss rate: 1.70%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-26 17:35:34

End at: 2018-05-26 17:36:04

Local clock offset: -0.177 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-05-26 18:27:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.71 Mbit/s

95th percentile per-packet one-way delay: 117.848 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 187.33 Mbit/s

95th percentile per-packet one-way delay: 115.110 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 171.11 Mbit/s

95th percentile per-packet one-way delay: 118.013 ms

Loss rate: 0.68%

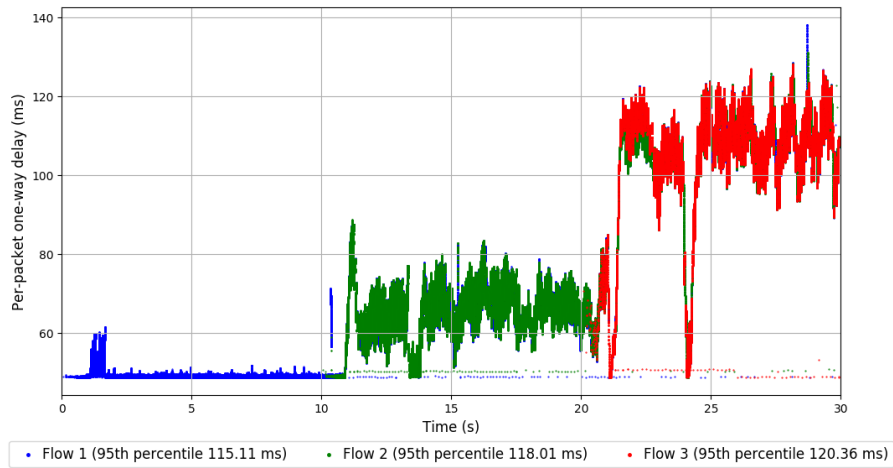
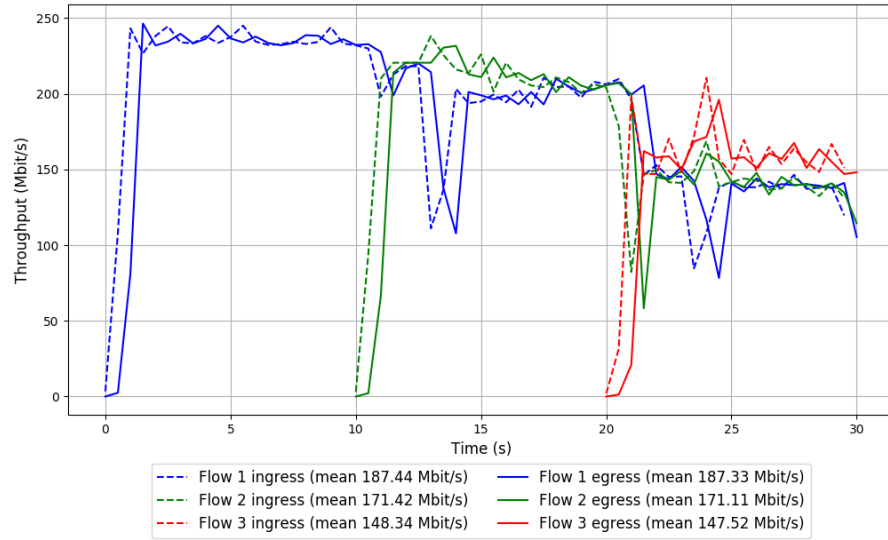
-- Flow 3:

Average throughput: 147.52 Mbit/s

95th percentile per-packet one-way delay: 120.361 ms

Loss rate: 1.64%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-26 17:57:59

End at: 2018-05-26 17:58:29

Local clock offset: -0.181 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-26 18:27:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.63 Mbit/s

95th percentile per-packet one-way delay: 118.350 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 192.20 Mbit/s

95th percentile per-packet one-way delay: 115.007 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 181.22 Mbit/s

95th percentile per-packet one-way delay: 118.716 ms

Loss rate: 0.47%

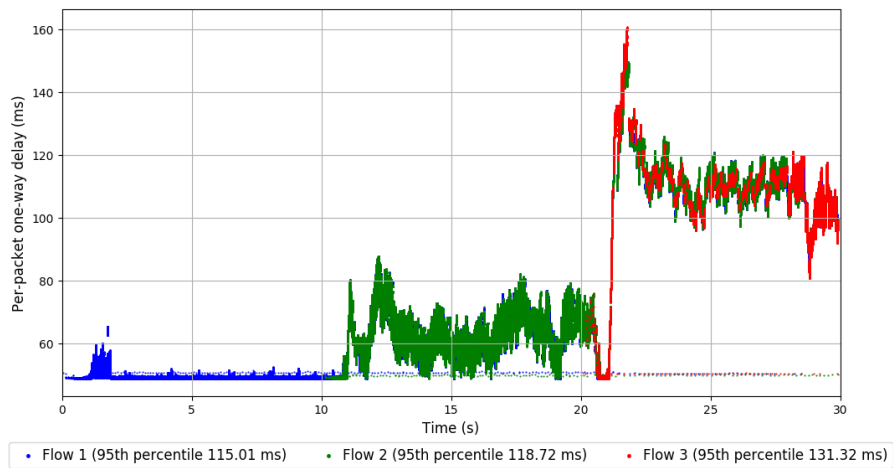
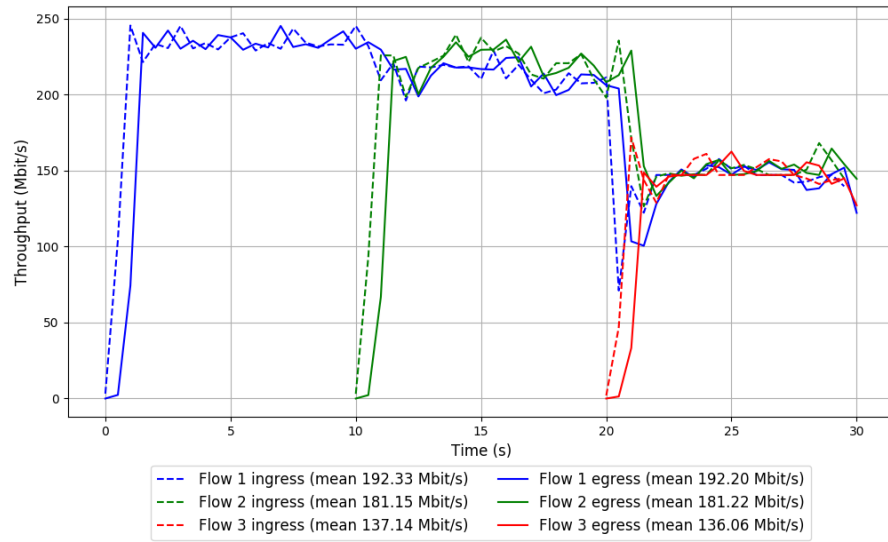
-- Flow 3:

Average throughput: 136.06 Mbit/s

95th percentile per-packet one-way delay: 131.323 ms

Loss rate: 1.79%

Run 10: Report of TCP BBR — Data Link

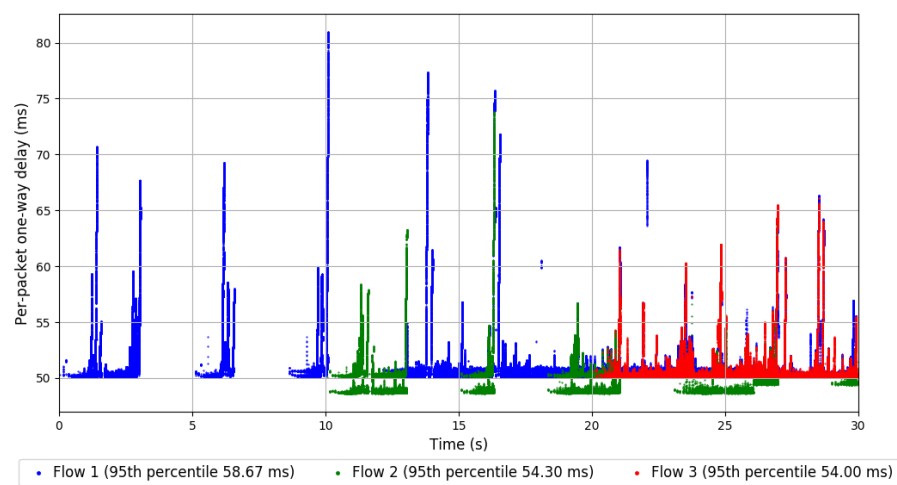
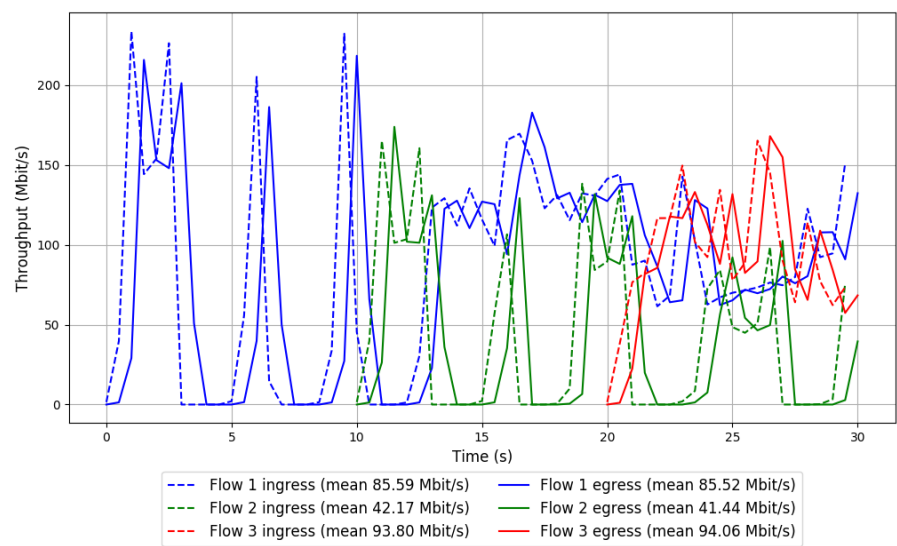


Run 1: Statistics of Copa

Start at: 2018-05-26 14:37:45
End at: 2018-05-26 14:38:15
Local clock offset: -0.198 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-26 18:27:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.10 Mbit/s
95th percentile per-packet one-way delay: 56.985 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 58.674 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 53.996 ms
Loss rate: 0.73%

Run 1: Report of Copa — Data Link

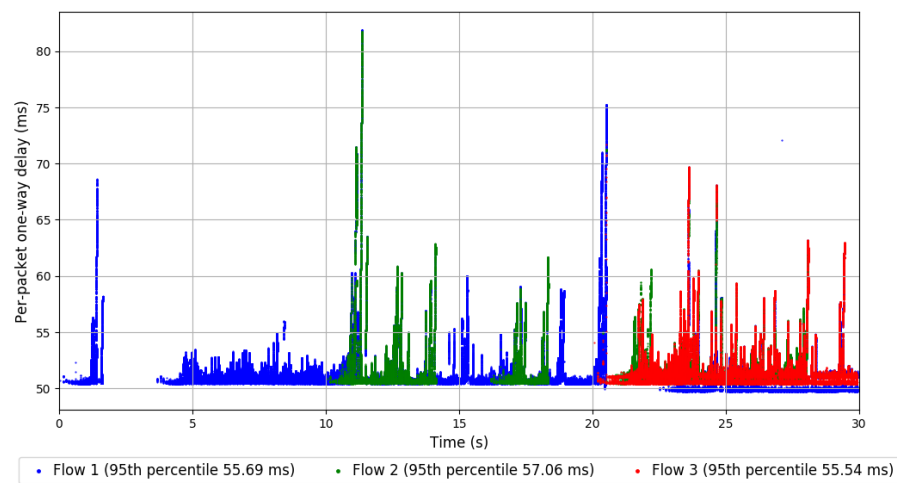
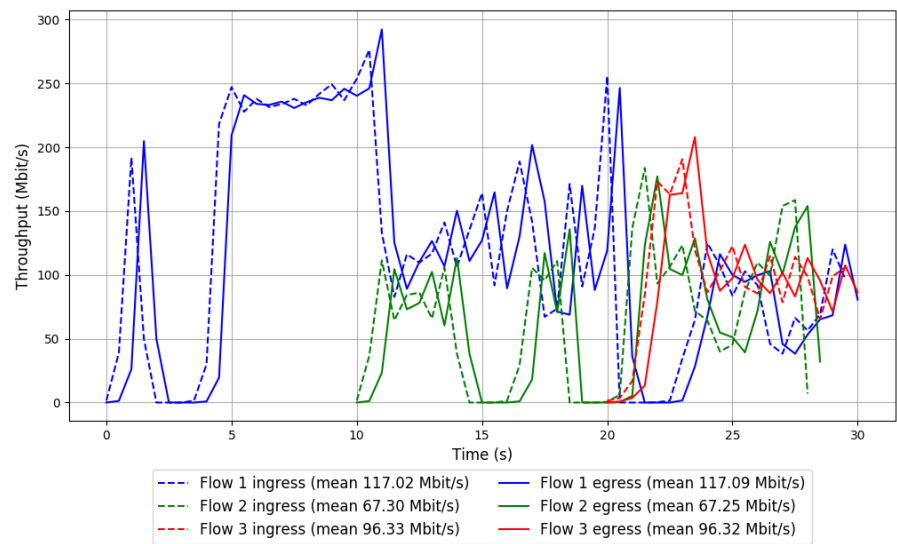


Run 2: Statistics of Copa

Start at: 2018-05-26 15:00:00
End at: 2018-05-26 15:00:30
Local clock offset: 0.105 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-26 18:27:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.41 Mbit/s
95th percentile per-packet one-way delay: 55.922 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 117.09 Mbit/s
95th percentile per-packet one-way delay: 55.690 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 67.25 Mbit/s
95th percentile per-packet one-way delay: 57.057 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 55.541 ms
Loss rate: 1.05%

Run 2: Report of Copa — Data Link

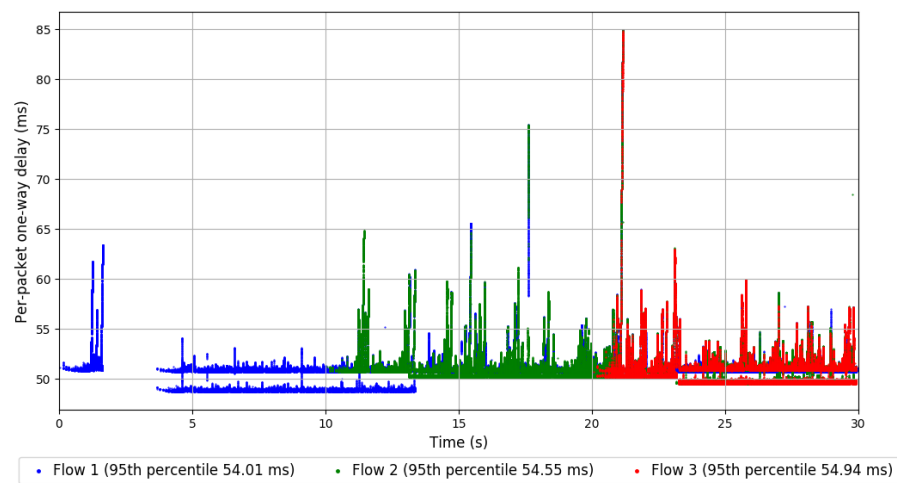
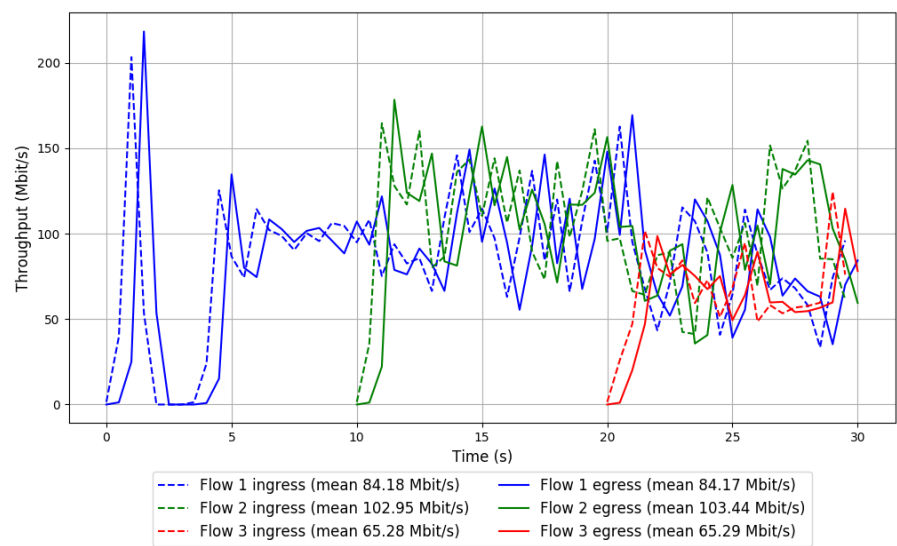


Run 3: Statistics of Copa

Start at: 2018-05-26 15:22:27
End at: 2018-05-26 15:22:57
Local clock offset: -0.172 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-26 18:27:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 174.32 Mbit/s
95th percentile per-packet one-way delay: 54.375 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 84.17 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 103.44 Mbit/s
95th percentile per-packet one-way delay: 54.555 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 65.29 Mbit/s
95th percentile per-packet one-way delay: 54.940 ms
Loss rate: 1.02%

Run 3: Report of Copa — Data Link

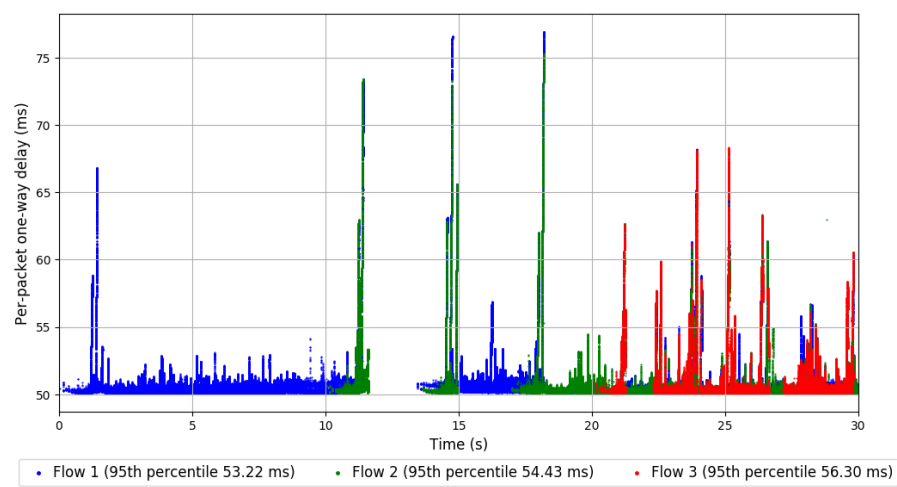
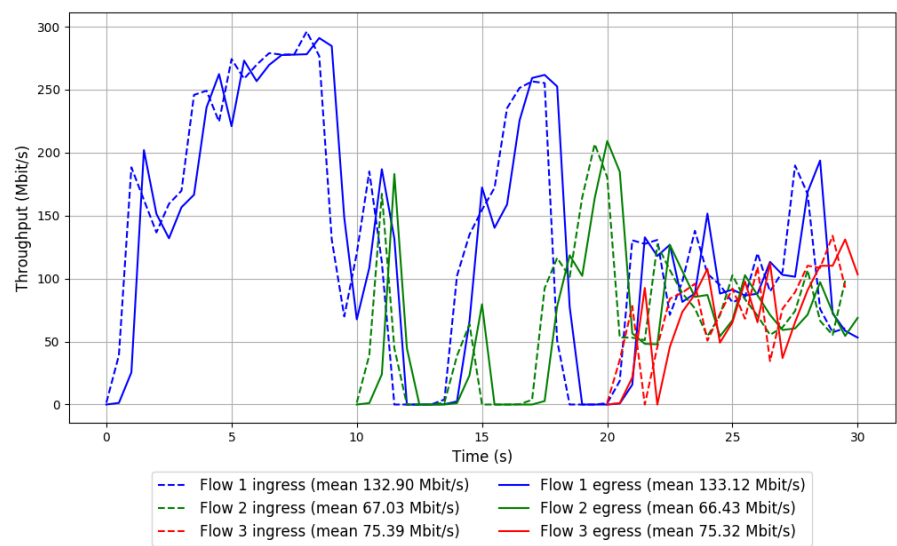


Run 4: Statistics of Copa

Start at: 2018-05-26 15:44:52
End at: 2018-05-26 15:45:22
Local clock offset: -0.236 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-05-26 18:28:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.84 Mbit/s
95th percentile per-packet one-way delay: 54.024 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 133.12 Mbit/s
95th percentile per-packet one-way delay: 53.215 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 66.43 Mbit/s
95th percentile per-packet one-way delay: 54.432 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 75.32 Mbit/s
95th percentile per-packet one-way delay: 56.295 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

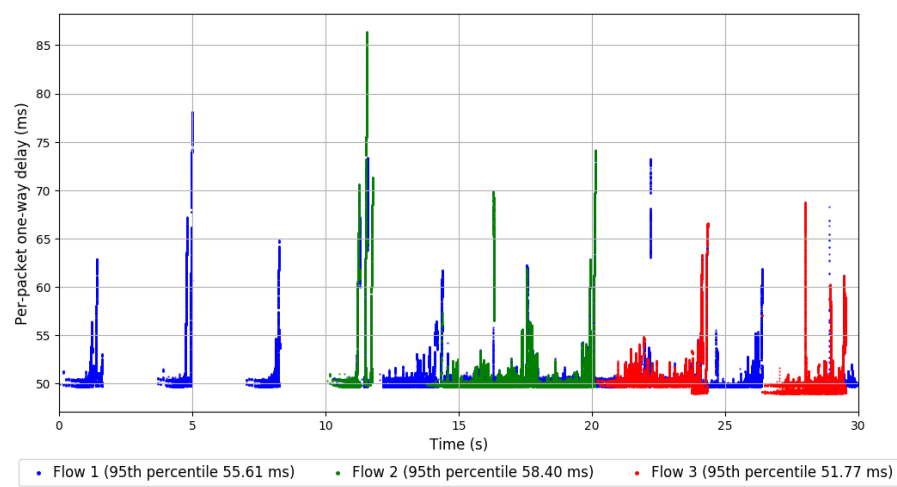
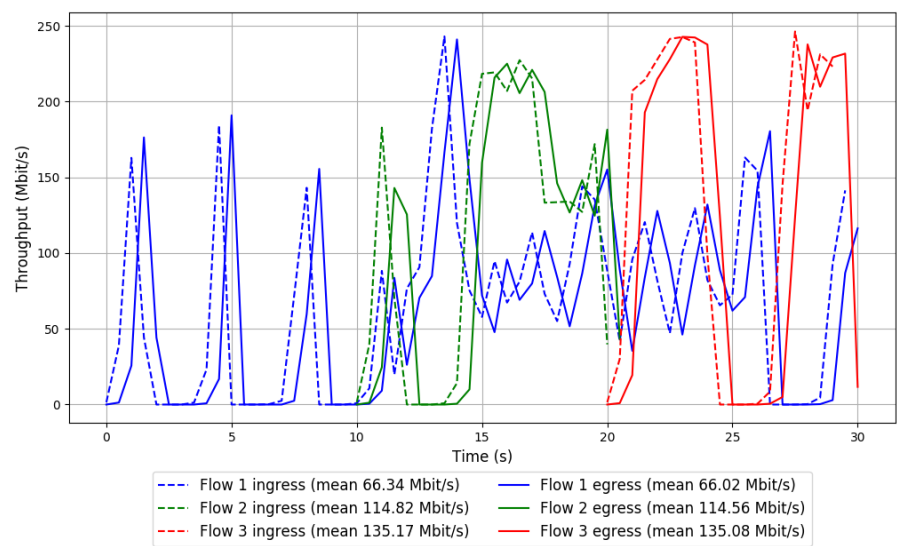


Run 5: Statistics of Copa

Start at: 2018-05-26 16:07:17
End at: 2018-05-26 16:07:47
Local clock offset: -0.649 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-26 18:28:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.36 Mbit/s
95th percentile per-packet one-way delay: 55.013 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 66.02 Mbit/s
95th percentile per-packet one-way delay: 55.607 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 114.56 Mbit/s
95th percentile per-packet one-way delay: 58.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.08 Mbit/s
95th percentile per-packet one-way delay: 51.766 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

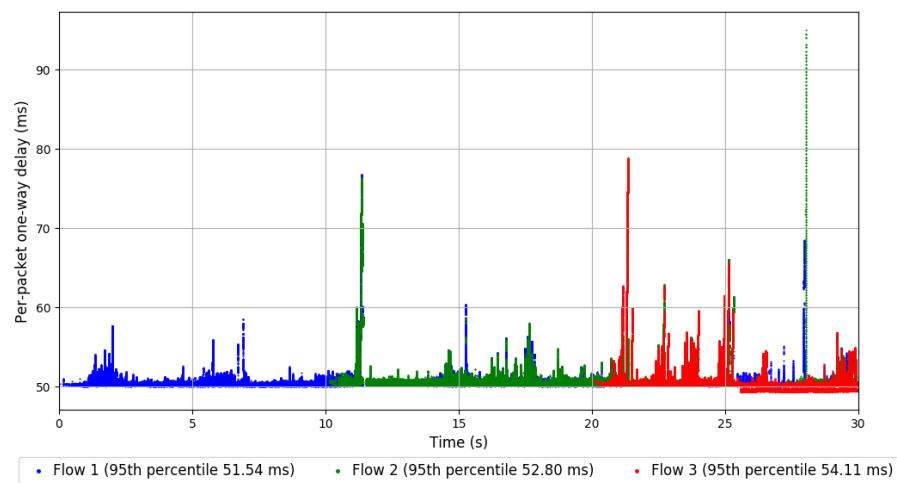
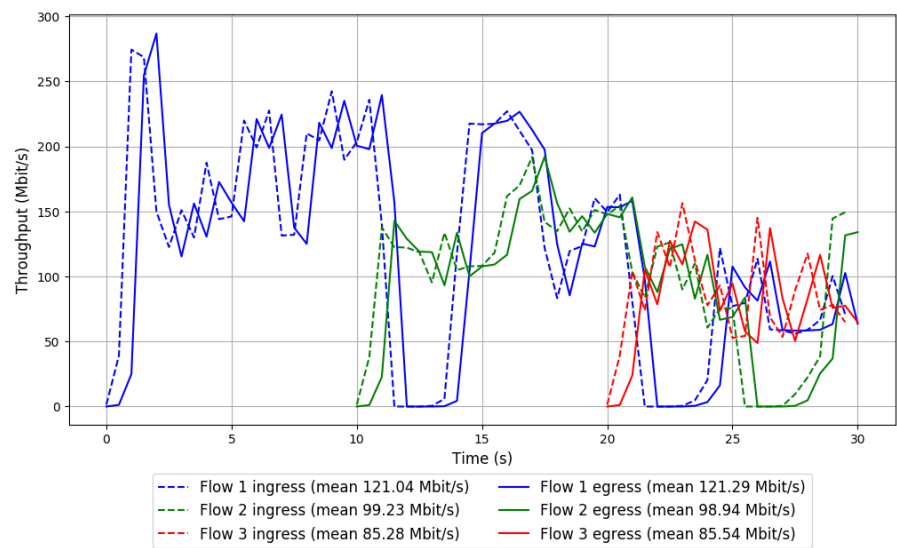


Run 6: Statistics of Copa

Start at: 2018-05-26 16:29:35
End at: 2018-05-26 16:30:05
Local clock offset: -0.282 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-26 18:28:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.27 Mbit/s
95th percentile per-packet one-way delay: 52.275 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 121.29 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 98.94 Mbit/s
95th percentile per-packet one-way delay: 52.797 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 85.54 Mbit/s
95th percentile per-packet one-way delay: 54.113 ms
Loss rate: 0.64%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-26 16:52:05

End at: 2018-05-26 16:52:35

Local clock offset: -0.23 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-05-26 18:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.37 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 120.76 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 55.805 ms

Loss rate: 0.86%

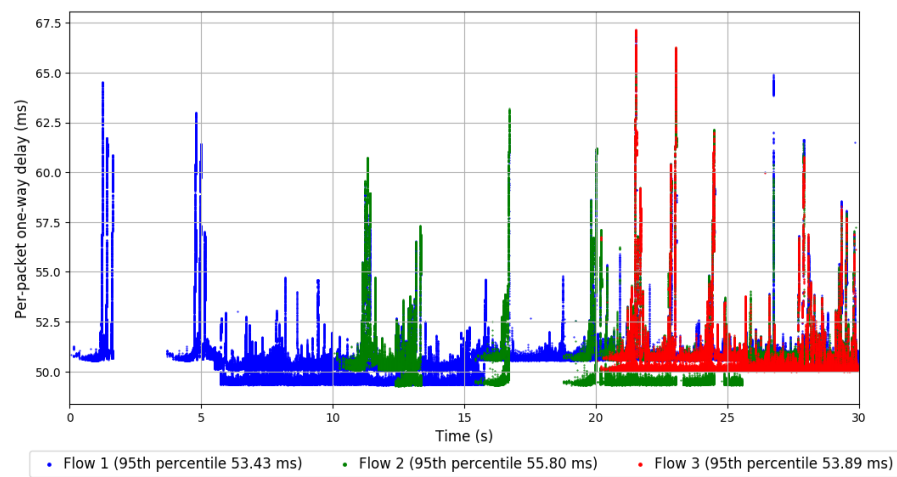
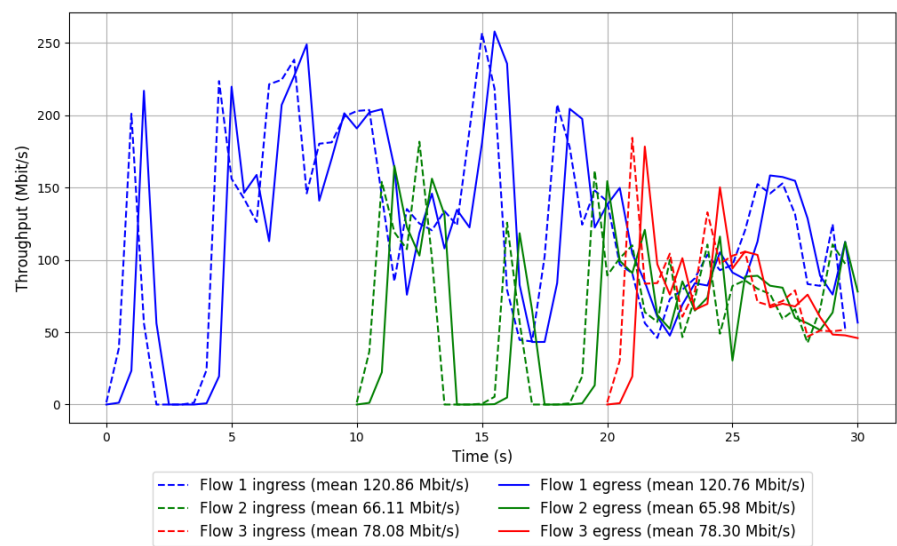
-- Flow 3:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.75%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-26 17:14:37

End at: 2018-05-26 17:15:07

Local clock offset: -0.582 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-26 18:32:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.36 Mbit/s

95th percentile per-packet one-way delay: 52.079 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 128.04 Mbit/s

95th percentile per-packet one-way delay: 51.201 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 129.50 Mbit/s

95th percentile per-packet one-way delay: 53.096 ms

Loss rate: 0.00%

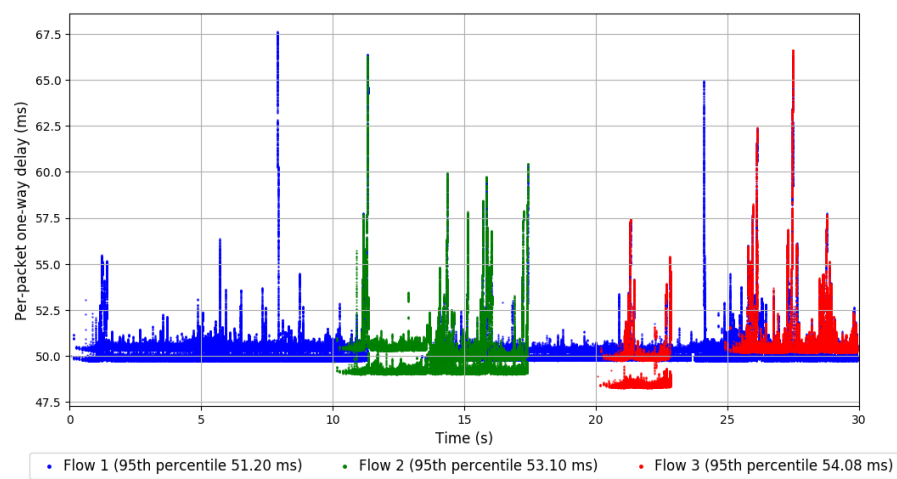
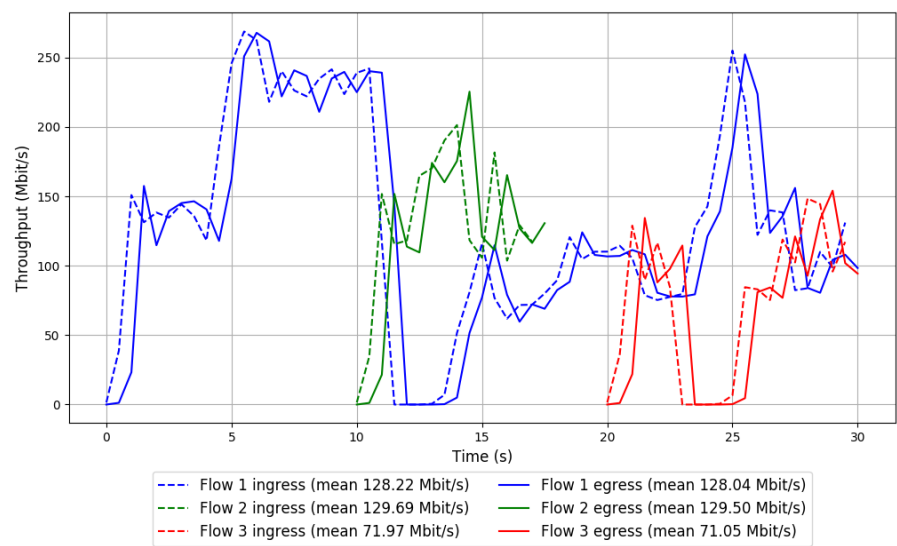
-- Flow 3:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 2.25%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-26 17:37:00

End at: 2018-05-26 17:37:30

Local clock offset: -0.256 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-05-26 18:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.33 Mbit/s

95th percentile per-packet one-way delay: 52.268 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 51.562 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 112.21 Mbit/s

95th percentile per-packet one-way delay: 52.742 ms

Loss rate: 0.46%

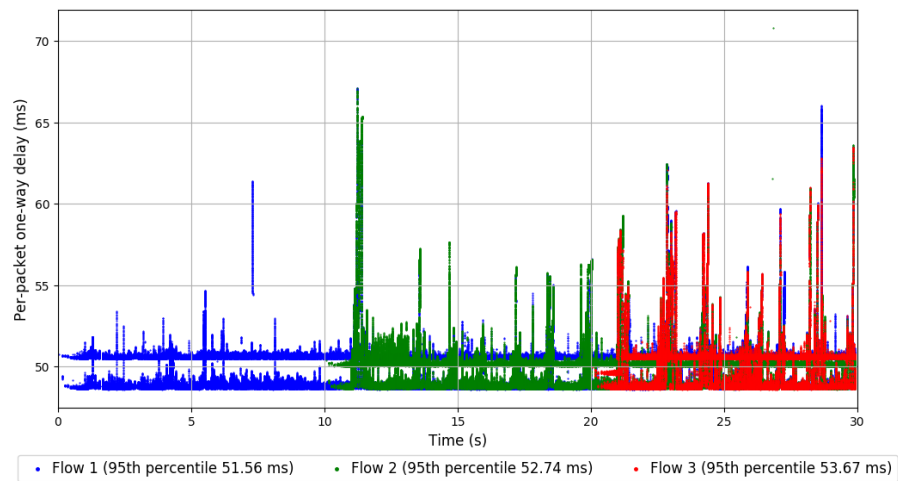
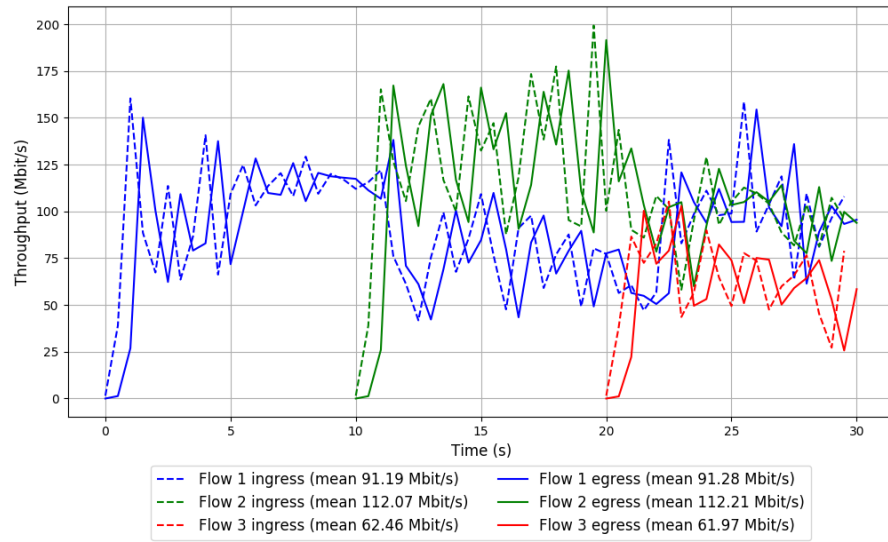
-- Flow 3:

Average throughput: 61.97 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 1.80%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-26 17:59:26

End at: 2018-05-26 17:59:56

Local clock offset: -0.199 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-05-26 18:33:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.91 Mbit/s

95th percentile per-packet one-way delay: 58.144 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 56.999 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 62.49 Mbit/s

95th percentile per-packet one-way delay: 61.093 ms

Loss rate: 0.55%

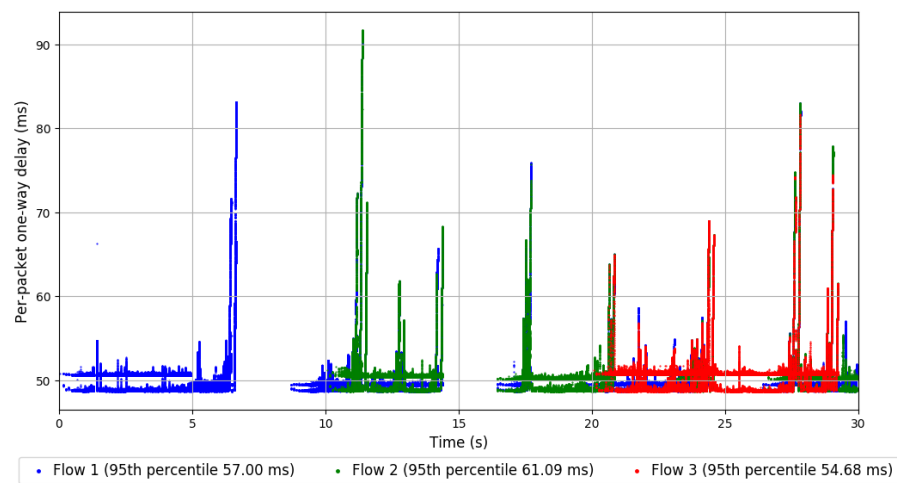
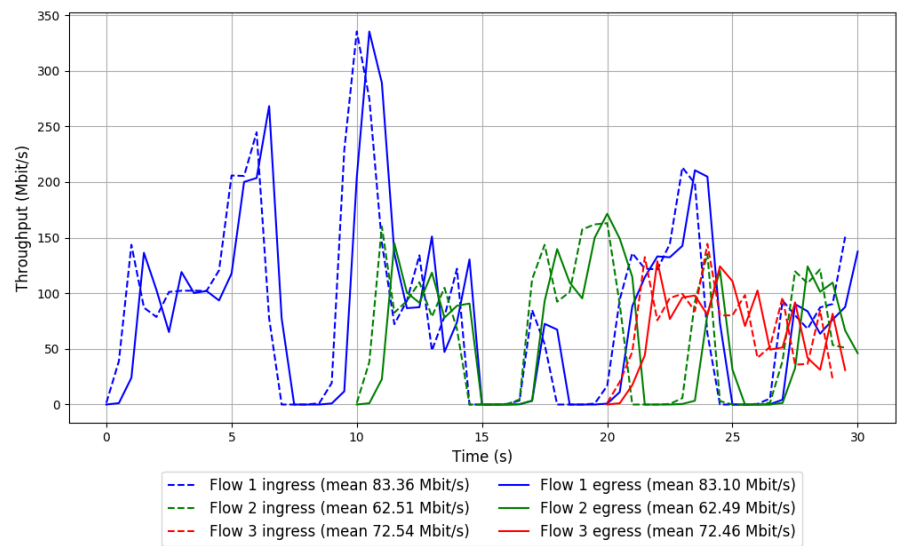
-- Flow 3:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 54.681 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-26 14:30:59

End at: 2018-05-26 14:31:29

Local clock offset: 0.196 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-05-26 18:33:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.89 Mbit/s

95th percentile per-packet one-way delay: 116.834 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 145.58 Mbit/s

95th percentile per-packet one-way delay: 114.694 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 185.10 Mbit/s

95th percentile per-packet one-way delay: 117.678 ms

Loss rate: 0.64%

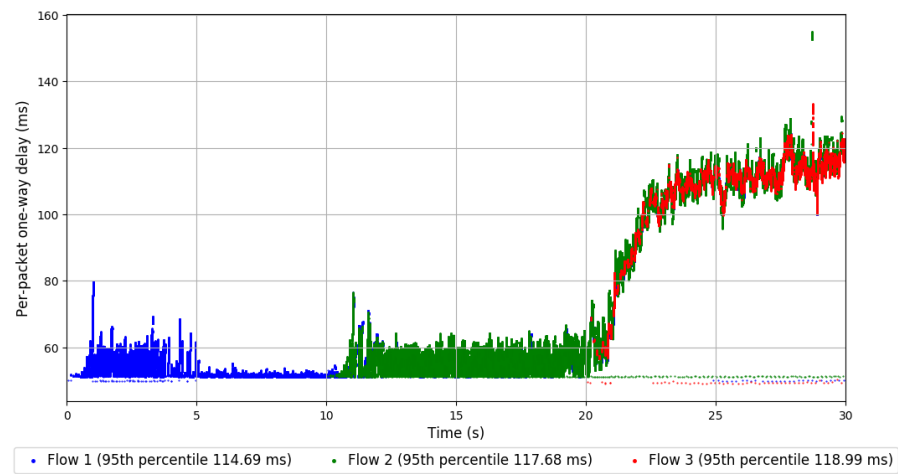
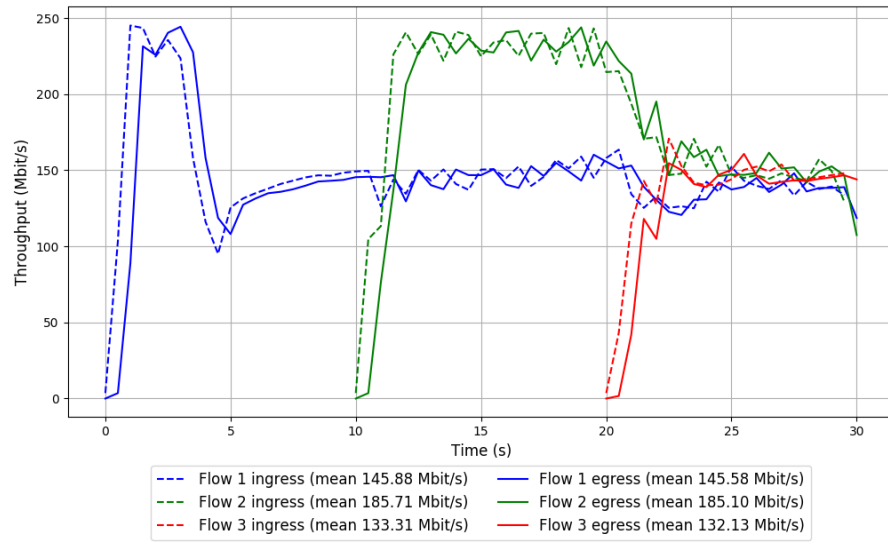
-- Flow 3:

Average throughput: 132.13 Mbit/s

95th percentile per-packet one-way delay: 118.991 ms

Loss rate: 1.87%

Run 1: Report of TCP Cubic — Data Link

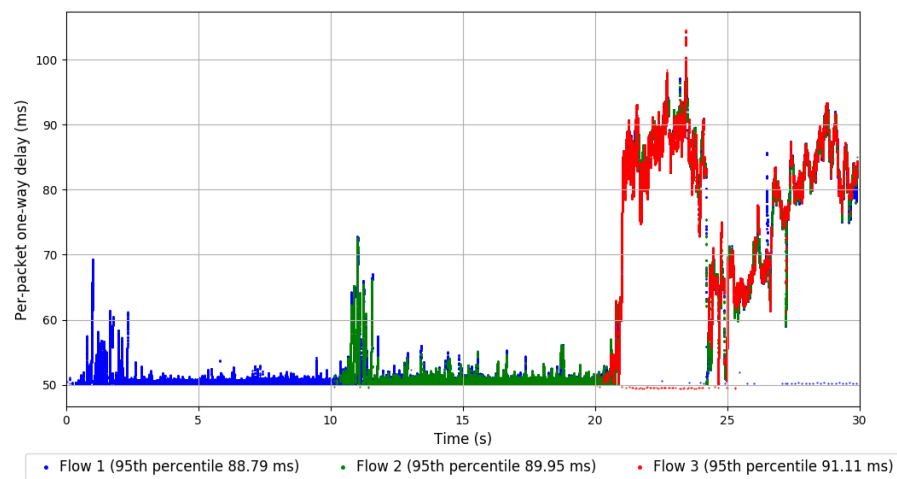
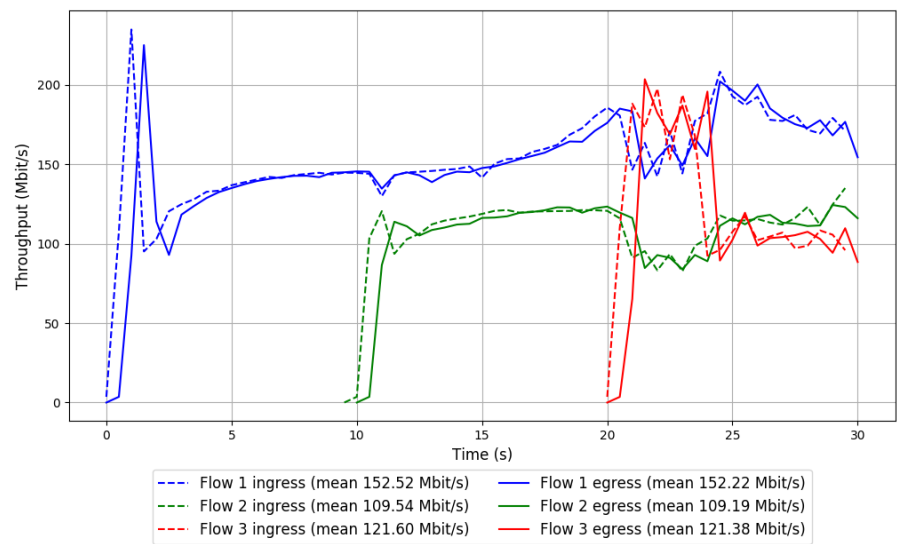


Run 2: Statistics of TCP Cubic

Start at: 2018-05-26 14:53:14
End at: 2018-05-26 14:53:44
Local clock offset: -0.149 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-26 18:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.87 Mbit/s
95th percentile per-packet one-way delay: 89.754 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 152.22 Mbit/s
95th percentile per-packet one-way delay: 88.792 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 109.19 Mbit/s
95th percentile per-packet one-way delay: 89.951 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 121.38 Mbit/s
95th percentile per-packet one-way delay: 91.112 ms
Loss rate: 1.18%

Run 2: Report of TCP Cubic — Data Link

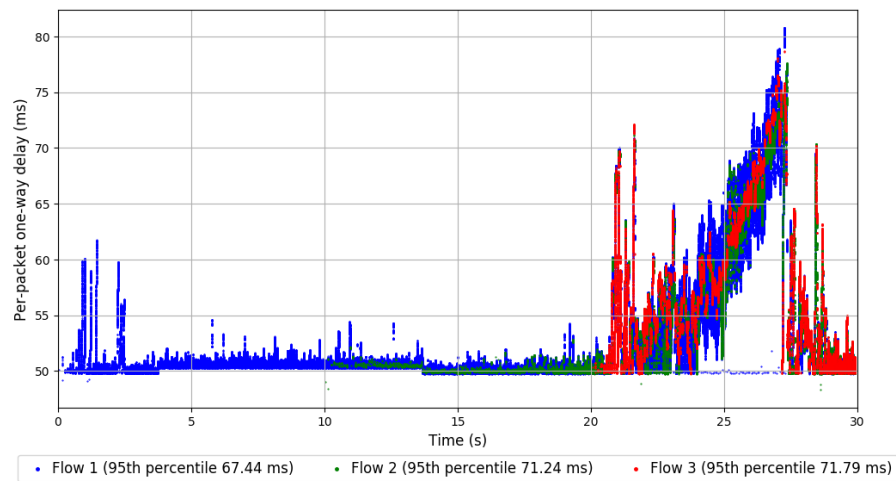
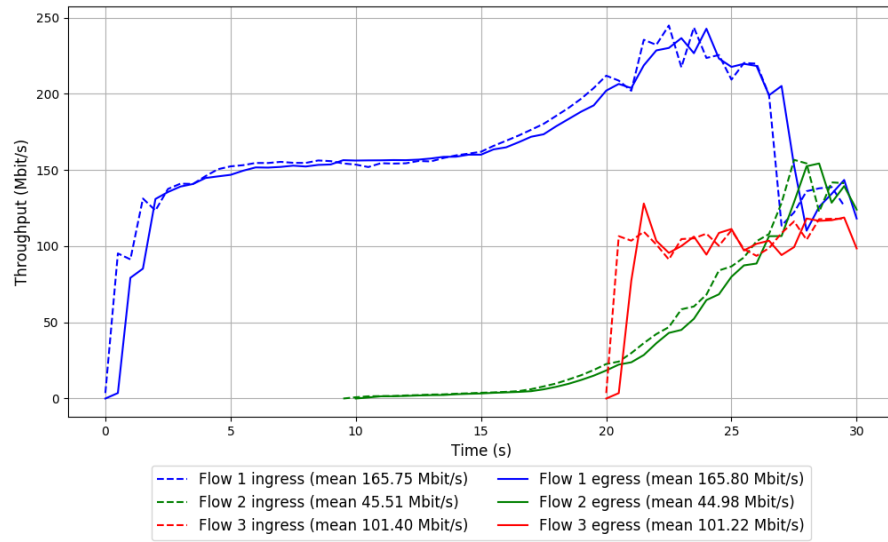


Run 3: Statistics of TCP Cubic

Start at: 2018-05-26 15:15:47
End at: 2018-05-26 15:16:17
Local clock offset: -0.59 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-26 18:33:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 229.10 Mbit/s
95th percentile per-packet one-way delay: 68.974 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 165.80 Mbit/s
95th percentile per-packet one-way delay: 67.442 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 71.244 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 101.22 Mbit/s
95th percentile per-packet one-way delay: 71.794 ms
Loss rate: 1.17%

Run 3: Report of TCP Cubic — Data Link

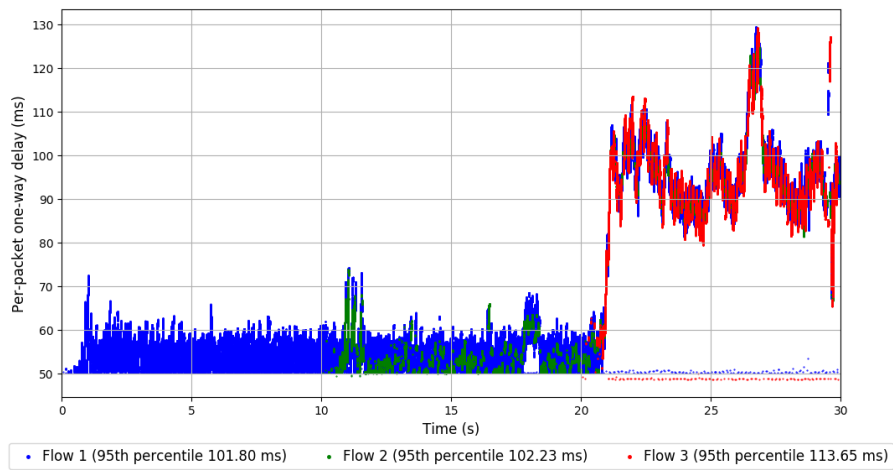
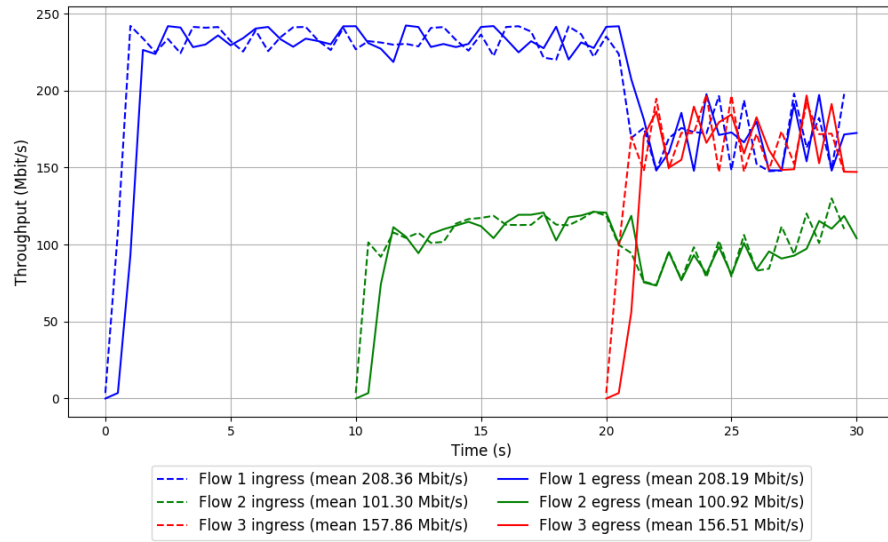


Run 4: Statistics of TCP Cubic

Start at: 2018-05-26 15:38:07
End at: 2018-05-26 15:38:37
Local clock offset: -0.223 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-26 18:34:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 326.71 Mbit/s
95th percentile per-packet one-way delay: 104.114 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 208.19 Mbit/s
95th percentile per-packet one-way delay: 101.795 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 100.92 Mbit/s
95th percentile per-packet one-way delay: 102.228 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 156.51 Mbit/s
95th percentile per-packet one-way delay: 113.654 ms
Loss rate: 1.57%

Run 4: Report of TCP Cubic — Data Link

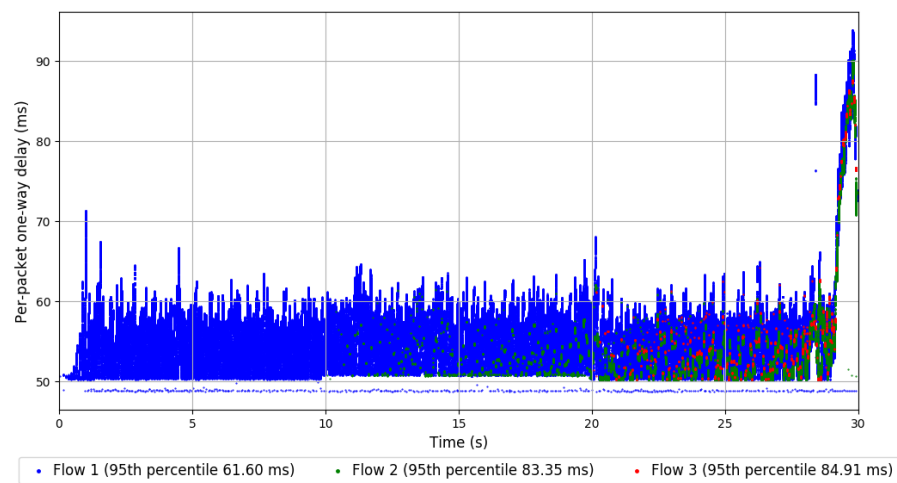
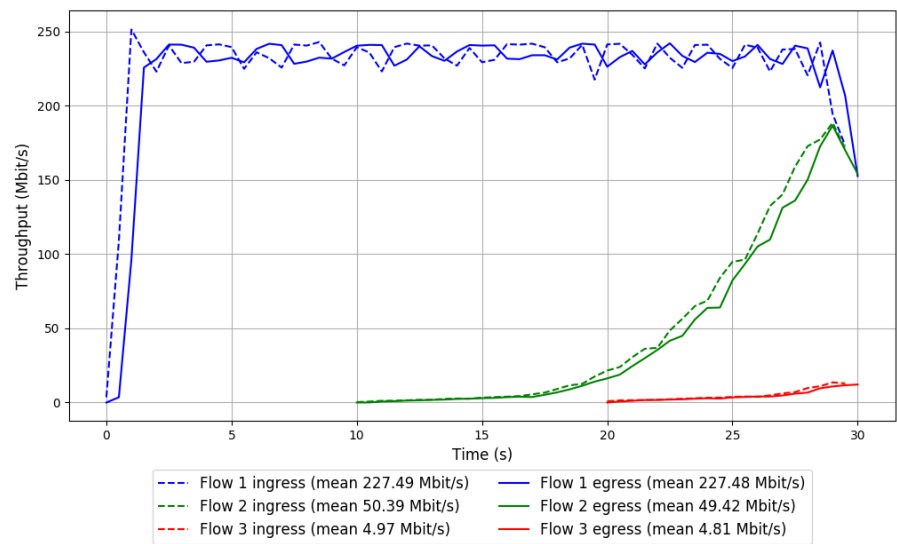


Run 5: Statistics of TCP Cubic

Start at: 2018-05-26 16:00:31
End at: 2018-05-26 16:01:01
Local clock offset: -0.215 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-05-26 18:36:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.93 Mbit/s
95th percentile per-packet one-way delay: 62.504 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 227.48 Mbit/s
95th percentile per-packet one-way delay: 61.604 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 49.42 Mbit/s
95th percentile per-packet one-way delay: 83.354 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 84.912 ms
Loss rate: 4.13%

Run 5: Report of TCP Cubic — Data Link

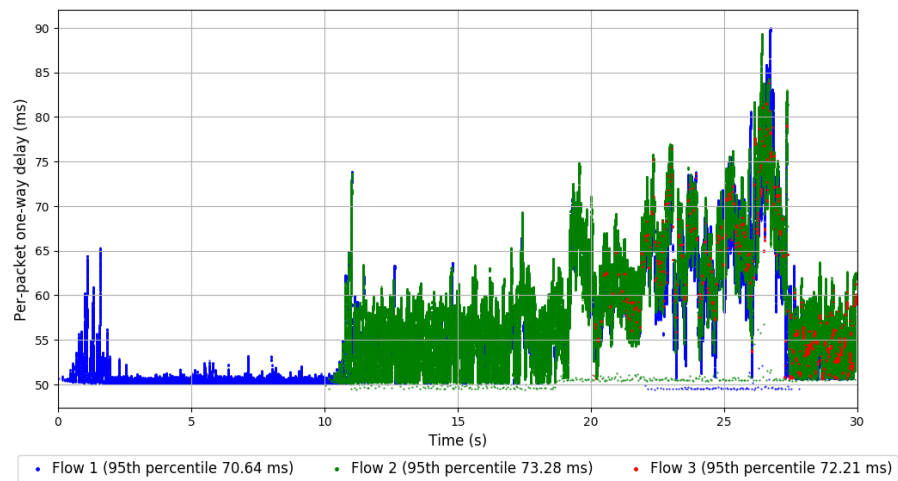
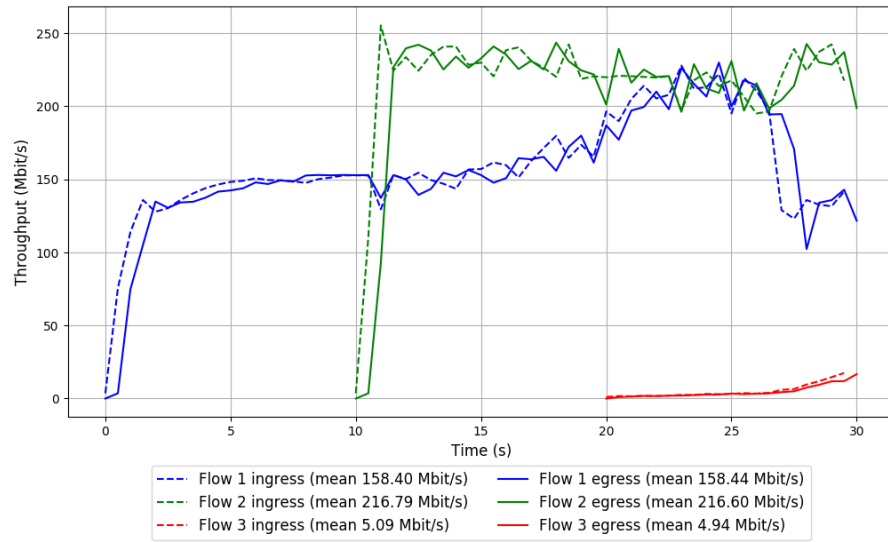


Run 6: Statistics of TCP Cubic

Start at: 2018-05-26 16:22:52
End at: 2018-05-26 16:23:22
Local clock offset: -0.285 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-05-26 18:36:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.11 Mbit/s
95th percentile per-packet one-way delay: 72.088 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 158.44 Mbit/s
95th percentile per-packet one-way delay: 70.641 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 216.60 Mbit/s
95th percentile per-packet one-way delay: 73.282 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 72.214 ms
Loss rate: 3.90%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-26 16:45:15

End at: 2018-05-26 16:45:45

Local clock offset: -0.267 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-26 18:36:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.97 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 85.417 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 195.10 Mbit/s

95th percentile per-packet one-way delay: 86.253 ms

Loss rate: 0.34%

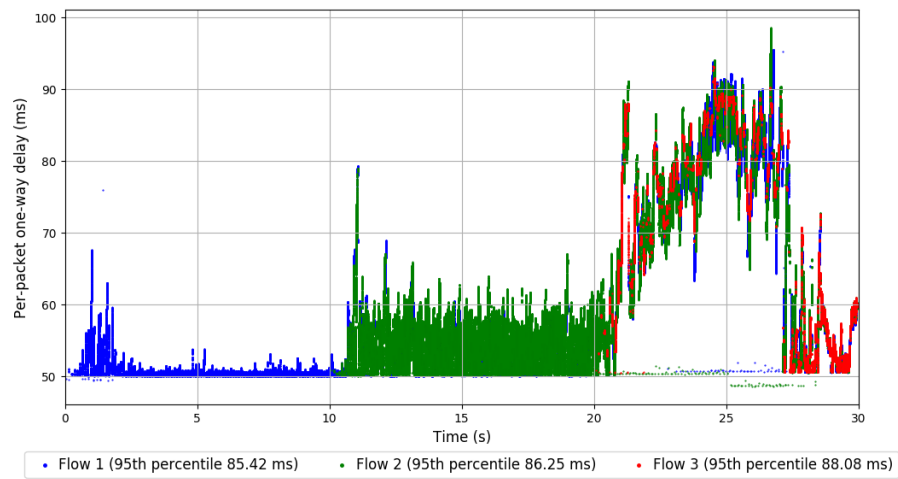
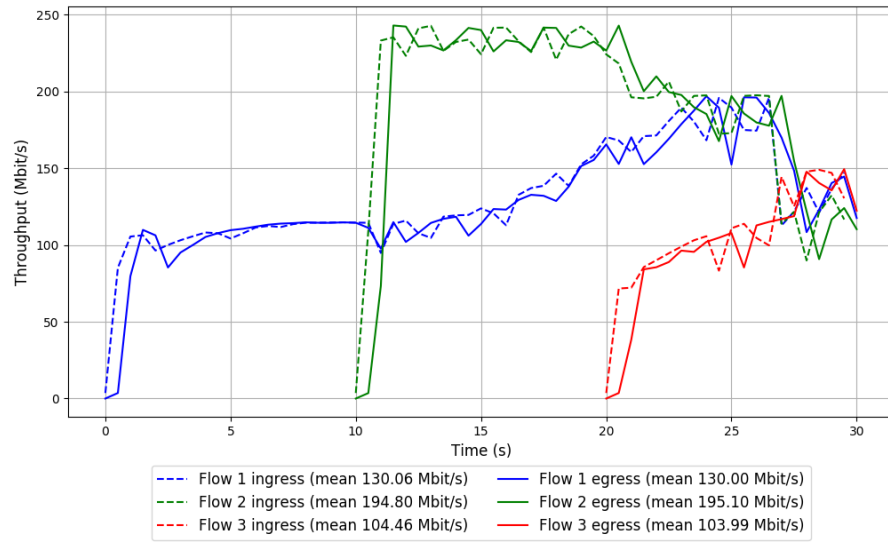
-- Flow 3:

Average throughput: 103.99 Mbit/s

95th percentile per-packet one-way delay: 88.075 ms

Loss rate: 1.45%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 17:07:56

End at: 2018-05-26 17:08:26

Local clock offset: -0.214 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-05-26 18:37:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.36 Mbit/s

95th percentile per-packet one-way delay: 94.628 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 89.741 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 99.507 ms

Loss rate: 2.75%

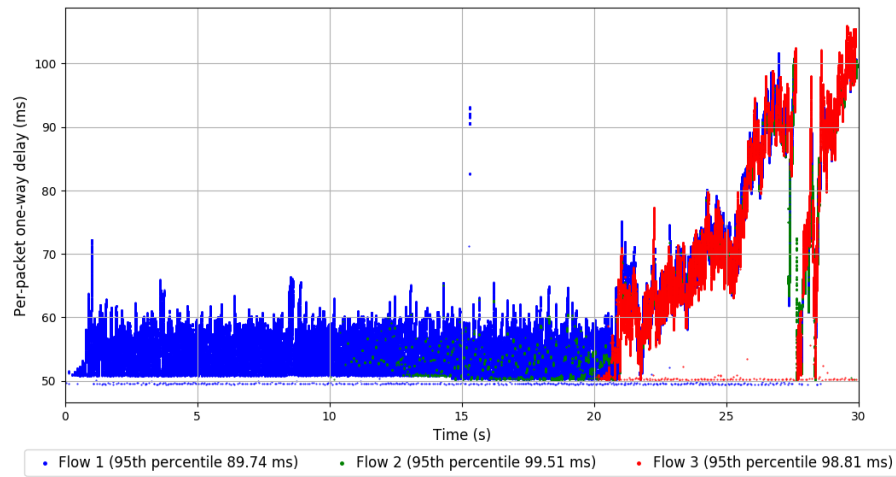
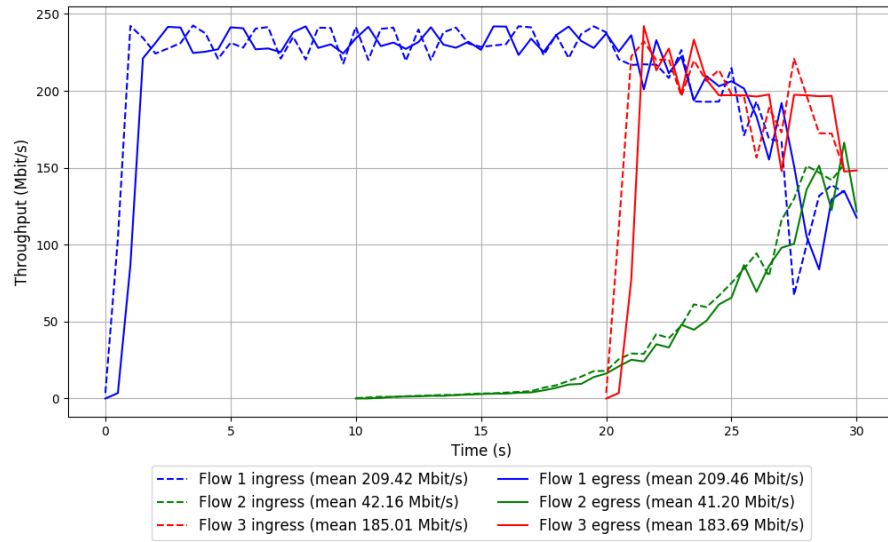
-- Flow 3:

Average throughput: 183.69 Mbit/s

95th percentile per-packet one-way delay: 98.811 ms

Loss rate: 1.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 17:30:15

End at: 2018-05-26 17:30:45

Local clock offset: 0.145 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-05-26 18:37:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.45 Mbit/s

95th percentile per-packet one-way delay: 83.017 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 208.75 Mbit/s

95th percentile per-packet one-way delay: 81.167 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 197.45 Mbit/s

95th percentile per-packet one-way delay: 84.663 ms

Loss rate: 0.65%

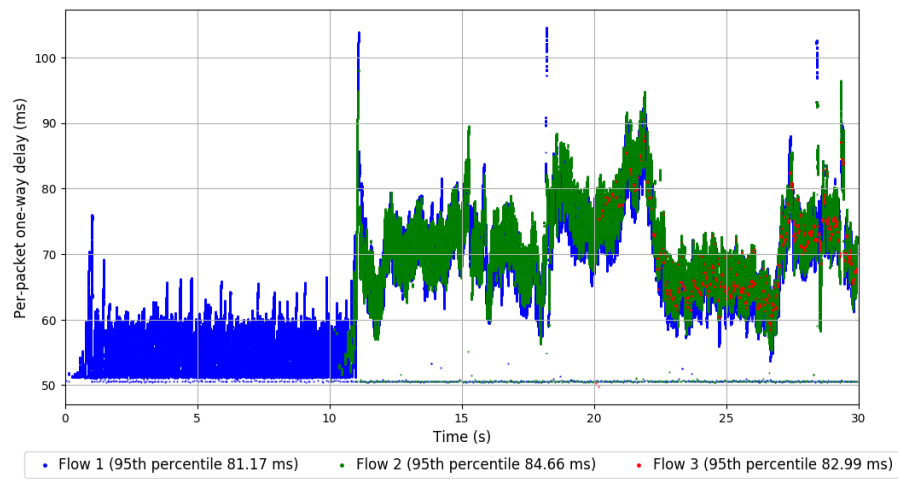
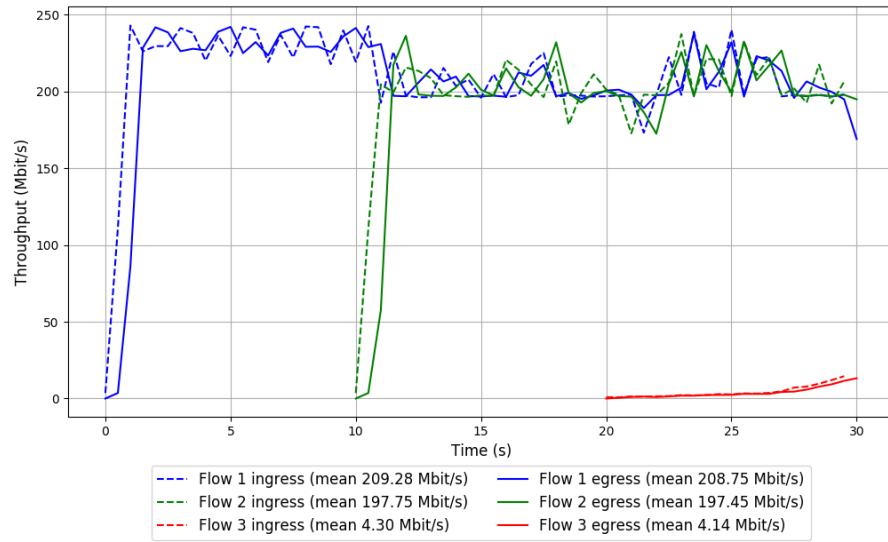
-- Flow 3:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 82.988 ms

Loss rate: 4.72%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 17:52:43

End at: 2018-05-26 17:53:13

Local clock offset: -0.505 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-05-26 18:37:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.72 Mbit/s

95th percentile per-packet one-way delay: 58.622 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 219.33 Mbit/s

95th percentile per-packet one-way delay: 58.798 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 55.608 ms

Loss rate: 2.18%

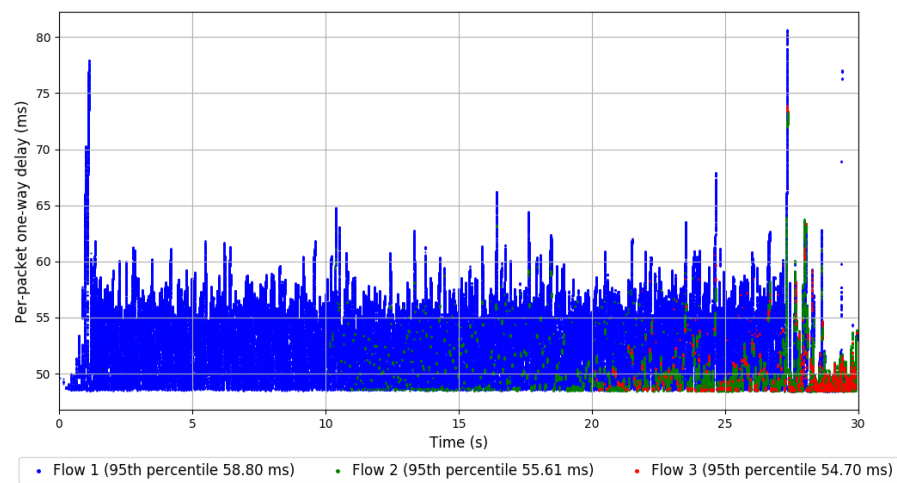
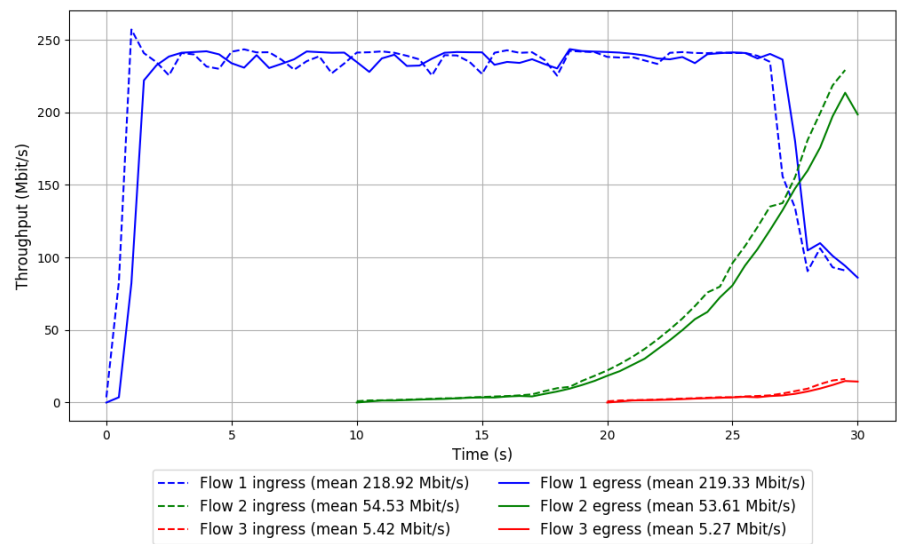
-- Flow 3:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 3.78%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-26 14:29:06

End at: 2018-05-26 14:29:36

Local clock offset: -0.199 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-05-26 18:54:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 1109.97 Mbit/s

95th percentile per-packet one-way delay: 252.394 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 668.86 Mbit/s

95th percentile per-packet one-way delay: 249.869 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 566.95 Mbit/s

95th percentile per-packet one-way delay: 262.614 ms

Loss rate: 1.59%

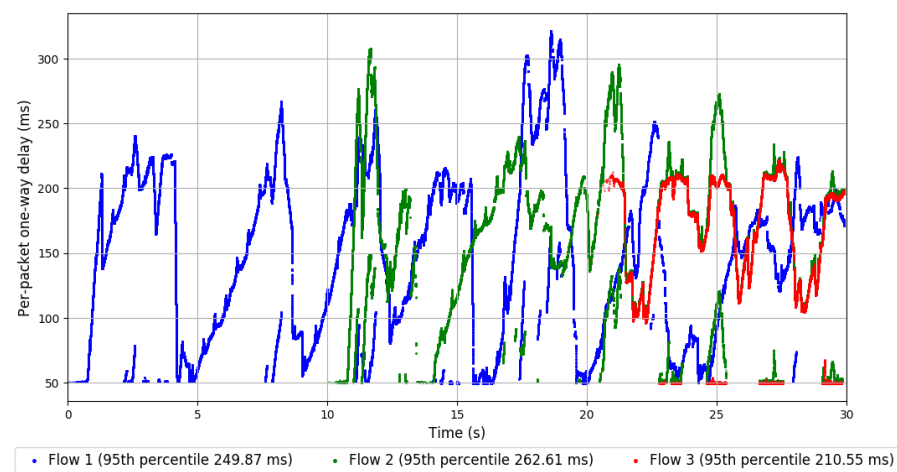
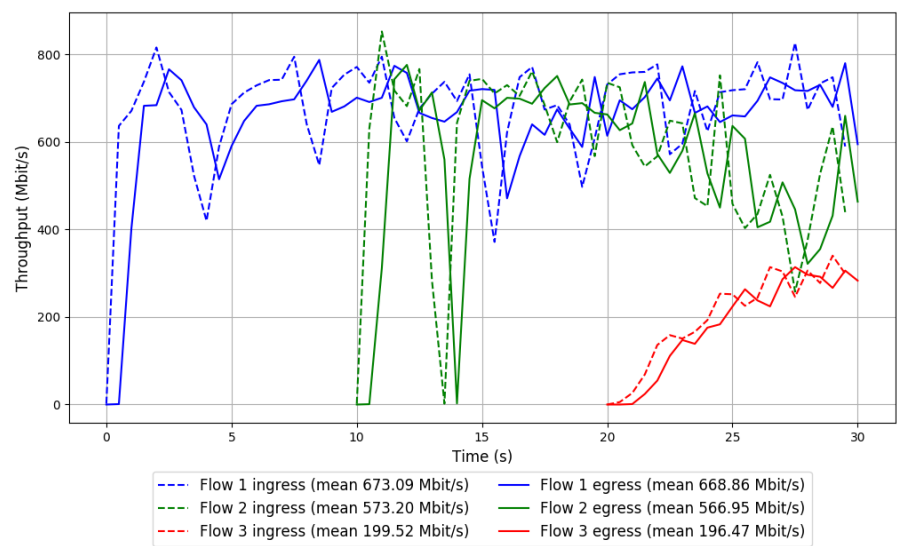
-- Flow 3:

Average throughput: 196.47 Mbit/s

95th percentile per-packet one-way delay: 210.554 ms

Loss rate: 3.45%

Run 1: Report of FillP — Data Link

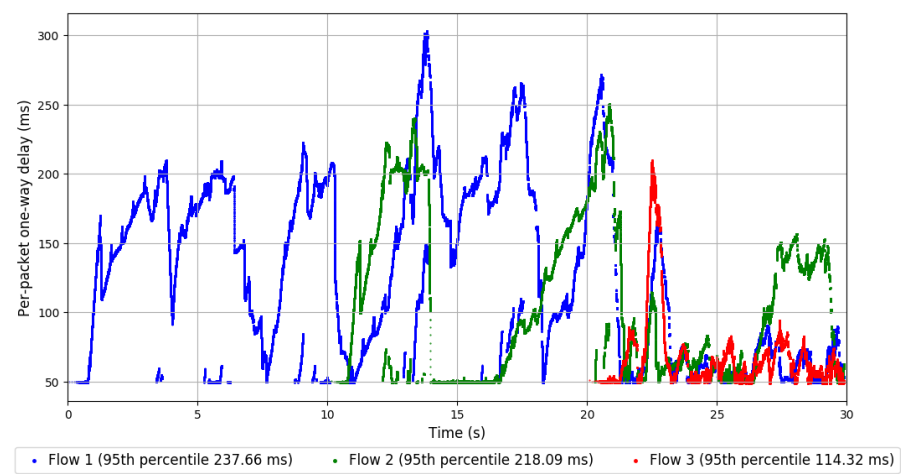
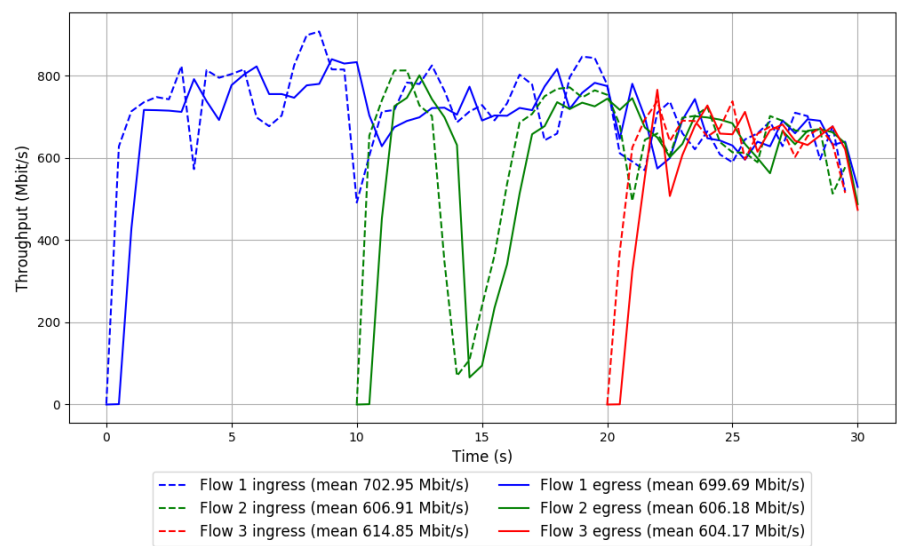


Run 2: Statistics of FillP

Start at: 2018-05-26 14:51:15
End at: 2018-05-26 14:51:45
Local clock offset: -0.213 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-26 18:59:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 1301.37 Mbit/s
95th percentile per-packet one-way delay: 221.383 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 699.69 Mbit/s
95th percentile per-packet one-way delay: 237.655 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 606.18 Mbit/s
95th percentile per-packet one-way delay: 218.088 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 604.17 Mbit/s
95th percentile per-packet one-way delay: 114.319 ms
Loss rate: 2.75%

Run 2: Report of FillP — Data Link

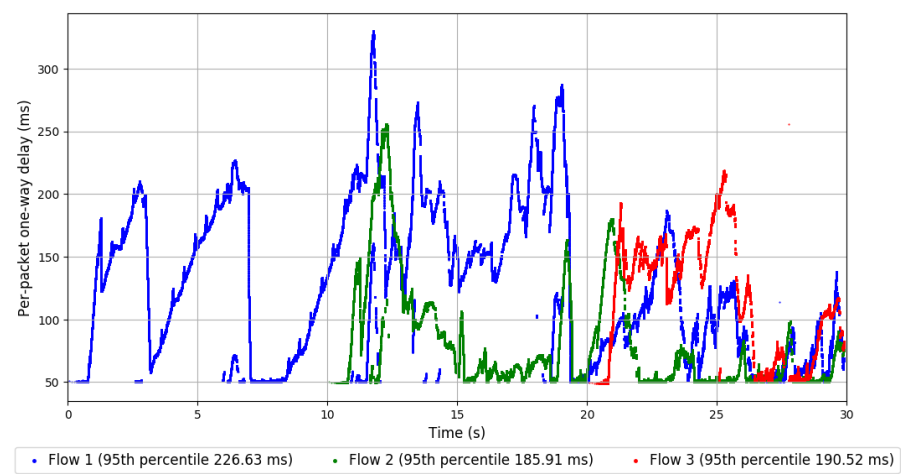
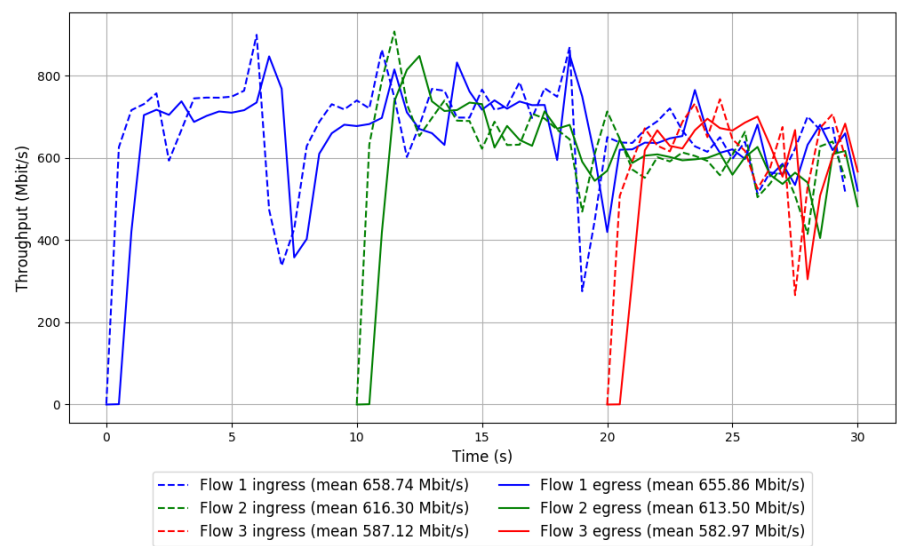


Run 3: Statistics of FillP

Start at: 2018-05-26 15:13:48
End at: 2018-05-26 15:14:18
Local clock offset: 0.141 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-05-26 19:00:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 1255.66 Mbit/s
95th percentile per-packet one-way delay: 215.050 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 655.86 Mbit/s
95th percentile per-packet one-way delay: 226.633 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 613.50 Mbit/s
95th percentile per-packet one-way delay: 185.914 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 582.97 Mbit/s
95th percentile per-packet one-way delay: 190.523 ms
Loss rate: 1.68%

Run 3: Report of FillP — Data Link

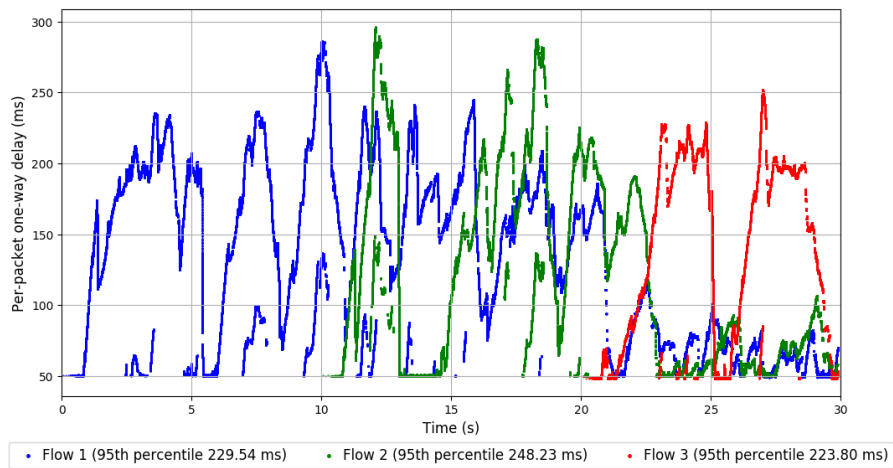
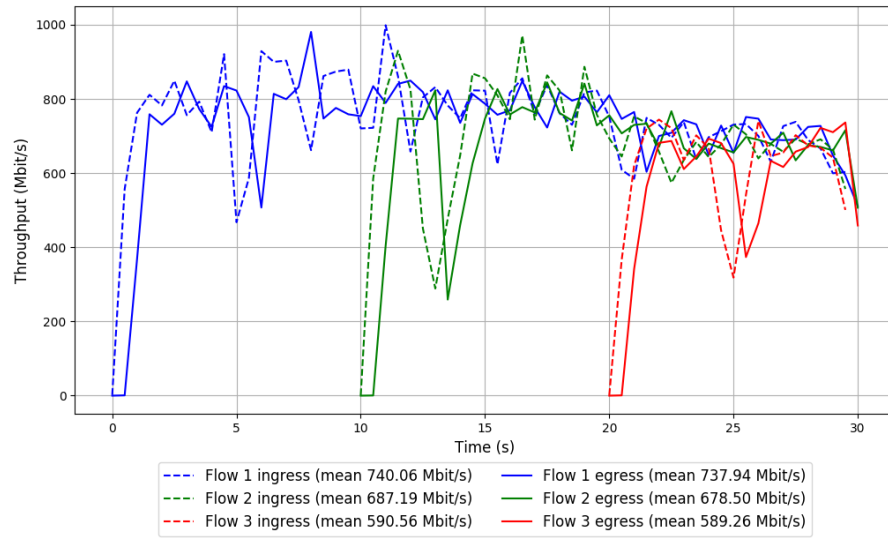


Run 4: Statistics of FillP

Start at: 2018-05-26 15:36:04
End at: 2018-05-26 15:36:34
Local clock offset: -0.636 ms
Remote clock offset: -0.13 ms

```
# Below is generated by plot.py at 2018-05-26 19:04:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1382.69 Mbit/s
95th percentile per-packet one-way delay: 232.290 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 737.94 Mbit/s
95th percentile per-packet one-way delay: 229.538 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 678.50 Mbit/s
95th percentile per-packet one-way delay: 248.234 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 589.26 Mbit/s
95th percentile per-packet one-way delay: 223.798 ms
Loss rate: 1.22%
```

Run 4: Report of FillP — Data Link

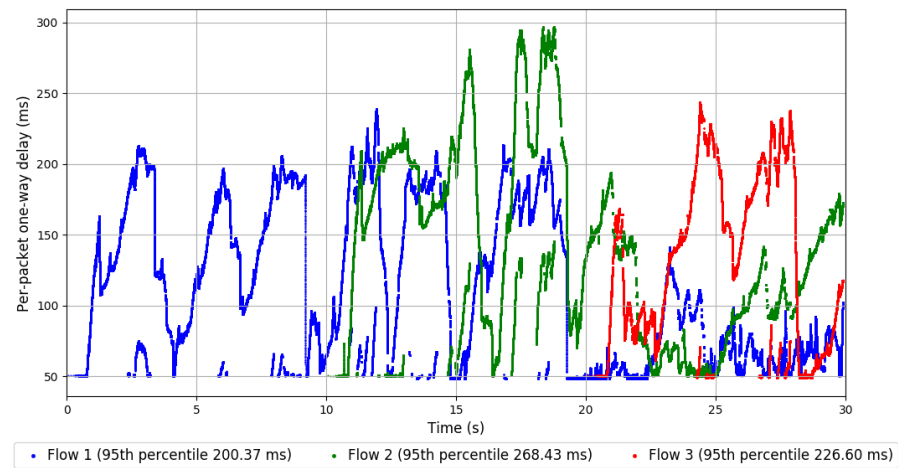
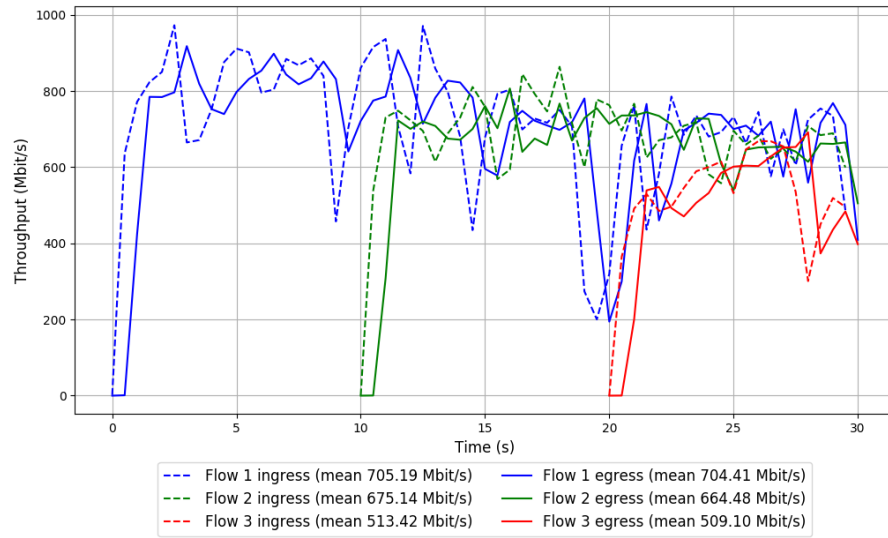


Run 5: Statistics of FillP

Start at: 2018-05-26 15:58:27
End at: 2018-05-26 15:58:57
Local clock offset: -0.644 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-05-26 19:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 1313.50 Mbit/s
95th percentile per-packet one-way delay: 218.984 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 704.41 Mbit/s
95th percentile per-packet one-way delay: 200.374 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 664.48 Mbit/s
95th percentile per-packet one-way delay: 268.432 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 509.10 Mbit/s
95th percentile per-packet one-way delay: 226.600 ms
Loss rate: 1.86%

Run 5: Report of FillP — Data Link

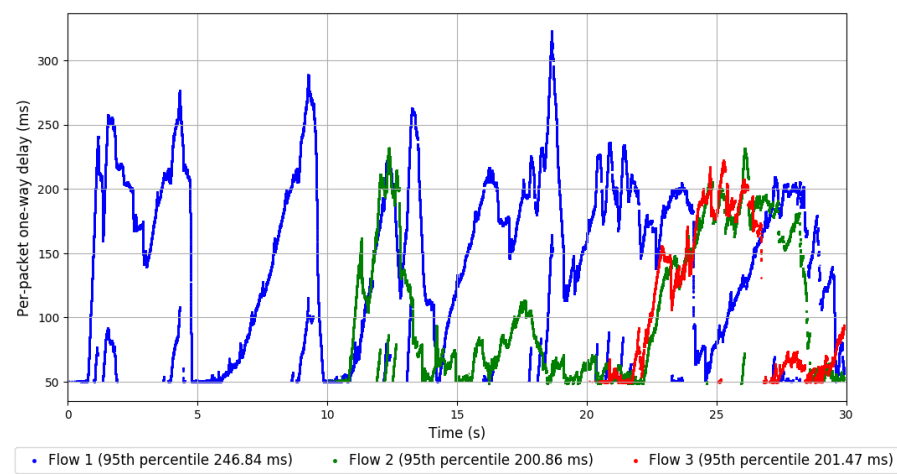
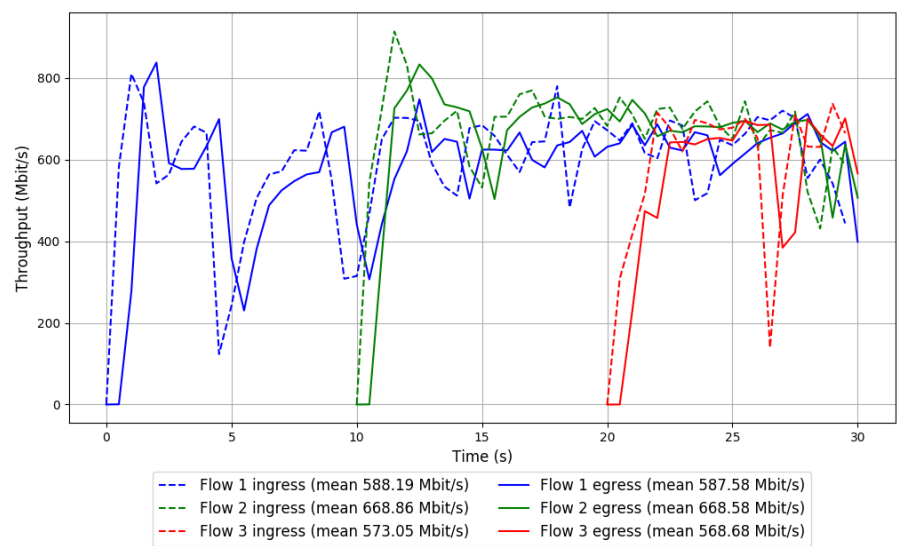


Run 6: Statistics of FillP

Start at: 2018-05-26 16:20:55
End at: 2018-05-26 16:21:25
Local clock offset: -0.237 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-26 19:04:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 1218.81 Mbit/s
95th percentile per-packet one-way delay: 224.680 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 587.58 Mbit/s
95th percentile per-packet one-way delay: 246.835 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 668.58 Mbit/s
95th percentile per-packet one-way delay: 200.858 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 568.68 Mbit/s
95th percentile per-packet one-way delay: 201.475 ms
Loss rate: 1.77%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-26 16:43:17

End at: 2018-05-26 16:43:47

Local clock offset: -0.228 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-05-26 19:04:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 1261.59 Mbit/s

95th percentile per-packet one-way delay: 244.216 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 676.97 Mbit/s

95th percentile per-packet one-way delay: 256.441 ms

Loss rate: 2.28%

-- Flow 2:

Average throughput: 588.14 Mbit/s

95th percentile per-packet one-way delay: 226.942 ms

Loss rate: 1.32%

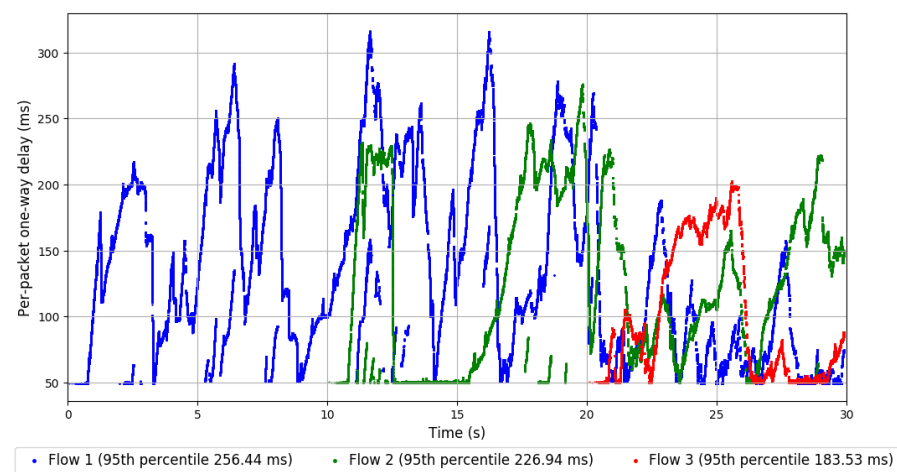
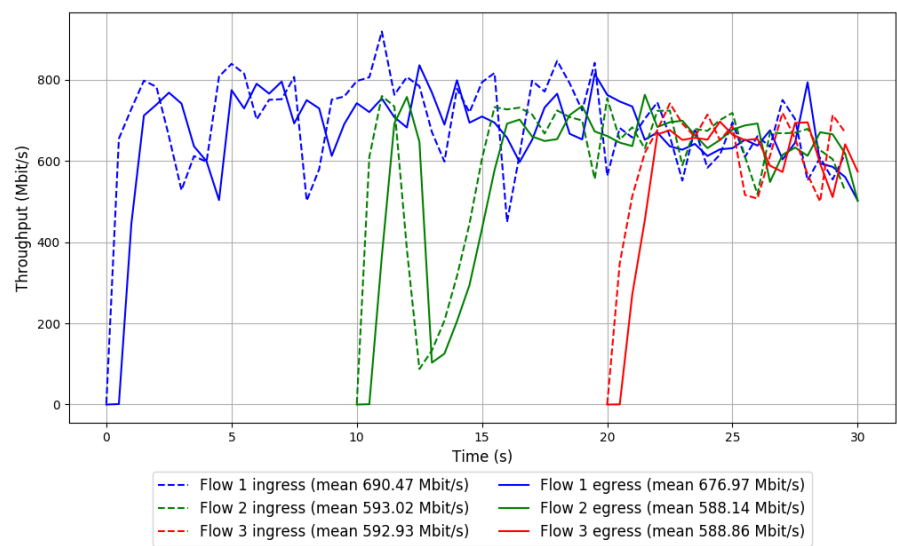
-- Flow 3:

Average throughput: 588.86 Mbit/s

95th percentile per-packet one-way delay: 183.533 ms

Loss rate: 1.69%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-26 17:05:52

End at: 2018-05-26 17:06:22

Local clock offset: -0.174 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-05-26 19:05:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1364.61 Mbit/s

95th percentile per-packet one-way delay: 213.994 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 730.14 Mbit/s

95th percentile per-packet one-way delay: 224.454 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 654.36 Mbit/s

95th percentile per-packet one-way delay: 204.246 ms

Loss rate: 0.83%

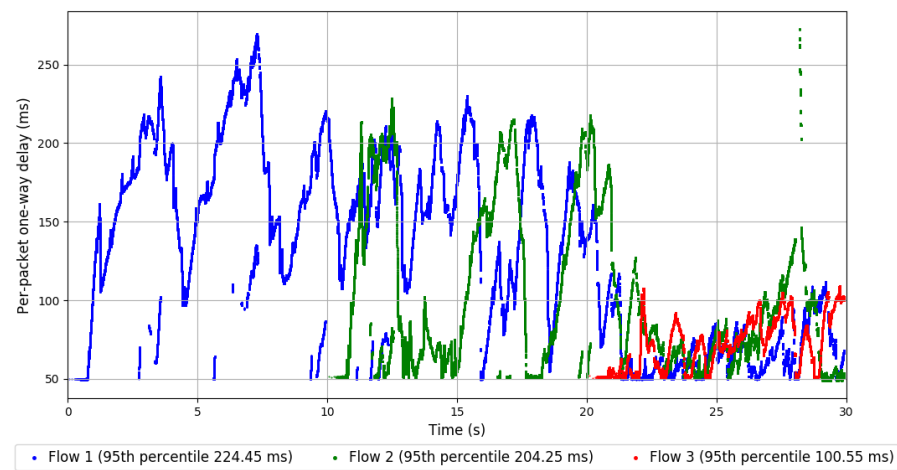
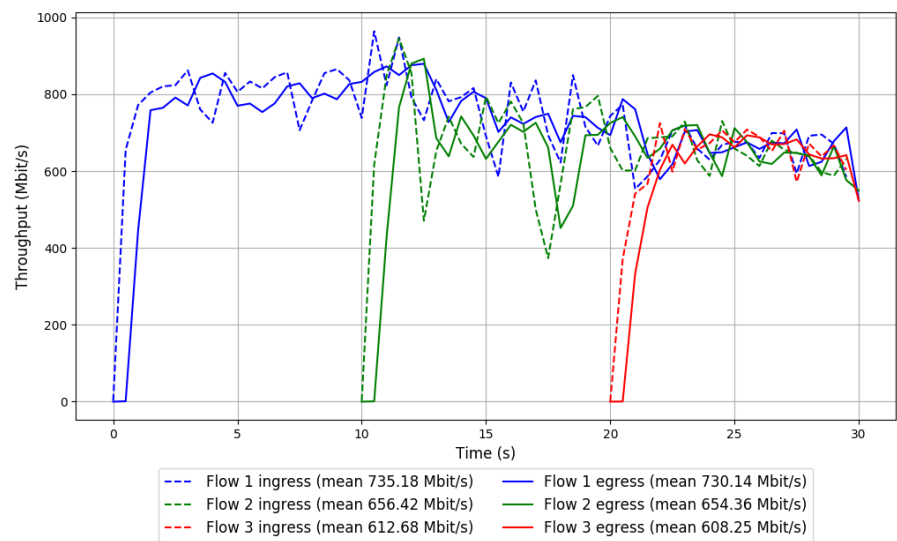
-- Flow 3:

Average throughput: 608.25 Mbit/s

95th percentile per-packet one-way delay: 100.545 ms

Loss rate: 1.74%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-26 17:28:15

End at: 2018-05-26 17:28:45

Local clock offset: -0.224 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-05-26 19:23:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1290.51 Mbit/s

95th percentile per-packet one-way delay: 230.727 ms

Loss rate: 2.31%

-- Flow 1:

Average throughput: 677.96 Mbit/s

95th percentile per-packet one-way delay: 239.844 ms

Loss rate: 2.08%

-- Flow 2:

Average throughput: 619.21 Mbit/s

95th percentile per-packet one-way delay: 223.265 ms

Loss rate: 2.76%

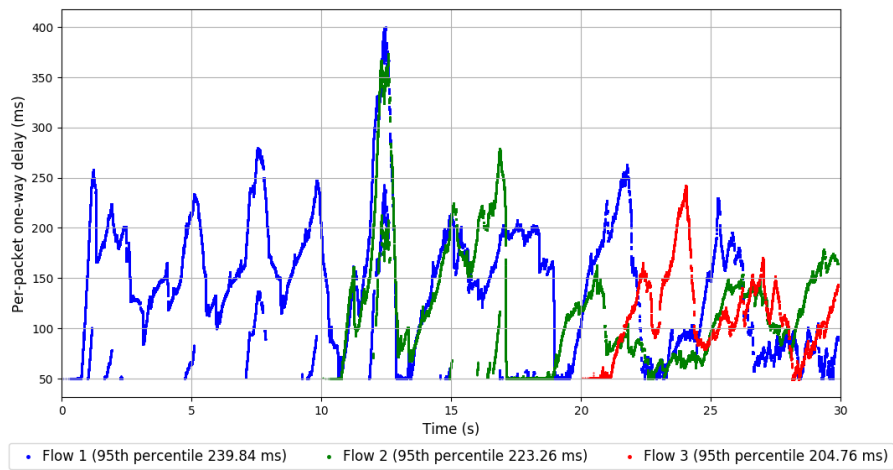
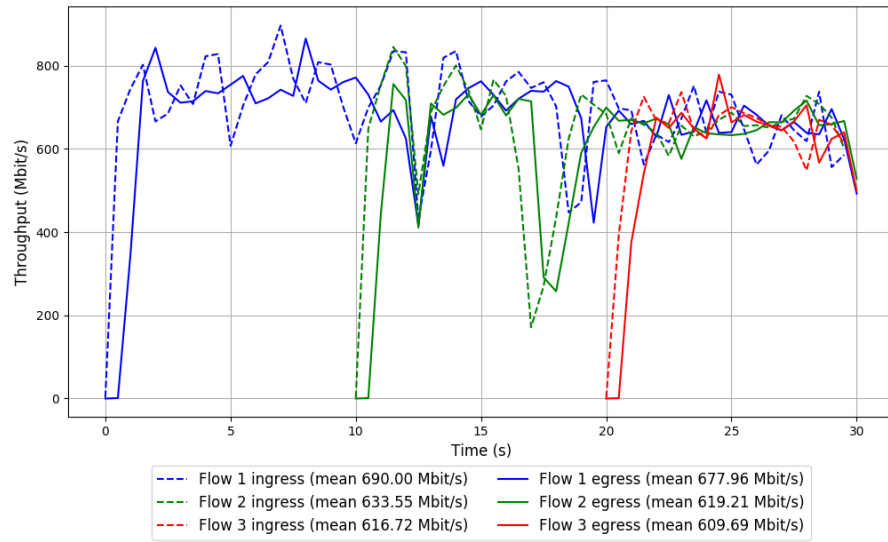
-- Flow 3:

Average throughput: 609.69 Mbit/s

95th percentile per-packet one-way delay: 204.759 ms

Loss rate: 2.16%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-26 17:50:43

End at: 2018-05-26 17:51:13

Local clock offset: -0.241 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 1269.55 Mbit/s

95th percentile per-packet one-way delay: 208.586 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 651.39 Mbit/s

95th percentile per-packet one-way delay: 210.380 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 670.78 Mbit/s

95th percentile per-packet one-way delay: 208.660 ms

Loss rate: 0.39%

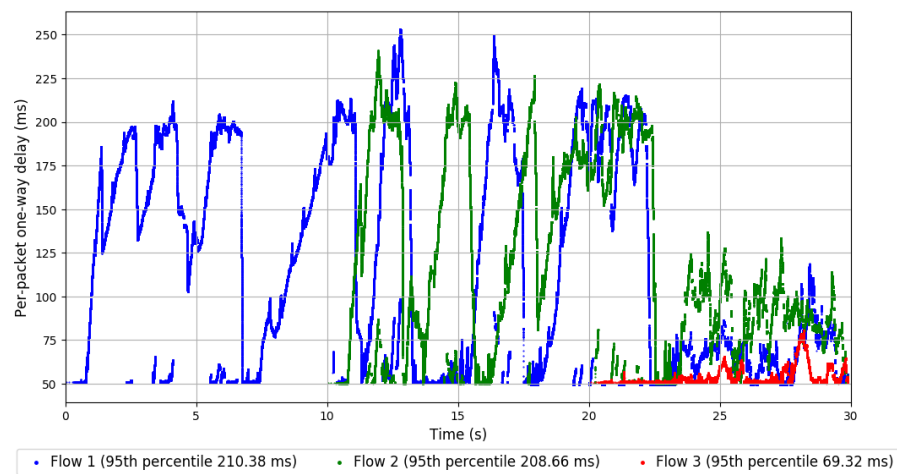
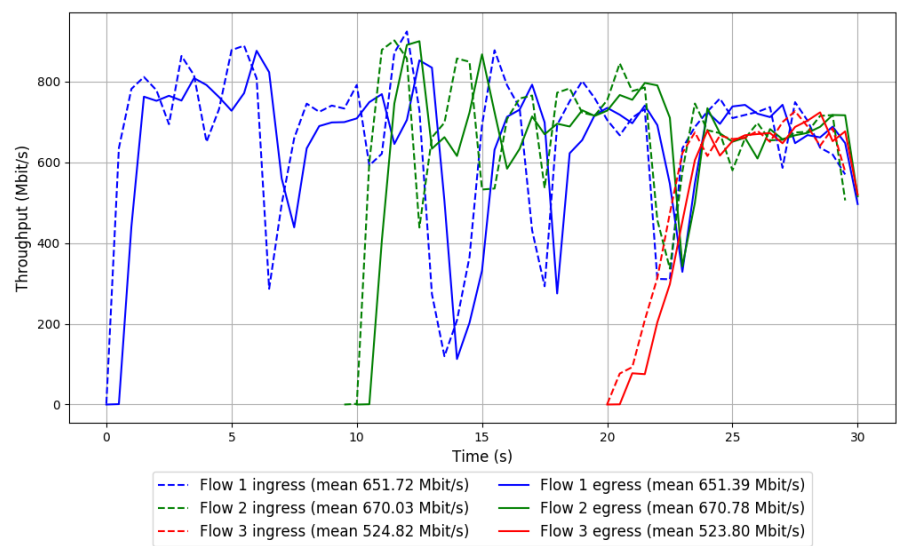
-- Flow 3:

Average throughput: 523.80 Mbit/s

95th percentile per-packet one-way delay: 69.324 ms

Loss rate: 1.22%

Run 10: Report of FillP — Data Link

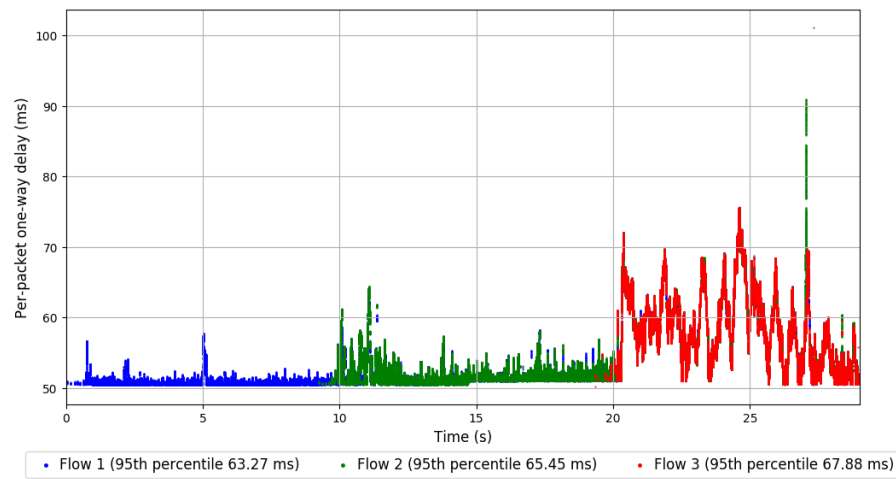
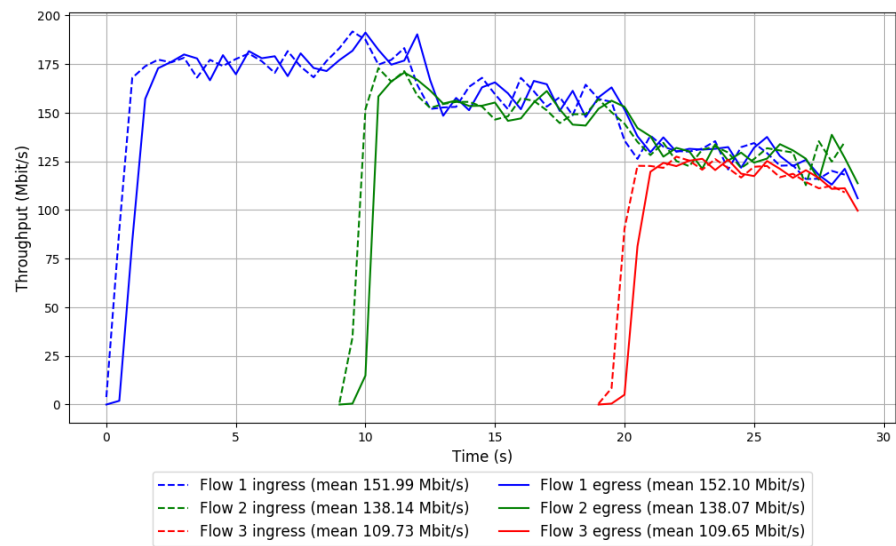


```
Run 1: Statistics of Indigo

Start at: 2018-05-26 14:39:05
End at: 2018-05-26 14:39:35
Local clock offset: 0.202 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-26 19:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.65 Mbit/s
95th percentile per-packet one-way delay: 65.142 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 152.10 Mbit/s
95th percentile per-packet one-way delay: 63.271 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 138.07 Mbit/s
95th percentile per-packet one-way delay: 65.448 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 109.65 Mbit/s
95th percentile per-packet one-way delay: 67.882 ms
Loss rate: 1.06%
```


Run 1: Report of Indigo — Data Link

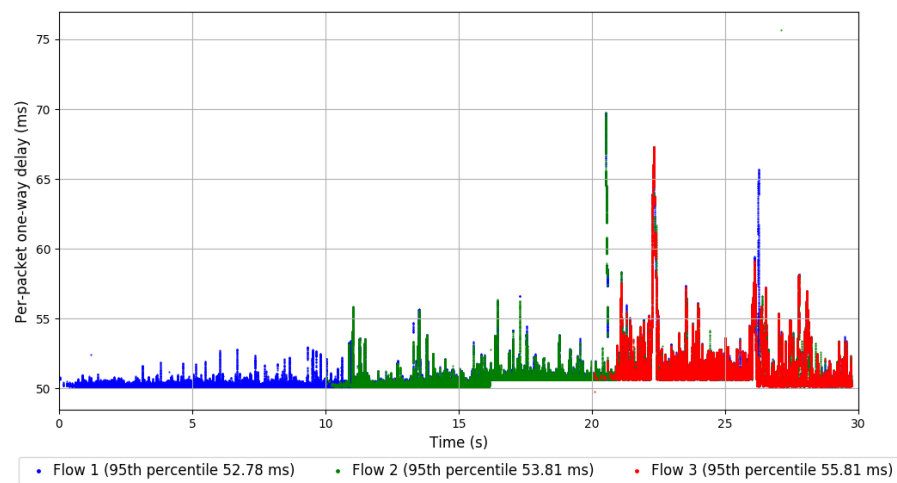
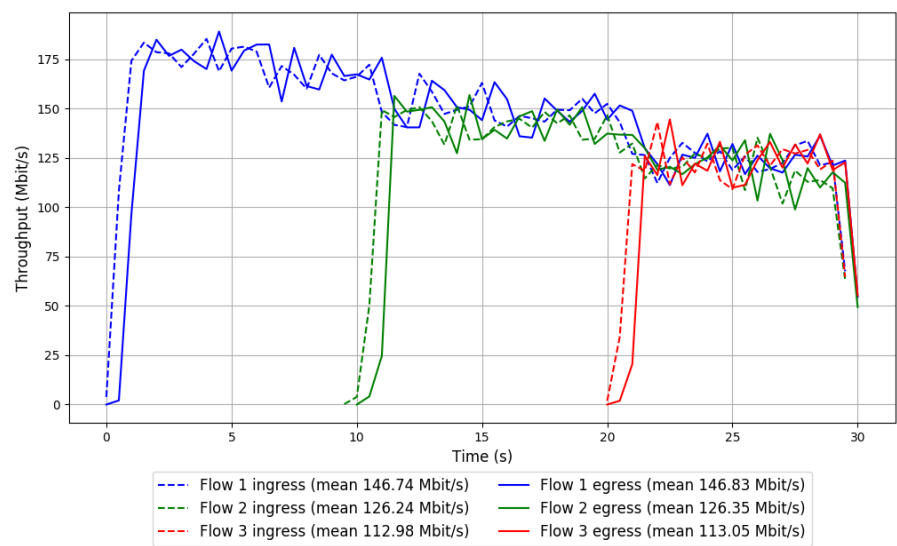


Run 2: Statistics of Indigo

Start at: 2018-05-26 15:01:24
End at: 2018-05-26 15:01:54
Local clock offset: -0.162 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.35 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 146.83 Mbit/s
95th percentile per-packet one-way delay: 52.778 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 126.35 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 113.05 Mbit/s
95th percentile per-packet one-way delay: 55.807 ms
Loss rate: 0.97%

Run 2: Report of Indigo — Data Link

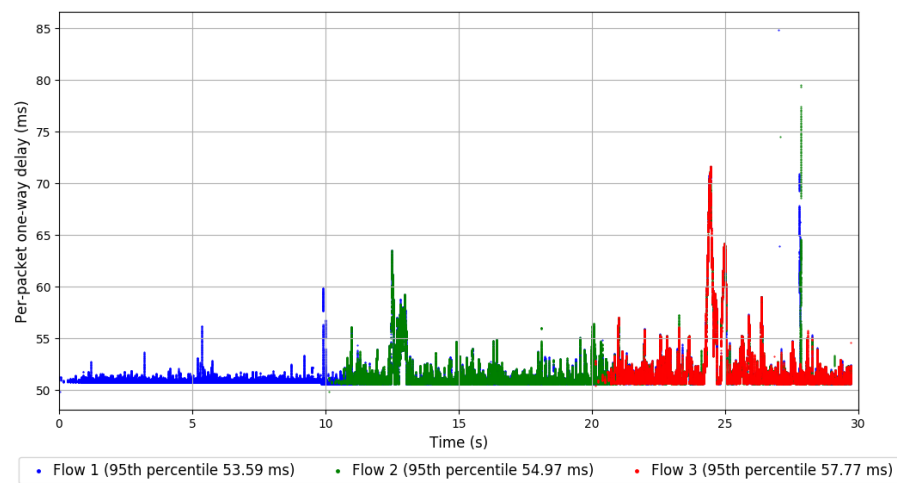
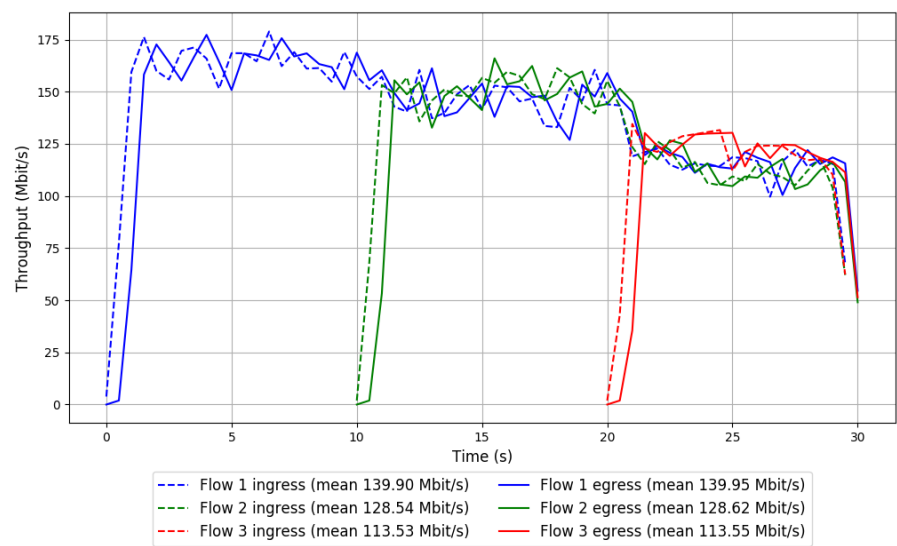


Run 3: Statistics of Indigo

Start at: 2018-05-26 15:23:50
End at: 2018-05-26 15:24:20
Local clock offset: -0.206 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.60 Mbit/s
95th percentile per-packet one-way delay: 54.629 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 139.95 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 128.62 Mbit/s
95th percentile per-packet one-way delay: 54.969 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 113.55 Mbit/s
95th percentile per-packet one-way delay: 57.772 ms
Loss rate: 0.99%

Run 3: Report of Indigo — Data Link

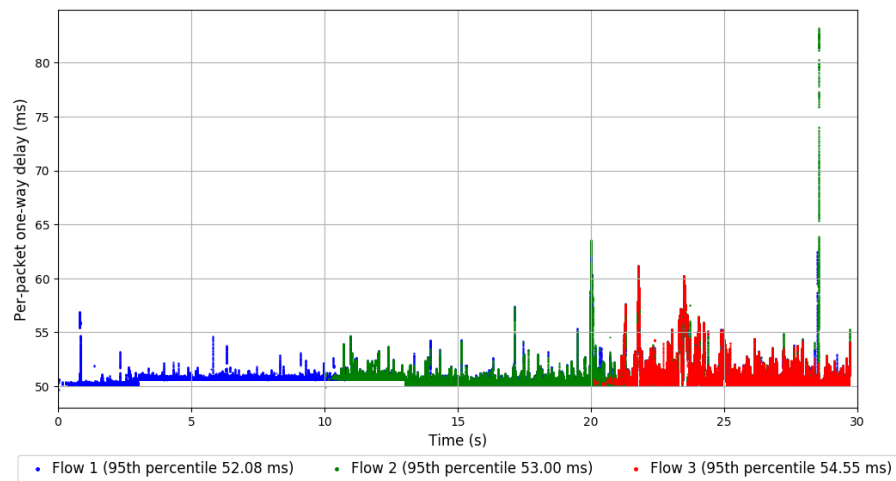
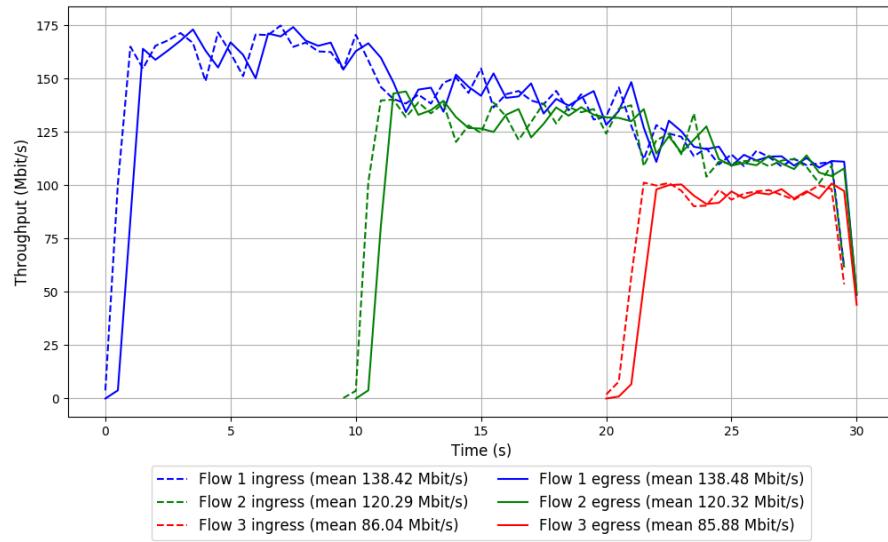


Run 4: Statistics of Indigo

Start at: 2018-05-26 15:46:17
End at: 2018-05-26 15:46:47
Local clock offset: -0.261 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 52.721 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 138.48 Mbit/s
95th percentile per-packet one-way delay: 52.084 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 120.32 Mbit/s
95th percentile per-packet one-way delay: 53.002 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 54.555 ms
Loss rate: 1.22%

Run 4: Report of Indigo — Data Link

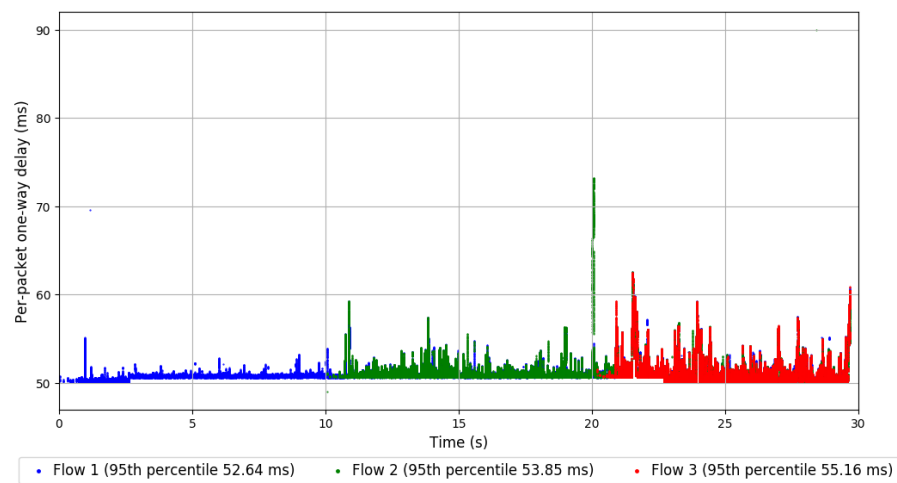
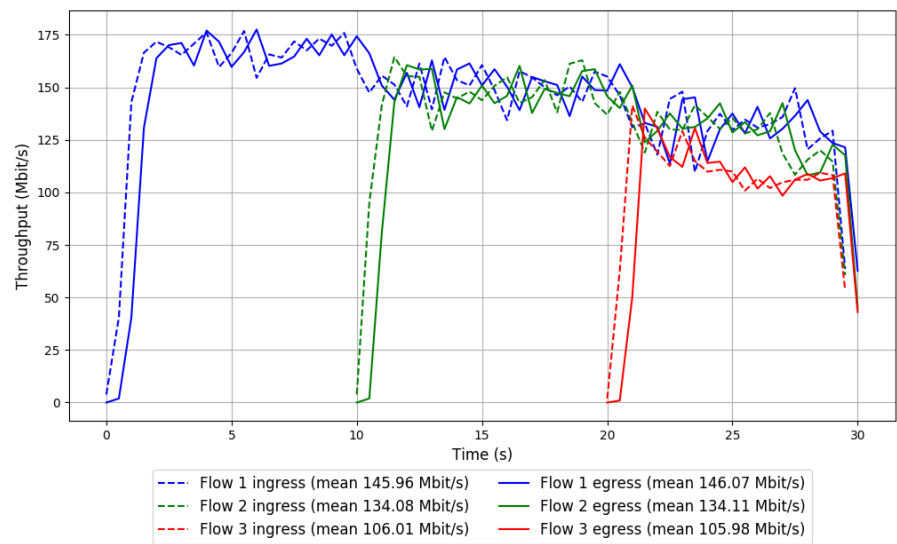


Run 5: Statistics of Indigo

Start at: 2018-05-26 16:08:38
End at: 2018-05-26 16:09:08
Local clock offset: -0.232 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.87 Mbit/s
95th percentile per-packet one-way delay: 53.466 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 146.07 Mbit/s
95th percentile per-packet one-way delay: 52.643 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 134.11 Mbit/s
95th percentile per-packet one-way delay: 53.854 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 105.98 Mbit/s
95th percentile per-packet one-way delay: 55.156 ms
Loss rate: 1.07%

Run 5: Report of Indigo — Data Link

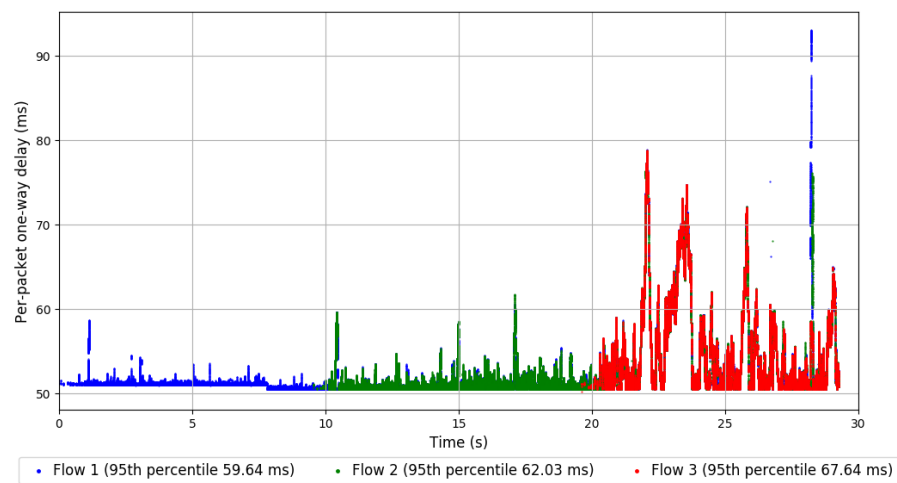
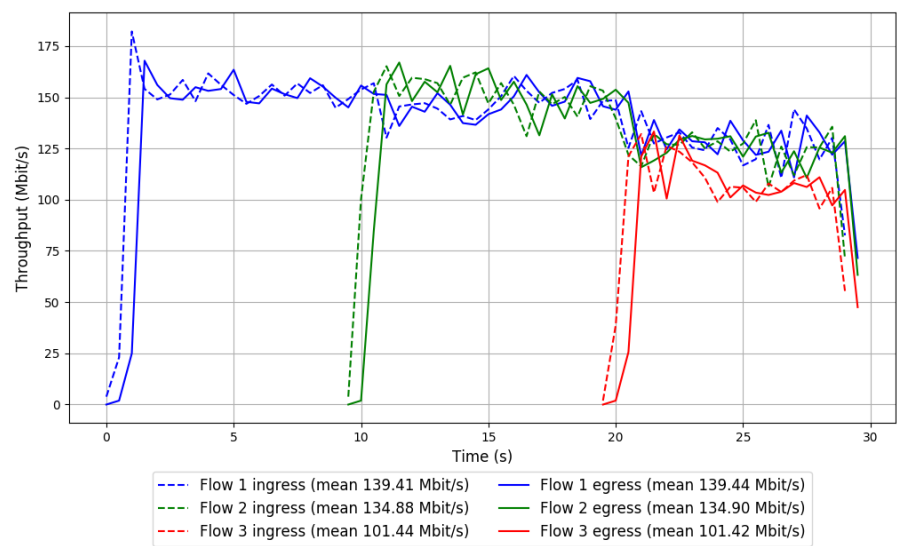


Run 6: Statistics of Indigo

Start at: 2018-05-26 16:31:02
End at: 2018-05-26 16:31:32
Local clock offset: 0.099 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 263.87 Mbit/s
95th percentile per-packet one-way delay: 61.992 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 139.44 Mbit/s
95th percentile per-packet one-way delay: 59.638 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 134.90 Mbit/s
95th percentile per-packet one-way delay: 62.030 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 101.42 Mbit/s
95th percentile per-packet one-way delay: 67.640 ms
Loss rate: 1.05%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-26 16:53:29

End at: 2018-05-26 16:53:59

Local clock offset: -0.229 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.78 Mbit/s

95th percentile per-packet one-way delay: 58.506 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 165.94 Mbit/s

95th percentile per-packet one-way delay: 56.516 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 136.51 Mbit/s

95th percentile per-packet one-way delay: 58.937 ms

Loss rate: 0.44%

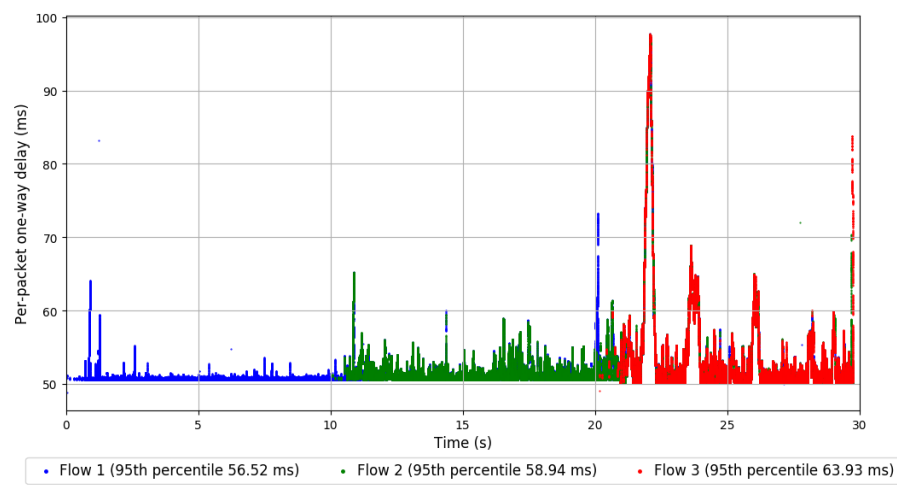
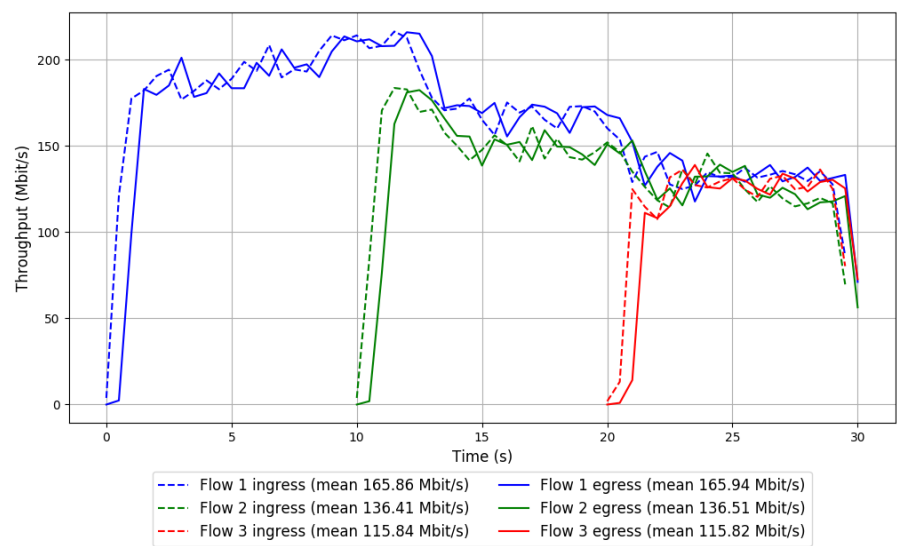
-- Flow 3:

Average throughput: 115.82 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 1.05%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-26 17:16:01

End at: 2018-05-26 17:16:31

Local clock offset: -0.235 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.21 Mbit/s

95th percentile per-packet one-way delay: 58.027 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 135.84 Mbit/s

95th percentile per-packet one-way delay: 53.979 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 126.08 Mbit/s

95th percentile per-packet one-way delay: 57.966 ms

Loss rate: 0.46%

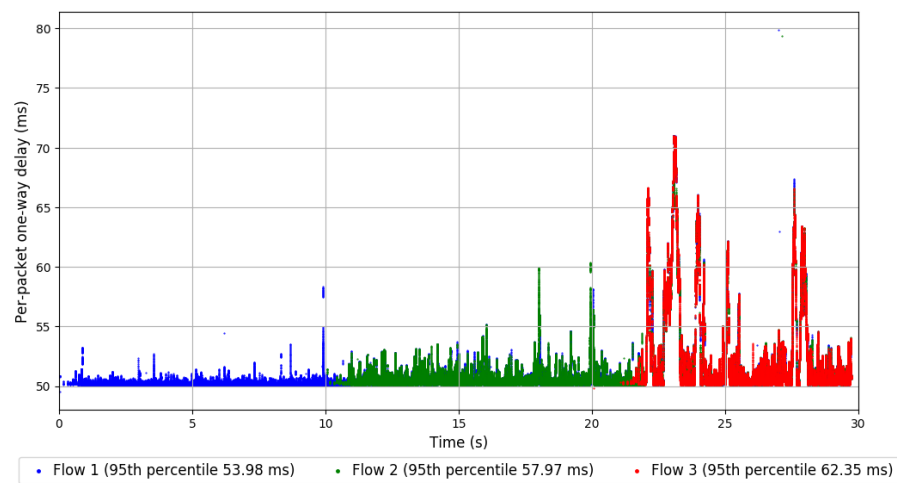
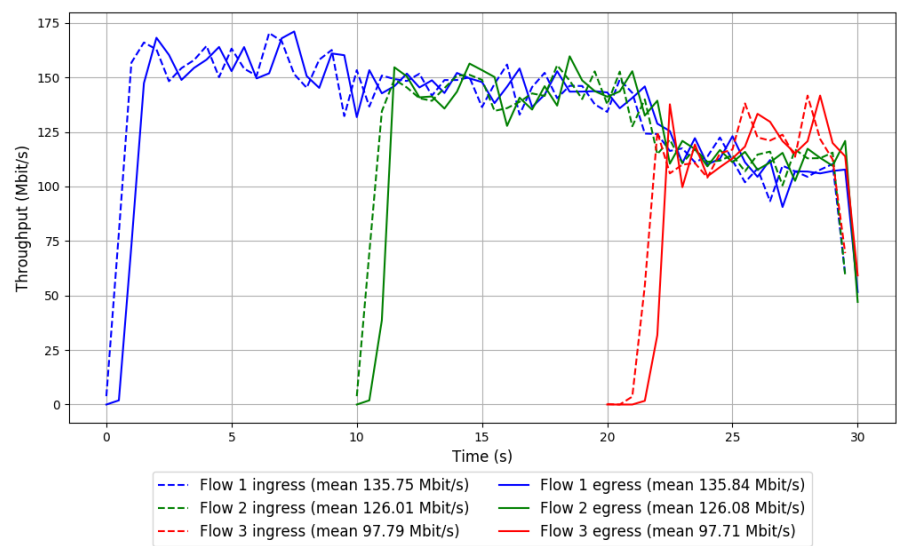
-- Flow 3:

Average throughput: 97.71 Mbit/s

95th percentile per-packet one-way delay: 62.352 ms

Loss rate: 1.11%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-26 17:38:23

End at: 2018-05-26 17:38:53

Local clock offset: -0.226 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.53 Mbit/s

95th percentile per-packet one-way delay: 57.232 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 151.77 Mbit/s

95th percentile per-packet one-way delay: 54.364 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 132.63 Mbit/s

95th percentile per-packet one-way delay: 57.584 ms

Loss rate: 0.48%

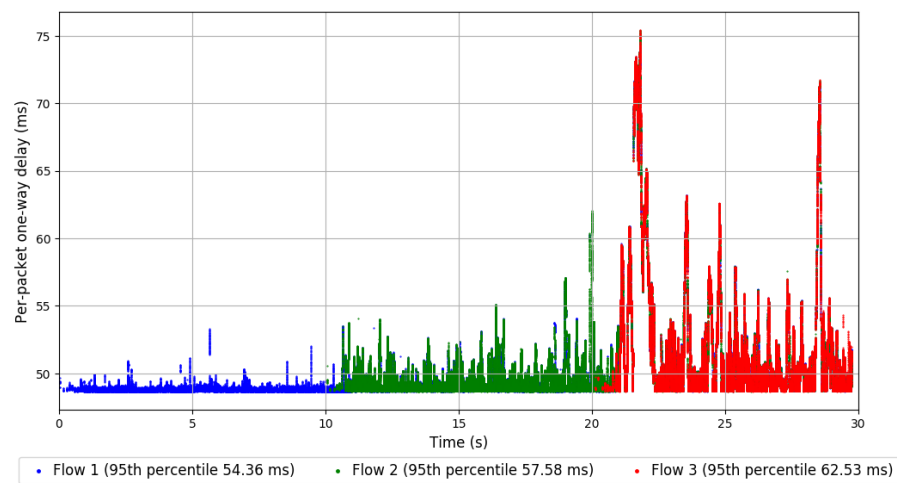
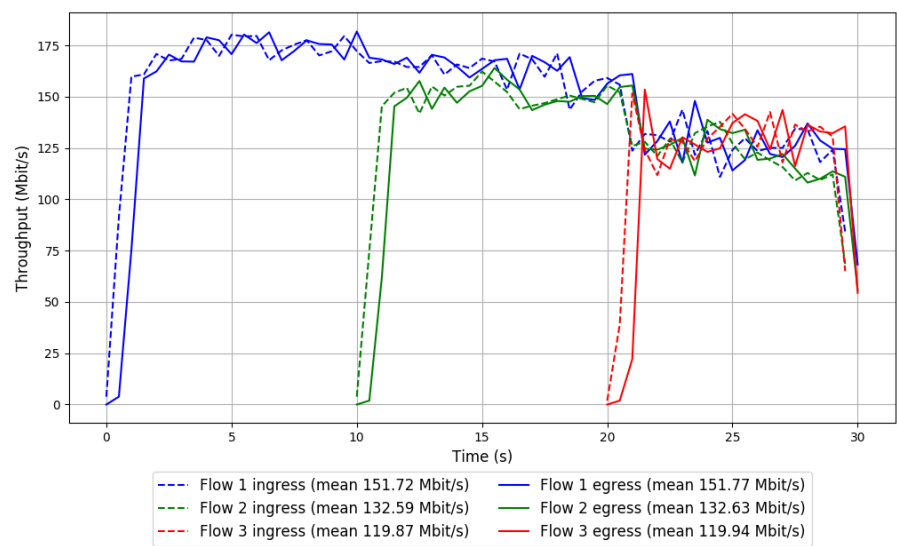
-- Flow 3:

Average throughput: 119.94 Mbit/s

95th percentile per-packet one-way delay: 62.534 ms

Loss rate: 0.96%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-26 18:00:45

End at: 2018-05-26 18:01:15

Local clock offset: -0.228 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.13 Mbit/s

95th percentile per-packet one-way delay: 62.623 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 60.503 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 128.82 Mbit/s

95th percentile per-packet one-way delay: 62.668 ms

Loss rate: 0.45%

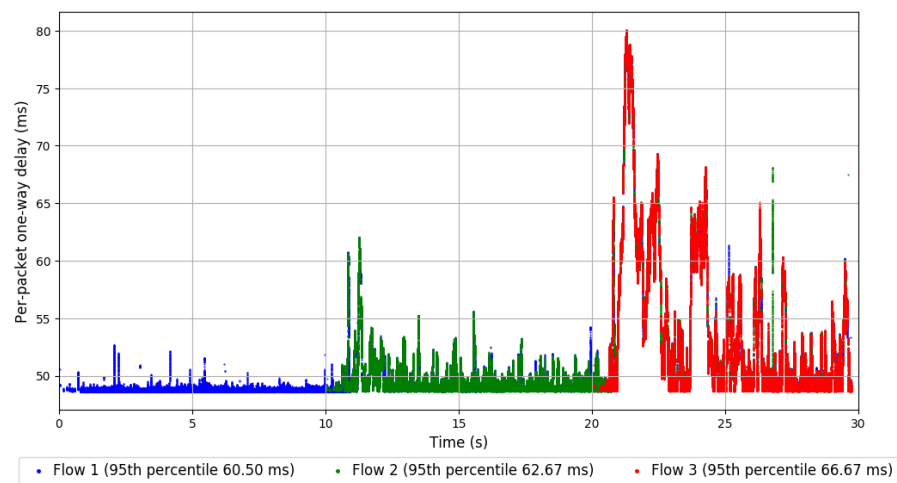
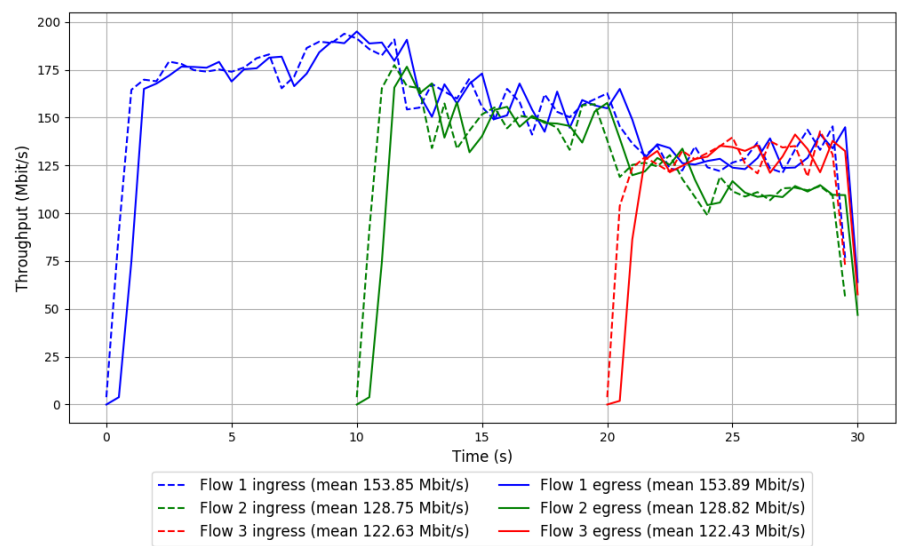
-- Flow 3:

Average throughput: 122.43 Mbit/s

95th percentile per-packet one-way delay: 66.675 ms

Loss rate: 1.18%

Run 10: Report of Indigo — Data Link

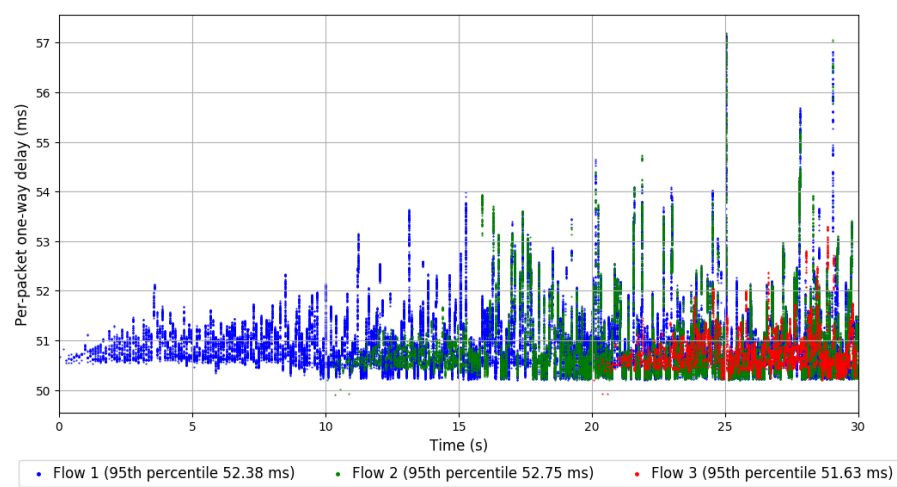
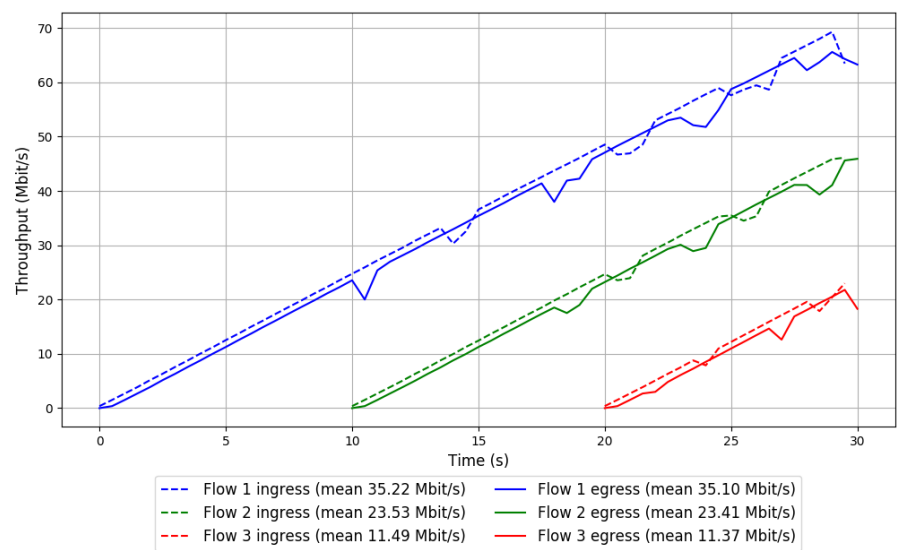


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-26 14:22:32
End at: 2018-05-26 14:23:02
Local clock offset: -0.619 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-05-26 19:26:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 52.459 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 52.376 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 52.753 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 51.629 ms
Loss rate: 2.06%
```

Run 1: Report of LEDBAT — Data Link

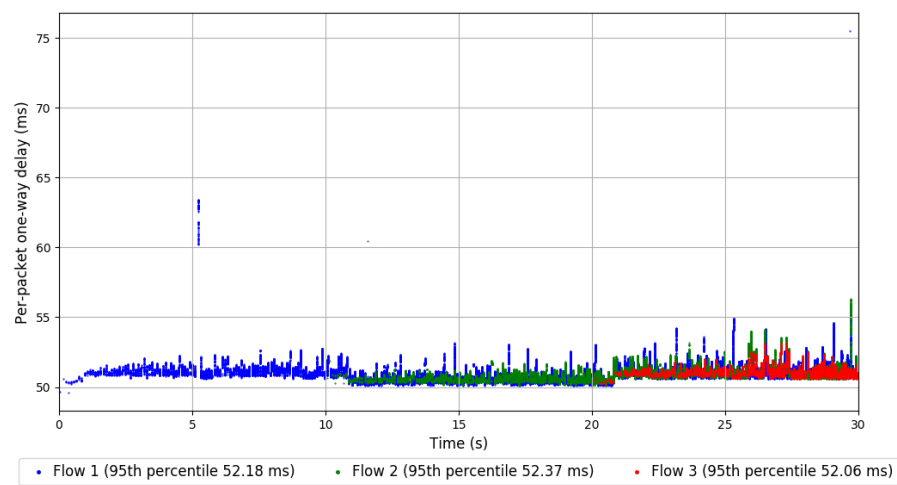
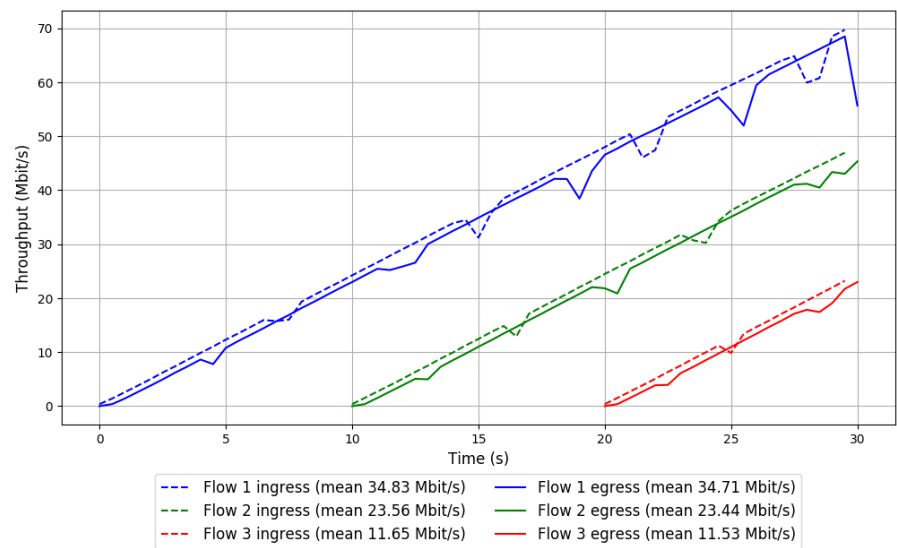


Run 2: Statistics of LEDBAT

Start at: 2018-05-26 14:44:40
End at: 2018-05-26 14:45:10
Local clock offset: -0.161 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.08 Mbit/s
95th percentile per-packet one-way delay: 52.224 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 52.179 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 52.365 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 52.062 ms
Loss rate: 2.04%

Run 2: Report of LEDBAT — Data Link

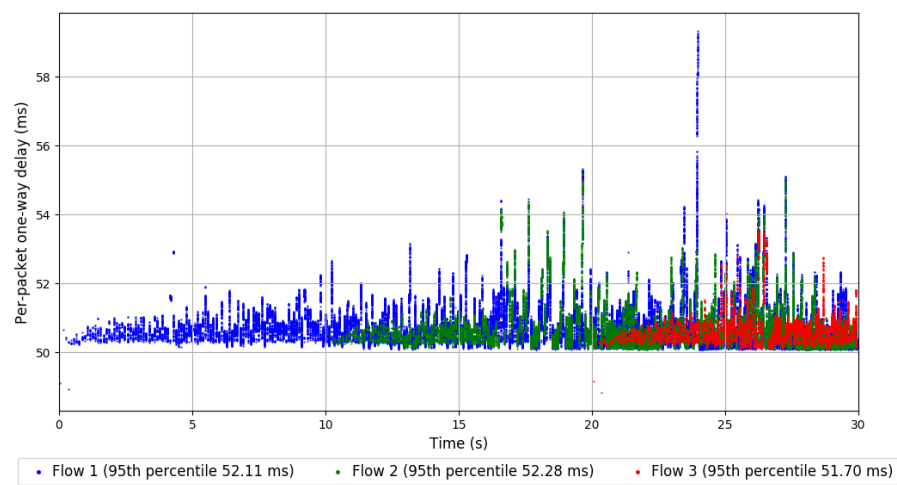
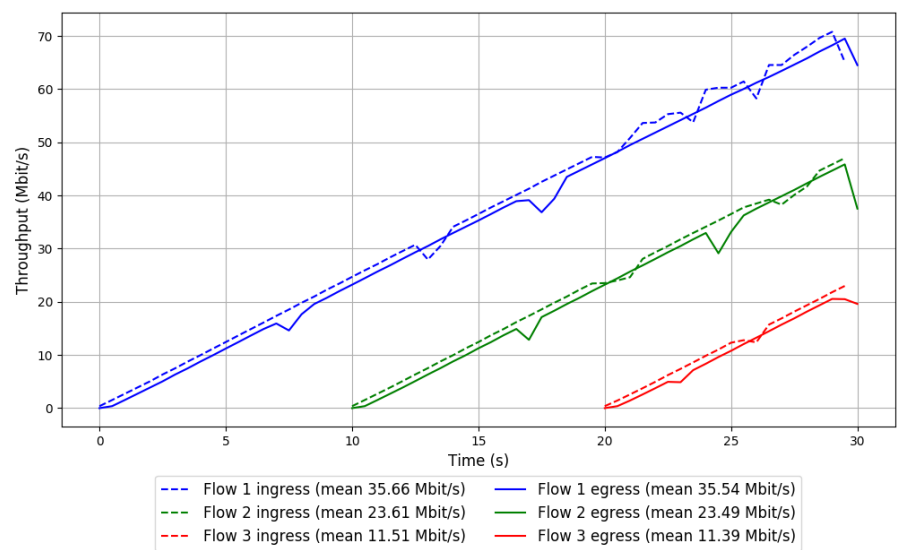


Run 3: Statistics of LEDBAT

Start at: 2018-05-26 15:07:00
End at: 2018-05-26 15:07:30
Local clock offset: -0.23 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.88 Mbit/s
95th percentile per-packet one-way delay: 52.158 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 52.107 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 52.280 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 51.696 ms
Loss rate: 2.05%

Run 3: Report of LEDBAT — Data Link

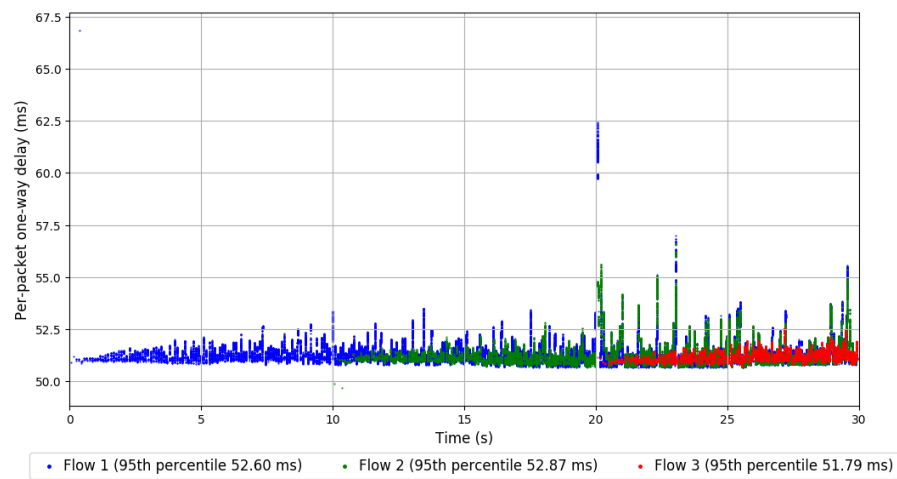
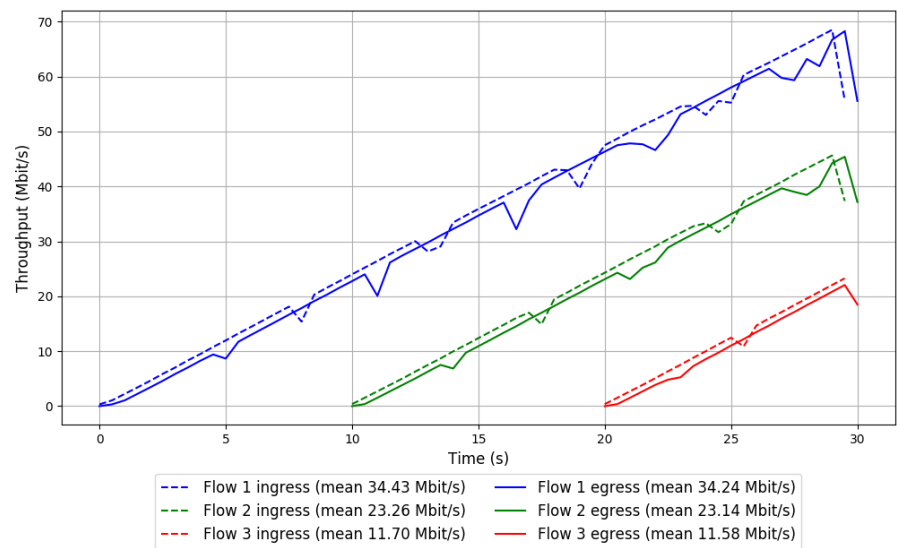


Run 4: Statistics of LEDBAT

Start at: 2018-05-26 15:29:25
End at: 2018-05-26 15:29:55
Local clock offset: -0.177 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 52.606 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 52.602 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 52.869 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 51.789 ms
Loss rate: 2.05%

Run 4: Report of LEDBAT — Data Link

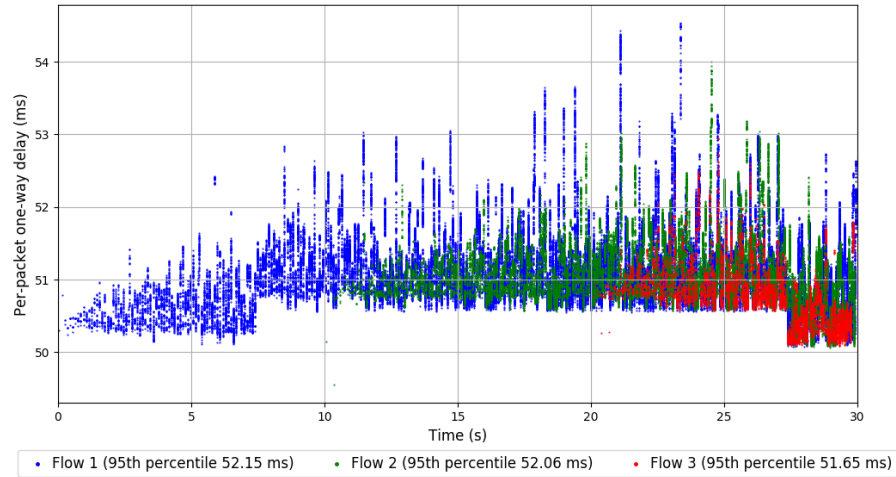
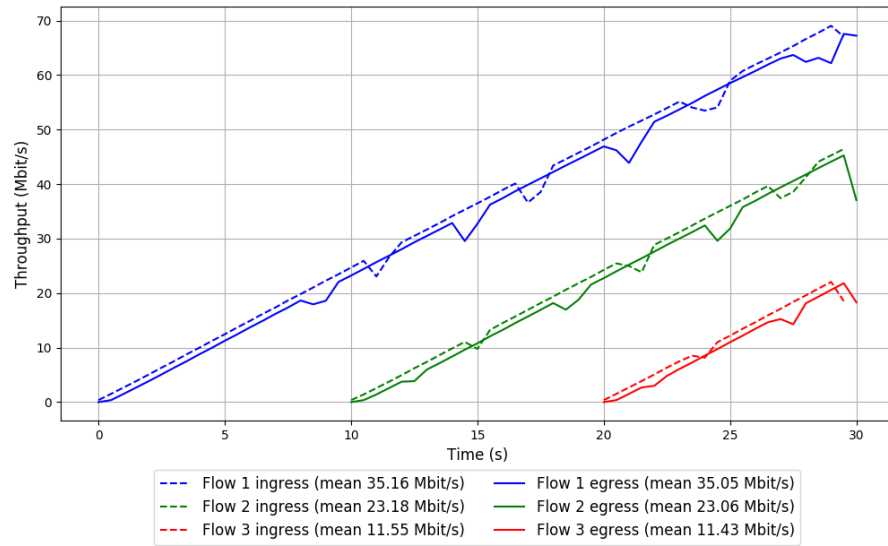


Run 5: Statistics of LEDBAT

Start at: 2018-05-26 15:51:53
End at: 2018-05-26 15:52:23
Local clock offset: -0.272 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.08 Mbit/s
95th percentile per-packet one-way delay: 52.096 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 52.145 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 52.063 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 51.647 ms
Loss rate: 2.07%

Run 5: Report of LEDBAT — Data Link

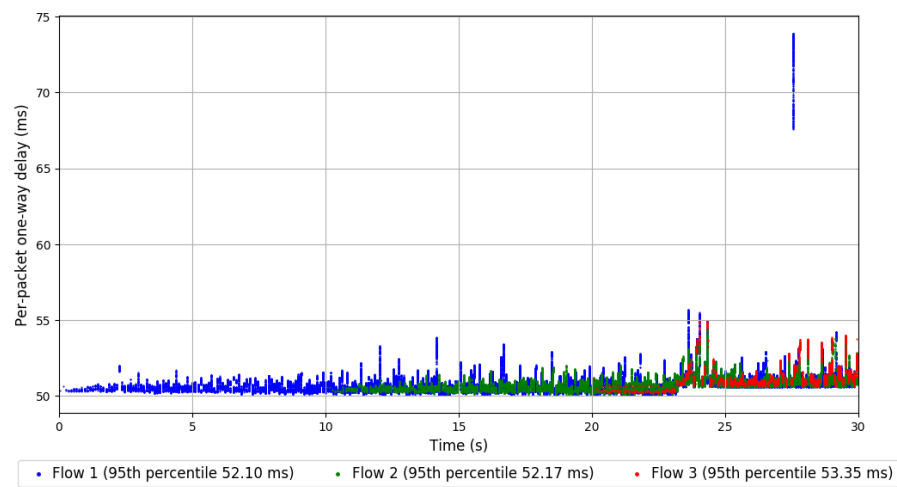
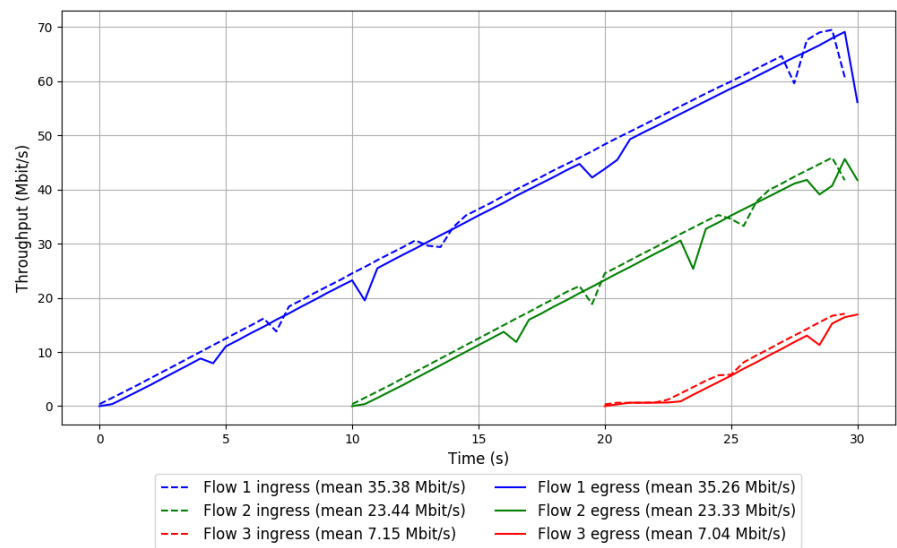


Run 6: Statistics of LEDBAT

Start at: 2018-05-26 16:14:17
End at: 2018-05-26 16:14:47
Local clock offset: -0.287 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 52.187 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 35.26 Mbit/s
95th percentile per-packet one-way delay: 52.098 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 52.170 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 53.352 ms
Loss rate: 2.52%

Run 6: Report of LEDBAT — Data Link

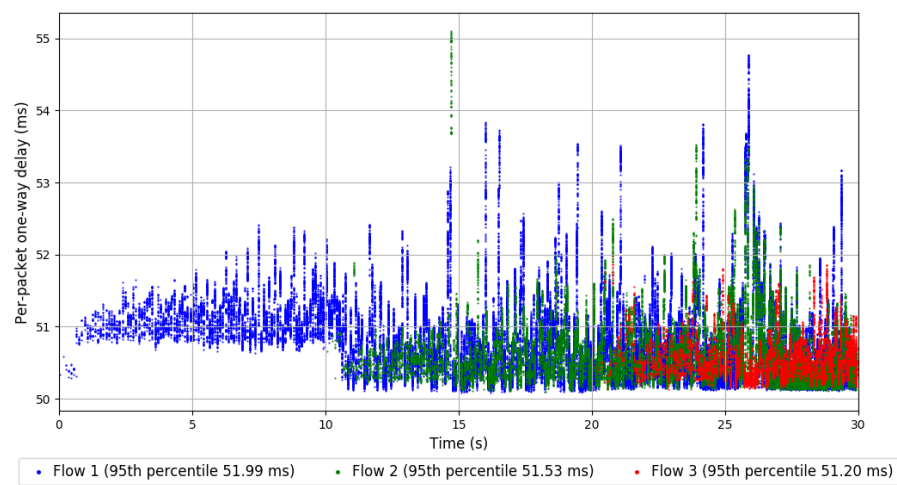
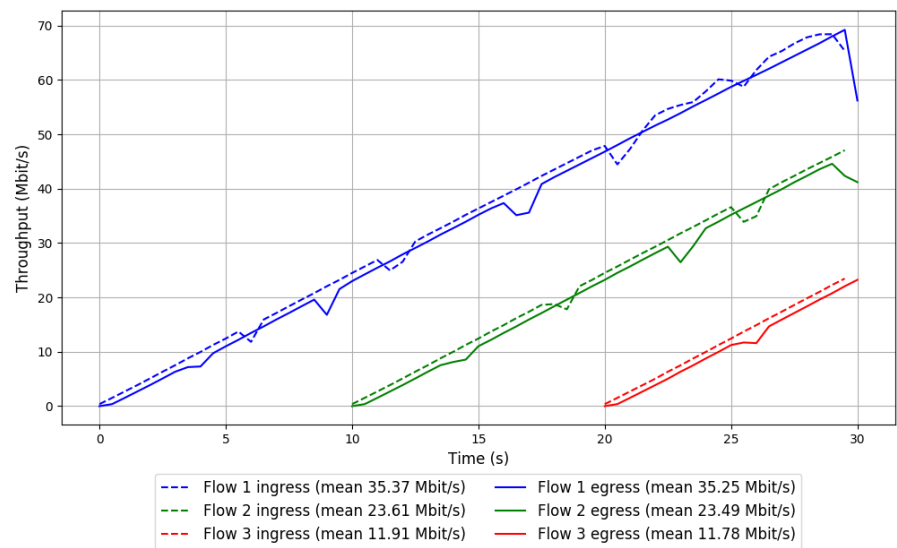


Run 7: Statistics of LEDBAT

Start at: 2018-05-26 16:36:40
End at: 2018-05-26 16:37:10
Local clock offset: -0.282 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-26 19:26:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 51.807 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 51.988 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 51.527 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 51.199 ms
Loss rate: 2.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-26 16:59:11

End at: 2018-05-26 16:59:41

Local clock offset: -0.234 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-26 19:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 52.240 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 52.068 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 52.816 ms

Loss rate: 1.01%

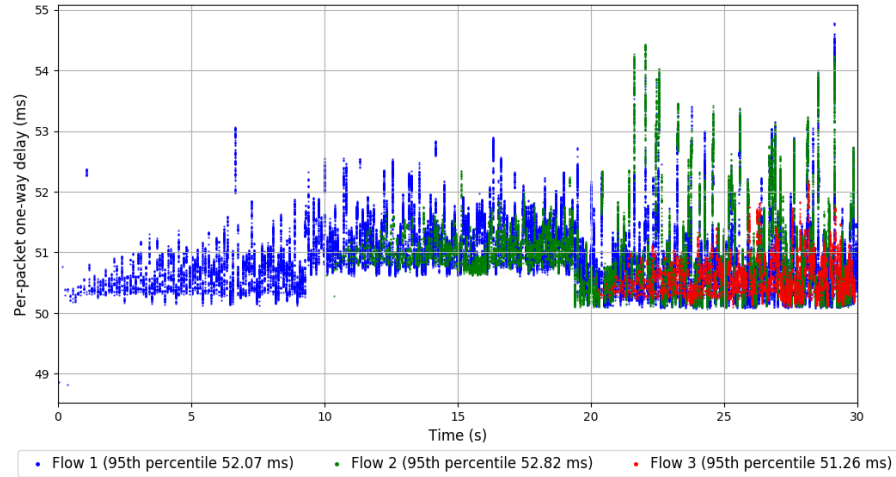
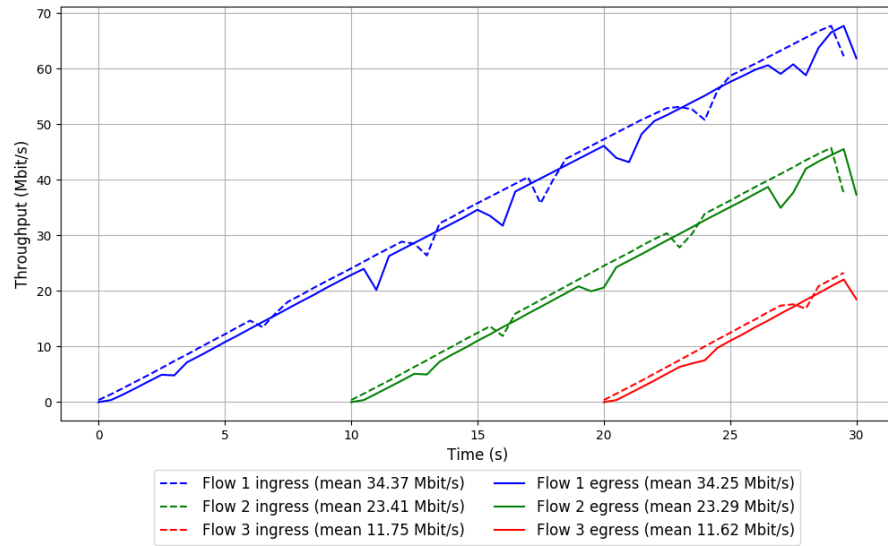
-- Flow 3:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 51.262 ms

Loss rate: 2.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-26 17:21:37

End at: 2018-05-26 17:22:07

Local clock offset: 0.163 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-05-26 19:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.51 Mbit/s

95th percentile per-packet one-way delay: 52.937 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 52.905 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 23.75 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 1.00%

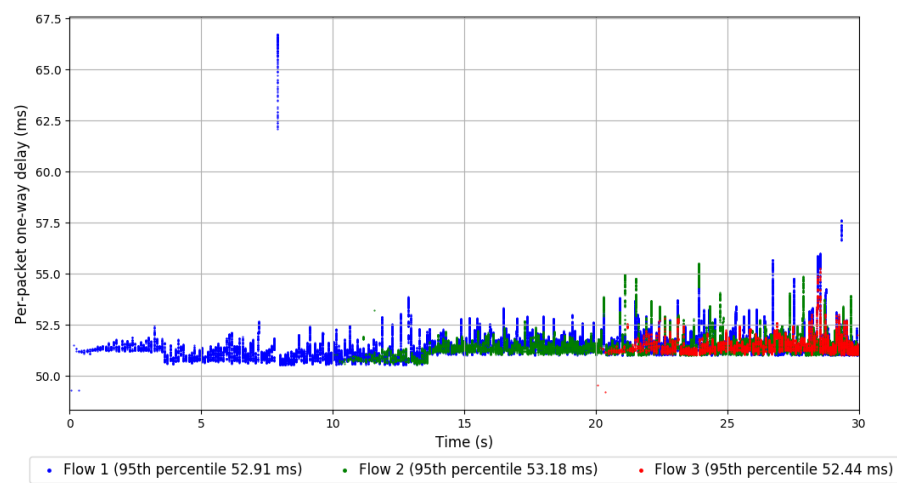
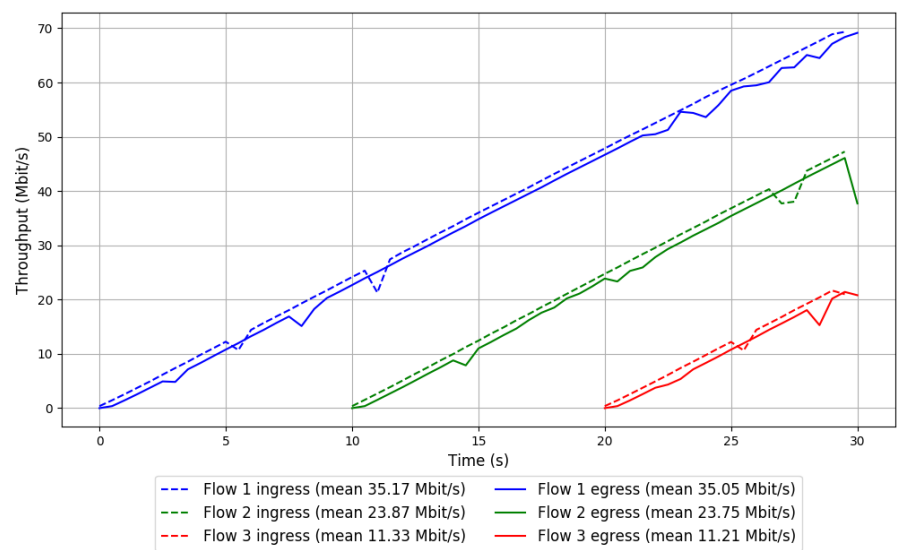
-- Flow 3:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 52.440 ms

Loss rate: 2.05%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-26 17:44:03

End at: 2018-05-26 17:44:33

Local clock offset: -0.196 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-26 19:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.46 Mbit/s

95th percentile per-packet one-way delay: 51.272 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 34.82 Mbit/s

95th percentile per-packet one-way delay: 51.178 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 24.23 Mbit/s

95th percentile per-packet one-way delay: 51.381 ms

Loss rate: 0.99%

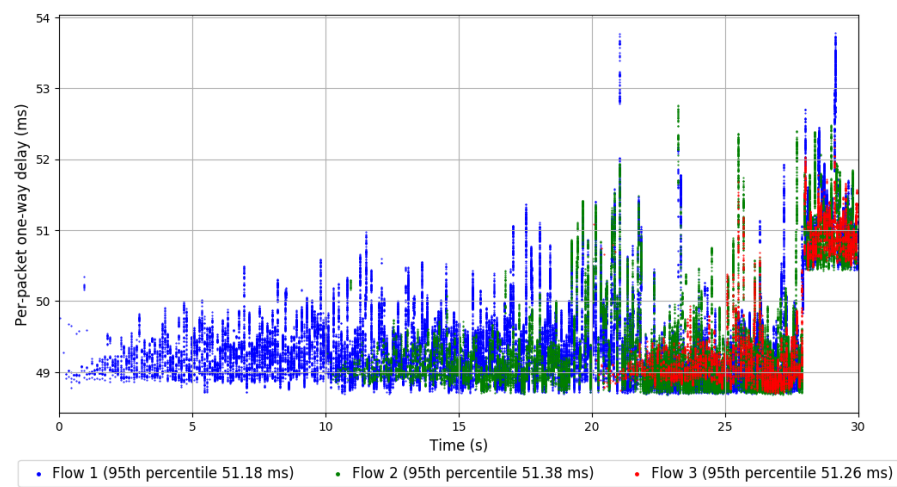
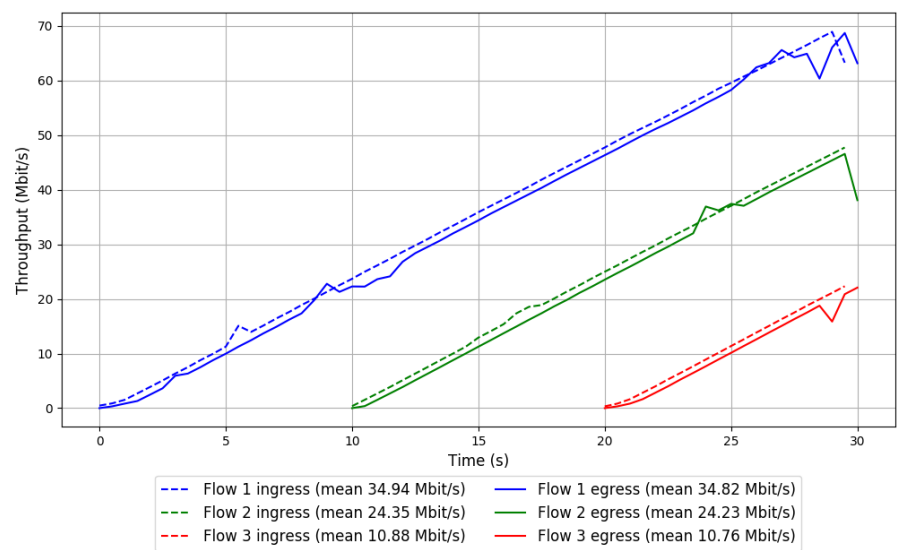
-- Flow 3:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 51.264 ms

Loss rate: 2.11%

Run 10: Report of LEDBAT — Data Link

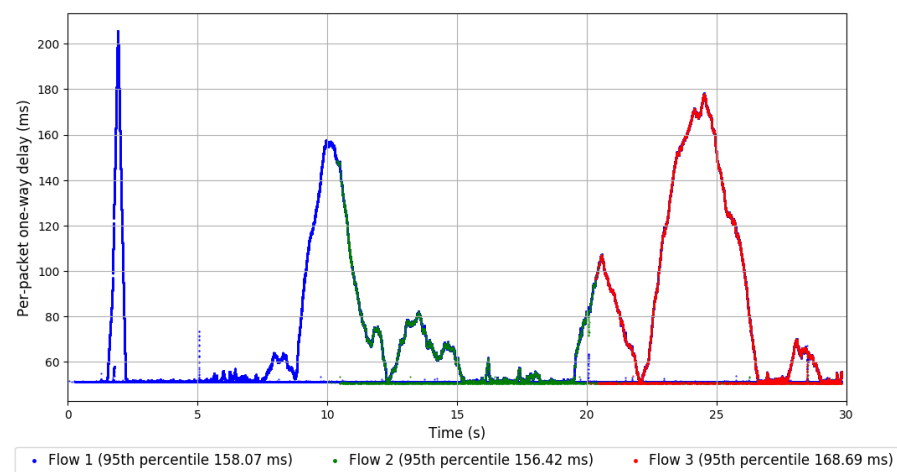
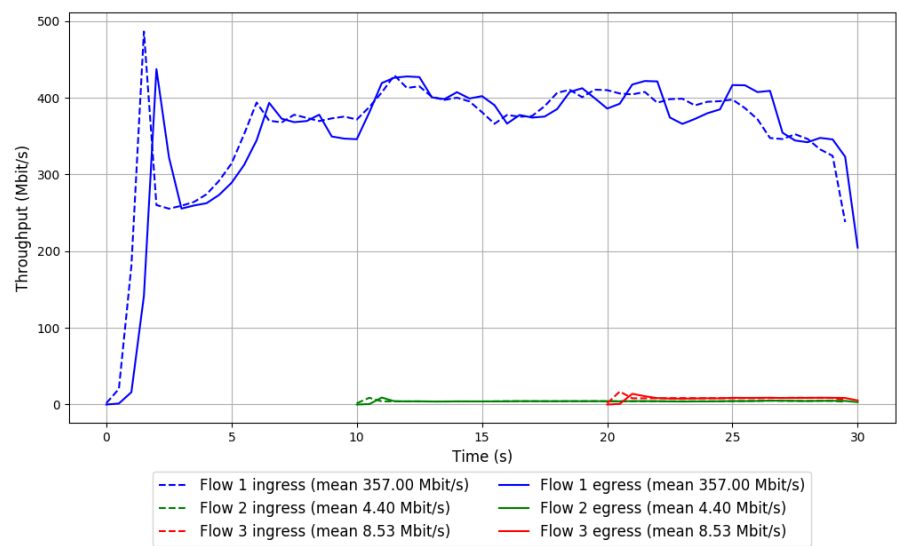


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-26 14:18:20
End at: 2018-05-26 14:18:50
Local clock offset: 0.19 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 362.71 Mbit/s
95th percentile per-packet one-way delay: 158.205 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 357.00 Mbit/s
95th percentile per-packet one-way delay: 158.072 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 156.424 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 168.686 ms
Loss rate: 1.04%

Run 1: Report of PCC-Allegro — Data Link

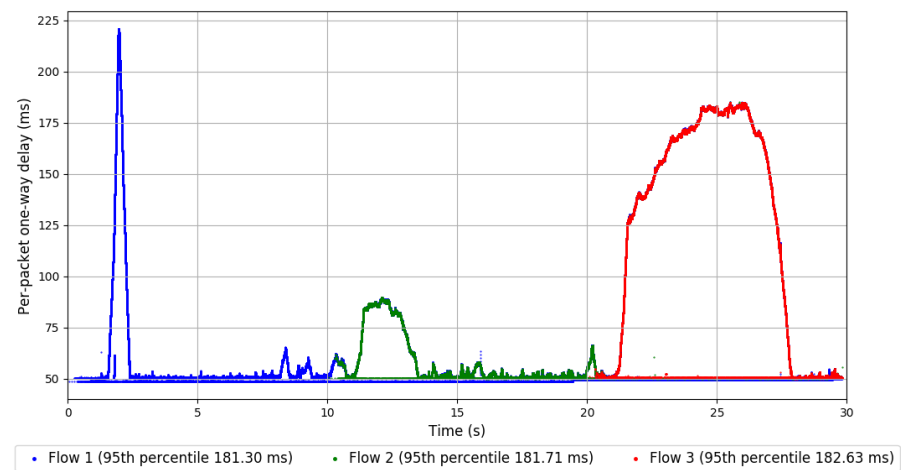
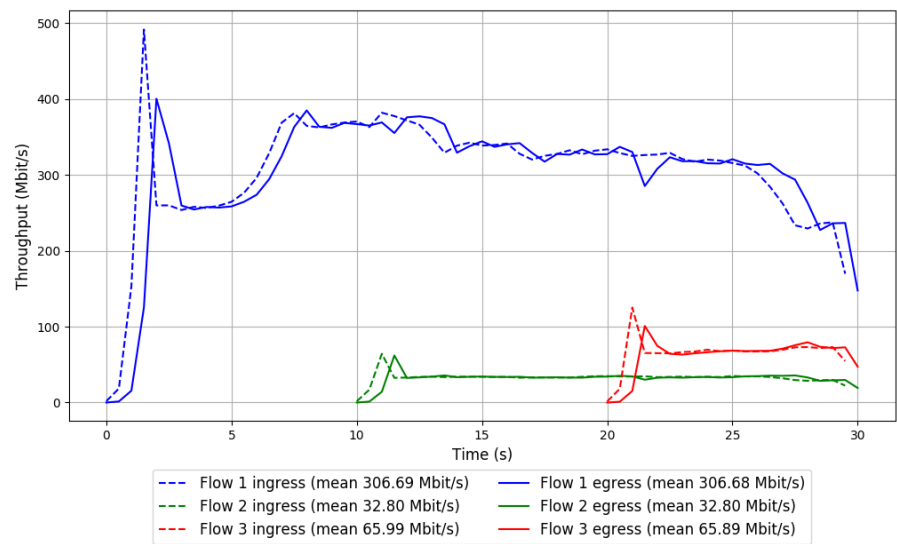


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-26 14:40:31
End at: 2018-05-26 14:41:01
Local clock offset: -0.248 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 349.91 Mbit/s
95th percentile per-packet one-way delay: 181.540 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 306.68 Mbit/s
95th percentile per-packet one-way delay: 181.300 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 181.711 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 65.89 Mbit/s
95th percentile per-packet one-way delay: 182.630 ms
Loss rate: 1.17%

Run 2: Report of PCC-Allegro — Data Link

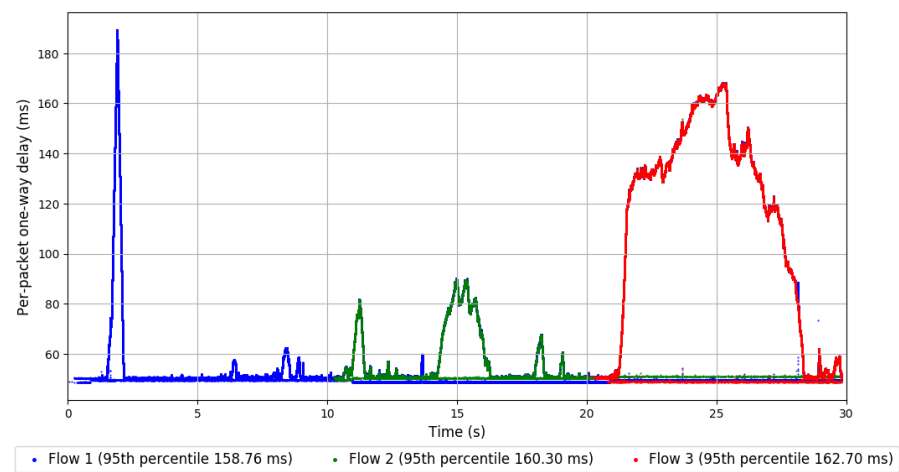
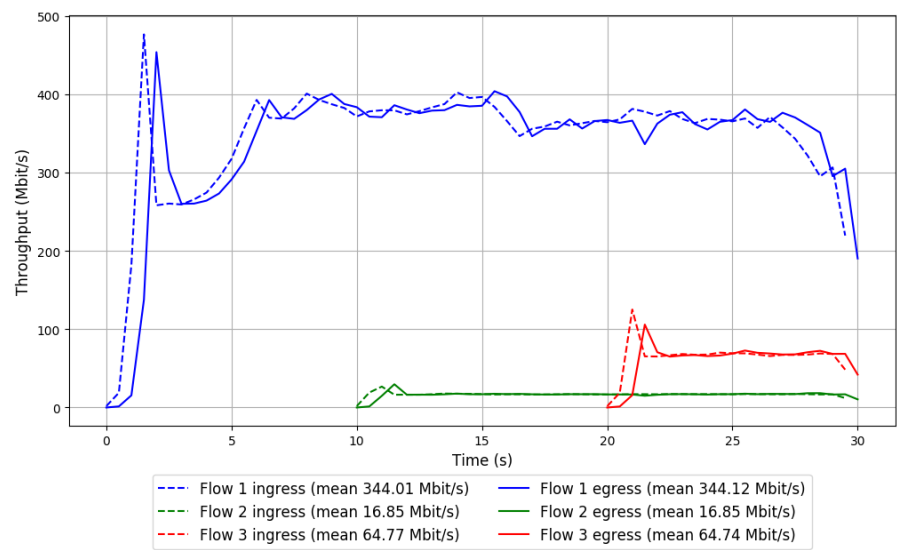


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-26 15:02:50
End at: 2018-05-26 15:03:20
Local clock offset: -0.201 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 376.47 Mbit/s
95th percentile per-packet one-way delay: 159.727 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 344.12 Mbit/s
95th percentile per-packet one-way delay: 158.761 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 16.85 Mbit/s
95th percentile per-packet one-way delay: 160.303 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 64.74 Mbit/s
95th percentile per-packet one-way delay: 162.704 ms
Loss rate: 1.06%

Run 3: Report of PCC-Allegro — Data Link

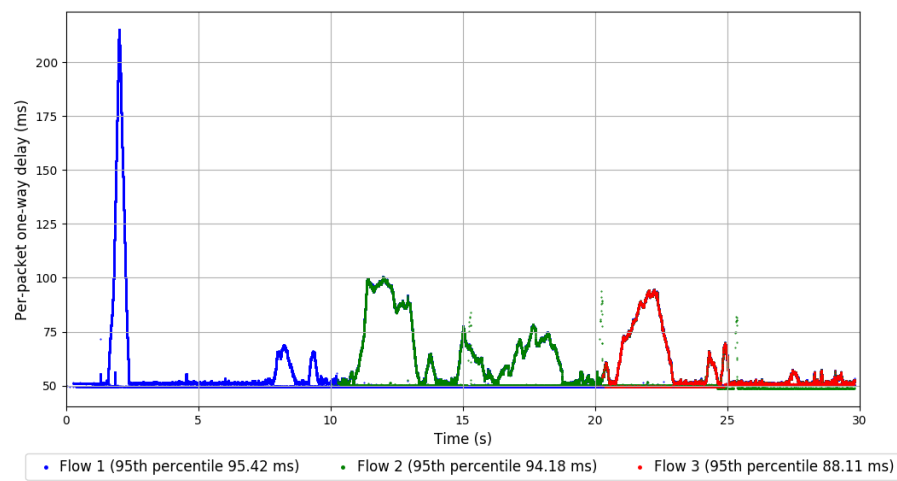
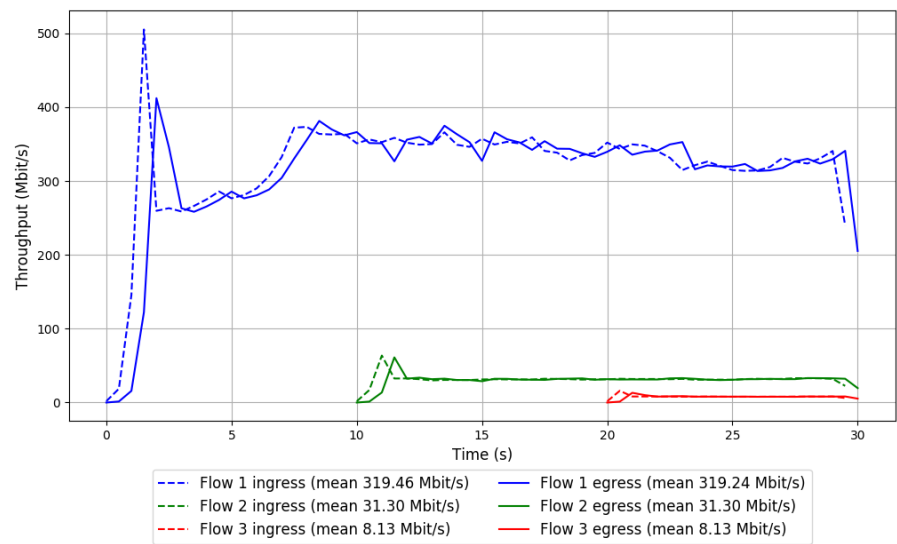


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-26 15:25:16
End at: 2018-05-26 15:25:46
Local clock offset: -0.191 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.68 Mbit/s
95th percentile per-packet one-way delay: 95.243 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 319.24 Mbit/s
95th percentile per-packet one-way delay: 95.420 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 94.176 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 88.113 ms
Loss rate: 1.06%

Run 4: Report of PCC-Allegro — Data Link

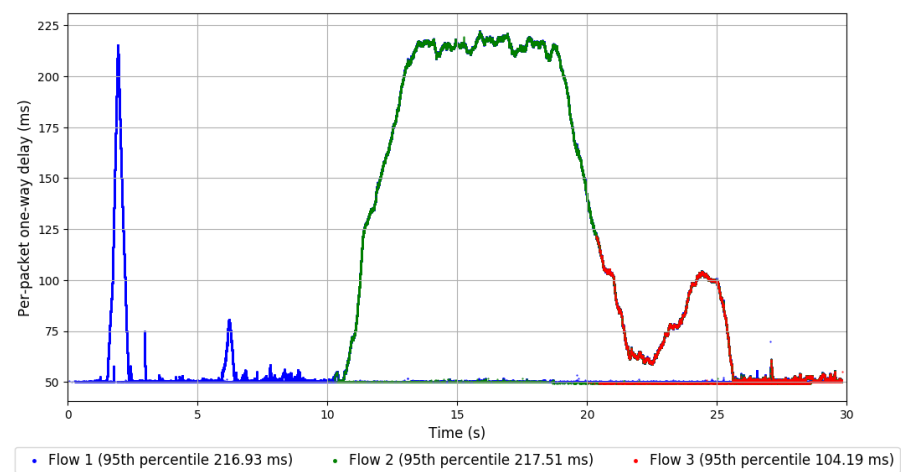
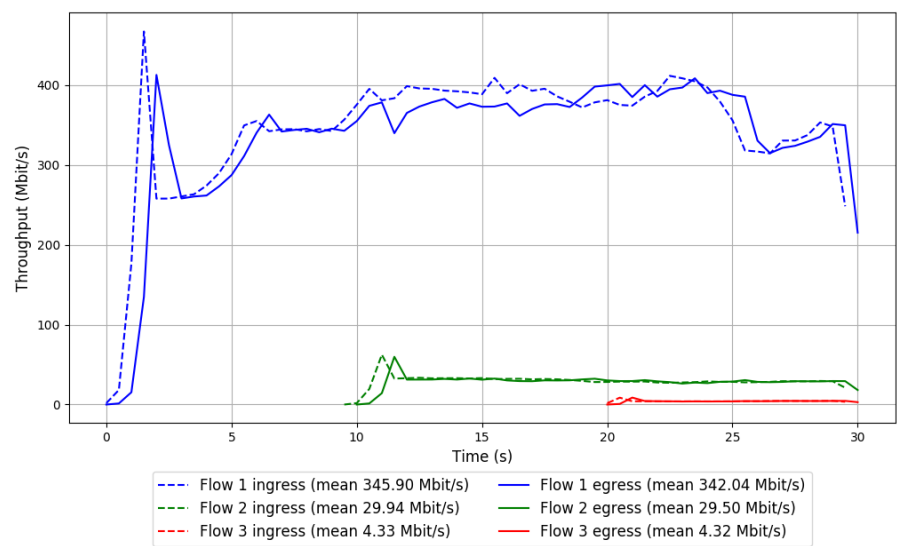


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-26 15:47:42
End at: 2018-05-26 15:48:12
Local clock offset: -0.28 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 362.98 Mbit/s
95th percentile per-packet one-way delay: 216.962 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 342.04 Mbit/s
95th percentile per-packet one-way delay: 216.928 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 217.513 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 104.185 ms
Loss rate: 1.18%

Run 5: Report of PCC-Allegro — Data Link

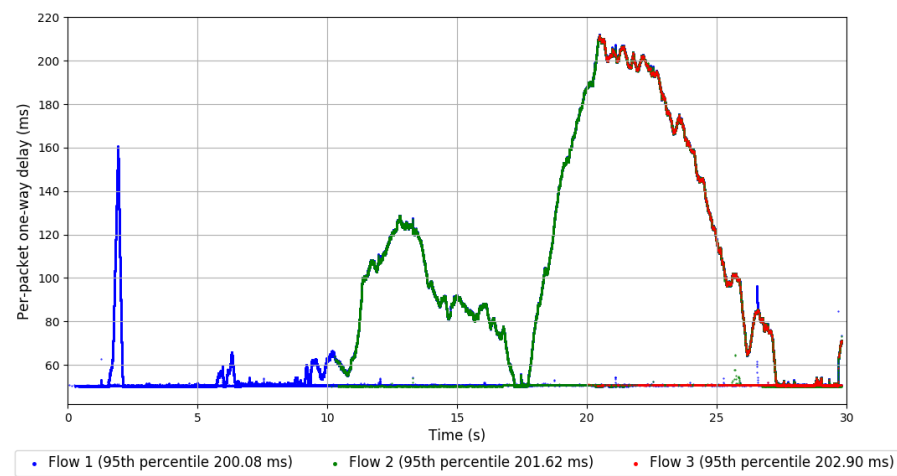
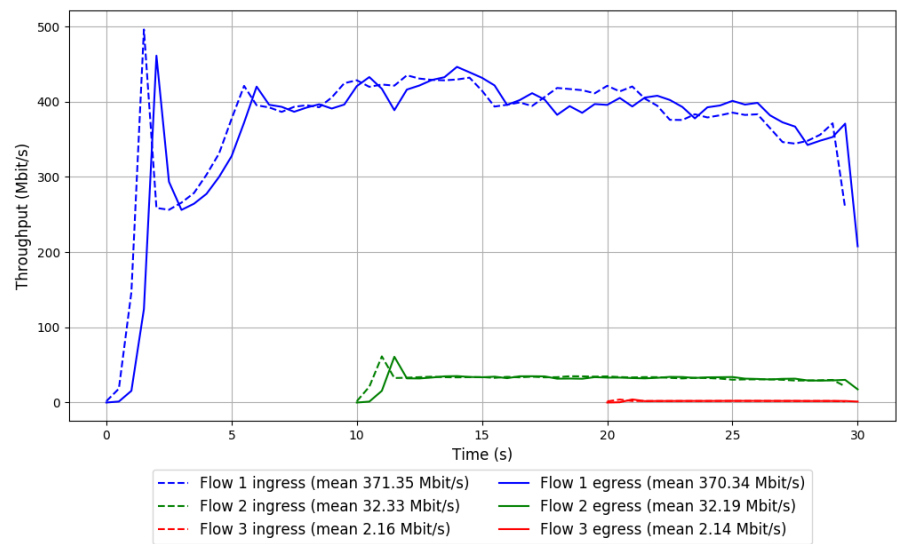


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-26 16:10:04
End at: 2018-05-26 16:10:34
Local clock offset: -0.239 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 392.41 Mbit/s
95th percentile per-packet one-way delay: 200.200 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 370.34 Mbit/s
95th percentile per-packet one-way delay: 200.078 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 201.624 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 202.903 ms
Loss rate: 2.08%

Run 6: Report of PCC-Allegro — Data Link

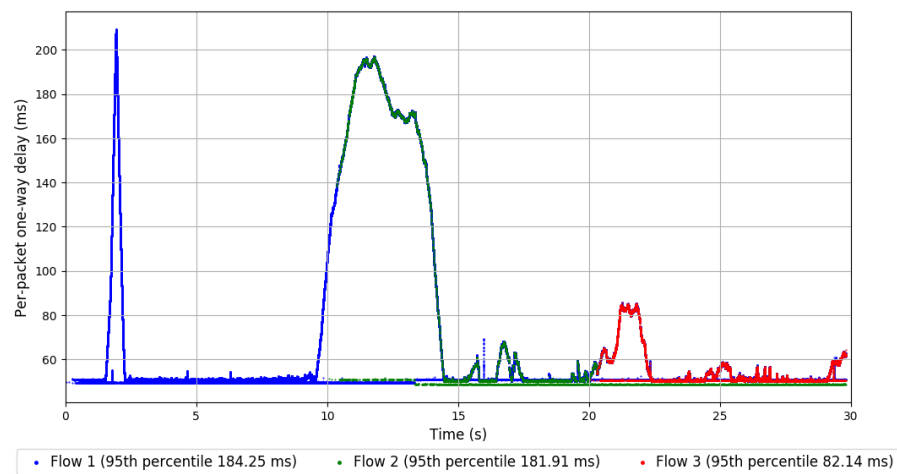
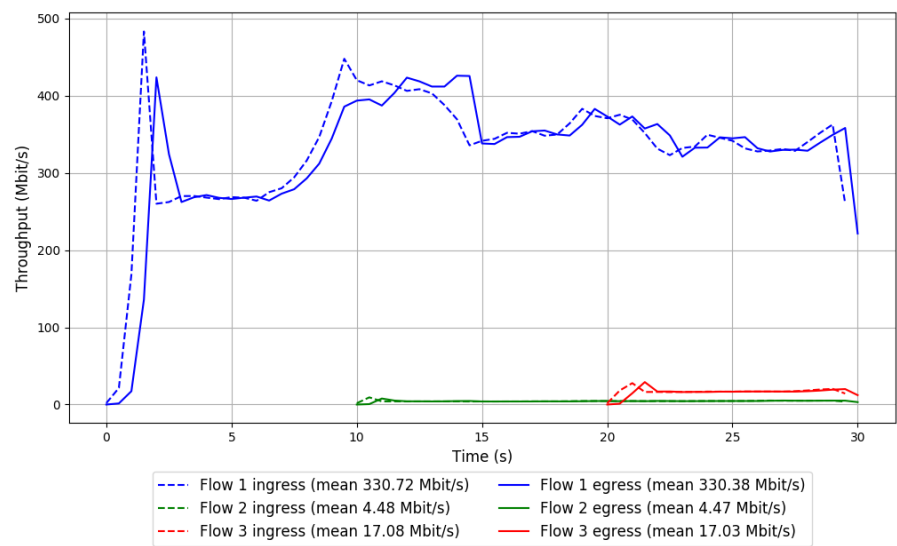


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-26 16:32:27
End at: 2018-05-26 16:32:57
Local clock offset: -0.311 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-05-26 19:26:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.90 Mbit/s
95th percentile per-packet one-way delay: 183.550 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 330.38 Mbit/s
95th percentile per-packet one-way delay: 184.251 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 181.911 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 82.143 ms
Loss rate: 1.31%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 16:54:57

End at: 2018-05-26 16:55:27

Local clock offset: -0.179 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-05-26 19:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.37 Mbit/s

95th percentile per-packet one-way delay: 140.573 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 335.84 Mbit/s

95th percentile per-packet one-way delay: 140.553 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 140.309 ms

Loss rate: 0.63%

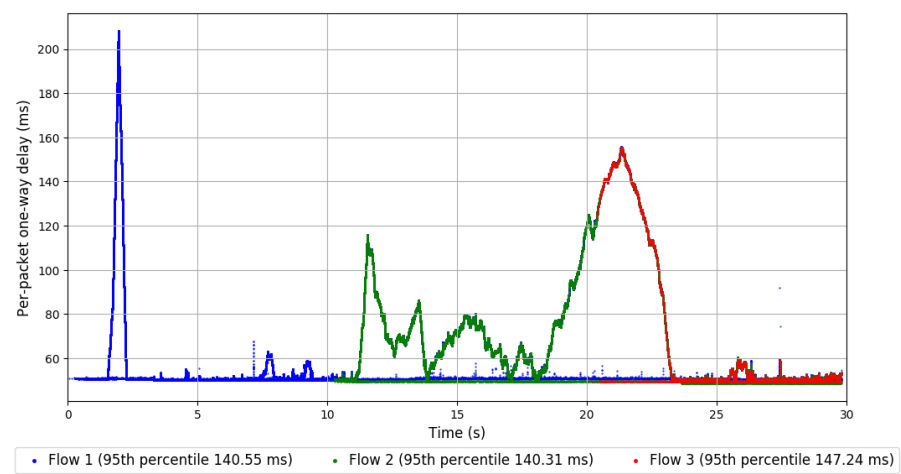
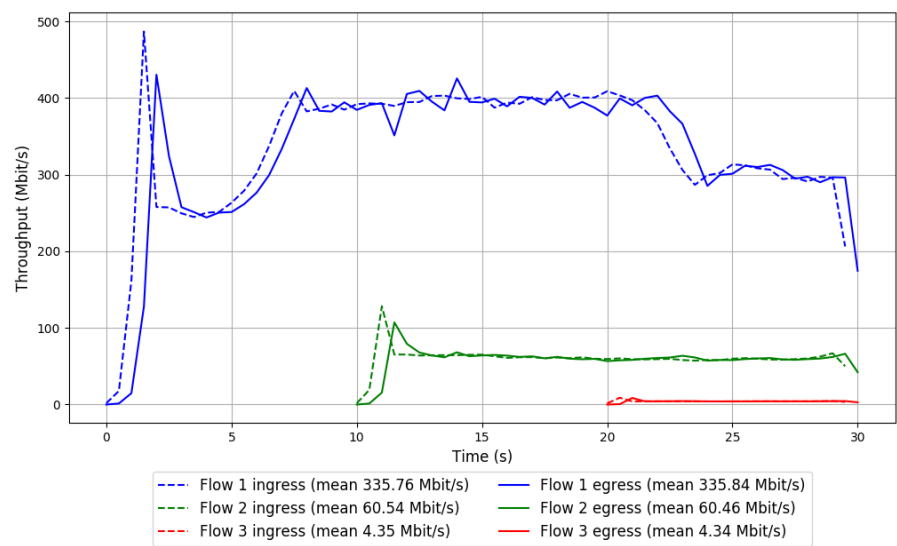
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 147.236 ms

Loss rate: 1.15%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

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

End at: 2018-05-26 17:17:55

Local clock offset: -0.175 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-05-26 19:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.28 Mbit/s

95th percentile per-packet one-way delay: 155.823 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 315.60 Mbit/s

95th percentile per-packet one-way delay: 154.984 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 156.883 ms

Loss rate: 0.83%

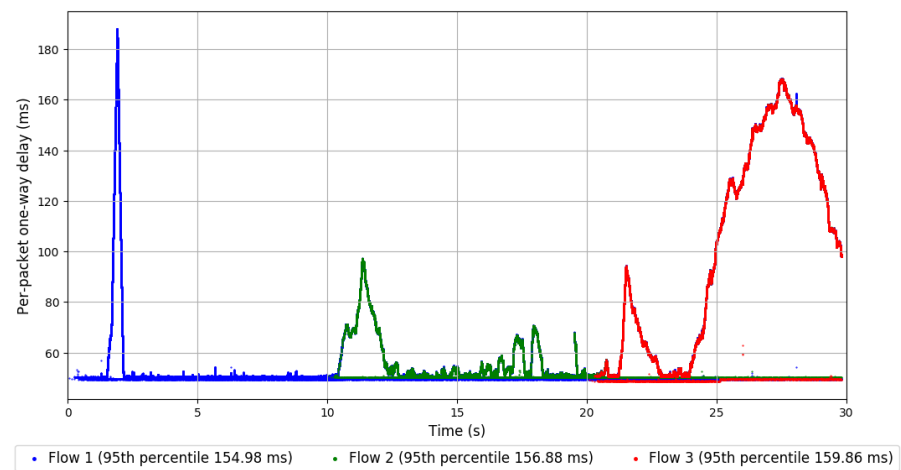
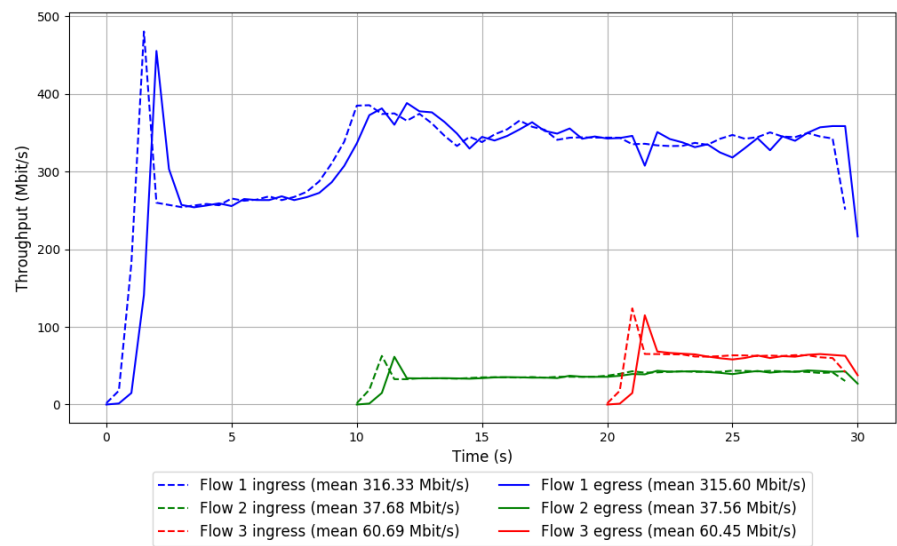
-- Flow 3:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 159.859 ms

Loss rate: 1.40%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 17:39:49

End at: 2018-05-26 17:40:19

Local clock offset: -0.162 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-26 19:26:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.05 Mbit/s

95th percentile per-packet one-way delay: 130.931 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 332.90 Mbit/s

95th percentile per-packet one-way delay: 130.745 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 131.012 ms

Loss rate: 0.56%

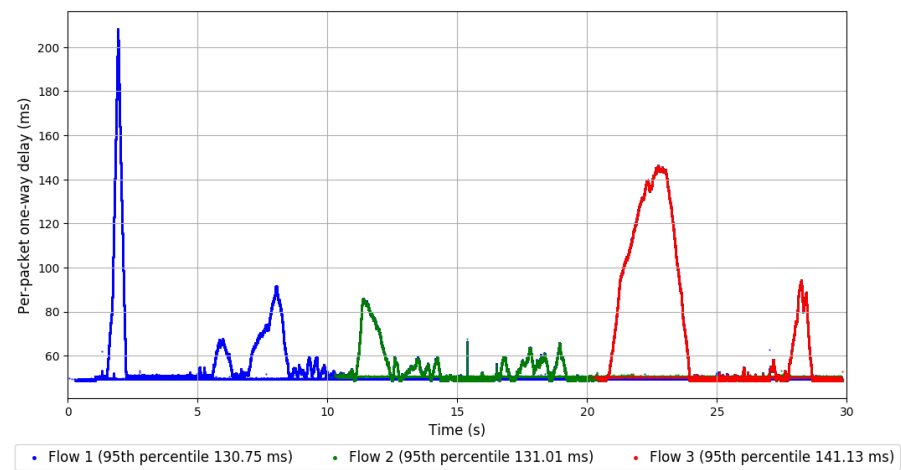
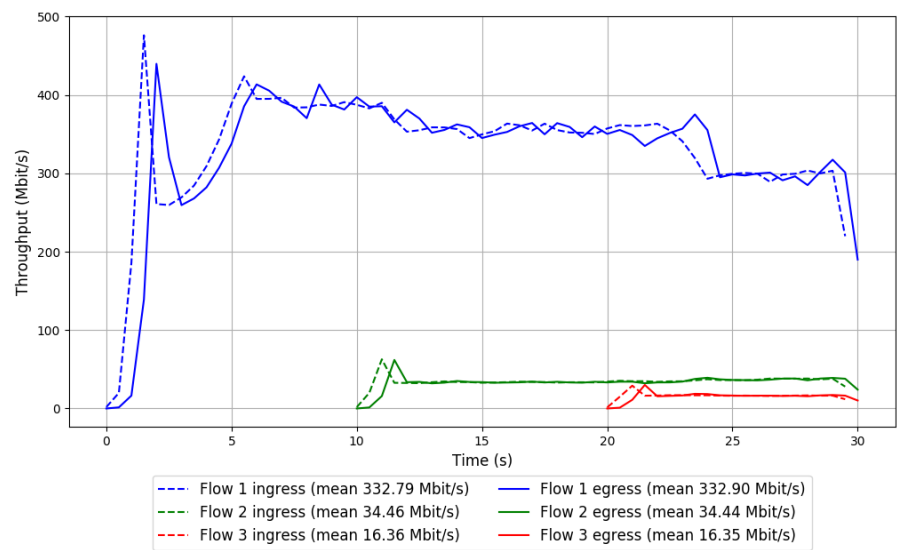
-- Flow 3:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 141.129 ms

Loss rate: 1.01%

Run 10: Report of PCC-Allegro — Data Link

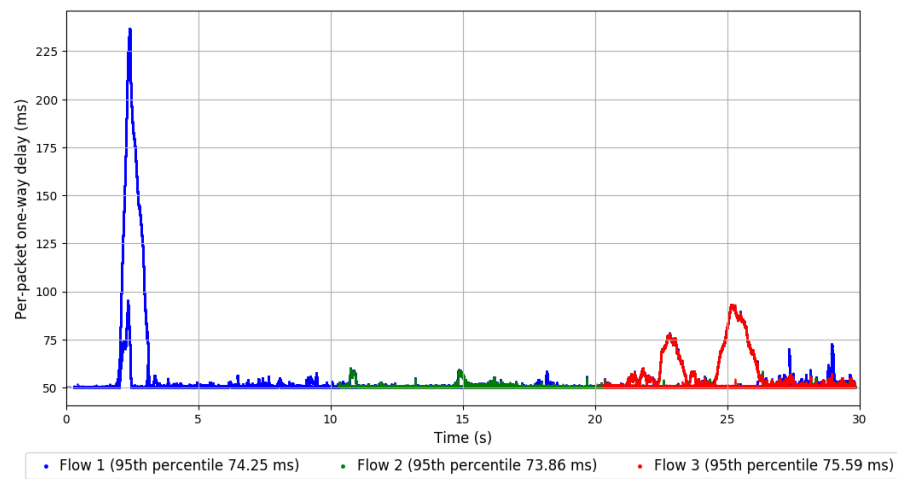
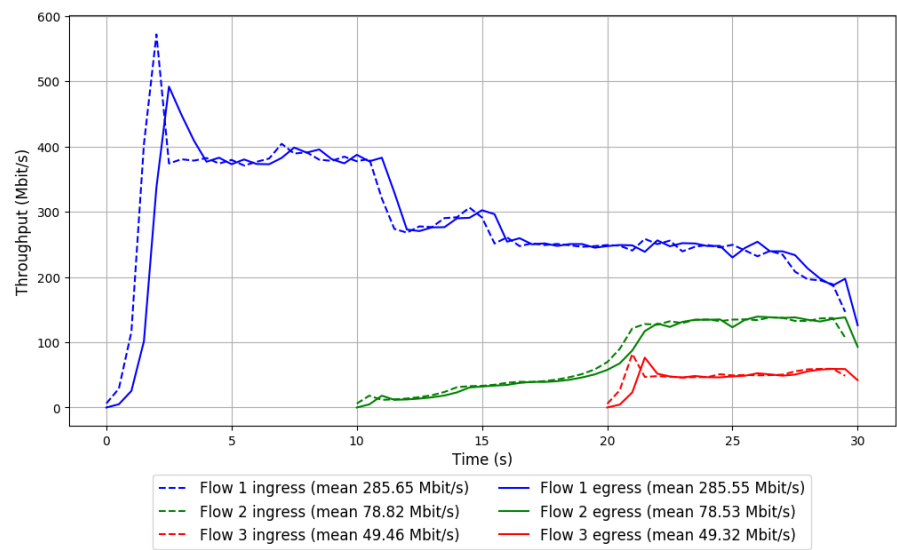


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-26 14:20:55
End at: 2018-05-26 14:21:25
Local clock offset: -0.628 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-05-26 19:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.85 Mbit/s
95th percentile per-packet one-way delay: 74.269 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 285.55 Mbit/s
95th percentile per-packet one-way delay: 74.249 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 73.860 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 75.590 ms
Loss rate: 1.35%
```

Run 1: Report of PCC-Expr — Data Link

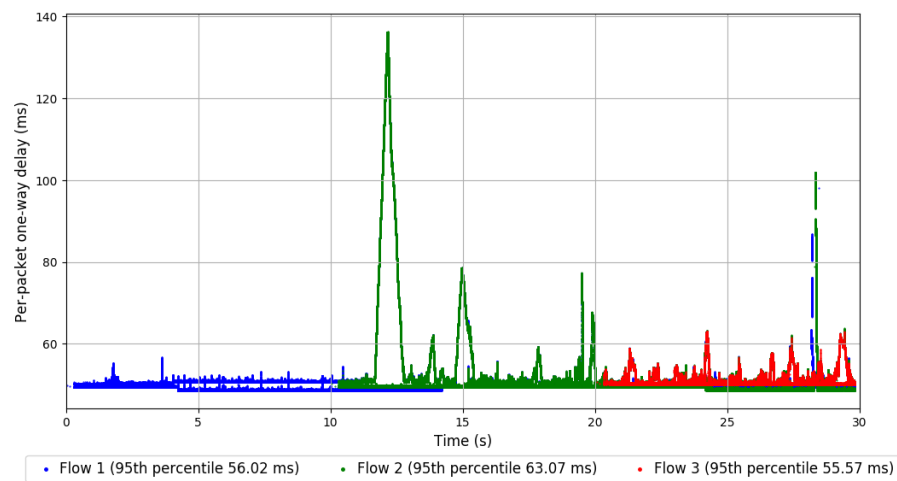
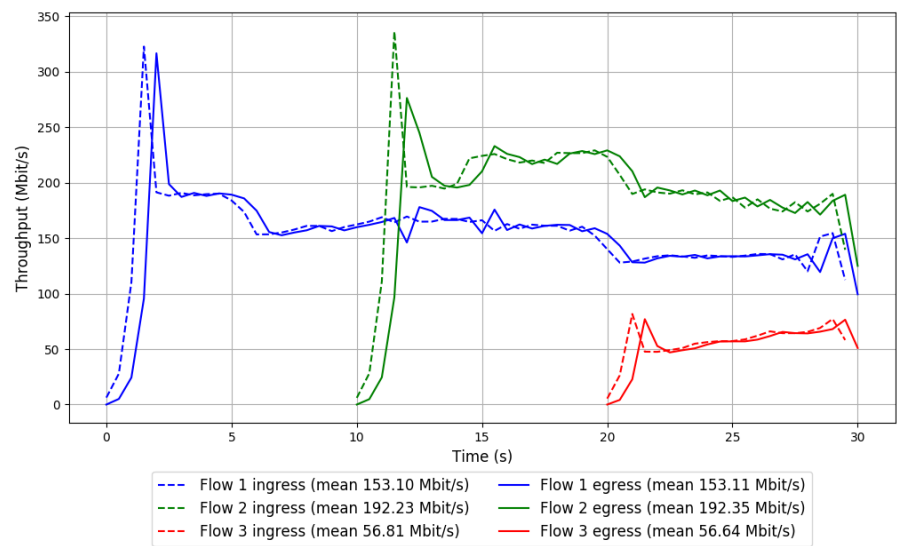


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-26 14:43:06
End at: 2018-05-26 14:43:36
Local clock offset: -0.168 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 19:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.34 Mbit/s
95th percentile per-packet one-way delay: 58.678 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 153.11 Mbit/s
95th percentile per-packet one-way delay: 56.017 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 192.35 Mbit/s
95th percentile per-packet one-way delay: 63.073 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 55.568 ms
Loss rate: 1.41%
```

Run 2: Report of PCC-Expr — Data Link

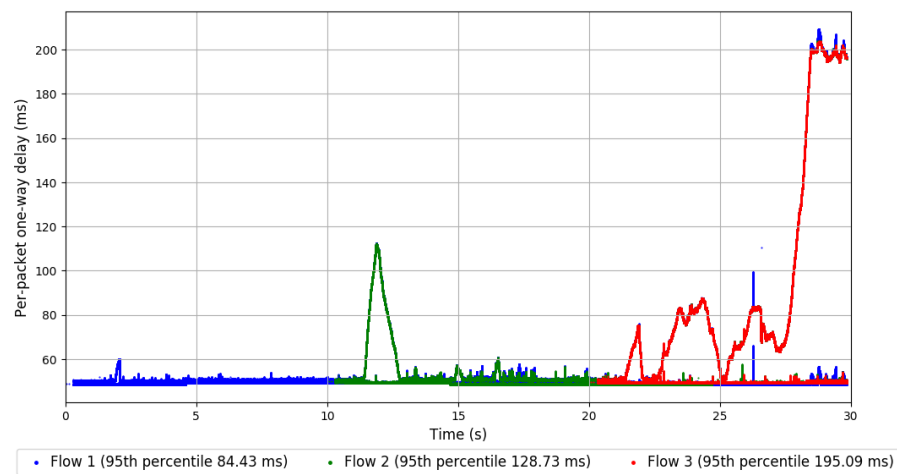
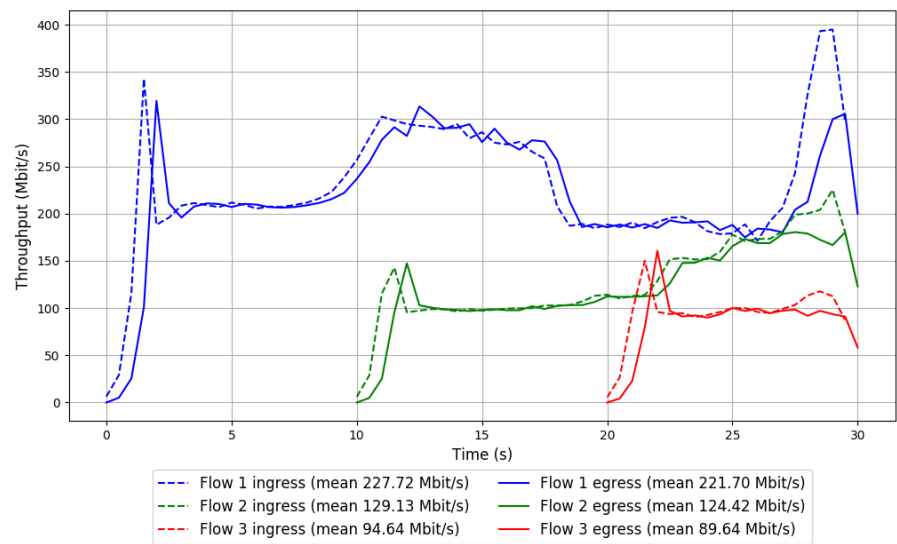


Run 3: Statistics of PCC-Expr

Start at: 2018-05-26 15:05:26
End at: 2018-05-26 15:05:56
Local clock offset: -0.239 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-05-26 19:33:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.67 Mbit/s
95th percentile per-packet one-way delay: 98.139 ms
Loss rate: 3.56%
-- Flow 1:
Average throughput: 221.70 Mbit/s
95th percentile per-packet one-way delay: 84.434 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 124.42 Mbit/s
95th percentile per-packet one-way delay: 128.728 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 195.090 ms
Loss rate: 6.25%

Run 3: Report of PCC-Expr — Data Link

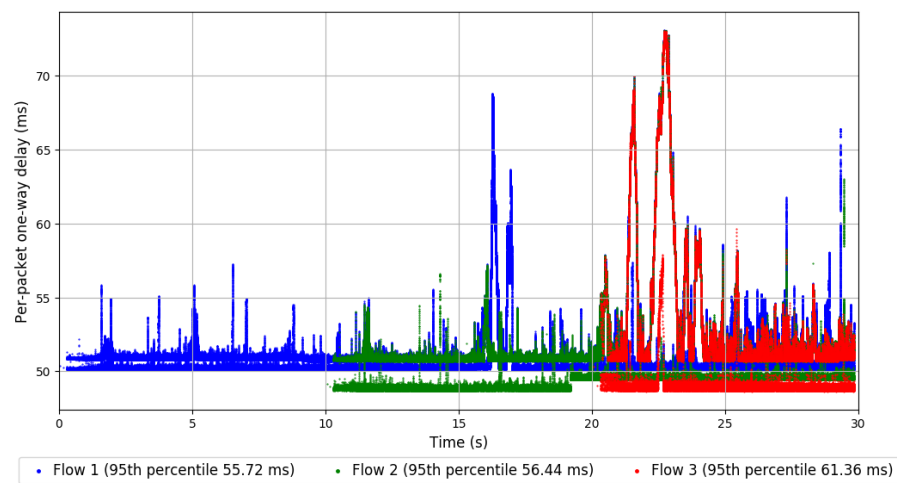
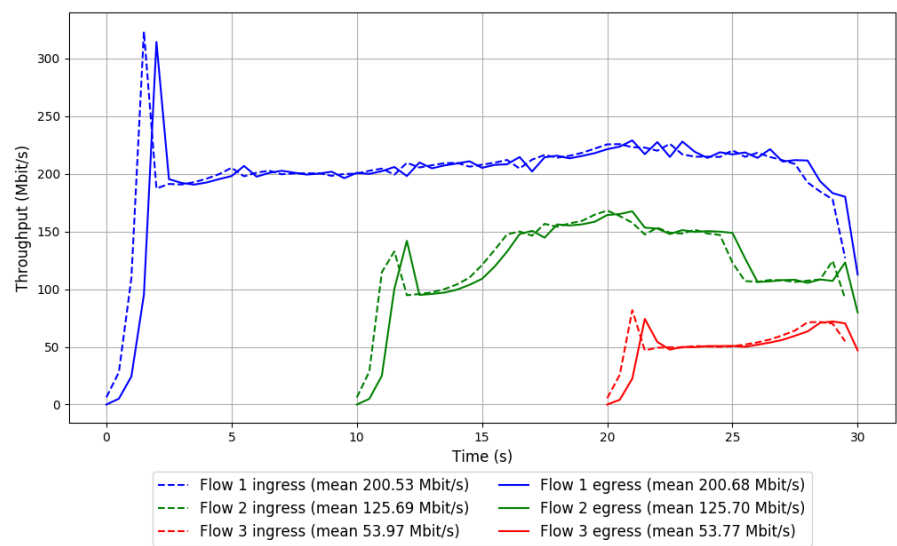


Run 4: Statistics of PCC-Expr

Start at: 2018-05-26 15:27:51
End at: 2018-05-26 15:28:21
Local clock offset: -0.217 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-05-26 19:33:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.74 Mbit/s
95th percentile per-packet one-way delay: 56.365 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 200.68 Mbit/s
95th percentile per-packet one-way delay: 55.720 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 125.70 Mbit/s
95th percentile per-packet one-way delay: 56.438 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 61.356 ms
Loss rate: 1.39%

Run 4: Report of PCC-Expr — Data Link

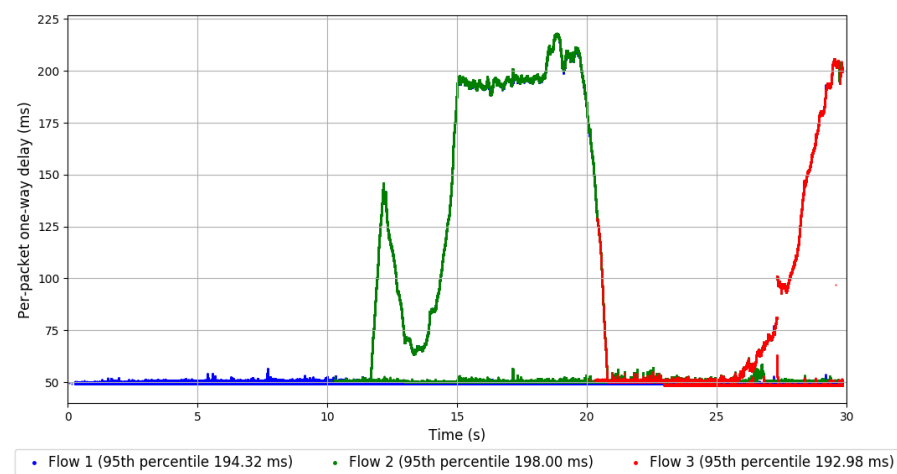
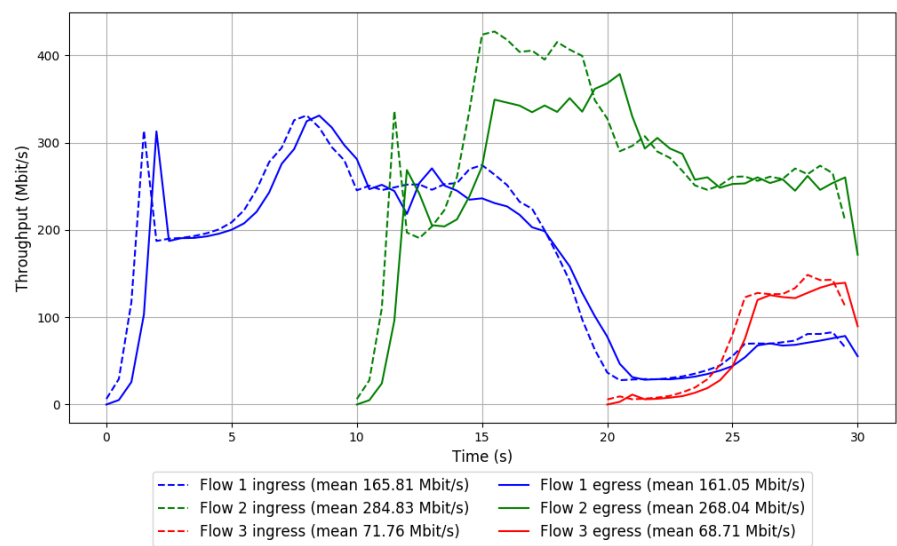


Run 5: Statistics of PCC-Expr

Start at: 2018-05-26 15:50:17
End at: 2018-05-26 15:50:47
Local clock offset: -0.277 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-05-26 19:34:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.58 Mbit/s
95th percentile per-packet one-way delay: 195.997 ms
Loss rate: 4.91%
-- Flow 1:
Average throughput: 161.05 Mbit/s
95th percentile per-packet one-way delay: 194.317 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 268.04 Mbit/s
95th percentile per-packet one-way delay: 198.001 ms
Loss rate: 6.38%
-- Flow 3:
Average throughput: 68.71 Mbit/s
95th percentile per-packet one-way delay: 192.977 ms
Loss rate: 5.26%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-26 16:12:41

End at: 2018-05-26 16:13:11

Local clock offset: -0.307 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-26 19:34:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.59 Mbit/s

95th percentile per-packet one-way delay: 75.014 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 253.43 Mbit/s

95th percentile per-packet one-way delay: 79.215 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 105.77 Mbit/s

95th percentile per-packet one-way delay: 63.013 ms

Loss rate: 0.60%

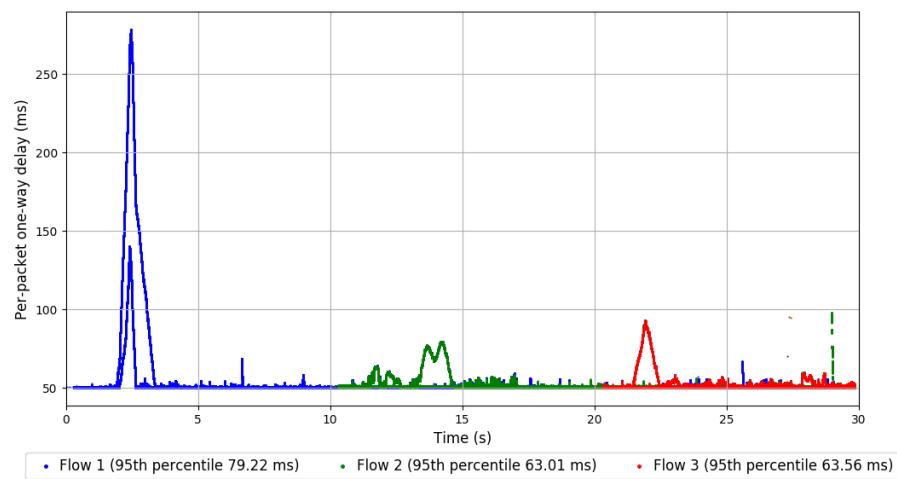
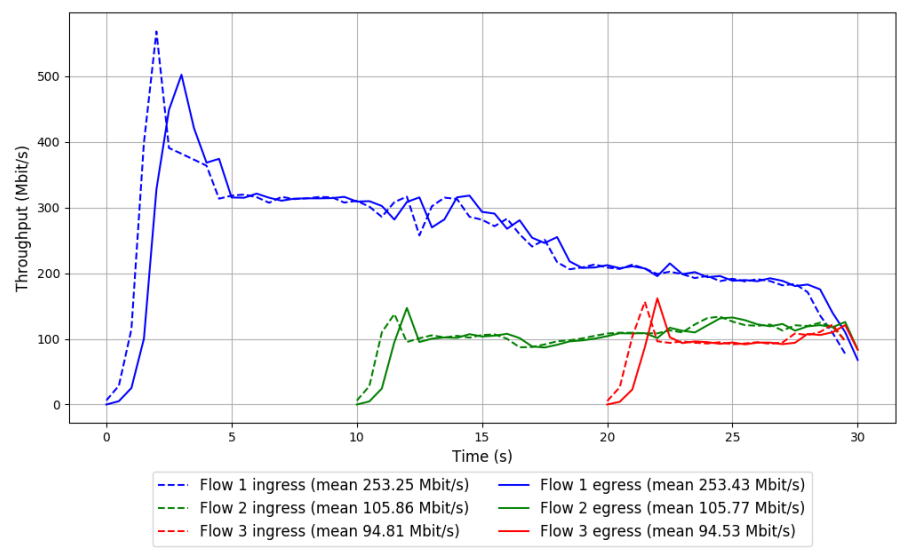
-- Flow 3:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 1.32%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-26 16:35:02

End at: 2018-05-26 16:35:32

Local clock offset: -0.251 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-26 19:36:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.26 Mbit/s

95th percentile per-packet one-way delay: 66.646 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 302.77 Mbit/s

95th percentile per-packet one-way delay: 68.388 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 108.22 Mbit/s

95th percentile per-packet one-way delay: 63.344 ms

Loss rate: 0.68%

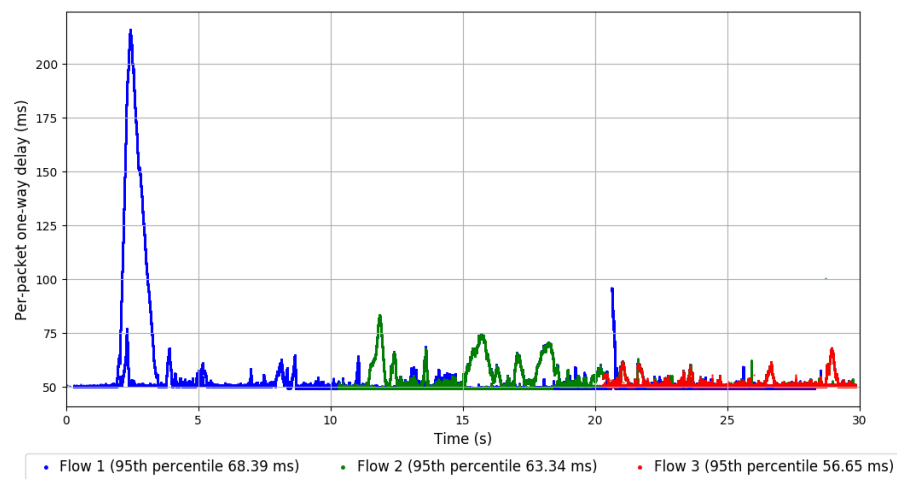
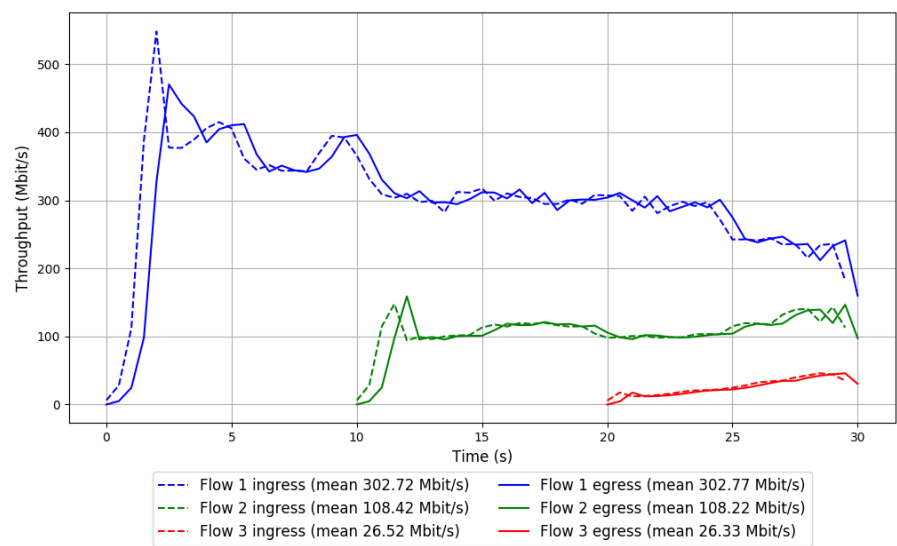
-- Flow 3:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 56.653 ms

Loss rate: 1.73%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-26 16:57:34

End at: 2018-05-26 16:58:04

Local clock offset: -0.622 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-26 19:40:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.90 Mbit/s

95th percentile per-packet one-way delay: 201.758 ms

Loss rate: 3.20%

-- Flow 1:

Average throughput: 283.21 Mbit/s

95th percentile per-packet one-way delay: 196.328 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 89.91 Mbit/s

95th percentile per-packet one-way delay: 202.666 ms

Loss rate: 4.58%

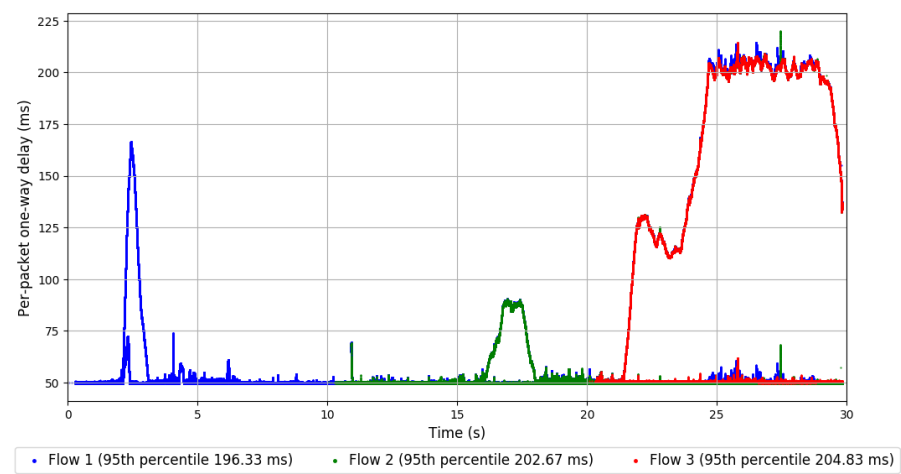
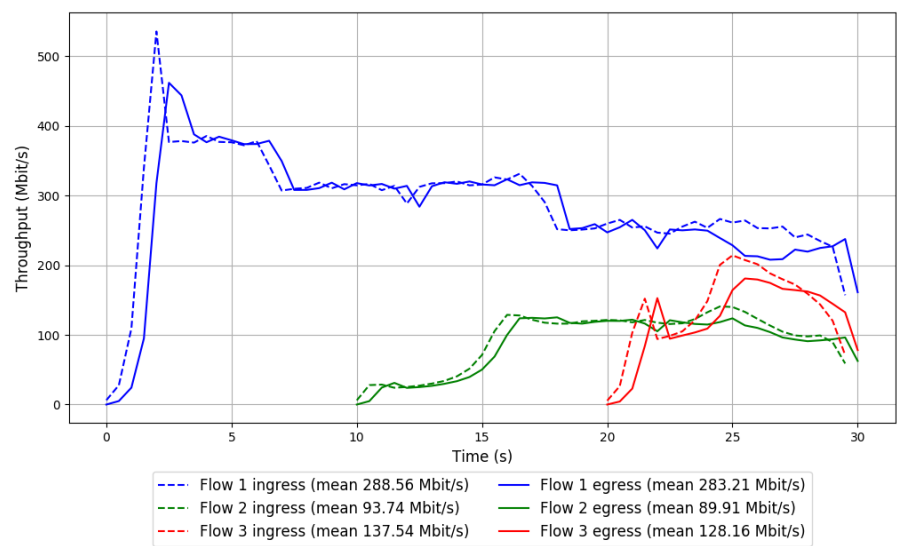
-- Flow 3:

Average throughput: 128.16 Mbit/s

95th percentile per-packet one-way delay: 204.827 ms

Loss rate: 7.79%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 17:20:01

End at: 2018-05-26 17:20:31

Local clock offset: -0.208 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-26 19:42:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 407.79 Mbit/s

95th percentile per-packet one-way delay: 236.974 ms

Loss rate: 3.39%

-- Flow 1:

Average throughput: 359.17 Mbit/s

95th percentile per-packet one-way delay: 239.204 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 64.18 Mbit/s

95th percentile per-packet one-way delay: 206.091 ms

Loss rate: 3.58%

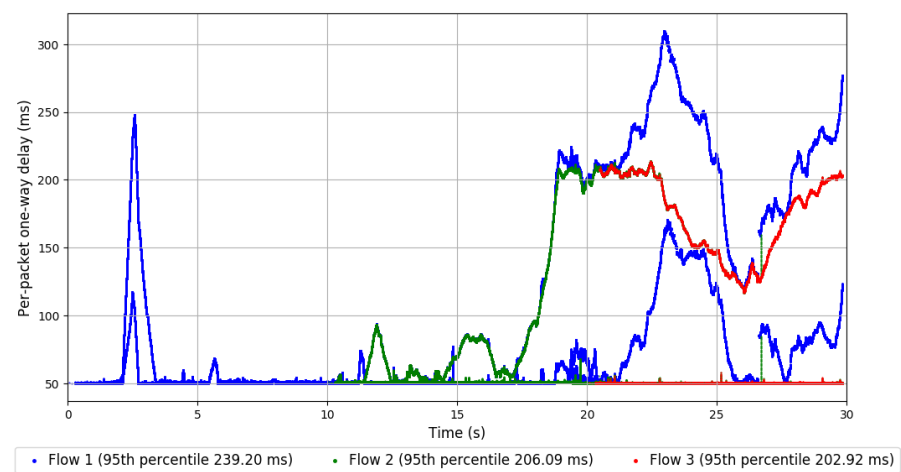
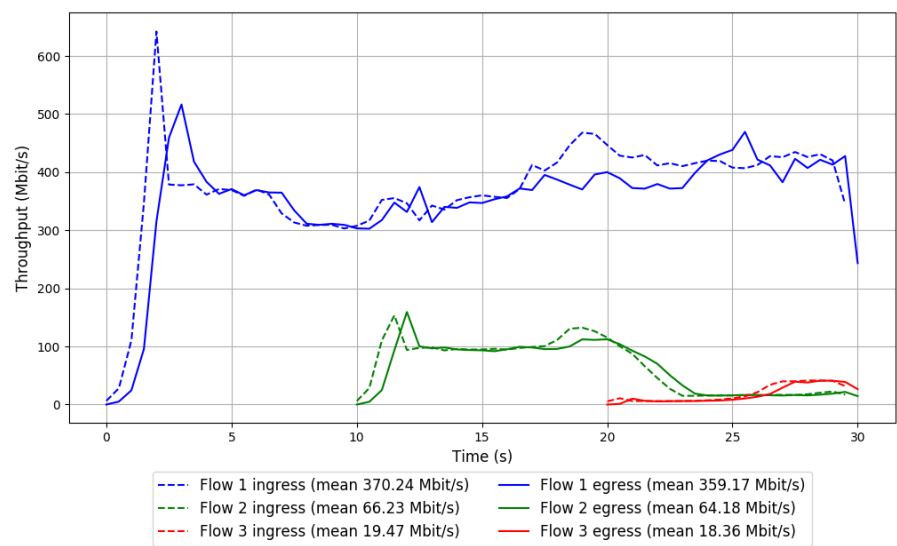
-- Flow 3:

Average throughput: 18.36 Mbit/s

95th percentile per-packet one-way delay: 202.917 ms

Loss rate: 6.64%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 17:42:26

End at: 2018-05-26 17:42:56

Local clock offset: -0.239 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.61 Mbit/s

95th percentile per-packet one-way delay: 312.233 ms

Loss rate: 6.95%

-- Flow 1:

Average throughput: 368.12 Mbit/s

95th percentile per-packet one-way delay: 313.513 ms

Loss rate: 6.81%

-- Flow 2:

Average throughput: 66.16 Mbit/s

95th percentile per-packet one-way delay: 204.317 ms

Loss rate: 7.90%

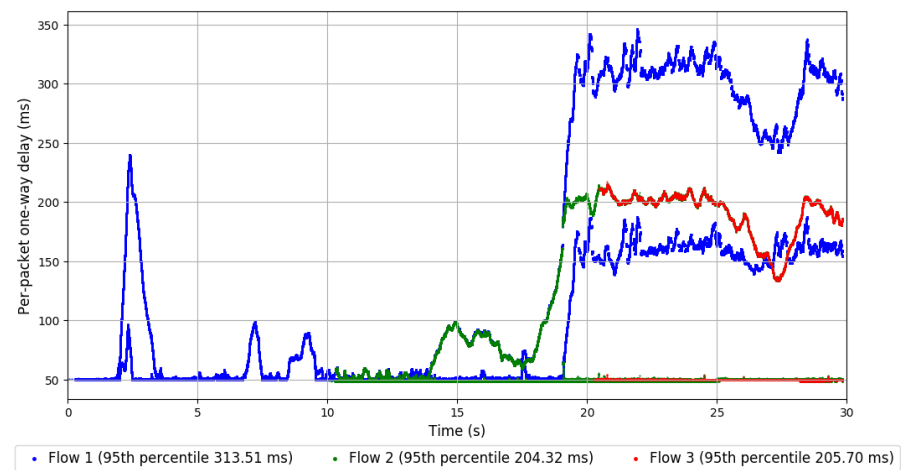
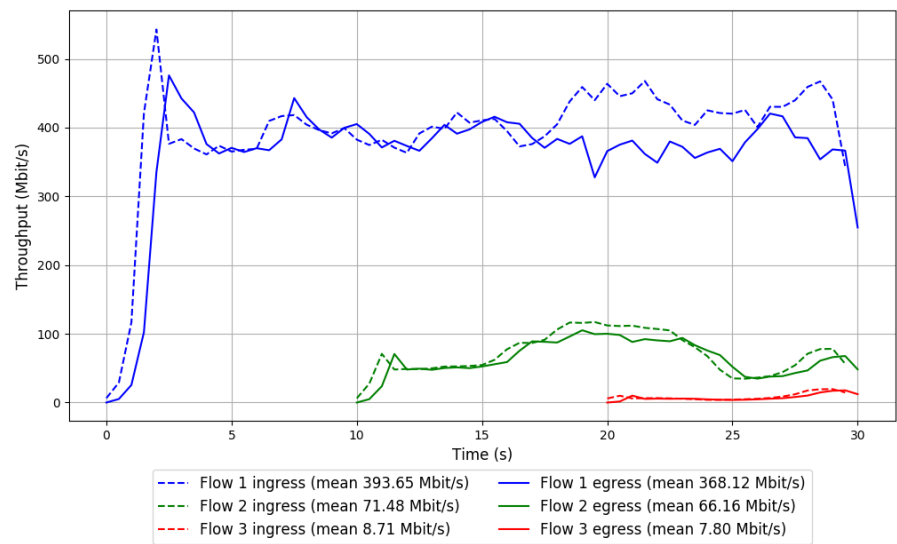
-- Flow 3:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 205.698 ms

Loss rate: 11.42%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-26 14:19:41

End at: 2018-05-26 14:20:11

Local clock offset: -0.244 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.44 Mbit/s

95th percentile per-packet one-way delay: 50.780 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 50.156 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 66.43 Mbit/s

95th percentile per-packet one-way delay: 50.836 ms

Loss rate: 0.45%

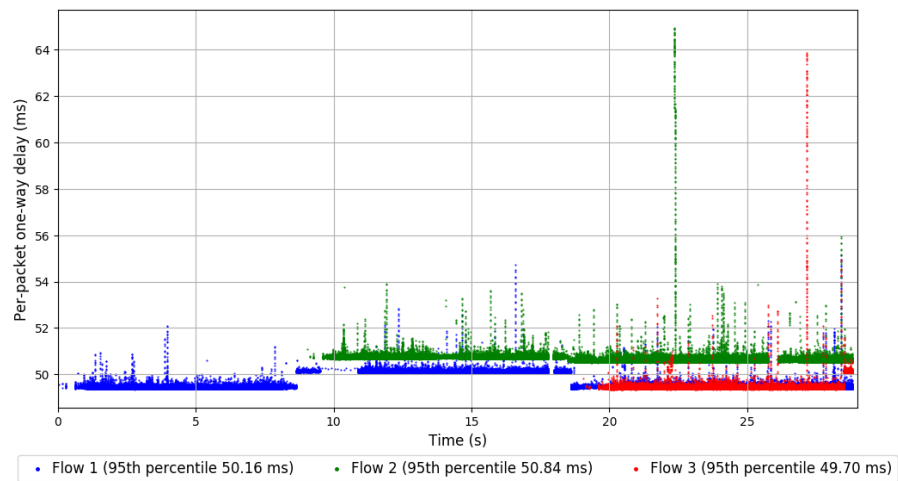
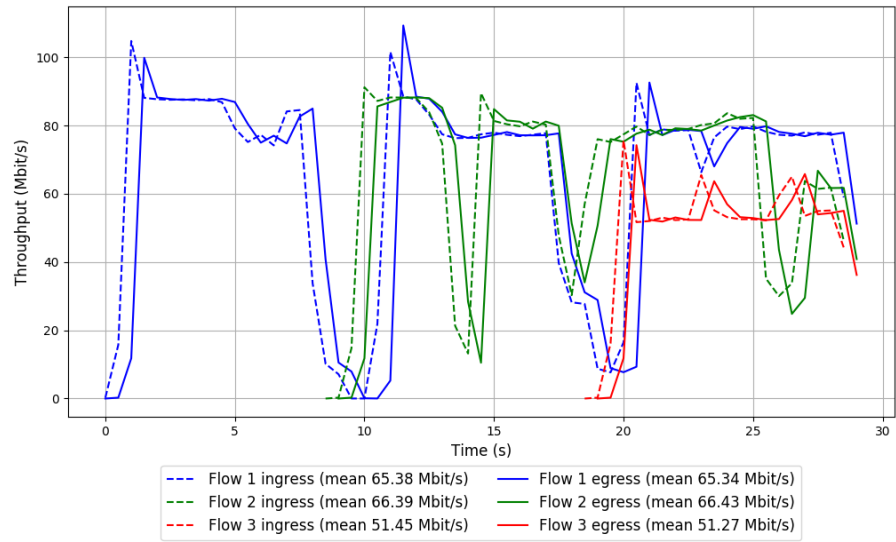
-- Flow 3:

Average throughput: 51.27 Mbit/s

95th percentile per-packet one-way delay: 49.695 ms

Loss rate: 1.34%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-26 14:41:52

End at: 2018-05-26 14:42:22

Local clock offset: 0.171 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 50.578 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 68.22 Mbit/s

95th percentile per-packet one-way delay: 50.592 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 50.579 ms

Loss rate: 0.53%

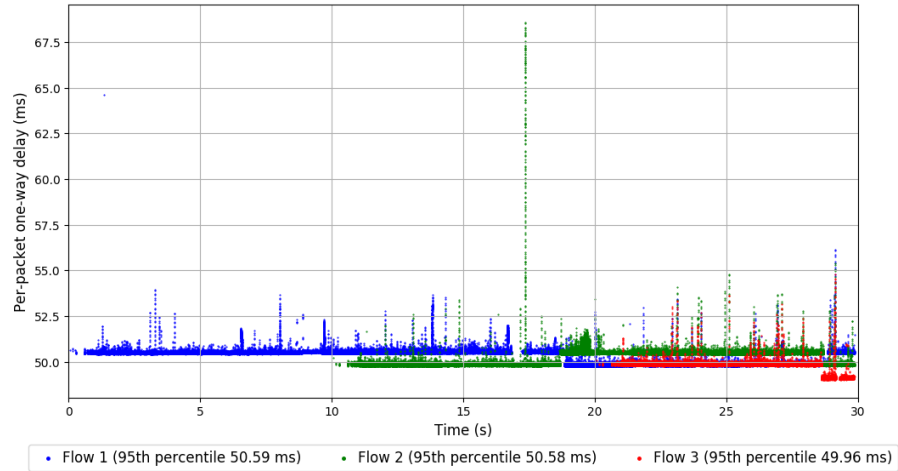
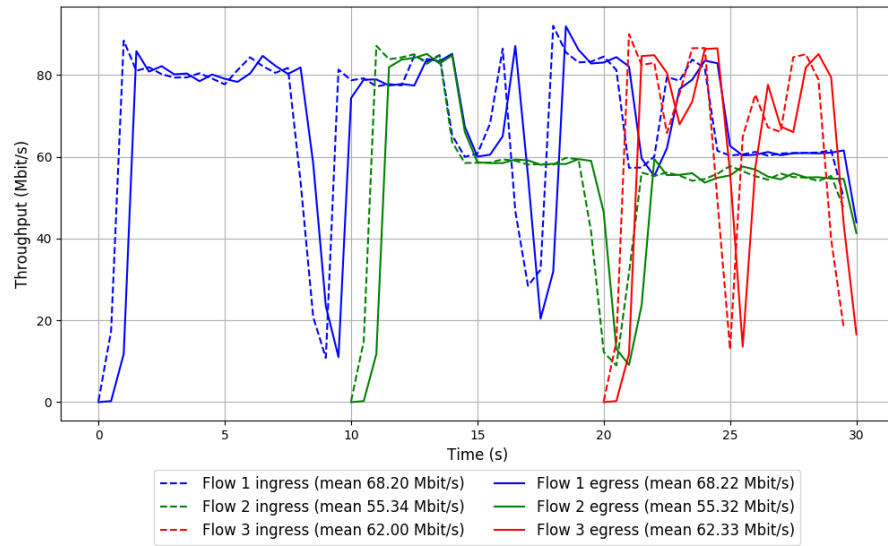
-- Flow 3:

Average throughput: 62.33 Mbit/s

95th percentile per-packet one-way delay: 49.962 ms

Loss rate: 0.48%

Run 2: Report of QUIC Cubic — Data Link

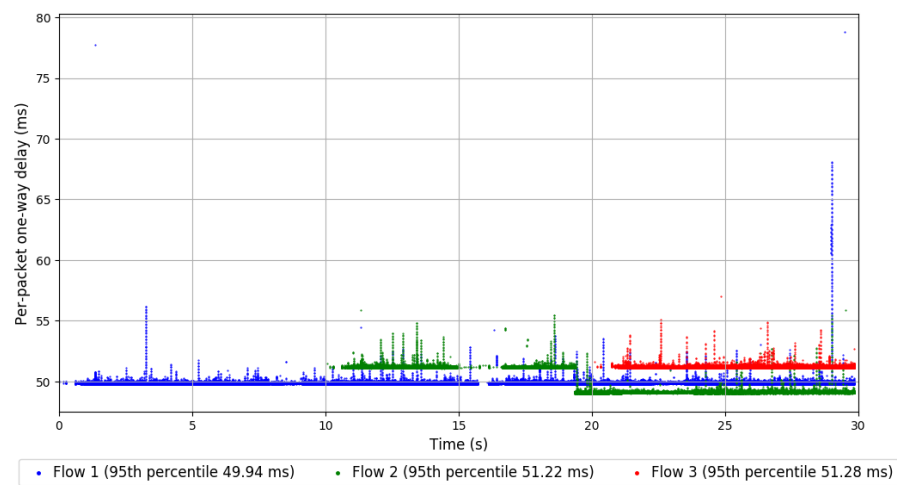
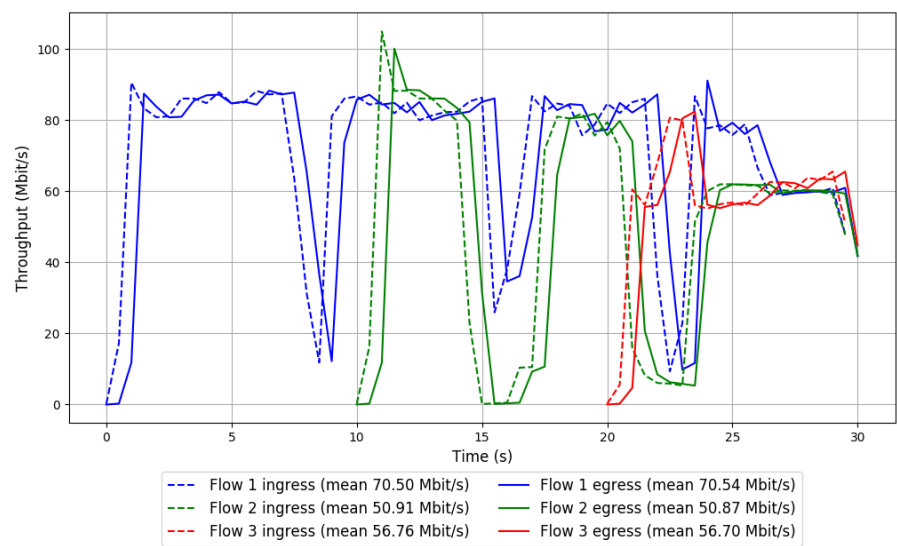


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-26 15:04:11
End at: 2018-05-26 15:04:41
Local clock offset: 0.176 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.90 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 49.935 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 51.215 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 51.284 ms
Loss rate: 1.14%

Run 3: Report of QUIC Cubic — Data Link

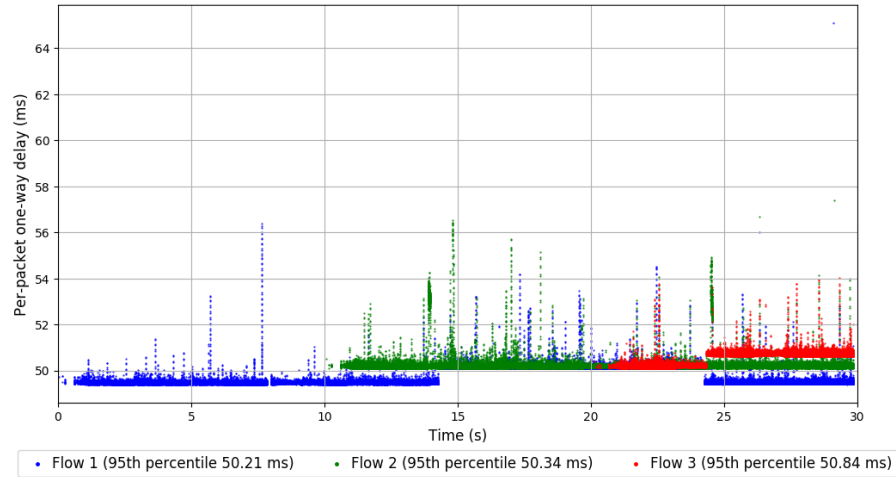
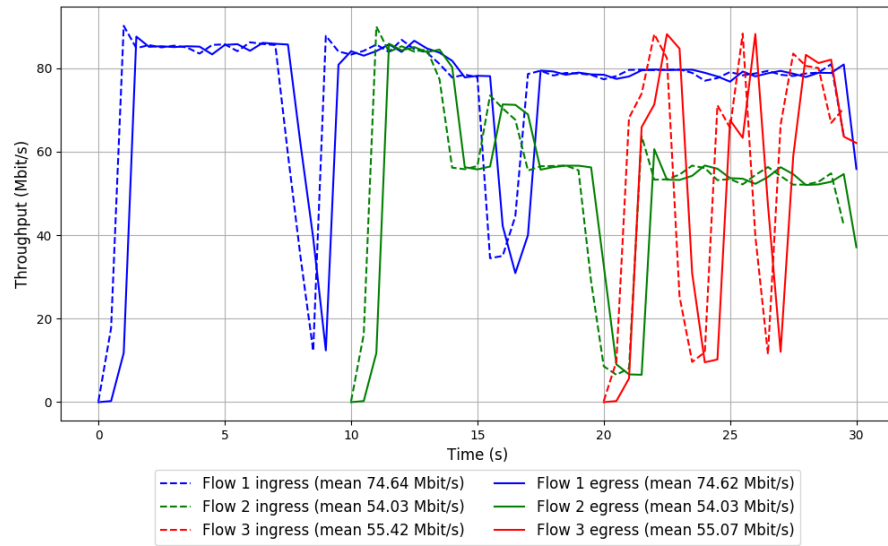


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-26 15:26:36
End at: 2018-05-26 15:27:06
Local clock offset: -0.232 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 128.56 Mbit/s
95th percentile per-packet one-way delay: 50.724 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 74.62 Mbit/s
95th percentile per-packet one-way delay: 50.211 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 50.338 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 1.62%

Run 4: Report of QUIC Cubic — Data Link

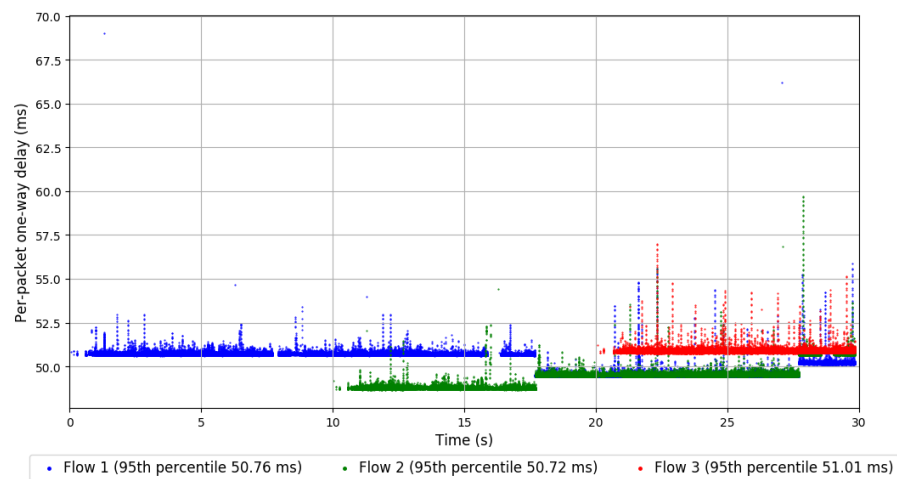
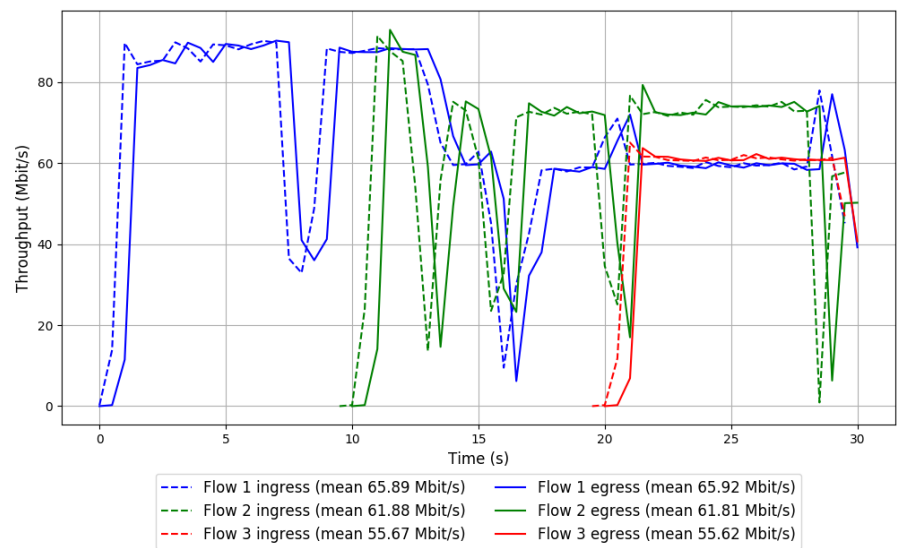


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-26 15:49:03
End at: 2018-05-26 15:49:33
Local clock offset: -0.2 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 125.27 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 65.92 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 51.013 ms
Loss rate: 1.12%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-26 16:11:26

End at: 2018-05-26 16:11:56

Local clock offset: -0.311 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.23 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 50.398 ms

Loss rate: 0.52%

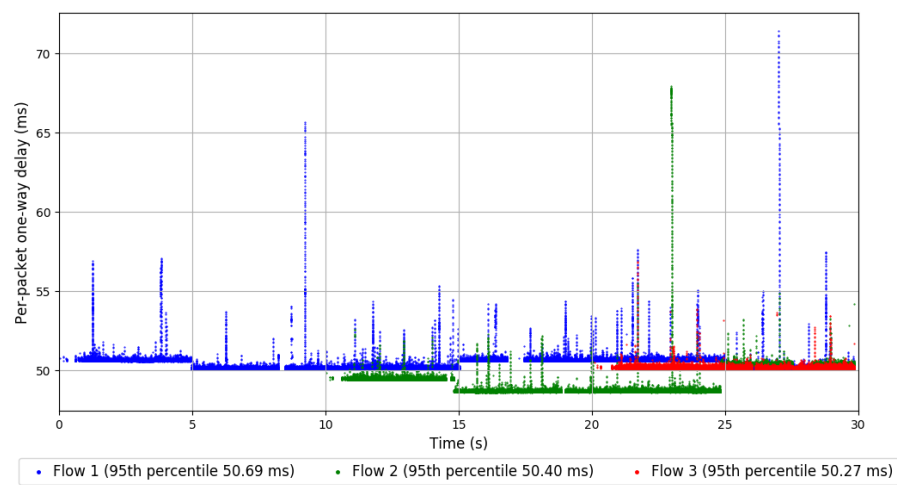
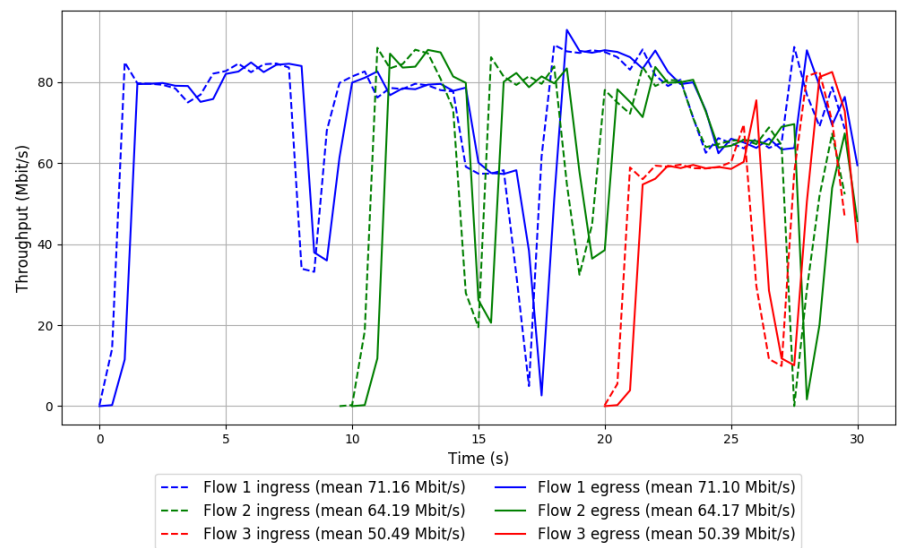
-- Flow 3:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 50.265 ms

Loss rate: 1.21%

Run 6: Report of QUIC Cubic — Data Link

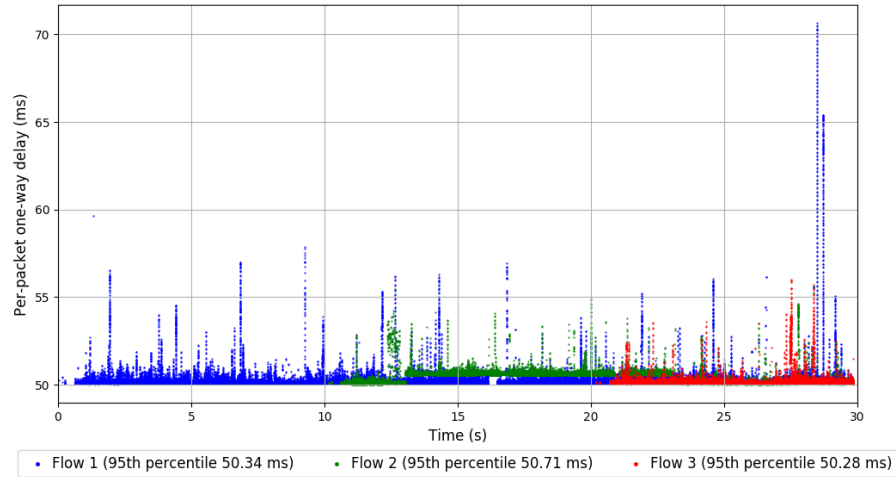
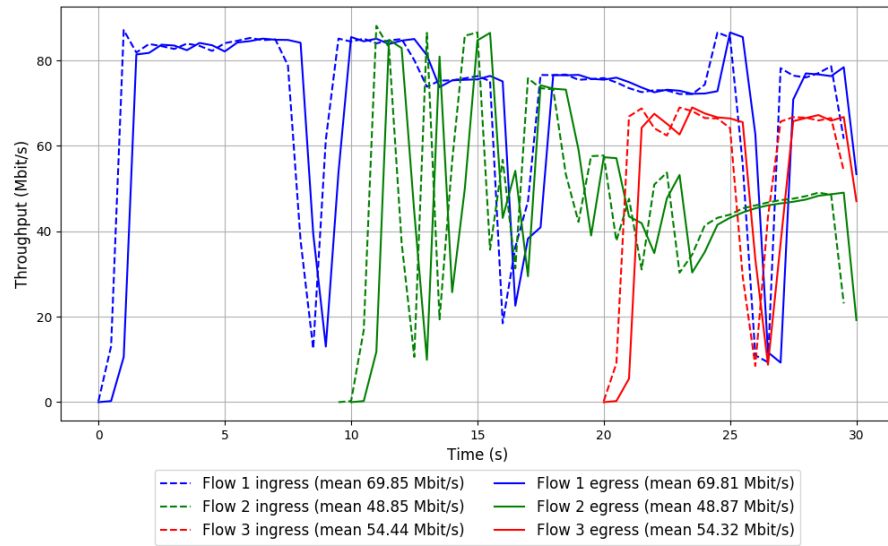


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-26 16:33:47
End at: 2018-05-26 16:34:17
Local clock offset: -0.307 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 120.05 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 48.87 Mbit/s
95th percentile per-packet one-way delay: 50.713 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 50.285 ms
Loss rate: 1.25%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 16:56:19

End at: 2018-05-26 16:56:49

Local clock offset: -0.602 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.63 Mbit/s

95th percentile per-packet one-way delay: 49.153 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 63.30 Mbit/s

95th percentile per-packet one-way delay: 49.173 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 48.999 ms

Loss rate: 0.55%

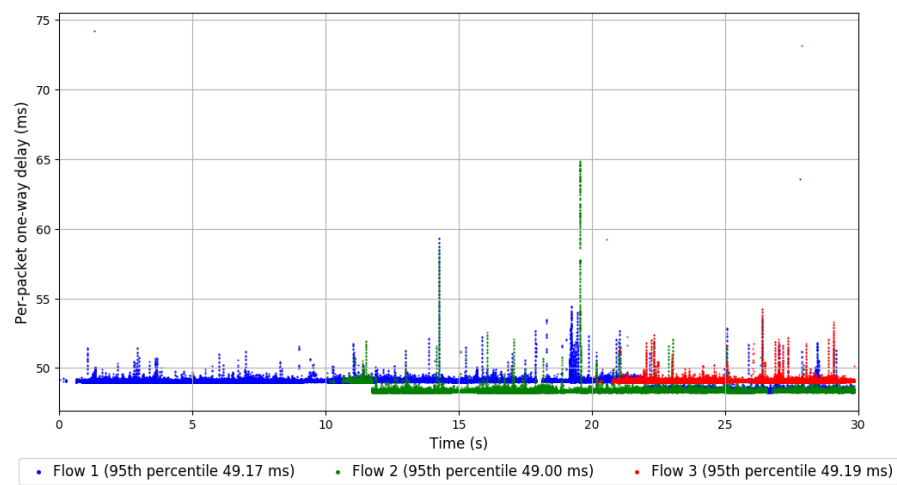
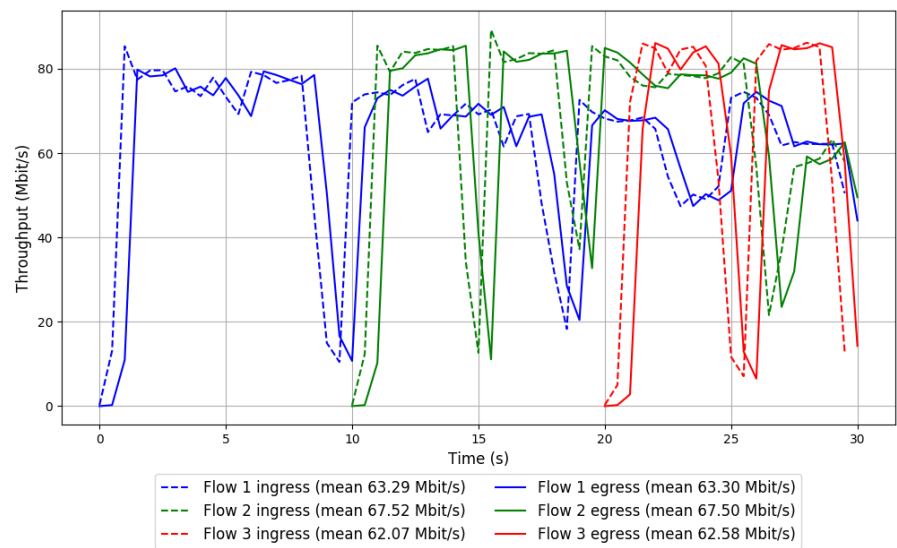
-- Flow 3:

Average throughput: 62.58 Mbit/s

95th percentile per-packet one-way delay: 49.187 ms

Loss rate: 0.21%

Run 8: Report of QUIC Cubic — Data Link

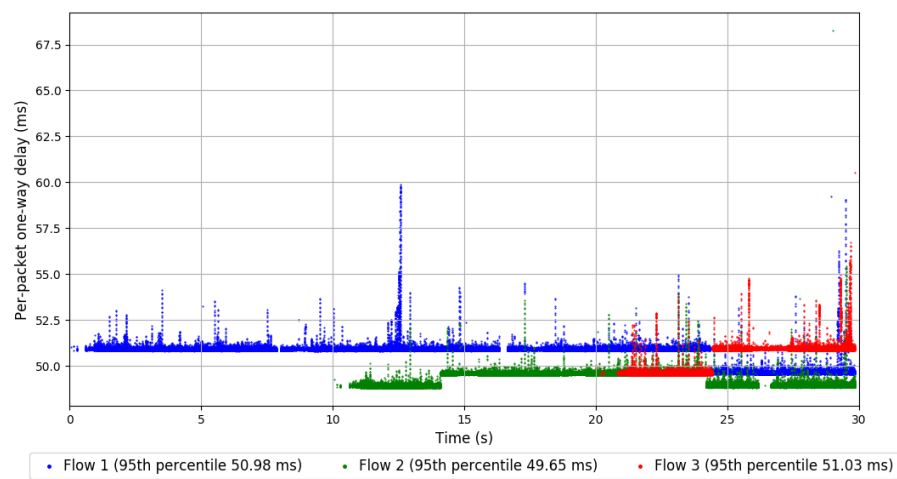
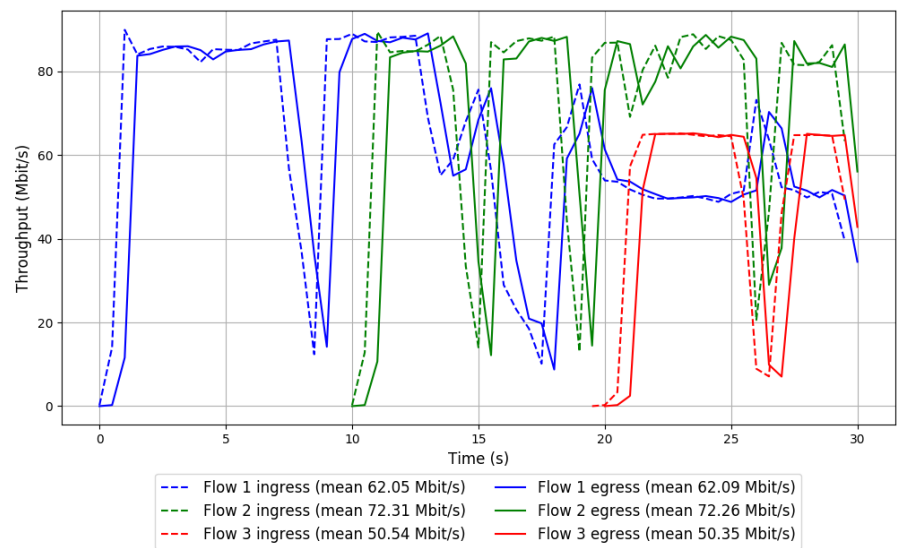


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 17:18:46
End at: 2018-05-26 17:19:16
Local clock offset: -0.216 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 126.59 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 49.652 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 1.31%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 17:41:10

End at: 2018-05-26 17:41:40

Local clock offset: -0.606 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.00 Mbit/s

95th percentile per-packet one-way delay: 49.832 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 49.856 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: 49.503 ms

Loss rate: 0.49%

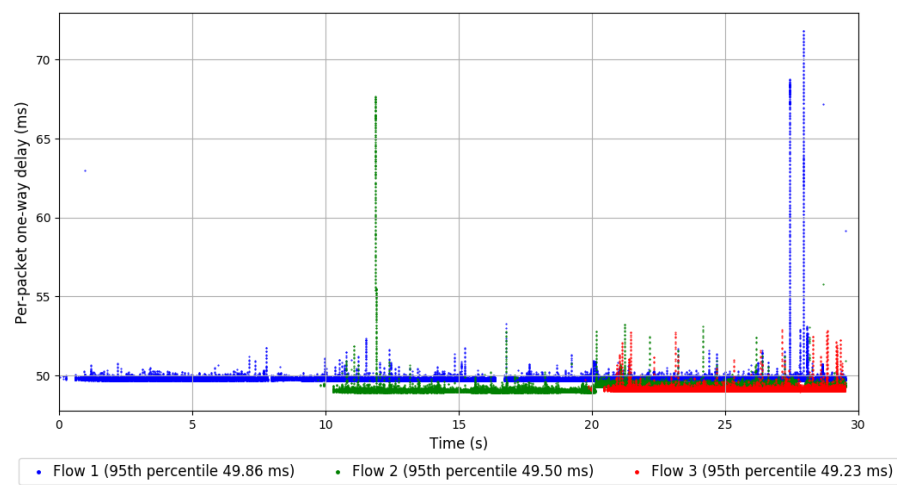
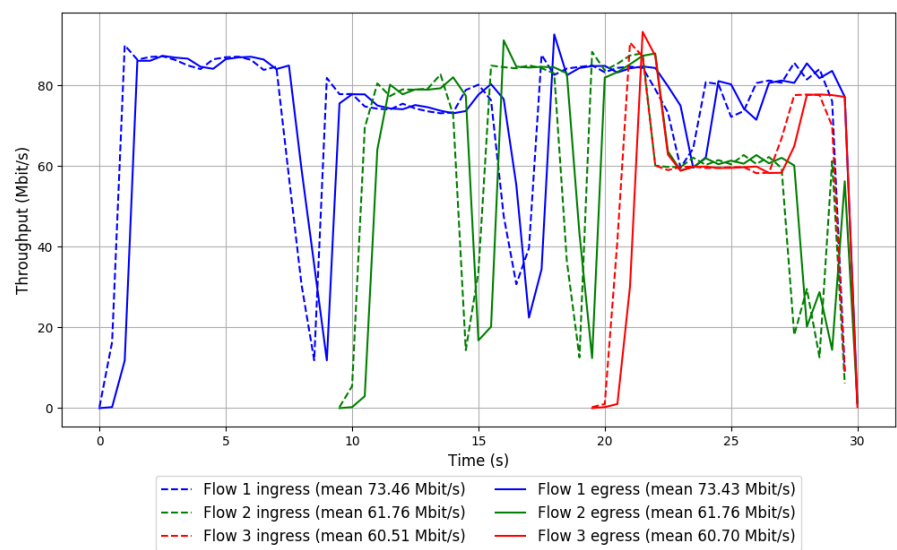
-- Flow 3:

Average throughput: 60.70 Mbit/s

95th percentile per-packet one-way delay: 49.234 ms

Loss rate: 0.78%

Run 10: Report of QUIC Cubic — Data Link

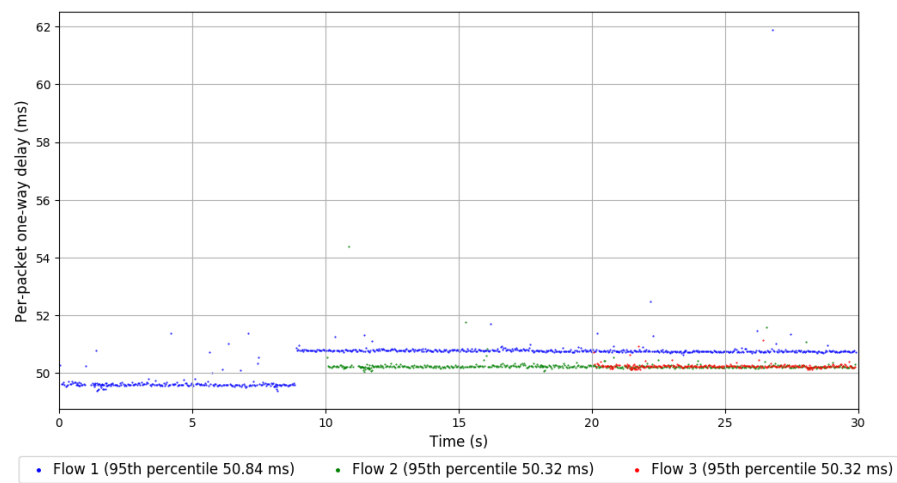
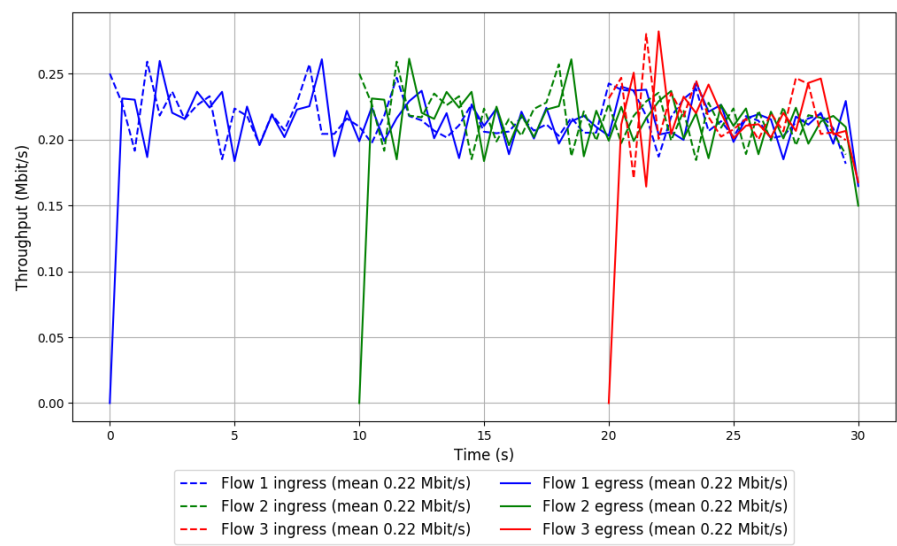


```
Run 1: Statistics of SReAM

Start at: 2018-05-26 14:35:12
End at: 2018-05-26 14:35:42
Local clock offset: -0.209 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-05-26 19:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.318 ms
Loss rate: 1.09%
```

Run 1: Report of SReAM — Data Link

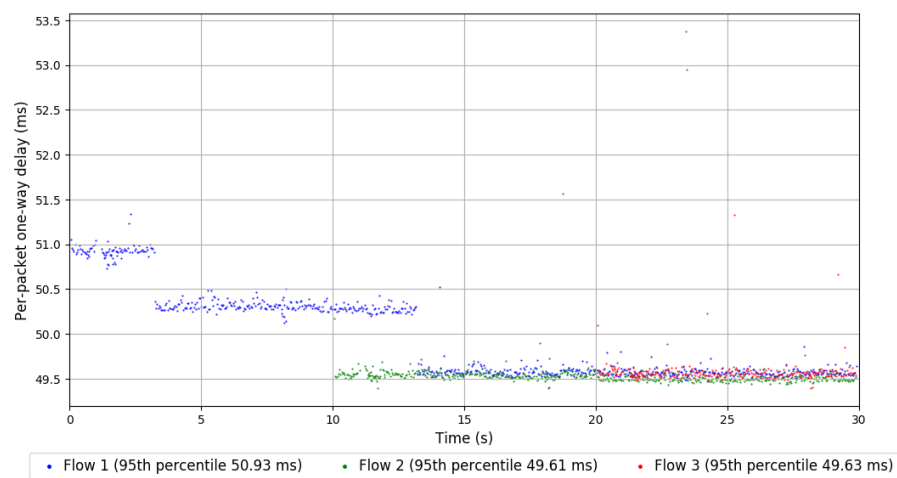
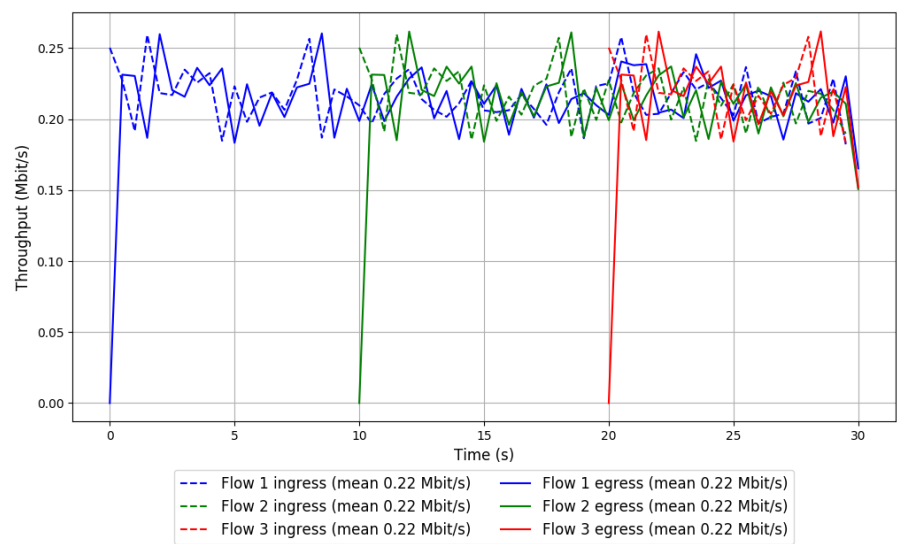


Run 2: Statistics of SReAM

Start at: 2018-05-26 14:57:27
End at: 2018-05-26 14:57:57
Local clock offset: -0.219 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.884 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.609 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.635 ms
Loss rate: 1.09%

Run 2: Report of SReAM — Data Link

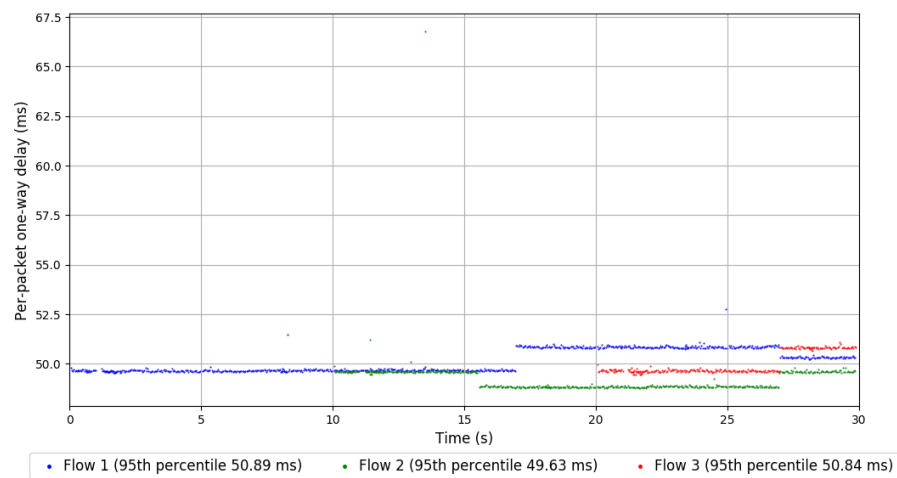
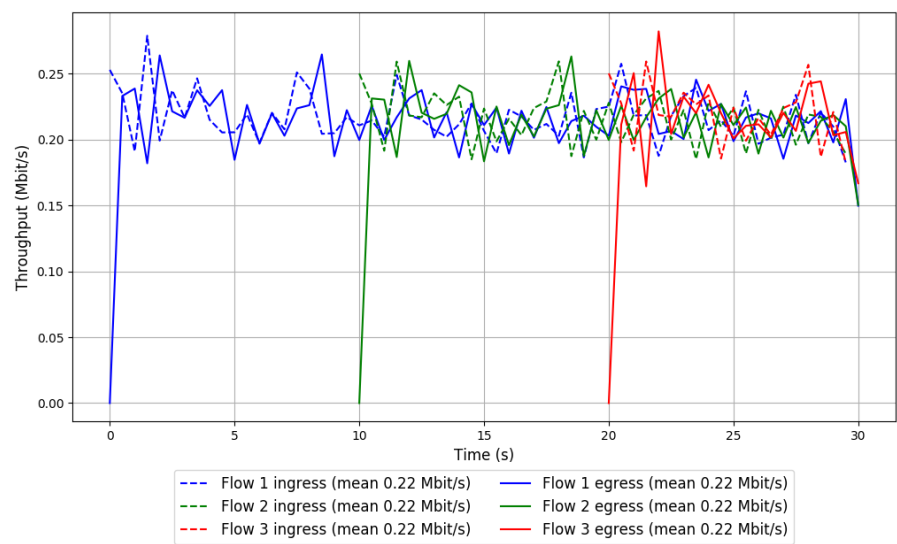


Run 3: Statistics of SCReAM

Start at: 2018-05-26 15:19:54
End at: 2018-05-26 15:20:24
Local clock offset: -0.236 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.626 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 1.08%

Run 3: Report of SReAM — Data Link

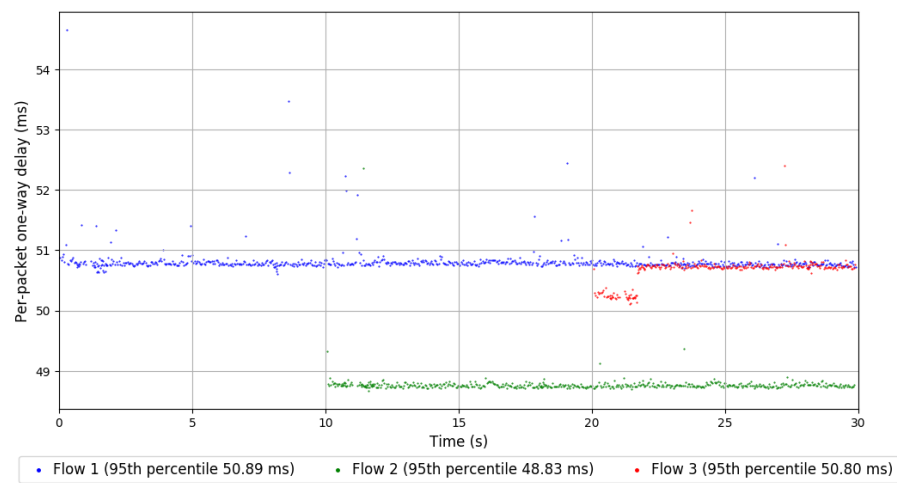
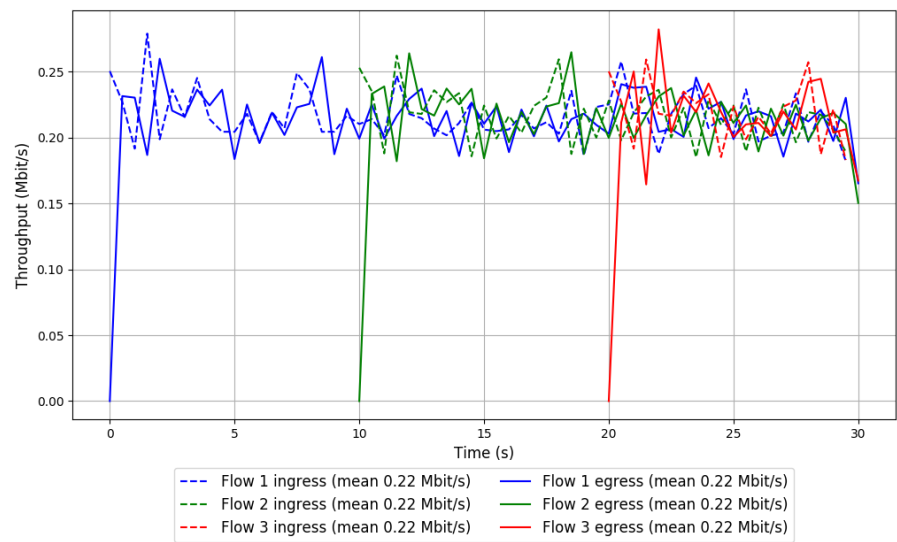


Run 4: Statistics of SReAM

Start at: 2018-05-26 15:42:19
End at: 2018-05-26 15:42:49
Local clock offset: -0.25 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.889 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.826 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.805 ms
Loss rate: 1.09%

Run 4: Report of SCReAM — Data Link

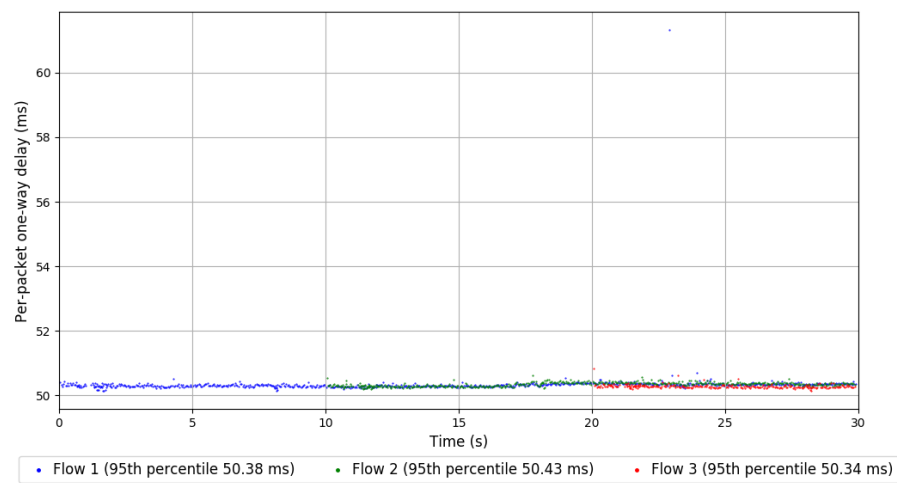
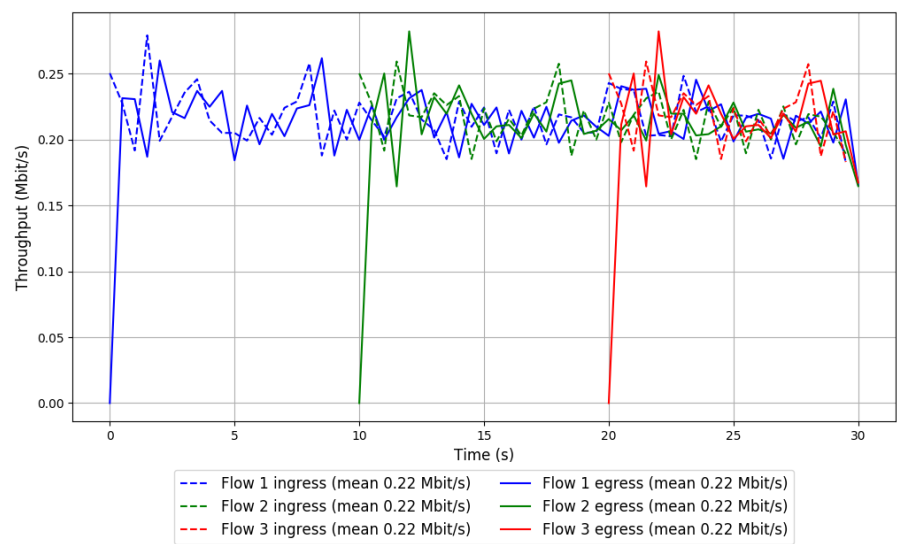


Run 5: Statistics of SReAM

Start at: 2018-05-26 16:04:44
End at: 2018-05-26 16:05:14
Local clock offset: -0.224 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.385 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.344 ms
Loss rate: 1.09%

Run 5: Report of SReAM — Data Link

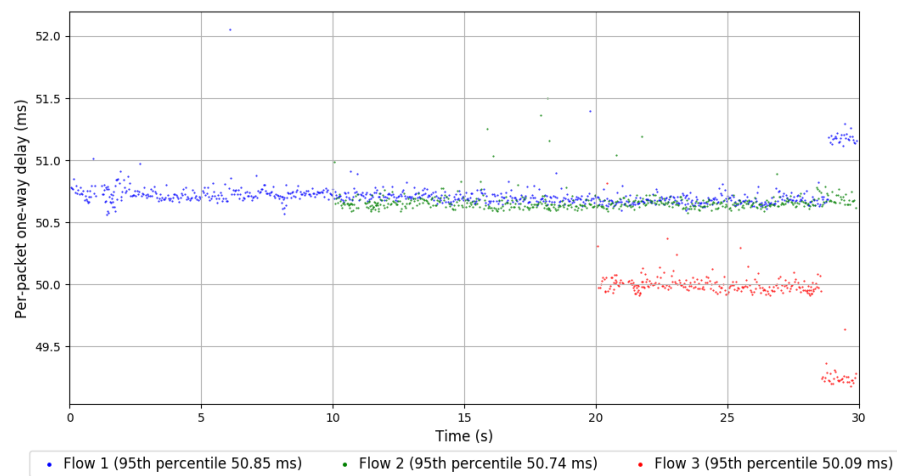
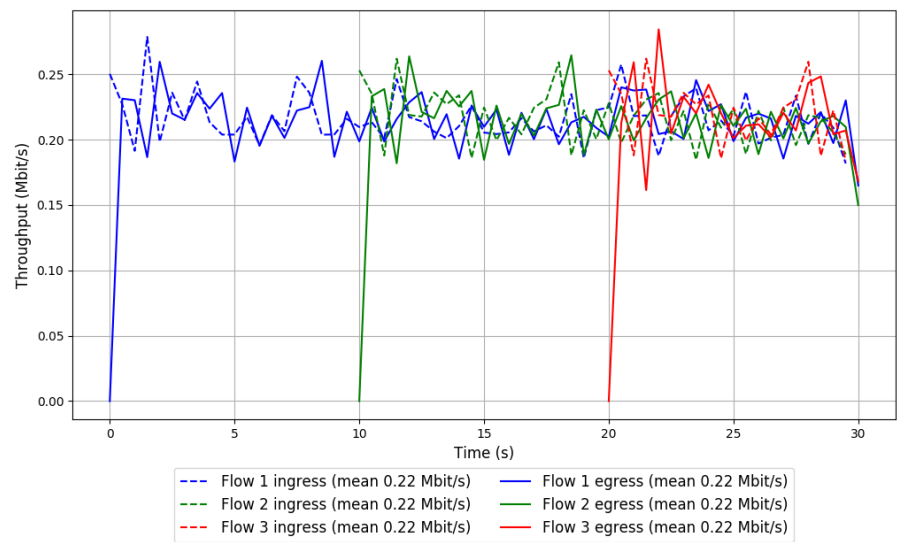


Run 6: Statistics of SReAM

Start at: 2018-05-26 16:27:02
End at: 2018-05-26 16:27:32
Local clock offset: 0.123 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.848 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.090 ms
Loss rate: 1.09%

Run 6: Report of SReAM — Data Link

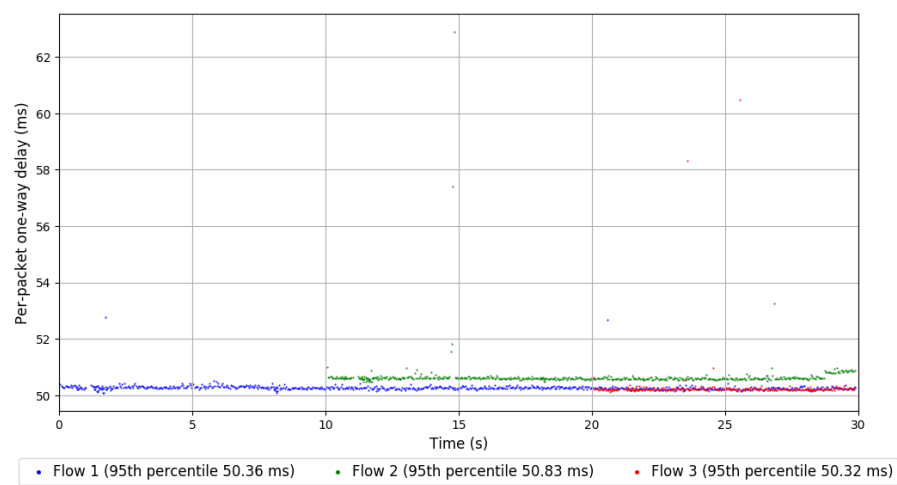
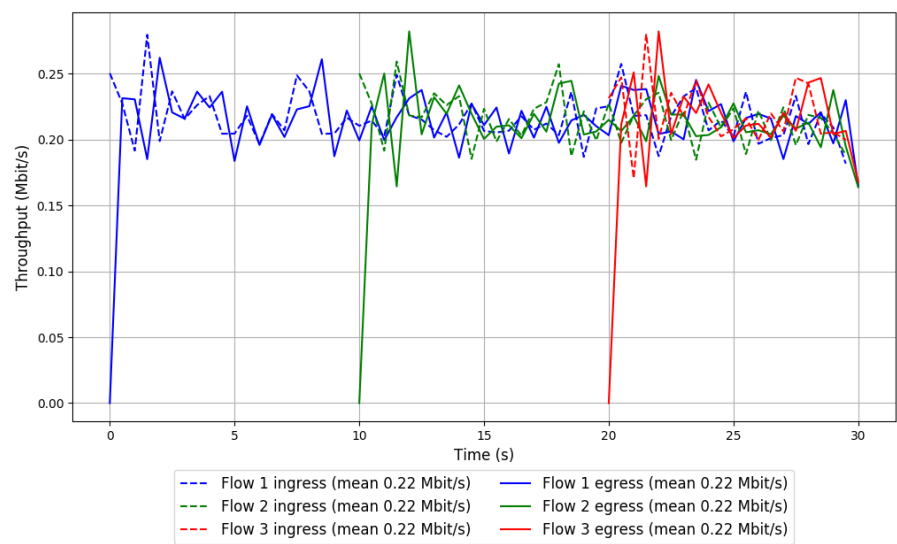


Run 7: Statistics of SReAM

Start at: 2018-05-26 16:49:32
End at: 2018-05-26 16:50:02
Local clock offset: -0.262 ms
Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.666 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 1.09%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-26 17:12:04

End at: 2018-05-26 17:12:34

Local clock offset: -0.256 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.308 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.305 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.61%

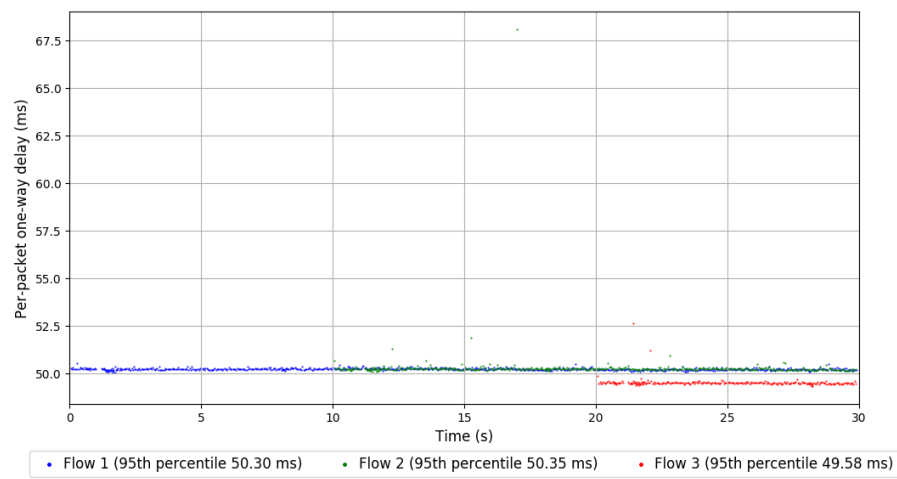
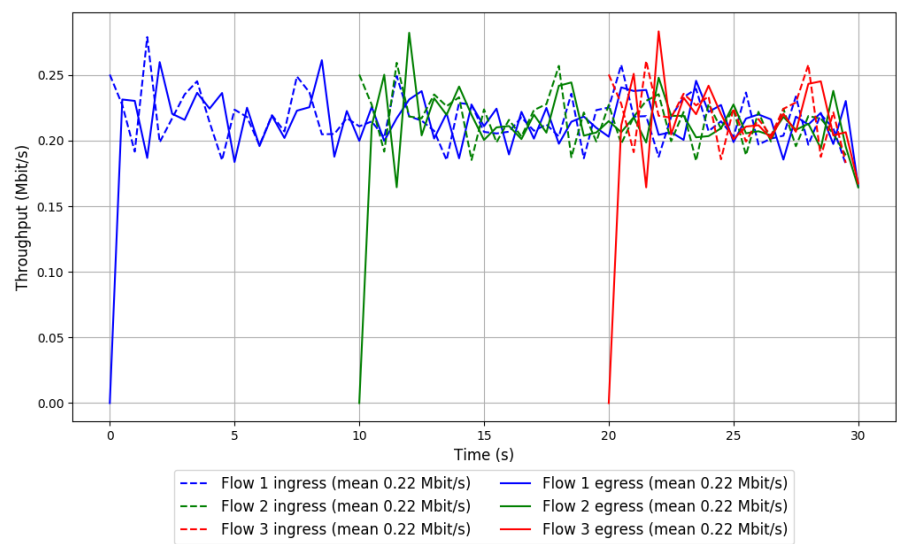
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.577 ms

Loss rate: 1.08%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-26 17:34:27

End at: 2018-05-26 17:34:57

Local clock offset: -0.236 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.776 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.61%

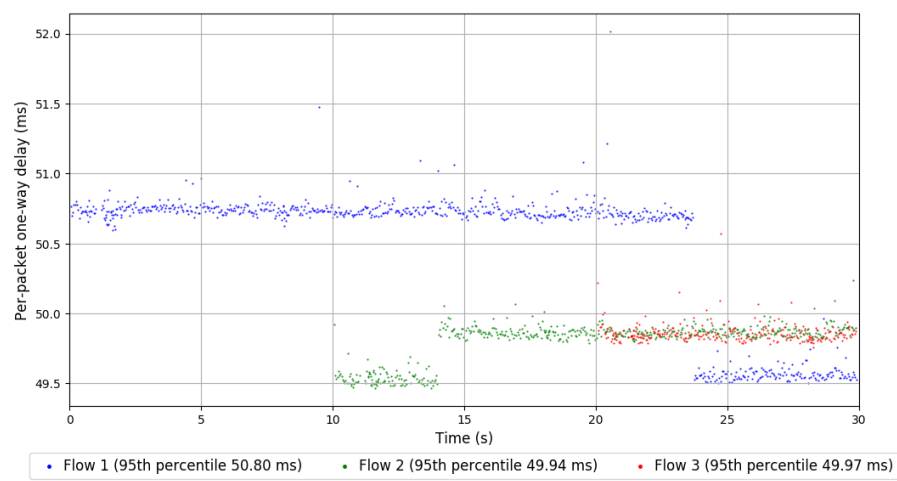
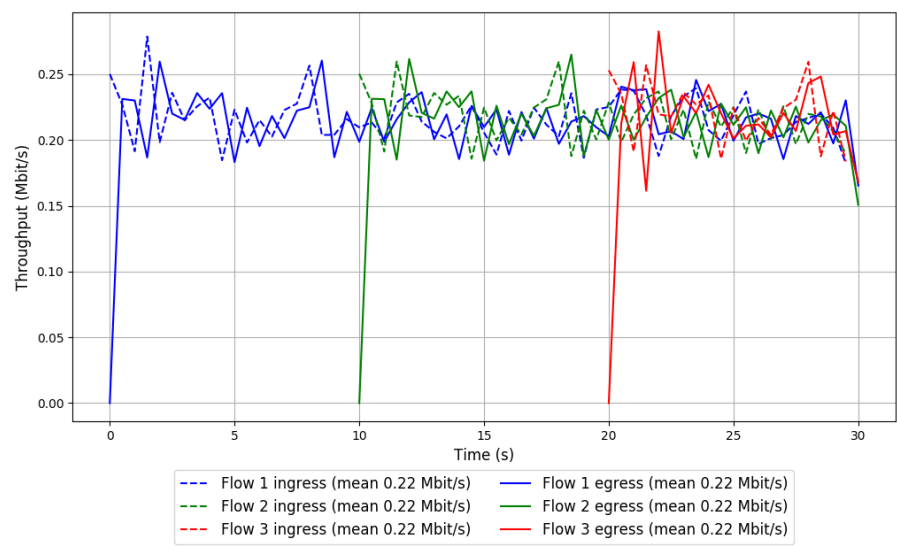
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.967 ms

Loss rate: 1.08%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-26 17:56:52

End at: 2018-05-26 17:57:22

Local clock offset: -0.222 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-05-26 19:43:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.659 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 0.61%

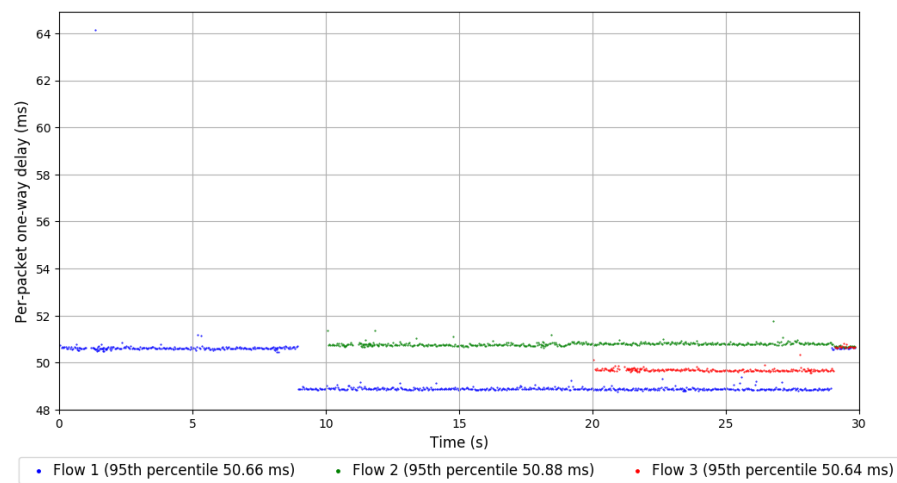
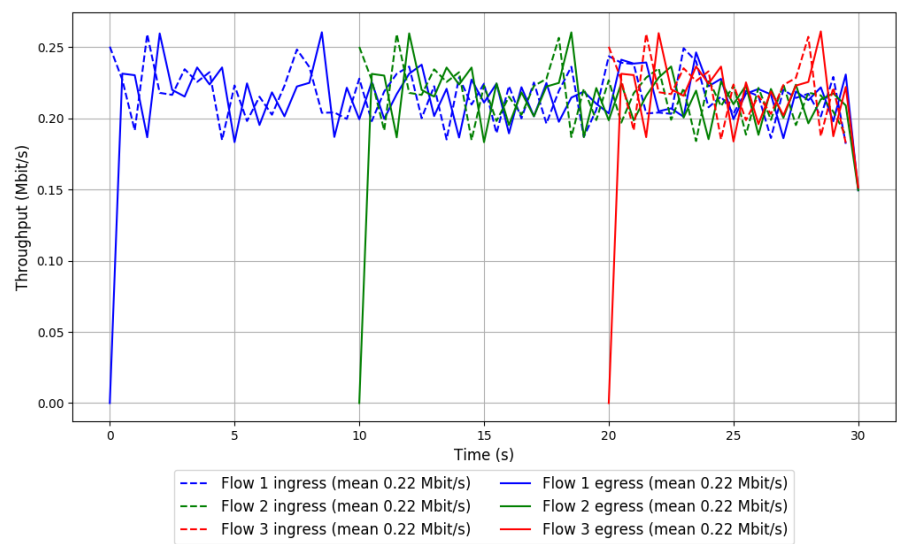
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.642 ms

Loss rate: 1.08%

Run 10: Report of SReAM — Data Link

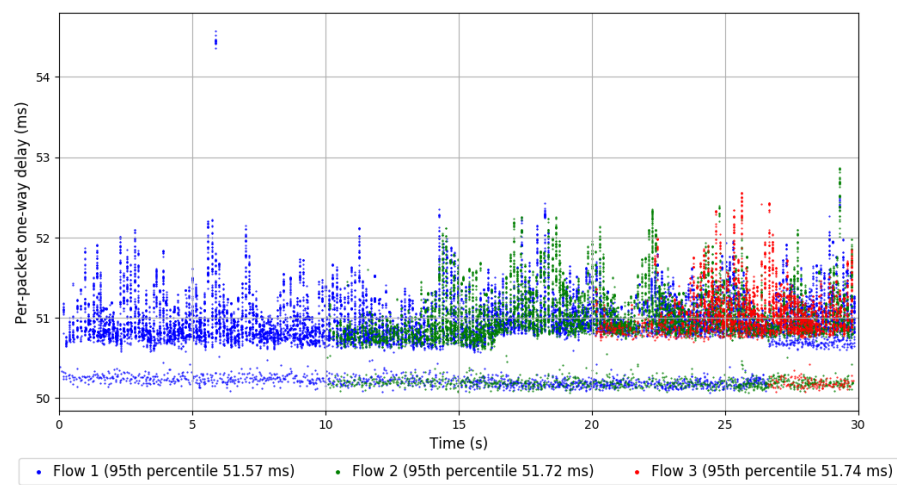
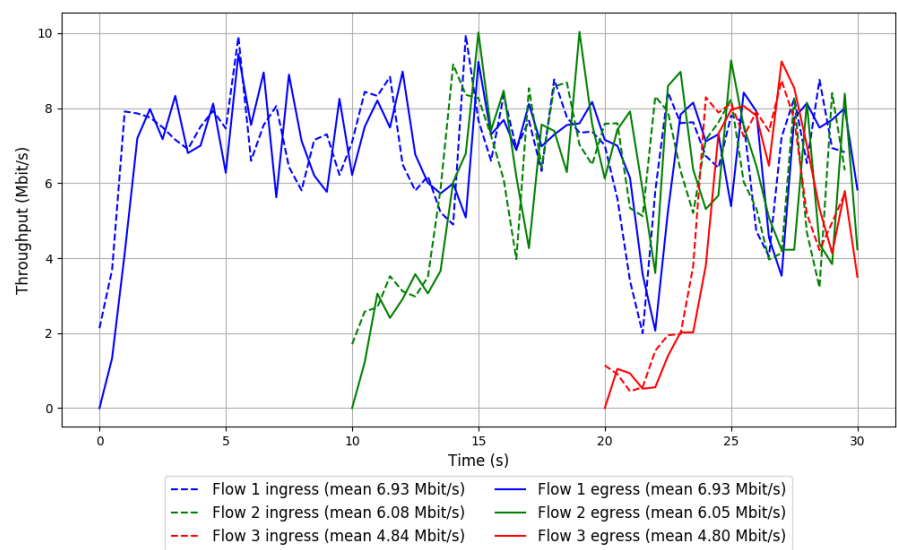


Run 1: Statistics of Sprout

Start at: 2018-05-26 14:32:24
End at: 2018-05-26 14:32:54
Local clock offset: -0.203 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 51.645 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 51.571 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 51.724 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 2.32%

Run 1: Report of Sprout — Data Link

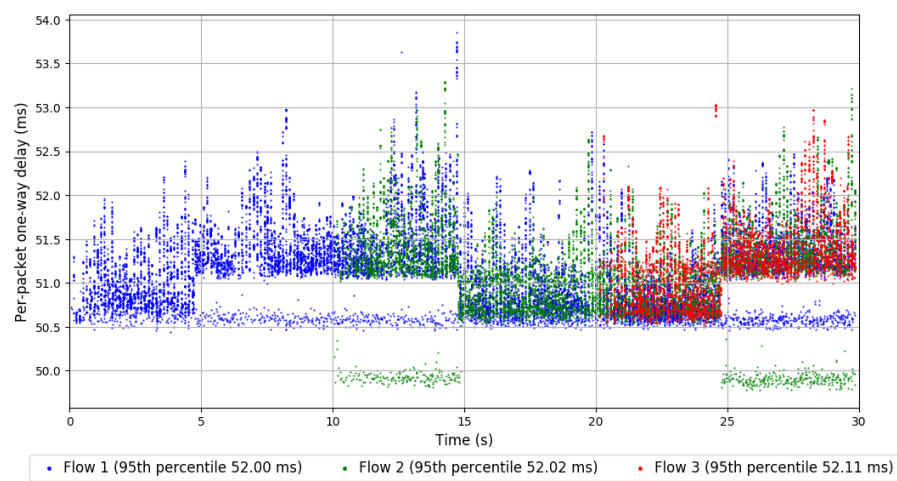
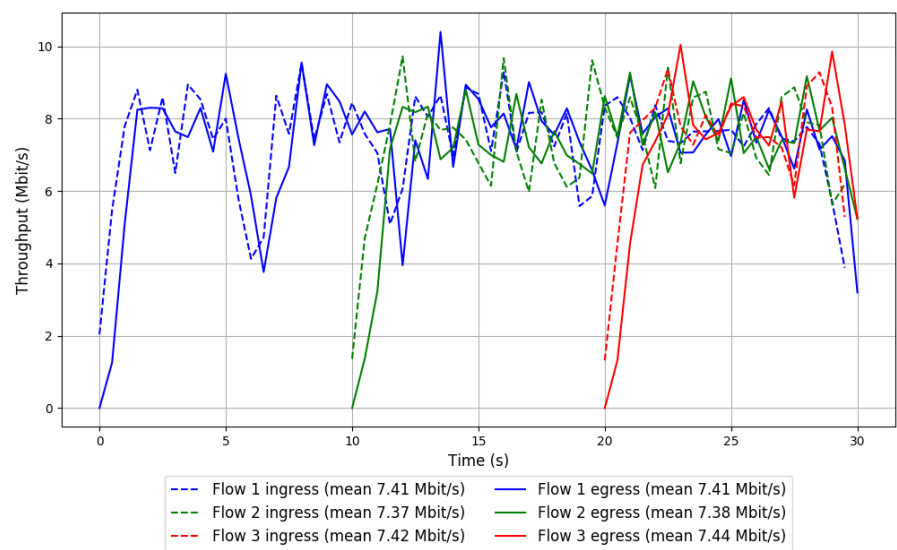


Run 2: Statistics of Sprout

Start at: 2018-05-26 14:54:36
End at: 2018-05-26 14:55:06
Local clock offset: 0.202 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-05-26 19:43:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 52.022 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 51.997 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 52.025 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 52.109 ms
Loss rate: 0.83%

Run 2: Report of Sprout — Data Link

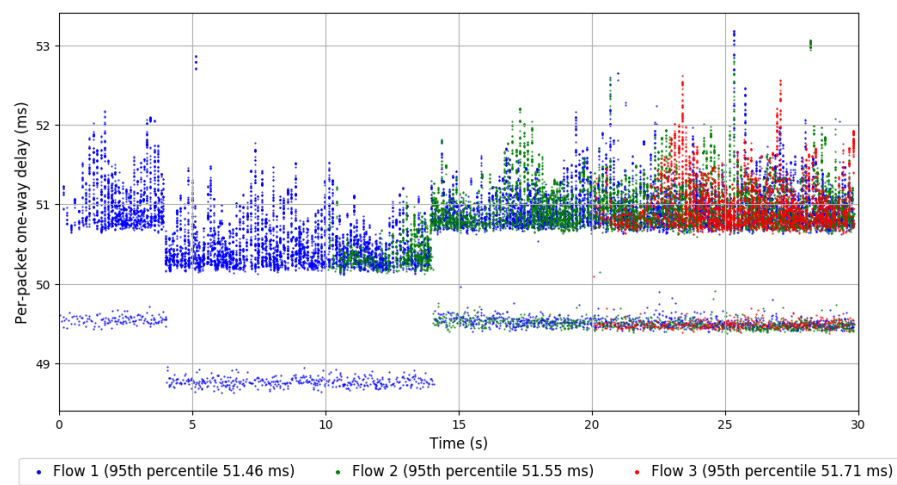
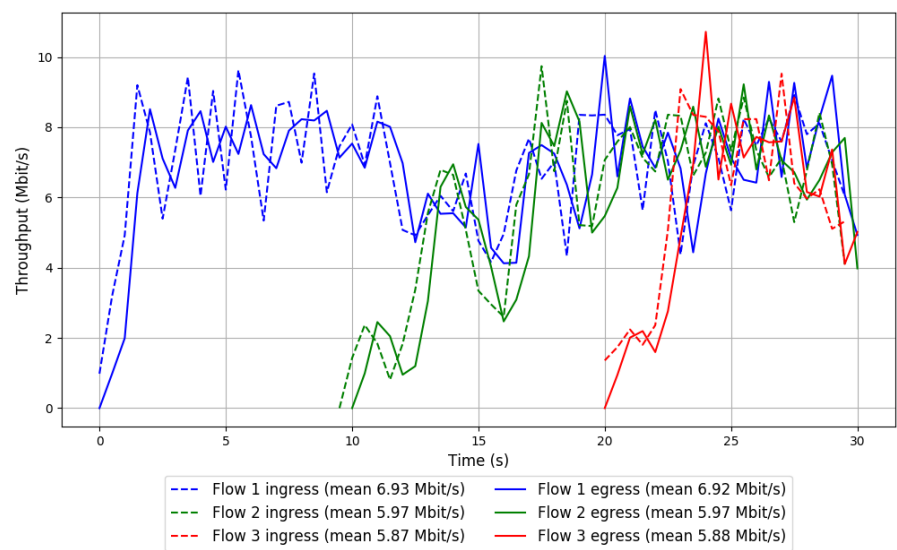


Run 3: Statistics of Sprout

Start at: 2018-05-26 15:17:06
End at: 2018-05-26 15:17:36
Local clock offset: -0.254 ms
Remote clock offset: -0.098 ms

```
# Below is generated by plot.py at 2018-05-26 19:43:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 51.542 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 51.550 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 1.13%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-26 15:39:33

End at: 2018-05-26 15:40:03

Local clock offset: -0.236 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-05-26 19:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 51.432 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 7.33 Mbit/s

95th percentile per-packet one-way delay: 51.400 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 51.464 ms

Loss rate: 0.29%

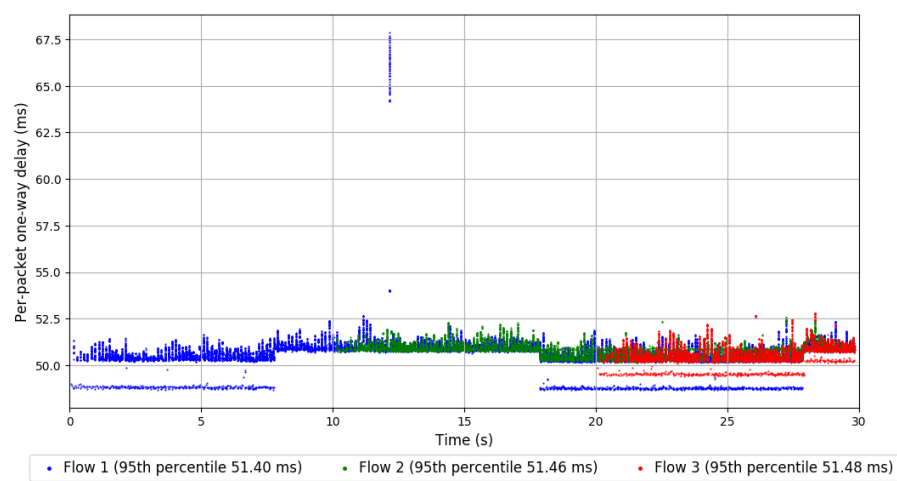
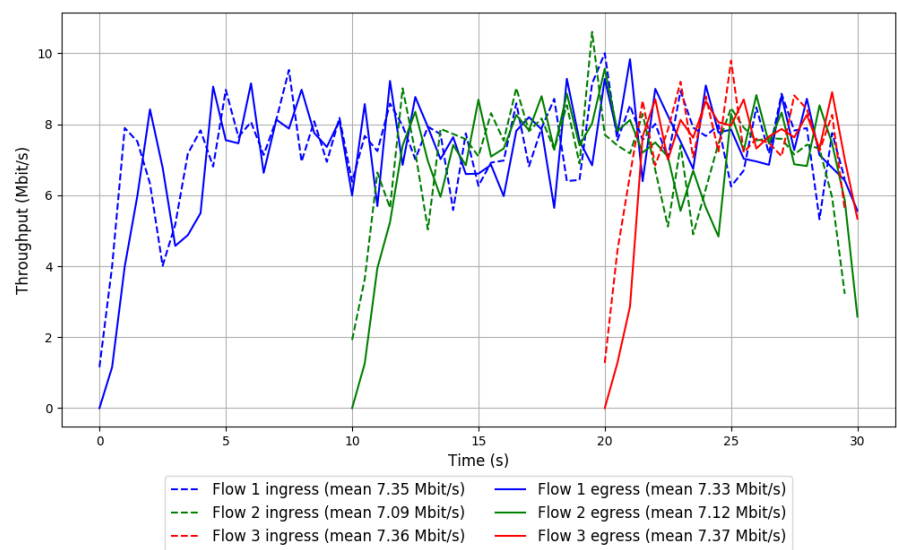
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 51.479 ms

Loss rate: 1.04%

Run 4: Report of Sprout — Data Link

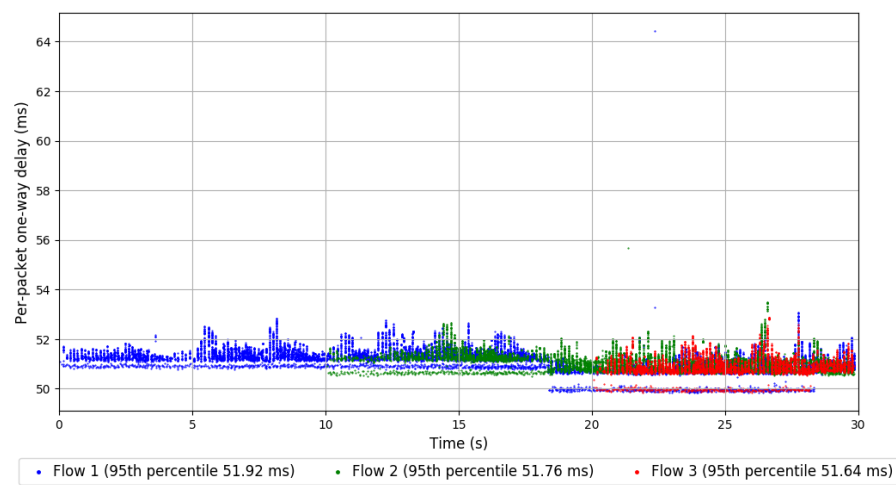
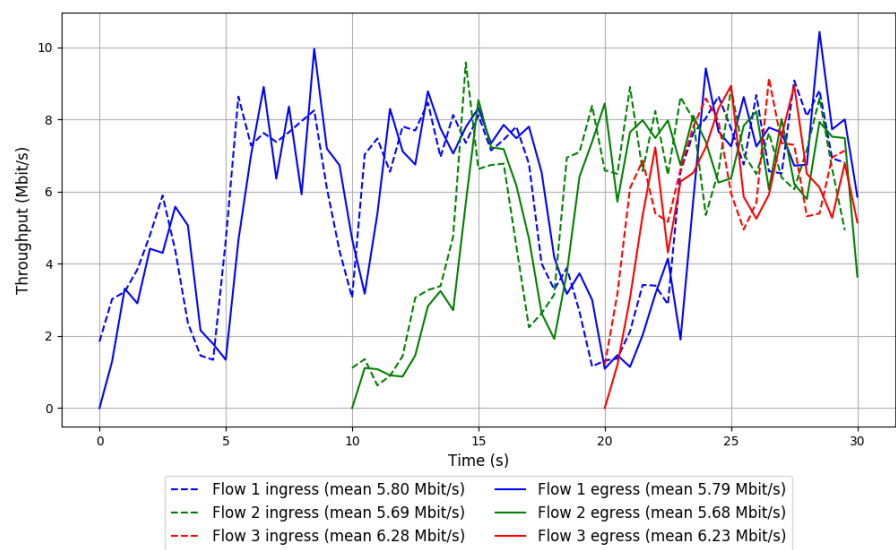


Run 5: Statistics of Sprout

Start at: 2018-05-26 16:01:52
End at: 2018-05-26 16:02:22
Local clock offset: 0.129 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-05-26 19:43:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 51.831 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 51.918 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 51.642 ms
Loss rate: 1.83%

Run 5: Report of Sprout — Data Link

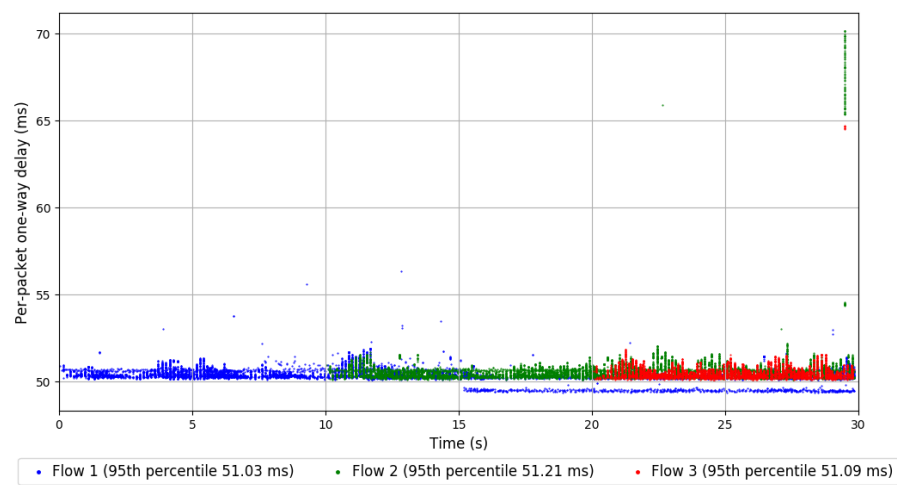
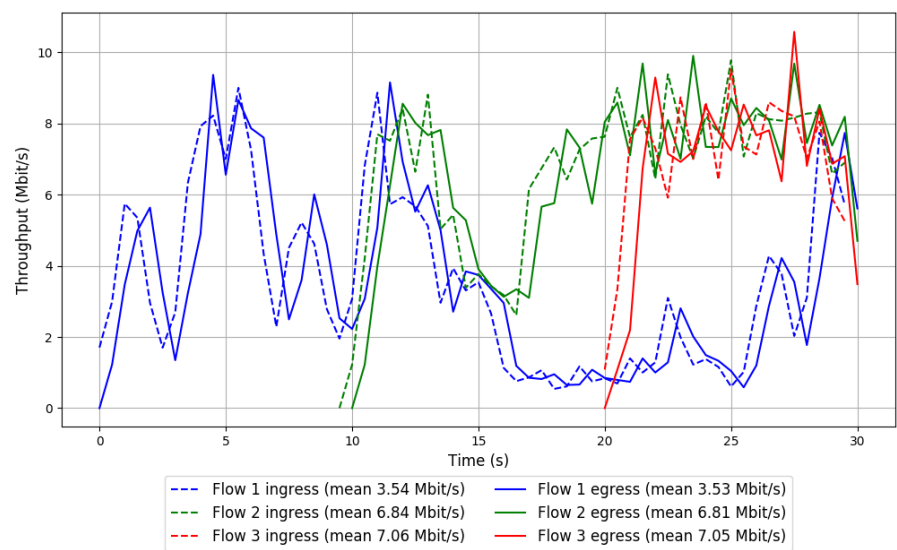


Run 6: Statistics of Sprout

Start at: 2018-05-26 16:24:15
End at: 2018-05-26 16:24:45
Local clock offset: -0.294 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-26 19:43:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 51.129 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 51.208 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 51.093 ms
Loss rate: 1.27%

Run 6: Report of Sprout — Data Link

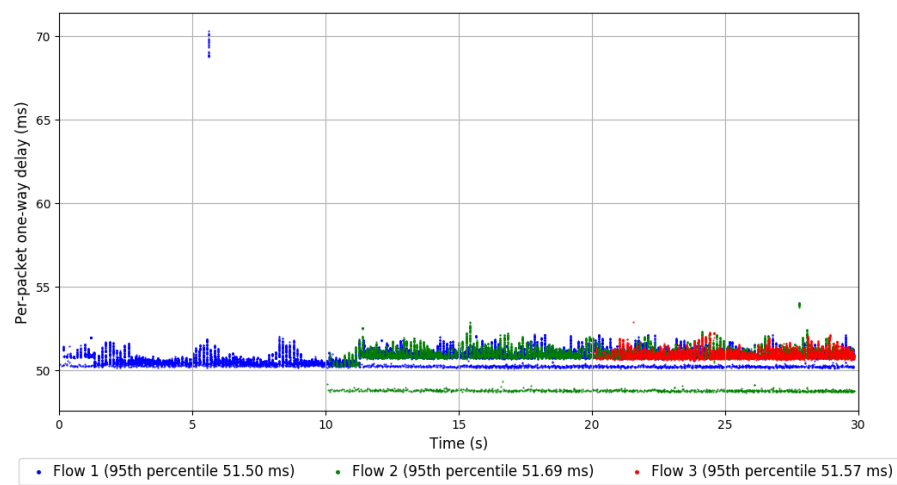
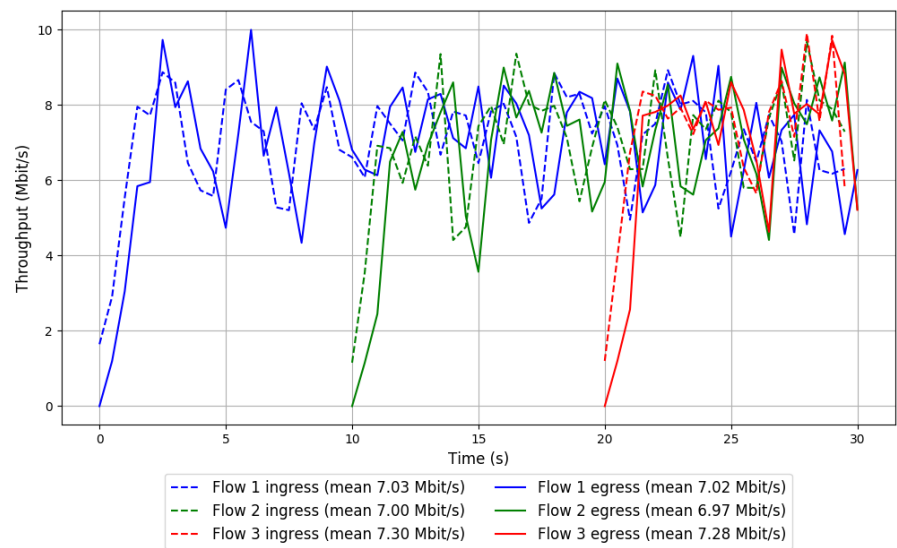


Run 7: Statistics of Sprout

Start at: 2018-05-26 16:46:39
End at: 2018-05-26 16:47:09
Local clock offset: -0.229 ms
Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-26 19:43:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.03 Mbit/s
95th percentile per-packet one-way delay: 51.583 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 51.501 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 51.692 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 51.572 ms
Loss rate: 1.11%

Run 7: Report of Sprout — Data Link

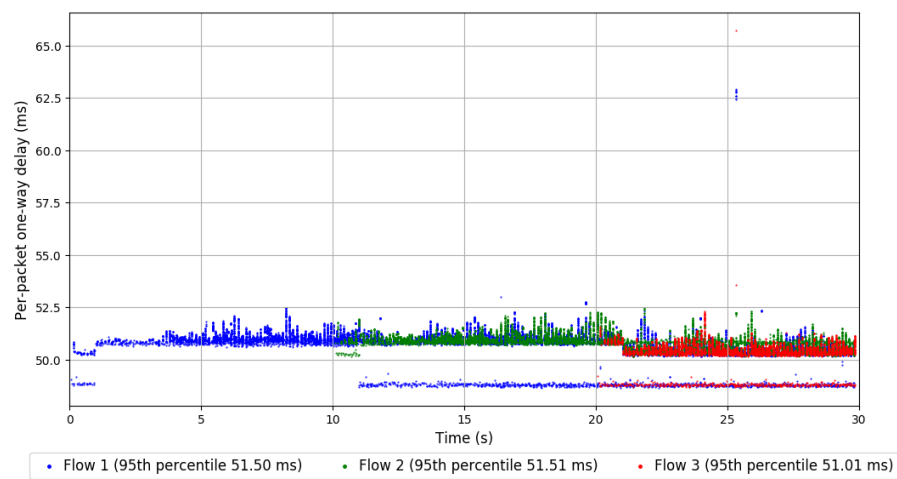
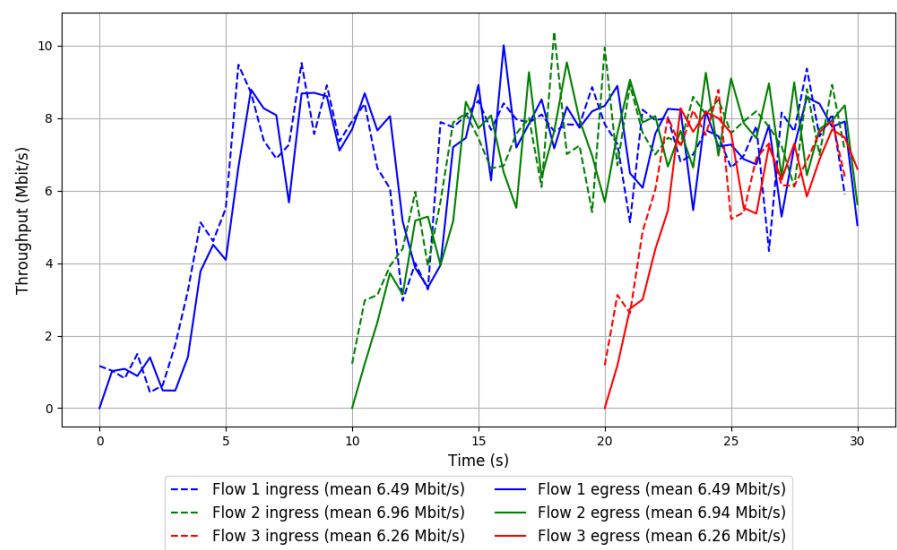


Run 8: Statistics of Sprout

Start at: 2018-05-26 17:09:19
End at: 2018-05-26 17:09:49
Local clock offset: -0.191 ms
Remote clock offset: 0.044 ms

```
# Below is generated by plot.py at 2018-05-26 19:43:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 51.461 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 51.502 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 51.505 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 51.011 ms
Loss rate: 0.71%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-26 17:31:42

End at: 2018-05-26 17:32:12

Local clock offset: -0.214 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-26 19:43:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 51.271 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 51.302 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 51.206 ms

Loss rate: 0.94%

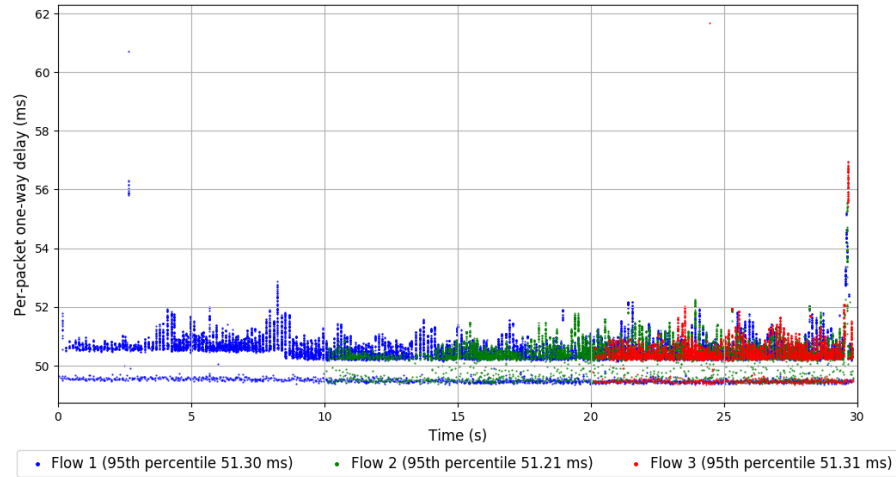
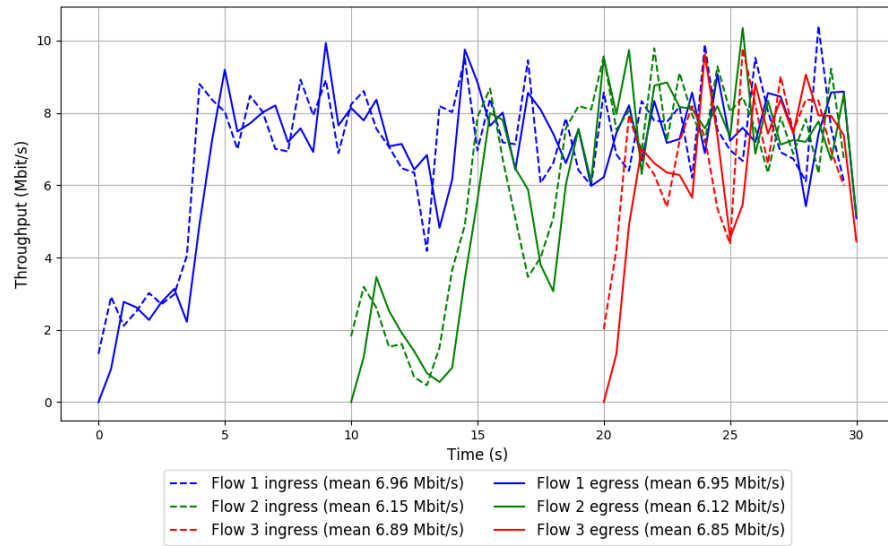
-- Flow 3:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 1.46%

Run 9: Report of Sprout — Data Link

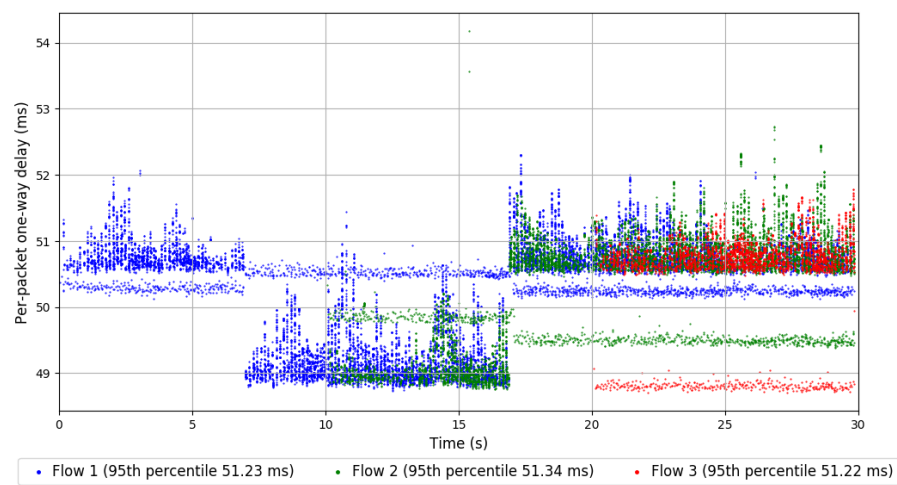
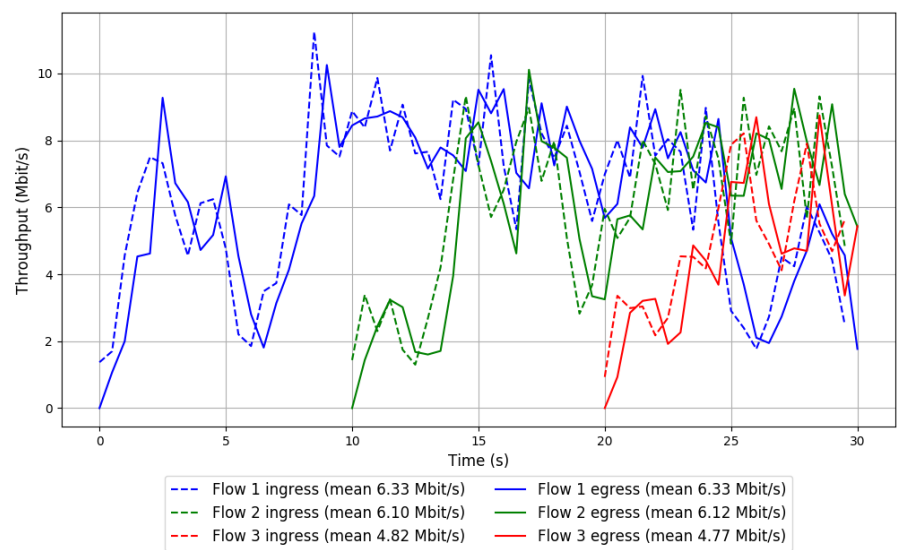


Run 10: Statistics of Sprout

Start at: 2018-05-26 17:54:04
End at: 2018-05-26 17:54:34
Local clock offset: -0.172 ms
Remote clock offset: 0.142 ms

```
# Below is generated by plot.py at 2018-05-26 19:43:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 51.220 ms
Loss rate: 1.76%
```

Run 10: Report of Sprout — Data Link

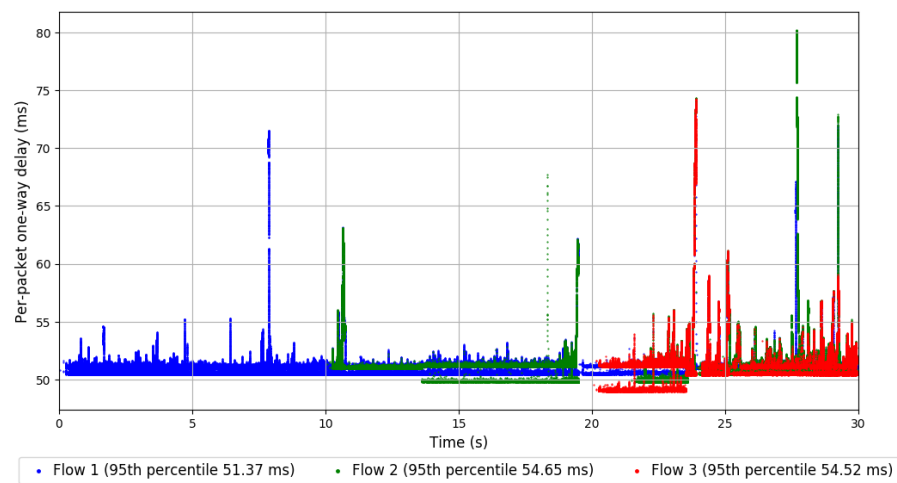
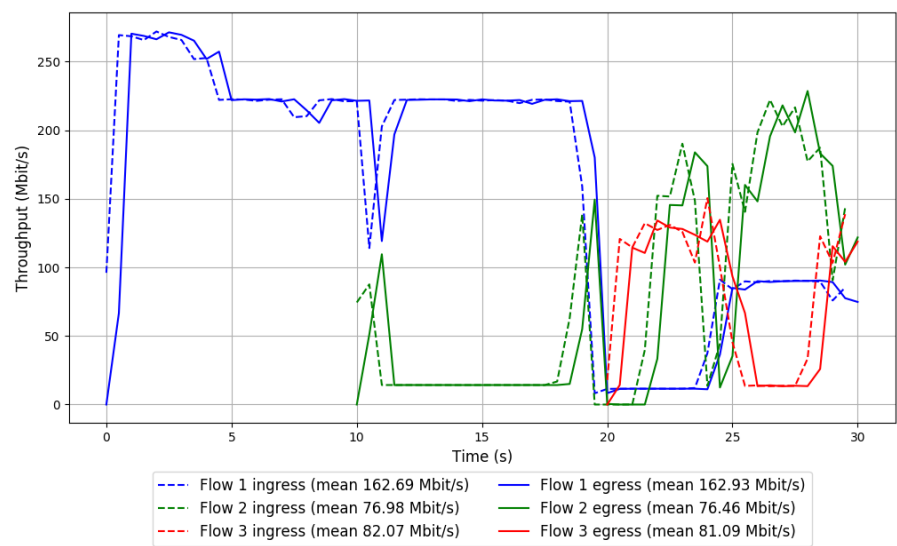


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-26 14:27:37
End at: 2018-05-26 14:28:07
Local clock offset: 0.171 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-05-26 19:47:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.54 Mbit/s
95th percentile per-packet one-way delay: 52.322 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 162.93 Mbit/s
95th percentile per-packet one-way delay: 51.367 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 76.46 Mbit/s
95th percentile per-packet one-way delay: 54.645 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 54.522 ms
Loss rate: 2.18%

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

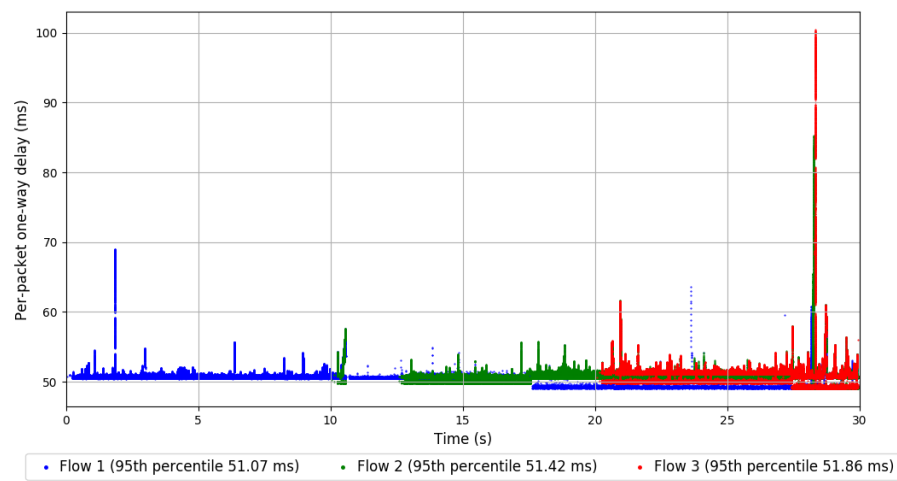
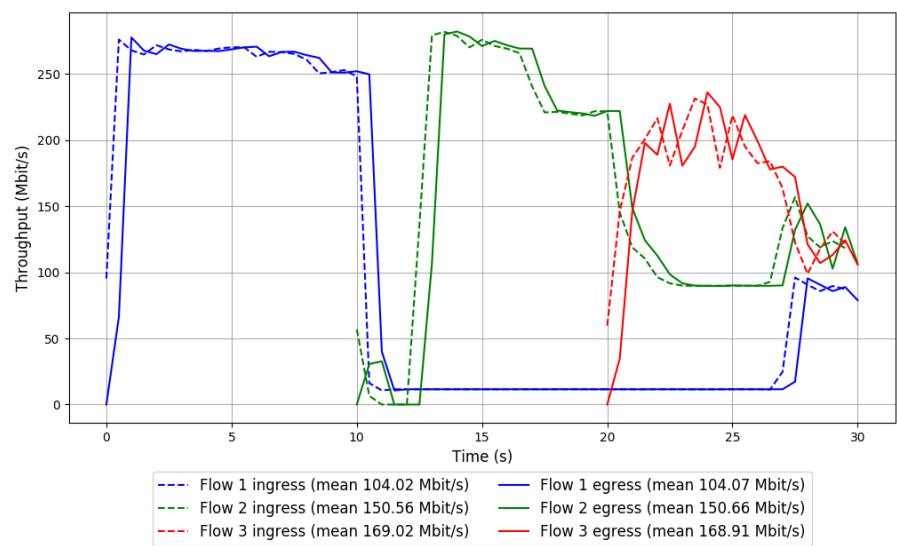


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-26 14:49:43
End at: 2018-05-26 14:50:13
Local clock offset: 0.191 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-26 19:48:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.04 Mbit/s
95th percentile per-packet one-way delay: 51.433 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 104.07 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 150.66 Mbit/s
95th percentile per-packet one-way delay: 51.422 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 168.91 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 1.03%

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

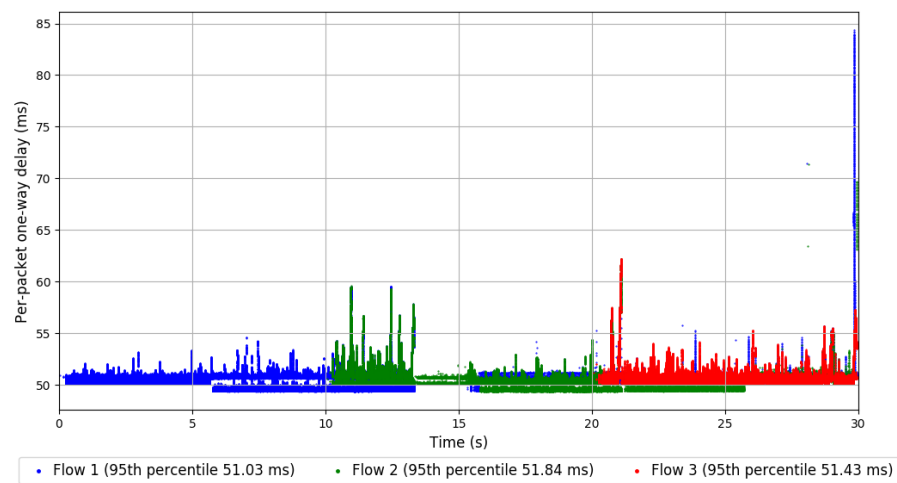
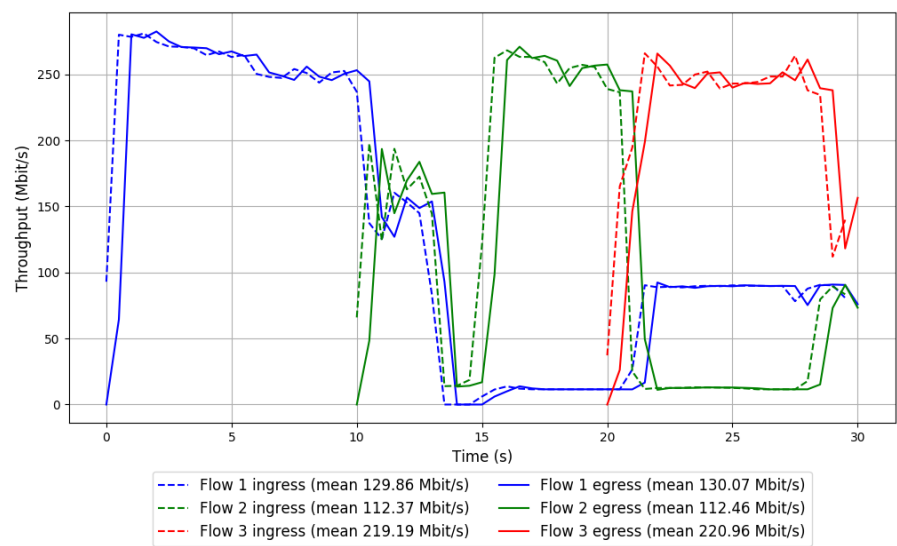


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-26 15:12:15
End at: 2018-05-26 15:12:45
Local clock offset: -0.218 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-26 19:48:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.82 Mbit/s
95th percentile per-packet one-way delay: 51.282 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 130.07 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 112.46 Mbit/s
95th percentile per-packet one-way delay: 51.844 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 220.96 Mbit/s
95th percentile per-packet one-way delay: 51.428 ms
Loss rate: 0.01%

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

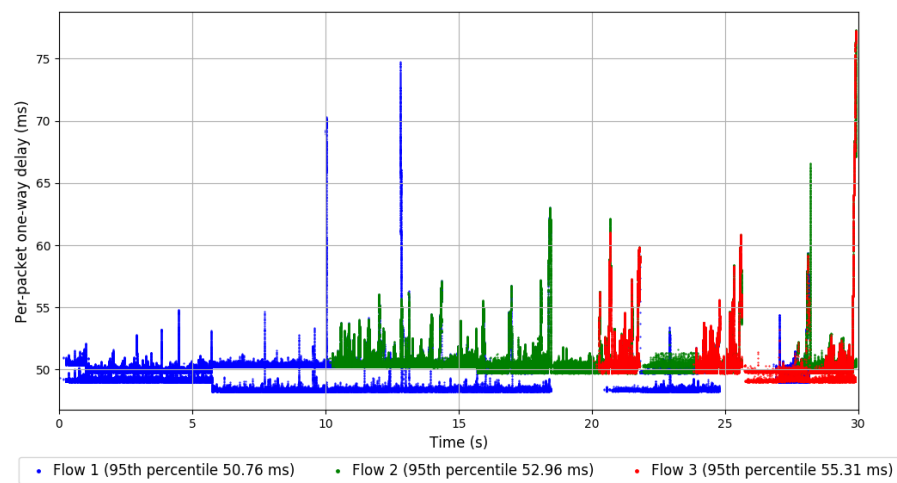
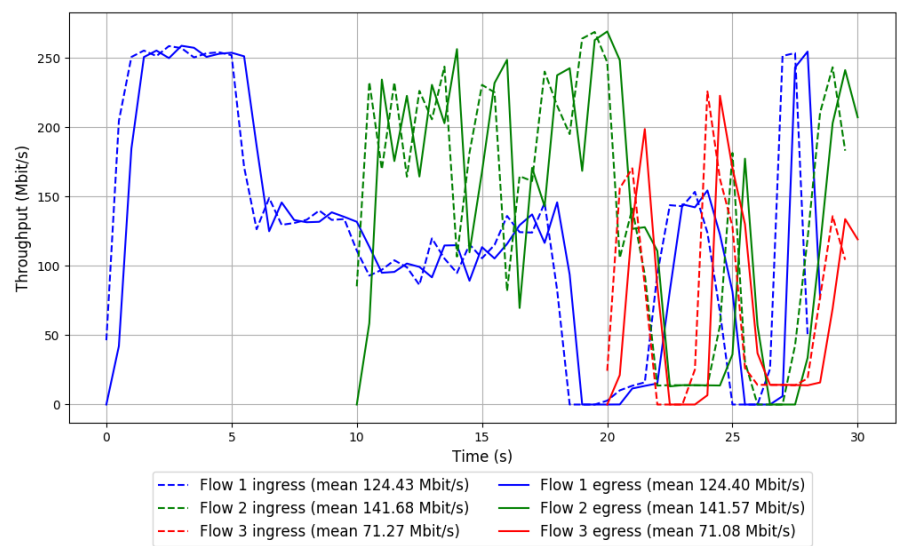


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-26 15:34:35
End at: 2018-05-26 15:35:05
Local clock offset: -0.621 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-26 19:48:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.56 Mbit/s
95th percentile per-packet one-way delay: 52.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 124.40 Mbit/s
95th percentile per-packet one-way delay: 50.762 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.57 Mbit/s
95th percentile per-packet one-way delay: 52.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.08 Mbit/s
95th percentile per-packet one-way delay: 55.313 ms
Loss rate: 0.00%

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

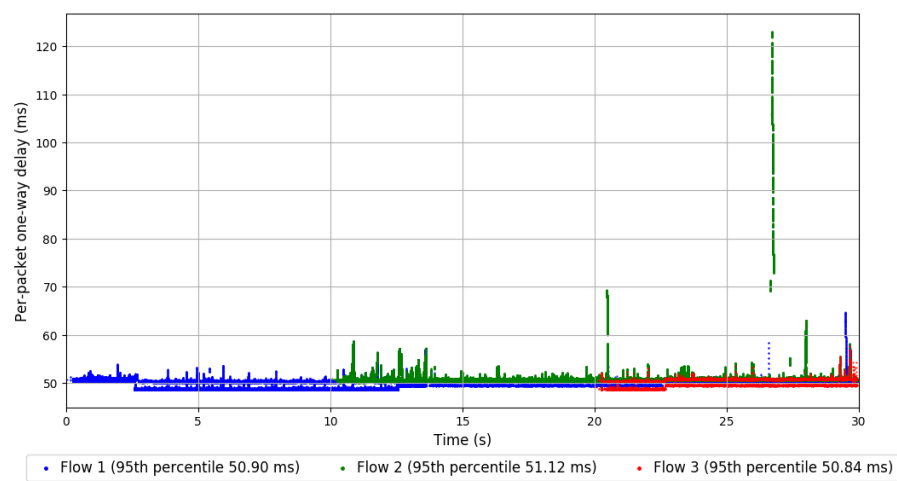
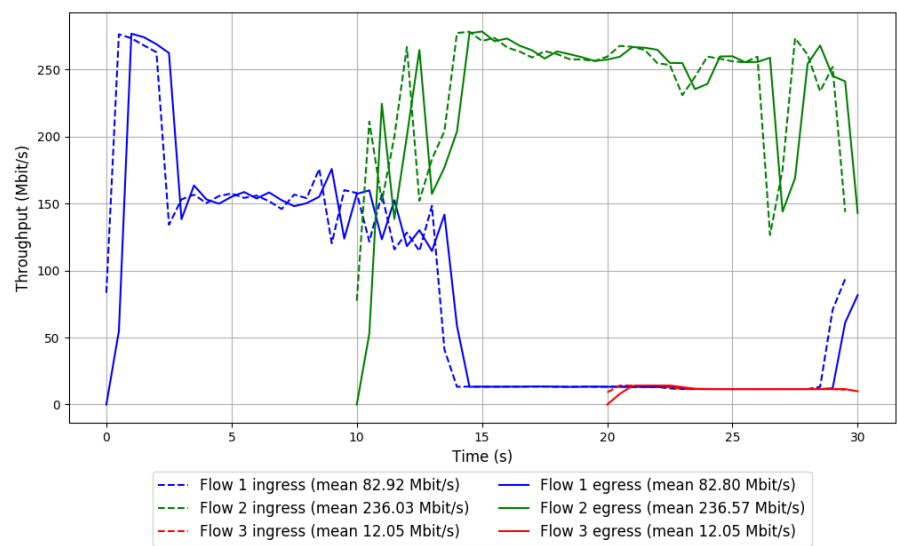


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-26 15:56:58
End at: 2018-05-26 15:57:28
Local clock offset: -0.272 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-05-26 19:48:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 244.10 Mbit/s
95th percentile per-packet one-way delay: 51.018 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 82.80 Mbit/s
95th percentile per-packet one-way delay: 50.897 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 236.57 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.97%

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

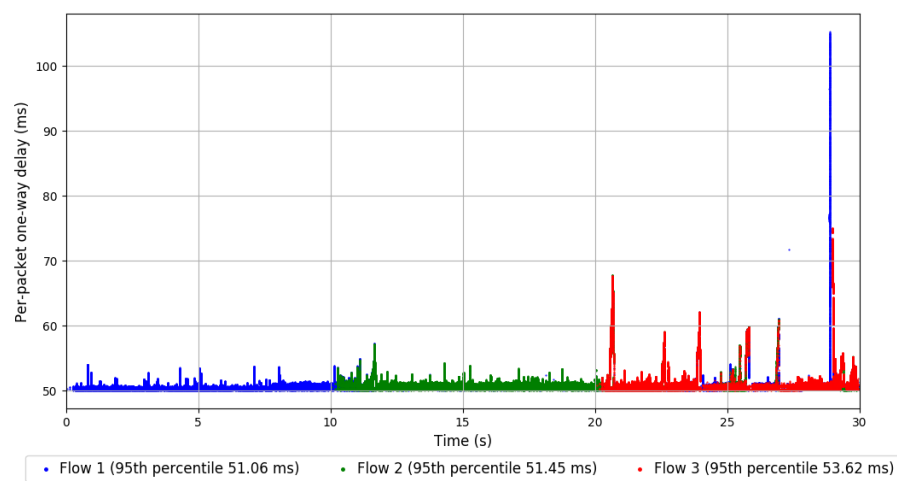
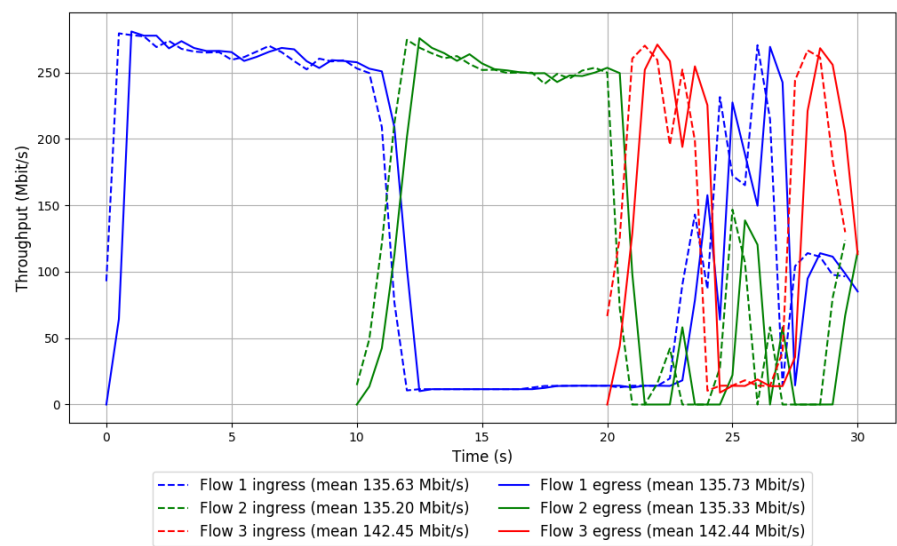


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-26 16:19:23
End at: 2018-05-26 16:19:53
Local clock offset: -0.289 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-05-26 19:49:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 272.76 Mbit/s
95th percentile per-packet one-way delay: 51.429 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 135.73 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 135.33 Mbit/s
95th percentile per-packet one-way delay: 51.447 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 142.44 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 1.01%

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

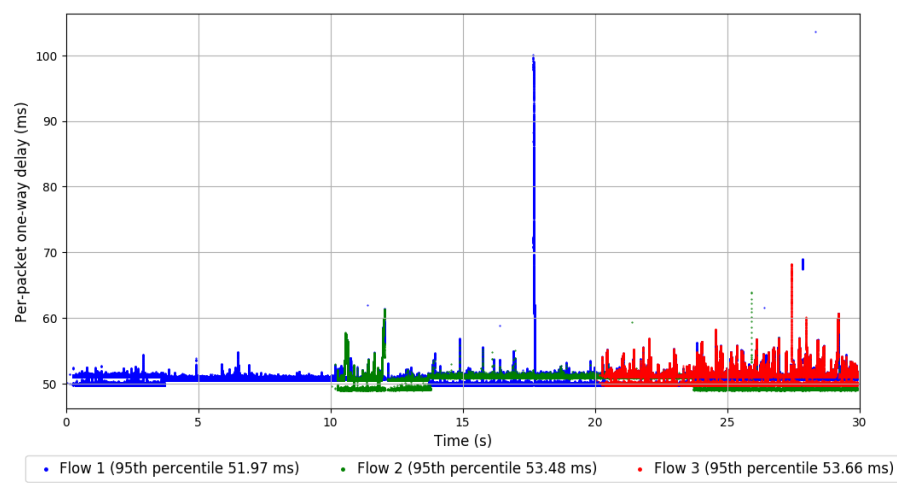
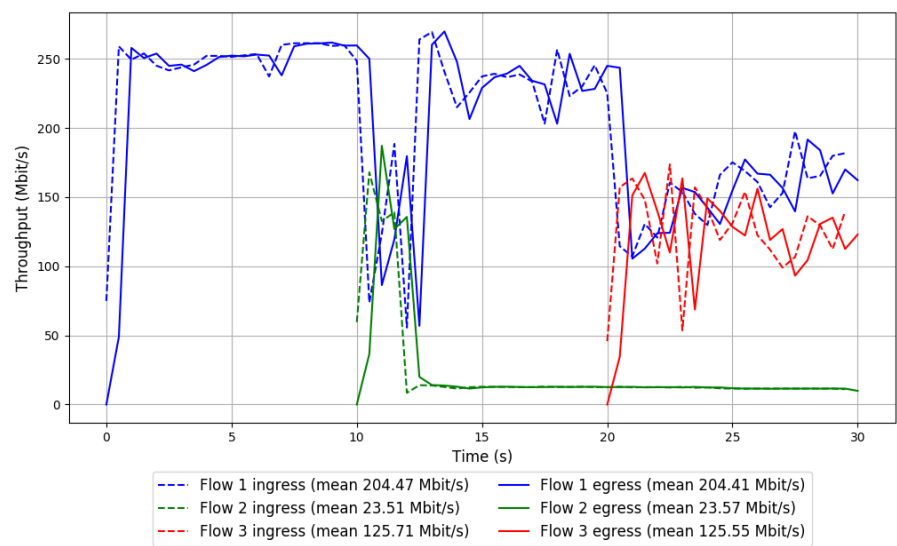


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-26 16:41:47
End at: 2018-05-26 16:42:17
Local clock offset: 0.1 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-26 19:50:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.52 Mbit/s
95th percentile per-packet one-way delay: 52.469 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 204.41 Mbit/s
95th percentile per-packet one-way delay: 51.974 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 53.478 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 125.55 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 1.15%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 17:04:20

End at: 2018-05-26 17:04:50

Local clock offset: -0.231 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-05-26 19:53:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.17 Mbit/s

95th percentile per-packet one-way delay: 51.635 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 124.55 Mbit/s

95th percentile per-packet one-way delay: 52.142 ms

Loss rate: 0.47%

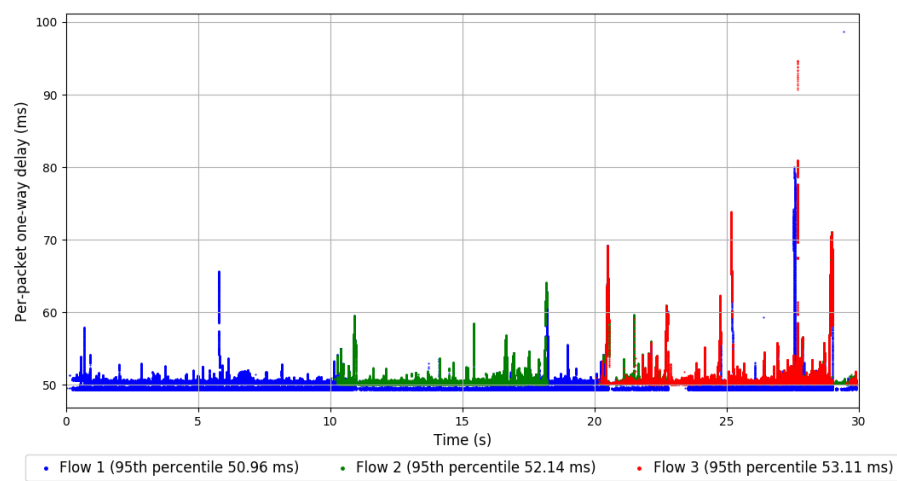
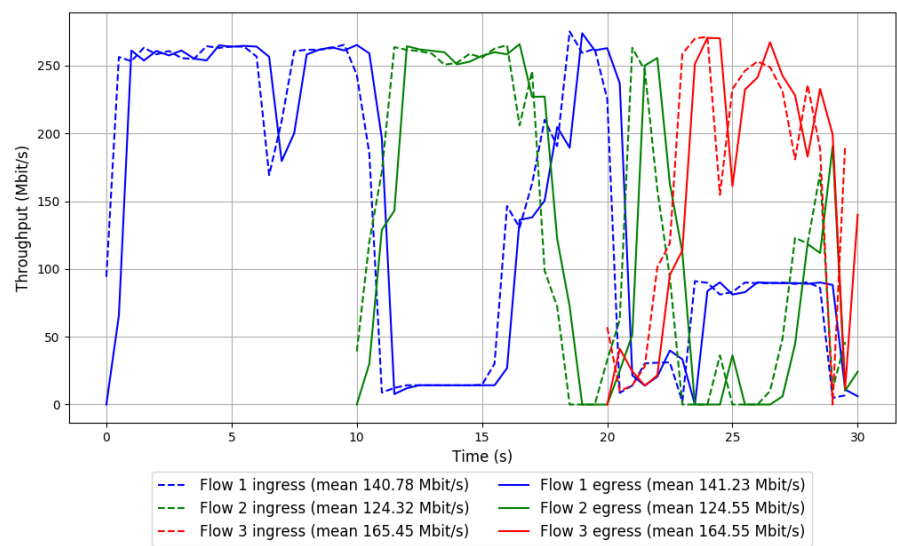
-- Flow 3:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 1.57%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 17:26:41

End at: 2018-05-26 17:27:11

Local clock offset: -0.252 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-05-26 19:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.73 Mbit/s

95th percentile per-packet one-way delay: 52.548 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 51.433 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 108.71 Mbit/s

95th percentile per-packet one-way delay: 54.447 ms

Loss rate: 0.98%

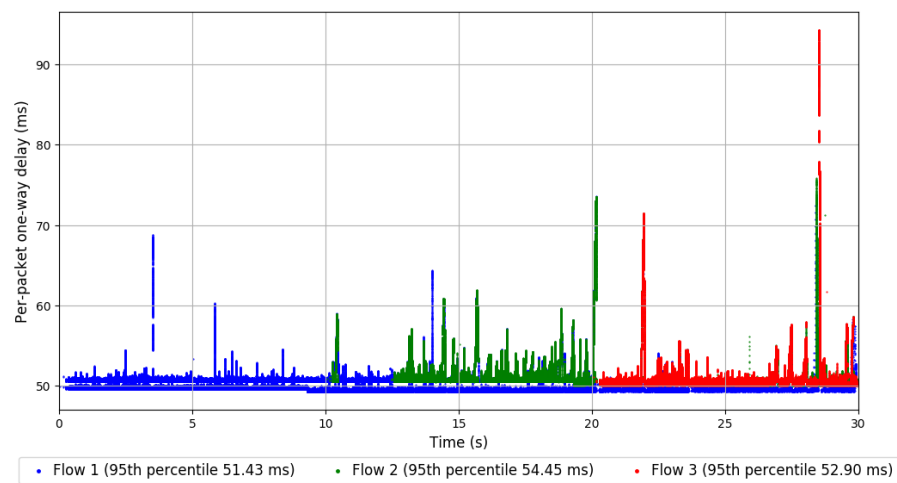
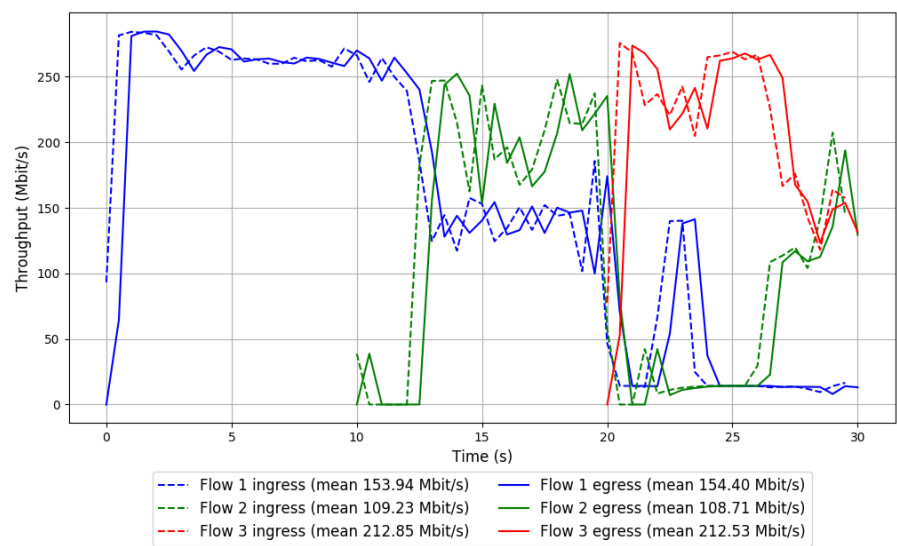
-- Flow 3:

Average throughput: 212.53 Mbit/s

95th percentile per-packet one-way delay: 52.895 ms

Loss rate: 1.16%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 17:49:16

End at: 2018-05-26 17:49:46

Local clock offset: -0.235 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-26 19:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.80 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 110.22 Mbit/s

95th percentile per-packet one-way delay: 50.738 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 130.85 Mbit/s

95th percentile per-packet one-way delay: 50.695 ms

Loss rate: 0.35%

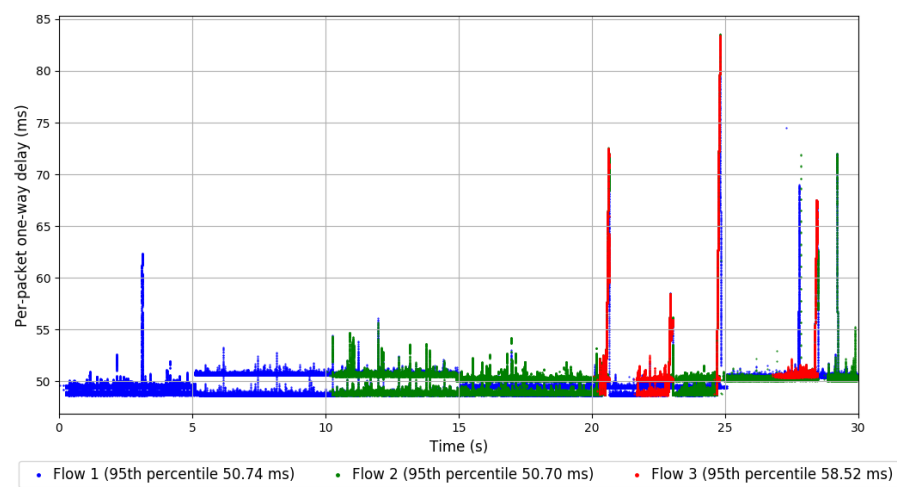
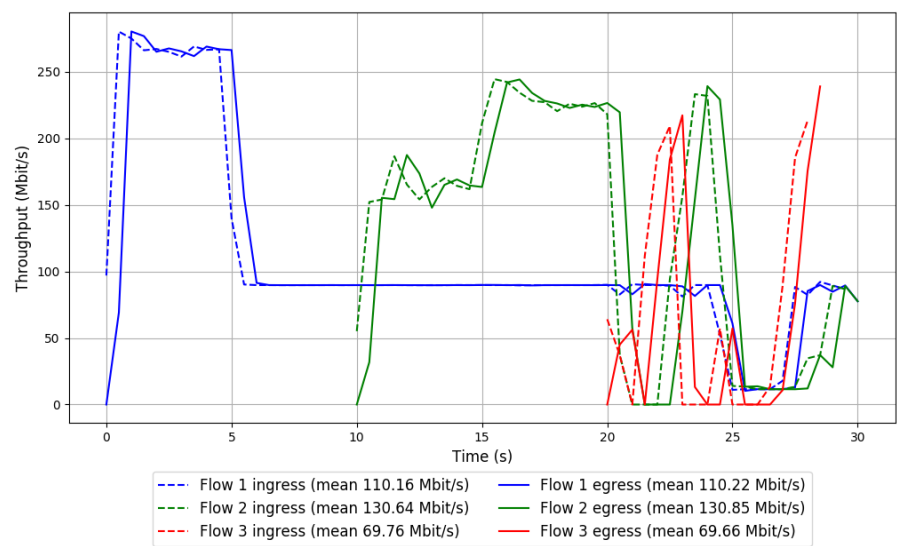
-- Flow 3:

Average throughput: 69.66 Mbit/s

95th percentile per-packet one-way delay: 58.525 ms

Loss rate: 0.00%

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

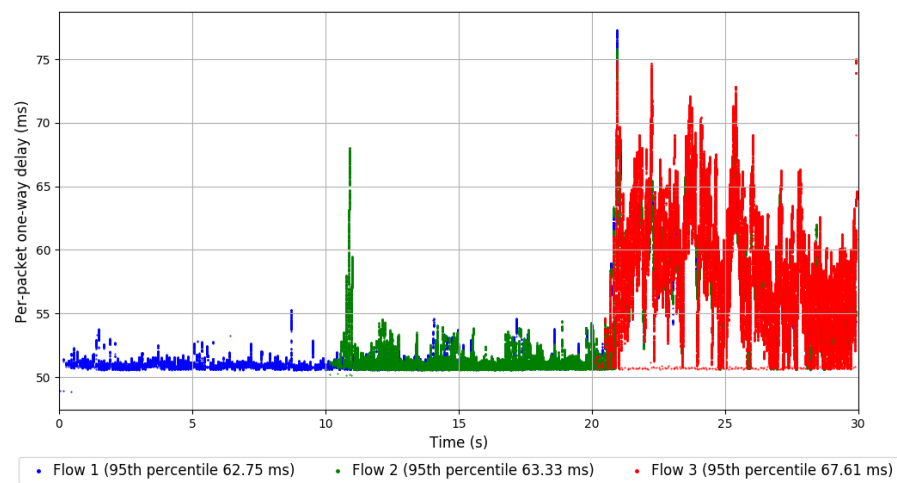
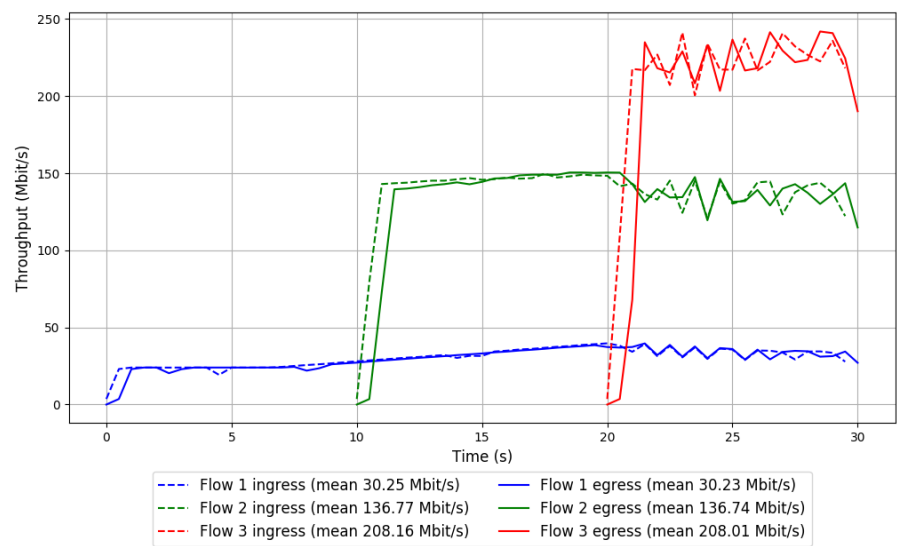


Run 1: Statistics of TCP Vegas

Start at: 2018-05-26 14:23:43
End at: 2018-05-26 14:24:13
Local clock offset: -0.217 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 189.67 Mbit/s
95th percentile per-packet one-way delay: 65.620 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 62.753 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 136.74 Mbit/s
95th percentile per-packet one-way delay: 63.329 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 208.01 Mbit/s
95th percentile per-packet one-way delay: 67.611 ms
Loss rate: 1.09%

Run 1: Report of TCP Vegas — Data Link

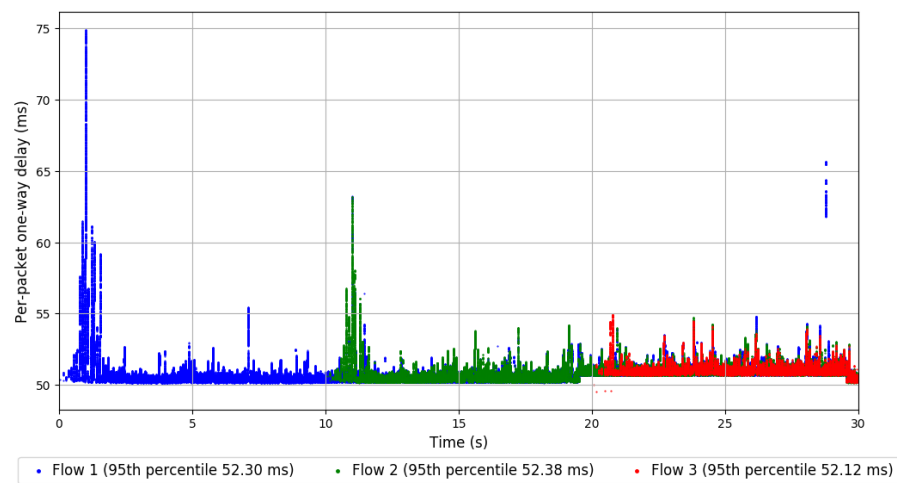
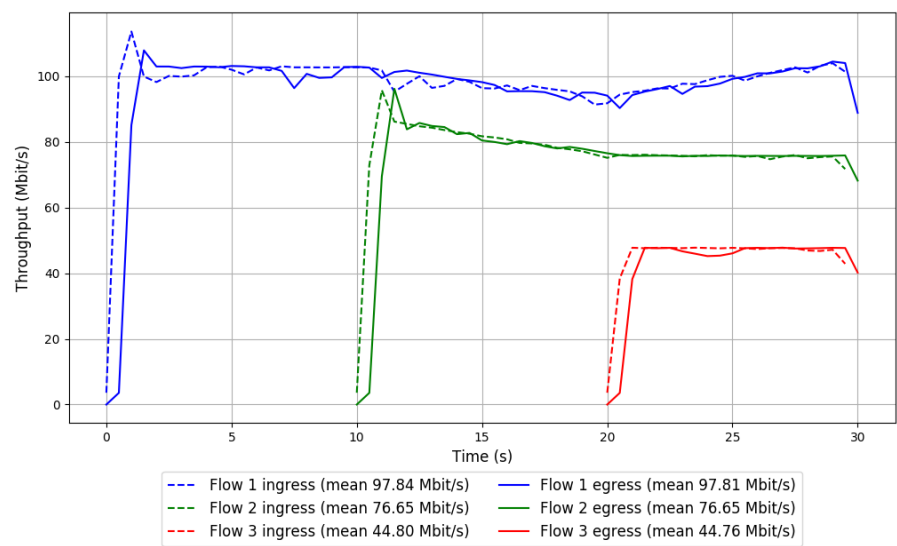


Run 2: Statistics of TCP Vegas

Start at: 2018-05-26 14:45:51
End at: 2018-05-26 14:46:21
Local clock offset: -0.128 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 163.54 Mbit/s
95th percentile per-packet one-way delay: 52.304 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 97.81 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 52.379 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 52.116 ms
Loss rate: 1.08%

Run 2: Report of TCP Vegas — Data Link

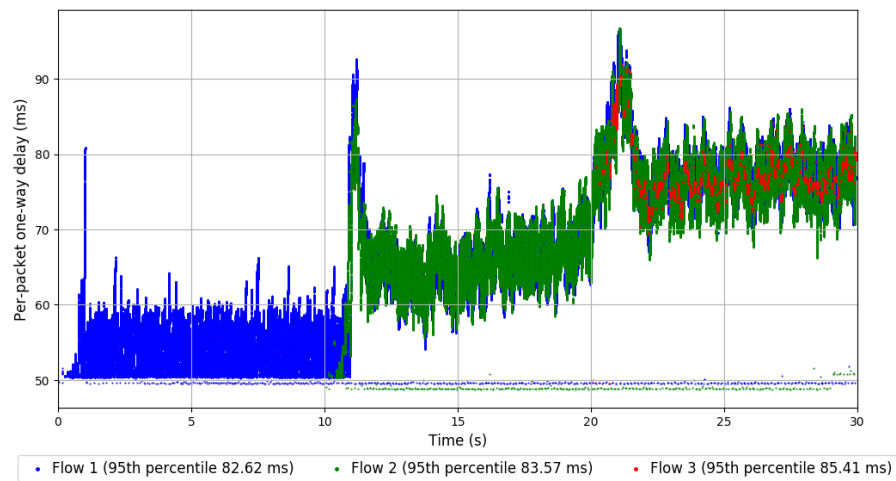
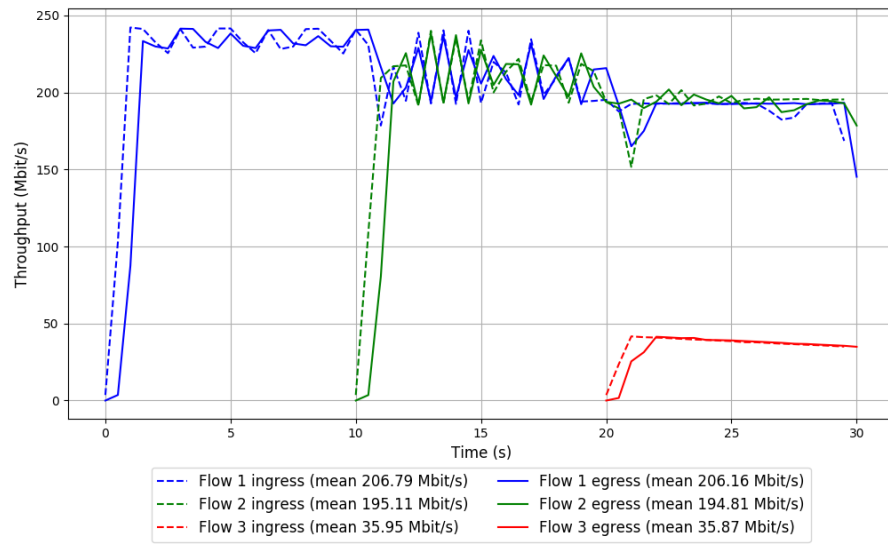


Run 3: Statistics of TCP Vegas

Start at: 2018-05-26 15:08:12
End at: 2018-05-26 15:08:42
Local clock offset: -0.168 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.53 Mbit/s
95th percentile per-packet one-way delay: 83.227 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 206.16 Mbit/s
95th percentile per-packet one-way delay: 82.617 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 194.81 Mbit/s
95th percentile per-packet one-way delay: 83.574 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 85.405 ms
Loss rate: 1.22%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-26 15:30:36

End at: 2018-05-26 15:31:06

Local clock offset: -0.217 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-05-26 19:56:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.50 Mbit/s

95th percentile per-packet one-way delay: 61.562 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 113.43 Mbit/s

95th percentile per-packet one-way delay: 59.778 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 62.234 ms

Loss rate: 0.10%

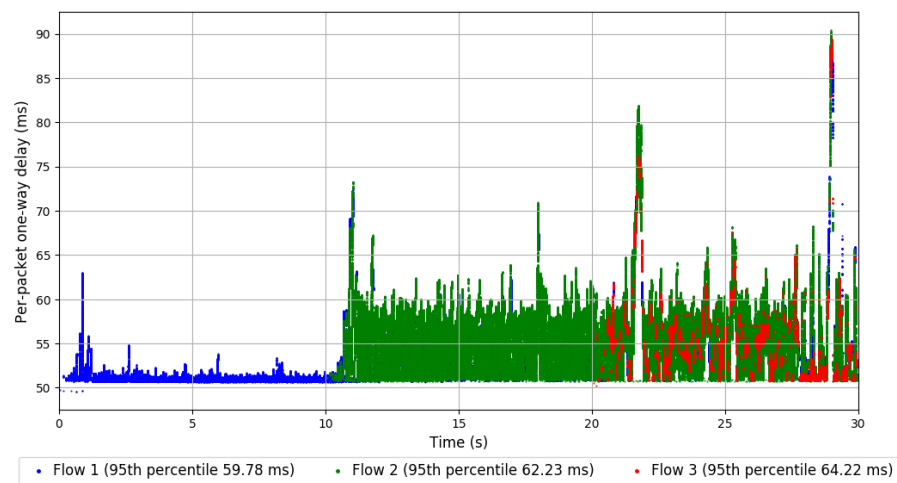
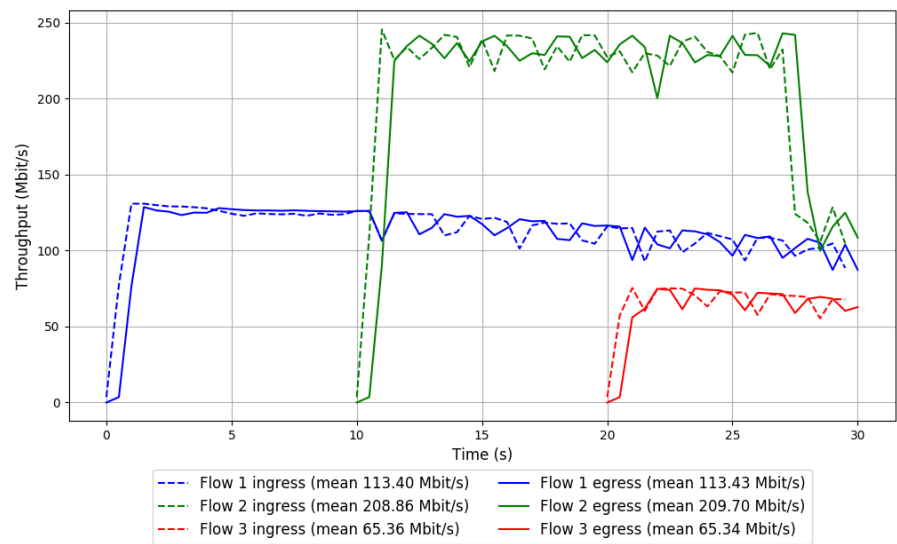
-- Flow 3:

Average throughput: 65.34 Mbit/s

95th percentile per-packet one-way delay: 64.219 ms

Loss rate: 1.04%

Run 4: Report of TCP Vegas — Data Link

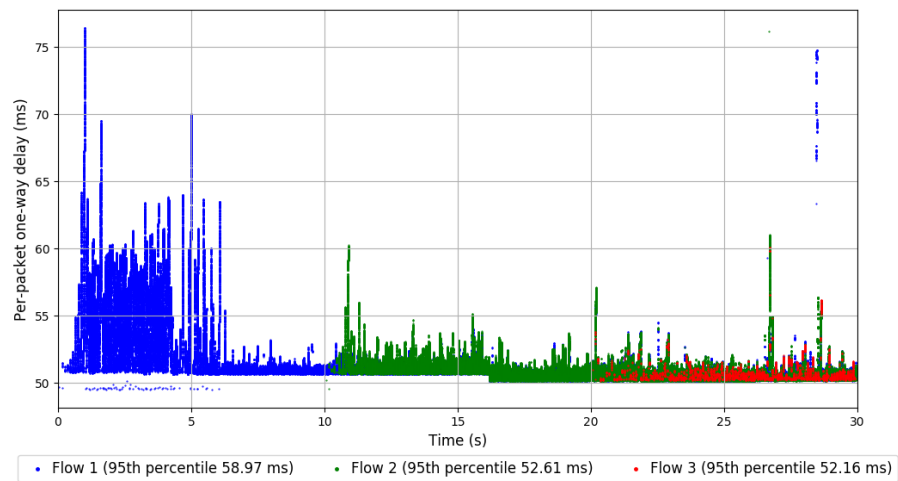
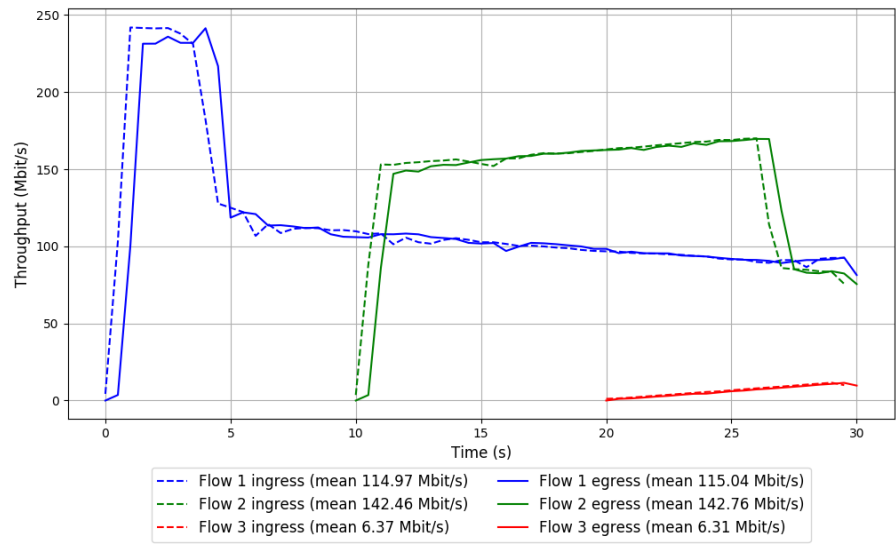


Run 5: Statistics of TCP Vegas

Start at: 2018-05-26 15:53:04
End at: 2018-05-26 15:53:34
Local clock offset: -0.202 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 212.08 Mbit/s
95th percentile per-packet one-way delay: 57.539 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 115.04 Mbit/s
95th percentile per-packet one-way delay: 58.973 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 142.76 Mbit/s
95th percentile per-packet one-way delay: 52.609 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 52.161 ms
Loss rate: 1.95%

Run 5: Report of TCP Vegas — Data Link

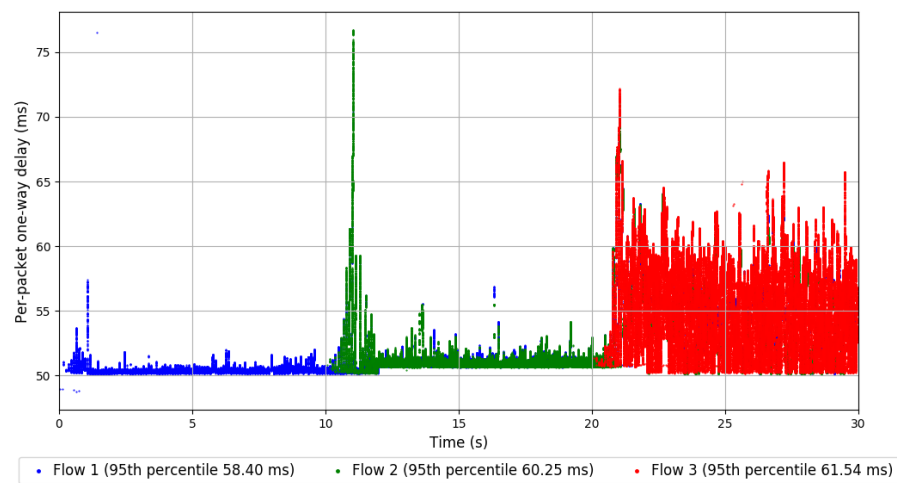
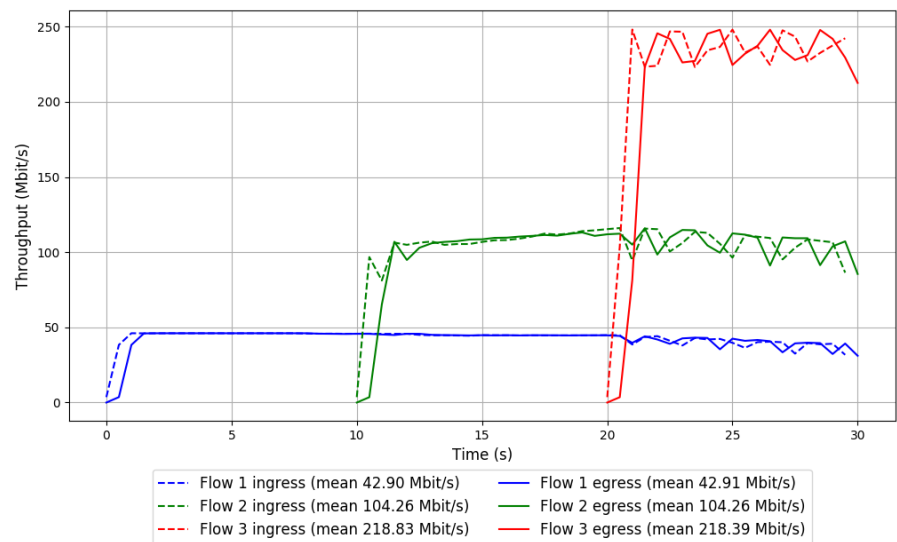


Run 6: Statistics of TCP Vegas

Start at: 2018-05-26 16:15:28
End at: 2018-05-26 16:15:58
Local clock offset: -0.251 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 184.22 Mbit/s
95th percentile per-packet one-way delay: 60.750 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 58.401 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 104.26 Mbit/s
95th percentile per-packet one-way delay: 60.246 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 218.39 Mbit/s
95th percentile per-packet one-way delay: 61.538 ms
Loss rate: 1.22%

Run 6: Report of TCP Vegas — Data Link

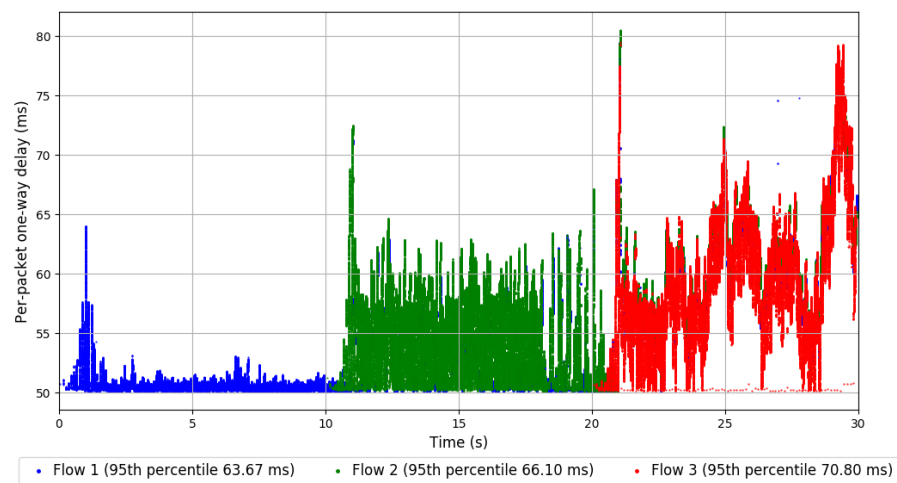
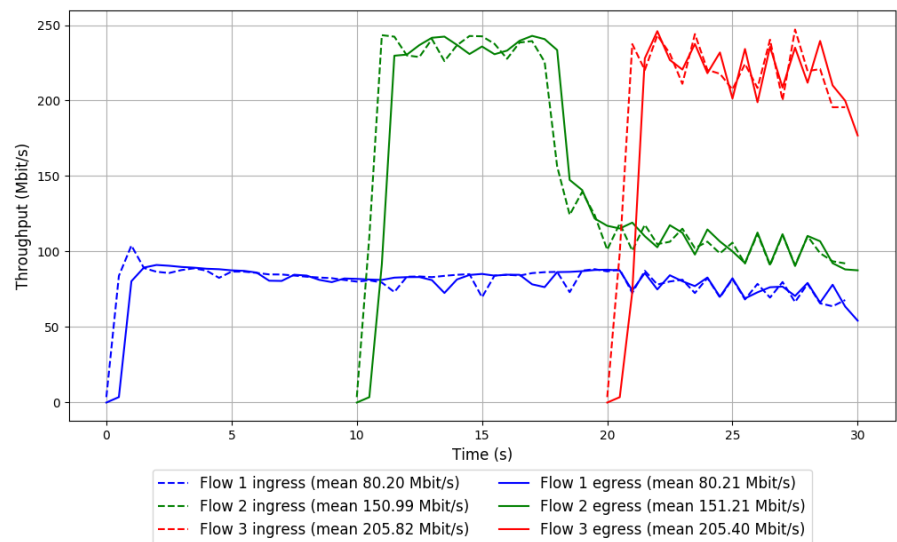


Run 7: Statistics of TCP Vegas

Start at: 2018-05-26 16:37:51
End at: 2018-05-26 16:38:21
Local clock offset: -0.278 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-26 19:56:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 67.265 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 80.21 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 151.21 Mbit/s
95th percentile per-packet one-way delay: 66.103 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 205.40 Mbit/s
95th percentile per-packet one-way delay: 70.796 ms
Loss rate: 1.21%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 17:00:22

End at: 2018-05-26 17:00:52

Local clock offset: -0.219 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-26 19:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.96 Mbit/s

95th percentile per-packet one-way delay: 64.863 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 211.26 Mbit/s

95th percentile per-packet one-way delay: 64.527 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 29.81 Mbit/s

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

Loss rate: 0.44%

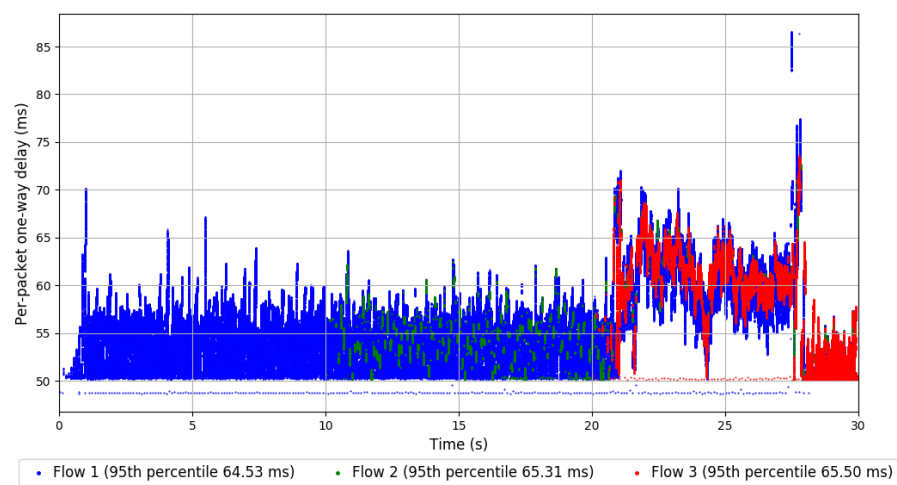
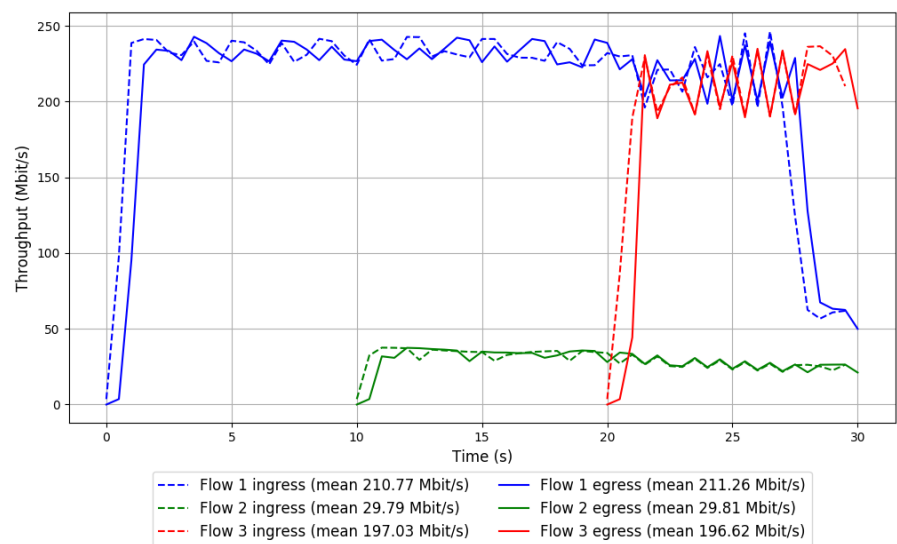
-- Flow 3:

Average throughput: 196.62 Mbit/s

95th percentile per-packet one-way delay: 65.503 ms

Loss rate: 1.21%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 17:22:48

End at: 2018-05-26 17:23:18

Local clock offset: -0.202 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-05-26 19:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.24 Mbit/s

95th percentile per-packet one-way delay: 60.423 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 192.71 Mbit/s

95th percentile per-packet one-way delay: 60.513 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 28.00 Mbit/s

95th percentile per-packet one-way delay: 57.937 ms

Loss rate: 0.56%

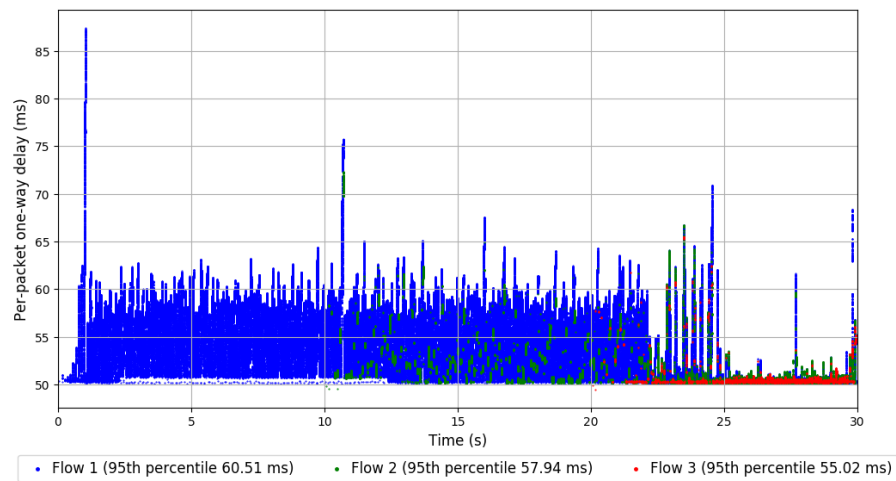
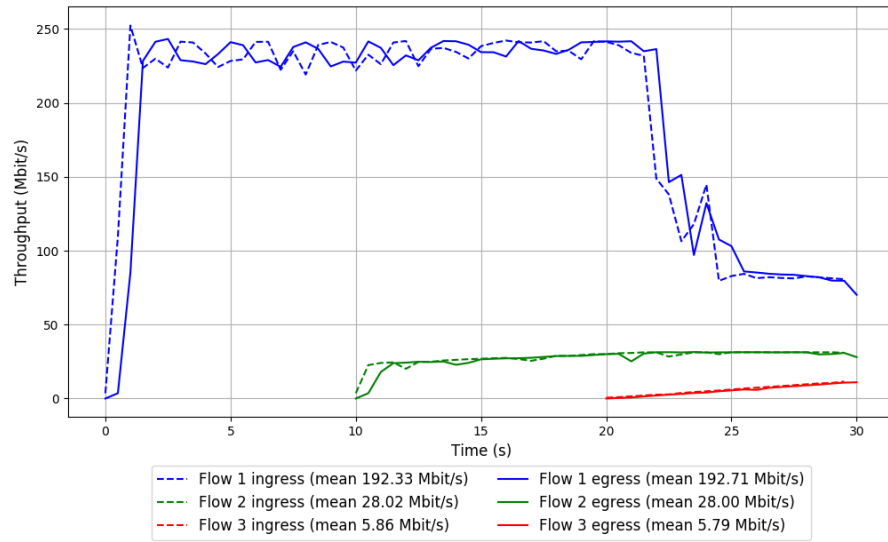
-- Flow 3:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 55.022 ms

Loss rate: 2.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 17:45:14

End at: 2018-05-26 17:45:44

Local clock offset: -0.237 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-05-26 19:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.78 Mbit/s

95th percentile per-packet one-way delay: 76.330 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 203.25 Mbit/s

95th percentile per-packet one-way delay: 75.970 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 187.29 Mbit/s

95th percentile per-packet one-way delay: 76.797 ms

Loss rate: 0.41%

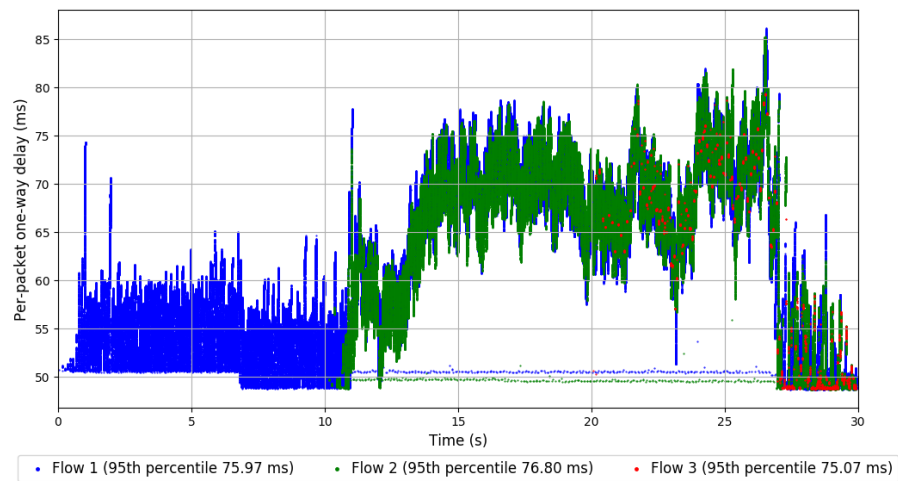
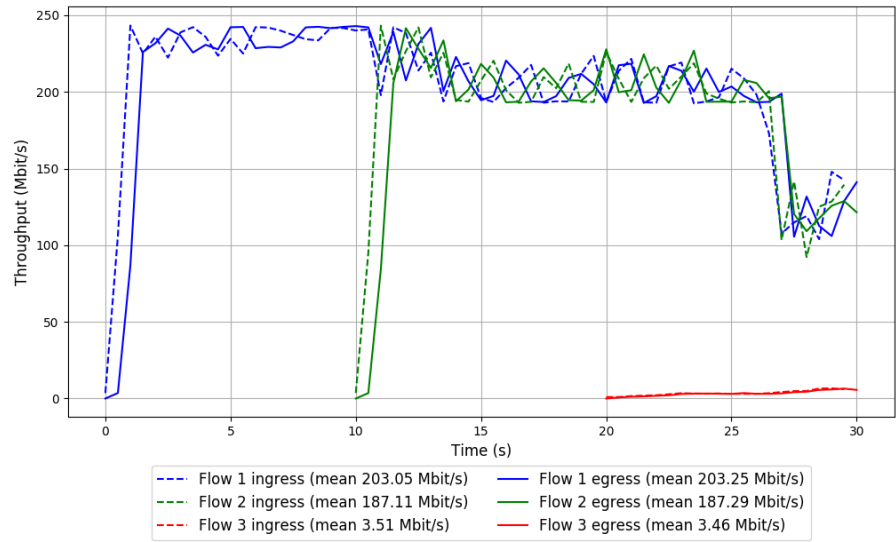
-- Flow 3:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 75.068 ms

Loss rate: 2.17%

Run 10: Report of TCP Vegas — Data Link

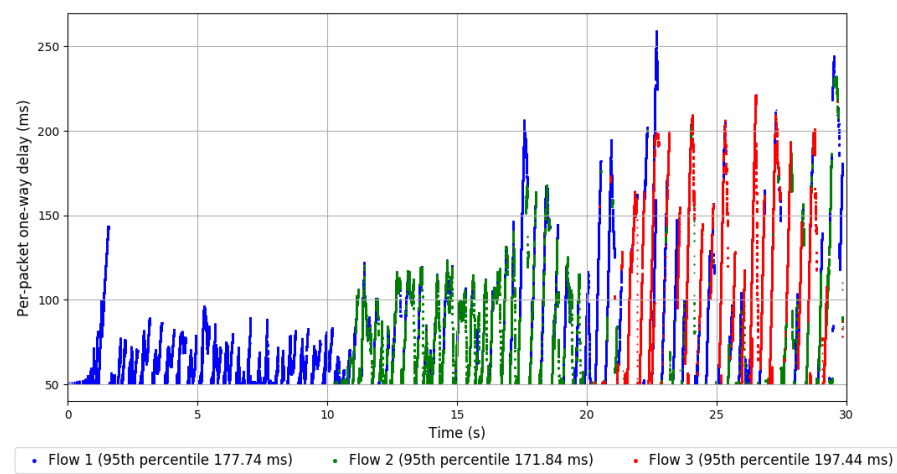
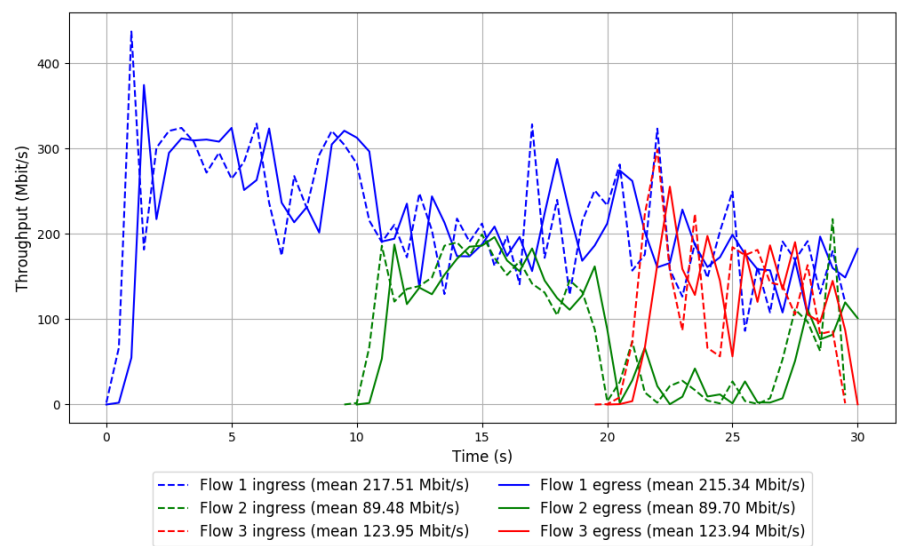


Run 1: Statistics of Verus

Start at: 2018-05-26 14:25:00
End at: 2018-05-26 14:25:30
Local clock offset: -0.194 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-05-26 19:59:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.68 Mbit/s
95th percentile per-packet one-way delay: 186.431 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 215.34 Mbit/s
95th percentile per-packet one-way delay: 177.735 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 171.841 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 123.94 Mbit/s
95th percentile per-packet one-way delay: 197.437 ms
Loss rate: 1.34%

Run 1: Report of Verus — Data Link

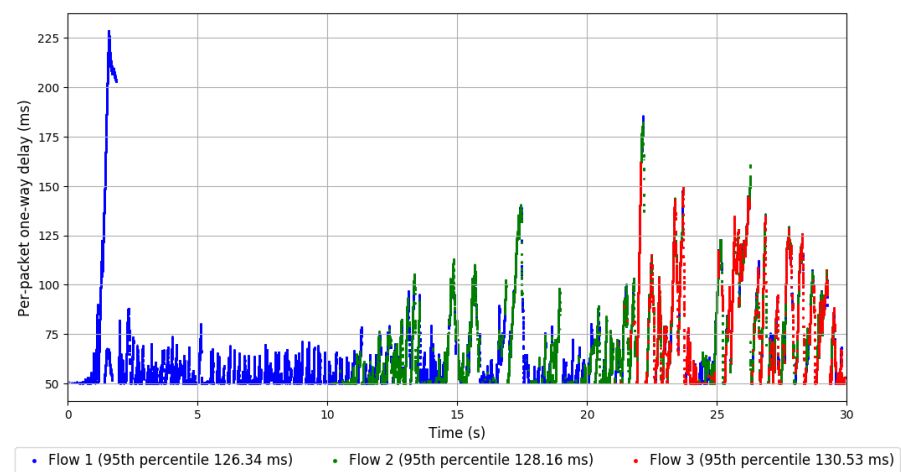
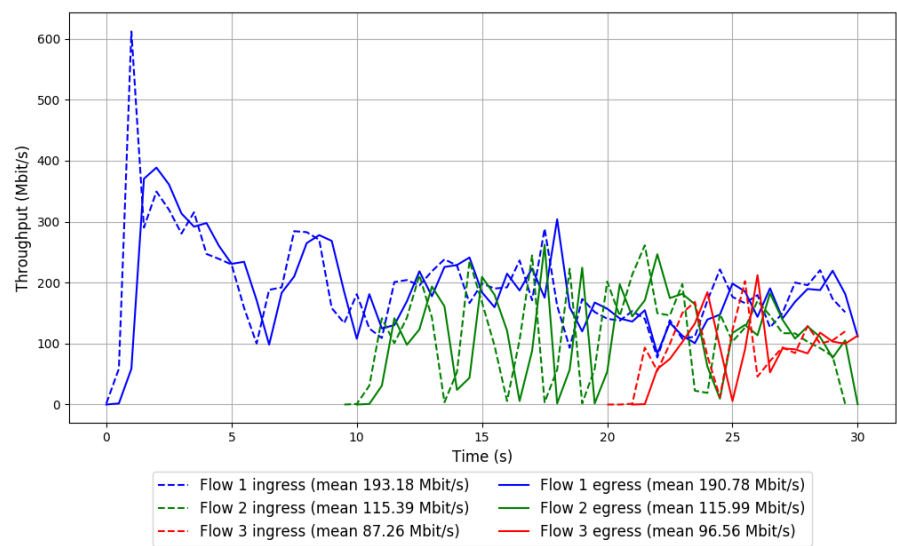


Run 2: Statistics of Verus

Start at: 2018-05-26 14:47:07
End at: 2018-05-26 14:47:37
Local clock offset: -0.172 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-26 19:59:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 296.23 Mbit/s
95th percentile per-packet one-way delay: 127.581 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 190.78 Mbit/s
95th percentile per-packet one-way delay: 126.338 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 115.99 Mbit/s
95th percentile per-packet one-way delay: 128.158 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 130.535 ms
Loss rate: 1.43%

Run 2: Report of Verus — Data Link

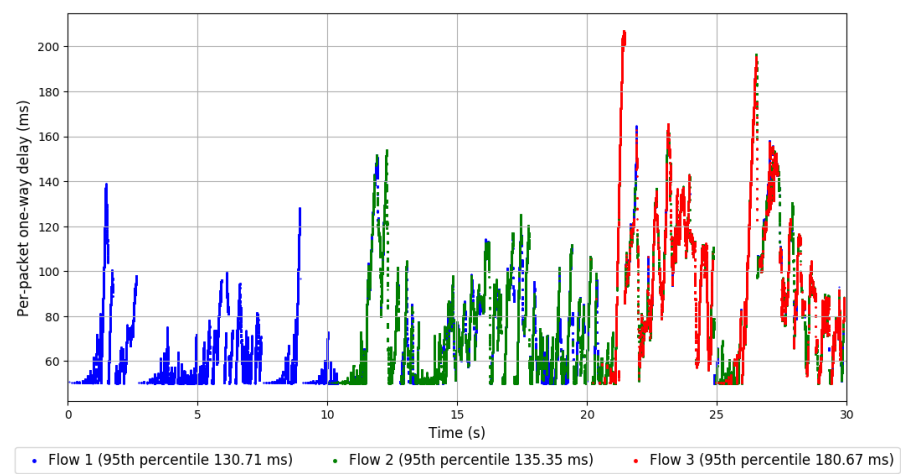
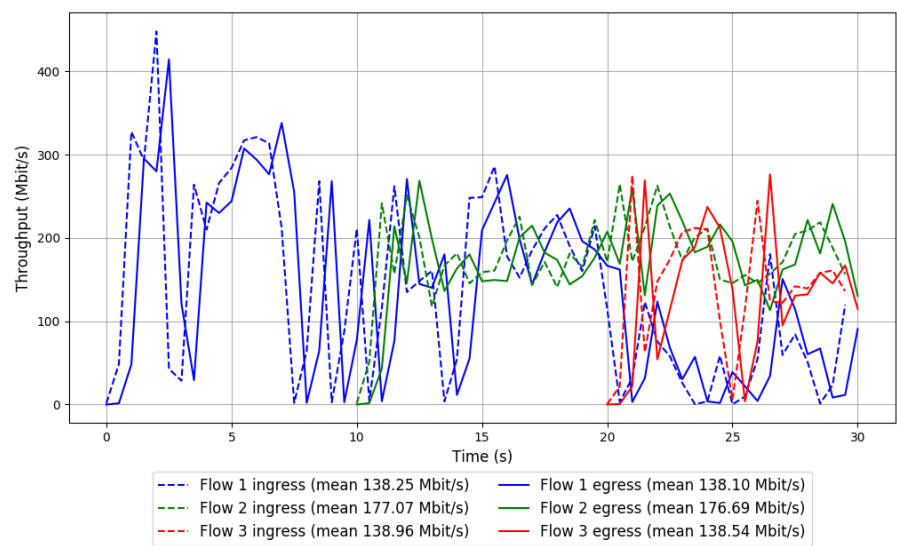


Run 3: Statistics of Verus

Start at: 2018-05-26 15:09:39
End at: 2018-05-26 15:10:09
Local clock offset: -0.22 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-26 19:59:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.75 Mbit/s
95th percentile per-packet one-way delay: 141.243 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 138.10 Mbit/s
95th percentile per-packet one-way delay: 130.712 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 176.69 Mbit/s
95th percentile per-packet one-way delay: 135.348 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 138.54 Mbit/s
95th percentile per-packet one-way delay: 180.667 ms
Loss rate: 1.83%

Run 3: Report of Verus — Data Link

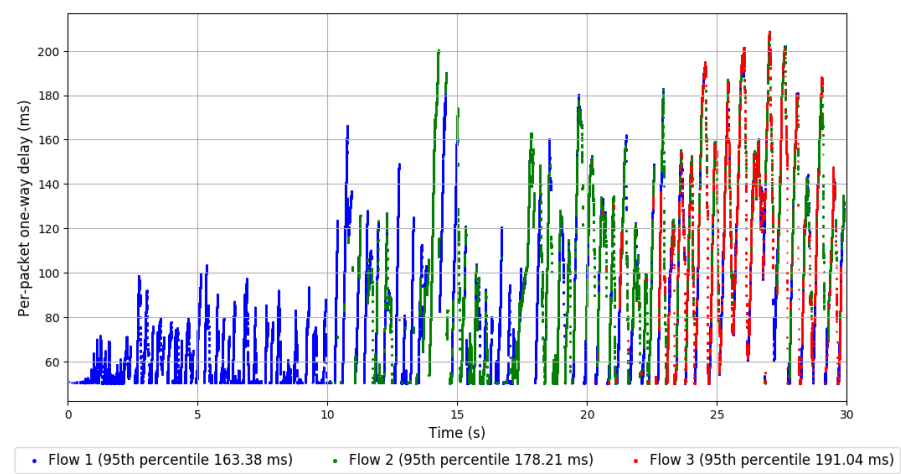
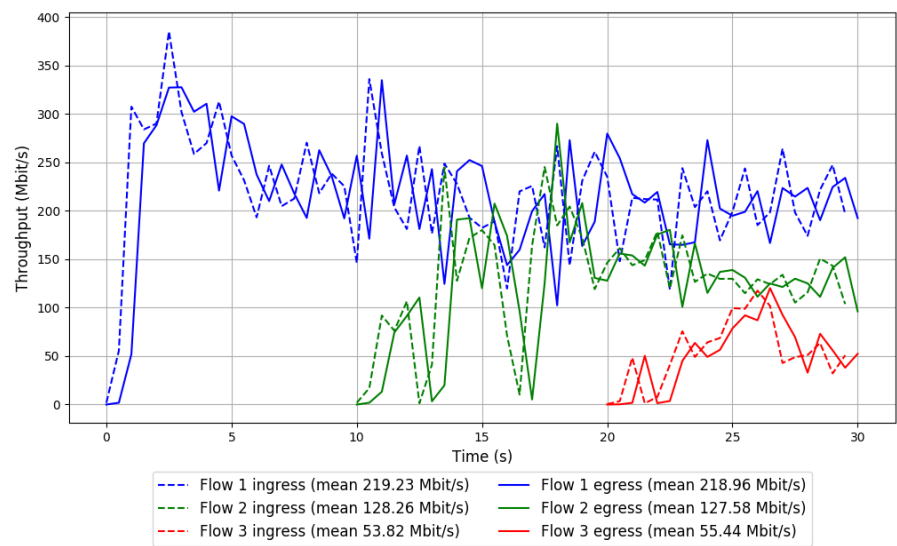


Run 4: Statistics of Verus

Start at: 2018-05-26 15:31:58
End at: 2018-05-26 15:32:28
Local clock offset: -0.627 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-05-26 20:00:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 321.57 Mbit/s
95th percentile per-packet one-way delay: 171.831 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 218.96 Mbit/s
95th percentile per-packet one-way delay: 163.380 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 127.58 Mbit/s
95th percentile per-packet one-way delay: 178.208 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 191.039 ms
Loss rate: 0.32%

Run 4: Report of Verus — Data Link

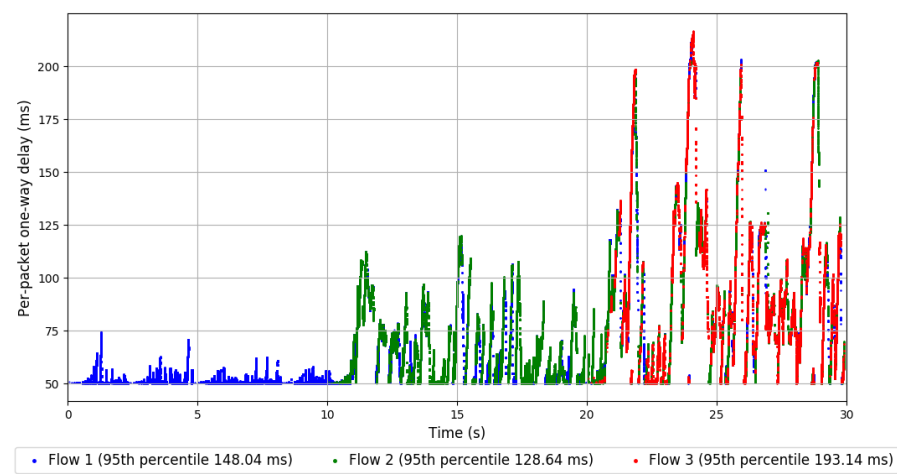
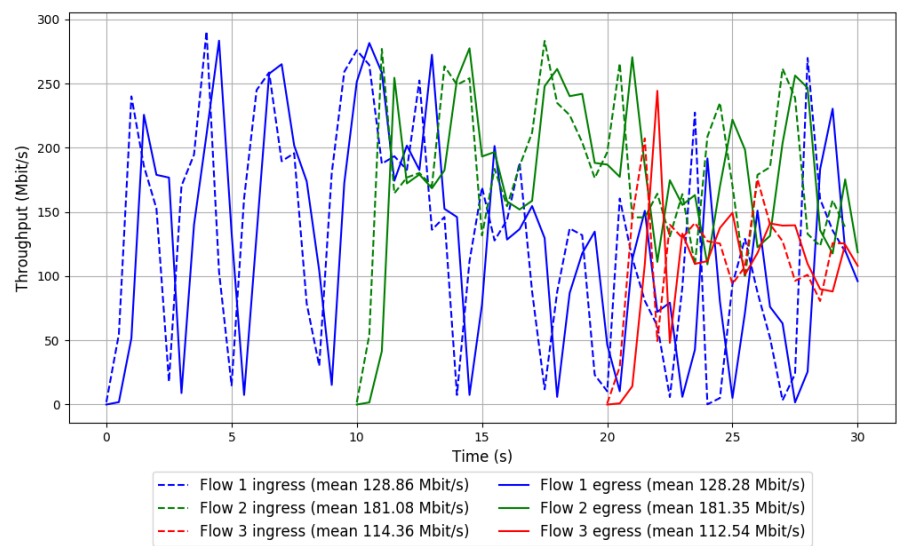


Run 5: Statistics of Verus

Start at: 2018-05-26 15:54:23
End at: 2018-05-26 15:54:53
Local clock offset: -0.236 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-05-26 20:01:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.95 Mbit/s
95th percentile per-packet one-way delay: 148.153 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 128.28 Mbit/s
95th percentile per-packet one-way delay: 148.040 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 181.35 Mbit/s
95th percentile per-packet one-way delay: 128.640 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 112.54 Mbit/s
95th percentile per-packet one-way delay: 193.139 ms
Loss rate: 2.35%

Run 5: Report of Verus — Data Link

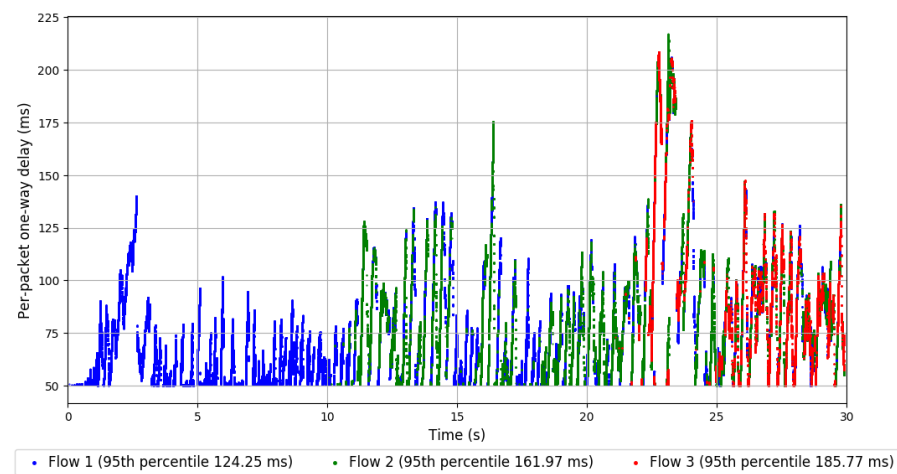
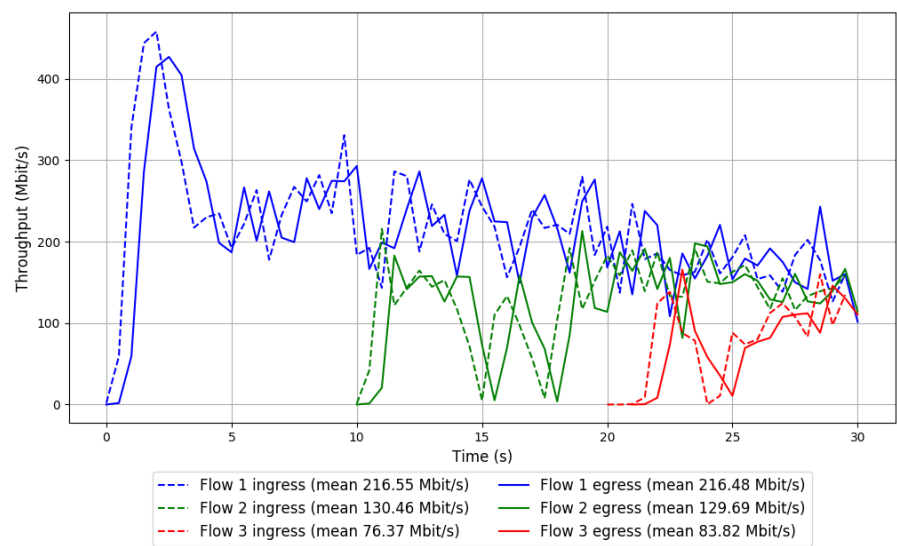


Run 6: Statistics of Verus

Start at: 2018-05-26 16:16:46
End at: 2018-05-26 16:17:16
Local clock offset: -0.283 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-26 20:03:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.05 Mbit/s
95th percentile per-packet one-way delay: 132.332 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 216.48 Mbit/s
95th percentile per-packet one-way delay: 124.248 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 129.69 Mbit/s
95th percentile per-packet one-way delay: 161.971 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 83.82 Mbit/s
95th percentile per-packet one-way delay: 185.772 ms
Loss rate: 2.38%

Run 6: Report of Verus — Data Link

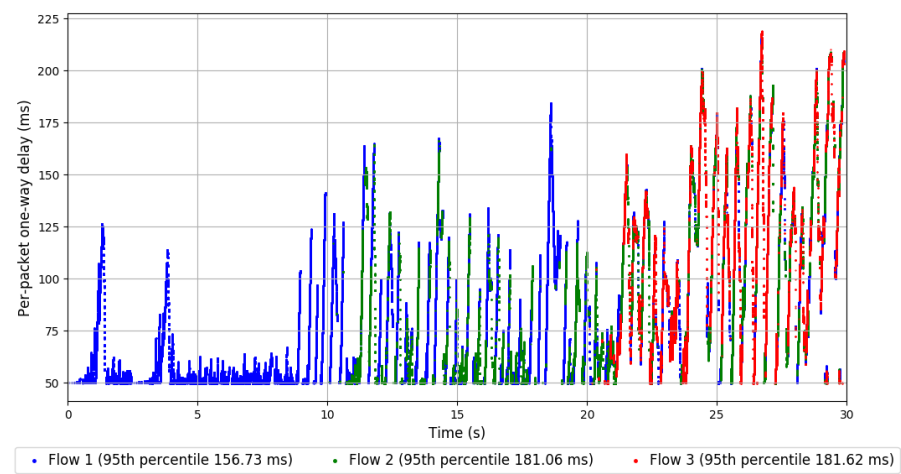
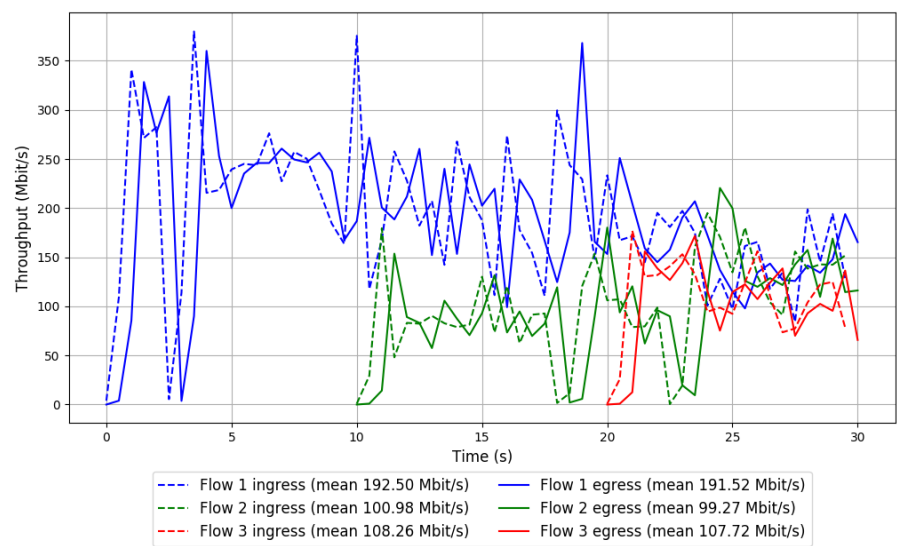


Run 7: Statistics of Verus

Start at: 2018-05-26 16:39:12
End at: 2018-05-26 16:39:42
Local clock offset: -0.645 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-26 20:03:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.83 Mbit/s
95th percentile per-packet one-way delay: 172.966 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 191.52 Mbit/s
95th percentile per-packet one-way delay: 156.728 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 99.27 Mbit/s
95th percentile per-packet one-way delay: 181.059 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 107.72 Mbit/s
95th percentile per-packet one-way delay: 181.622 ms
Loss rate: 1.77%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-26 17:01:45

End at: 2018-05-26 17:02:15

Local clock offset: -0.249 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-05-26 20:04:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.86 Mbit/s

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

Loss rate: 0.81%

-- Flow 1:

Average throughput: 143.80 Mbit/s

95th percentile per-packet one-way delay: 137.950 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 184.99 Mbit/s

95th percentile per-packet one-way delay: 188.689 ms

Loss rate: 1.26%

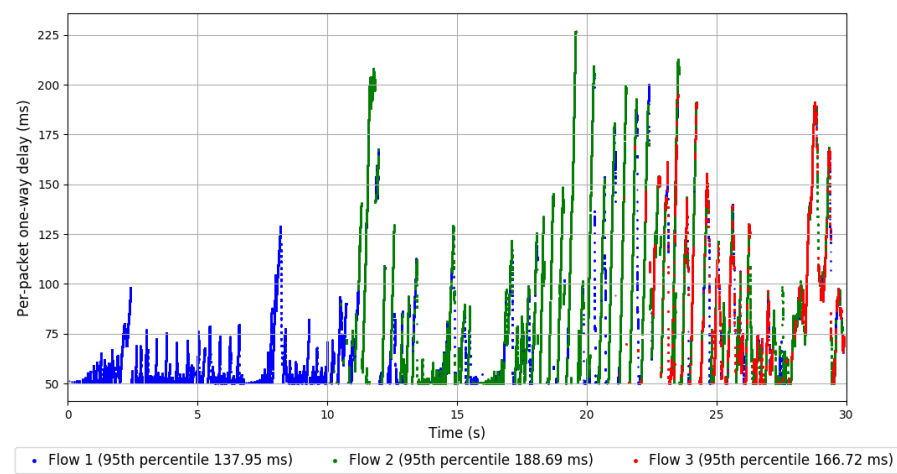
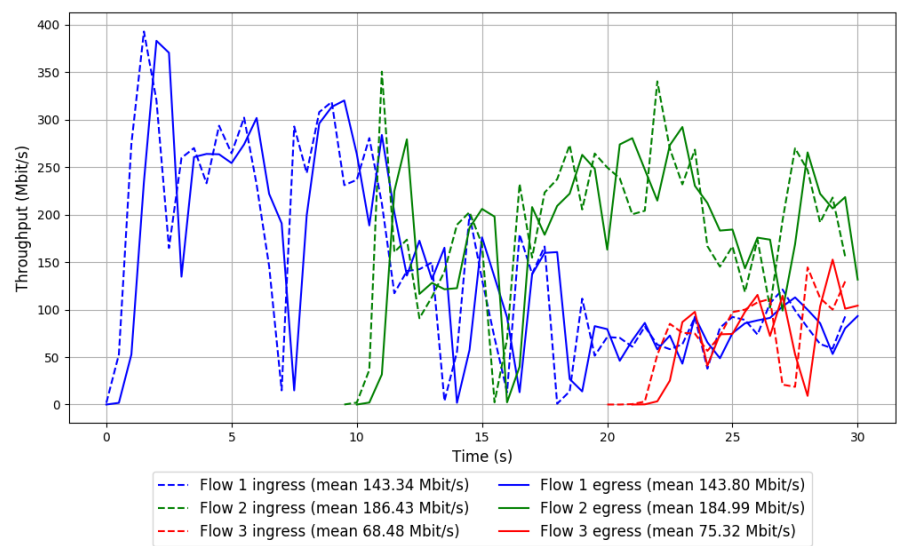
-- Flow 3:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 166.719 ms

Loss rate: 2.68%

Run 8: Report of Verus — Data Link

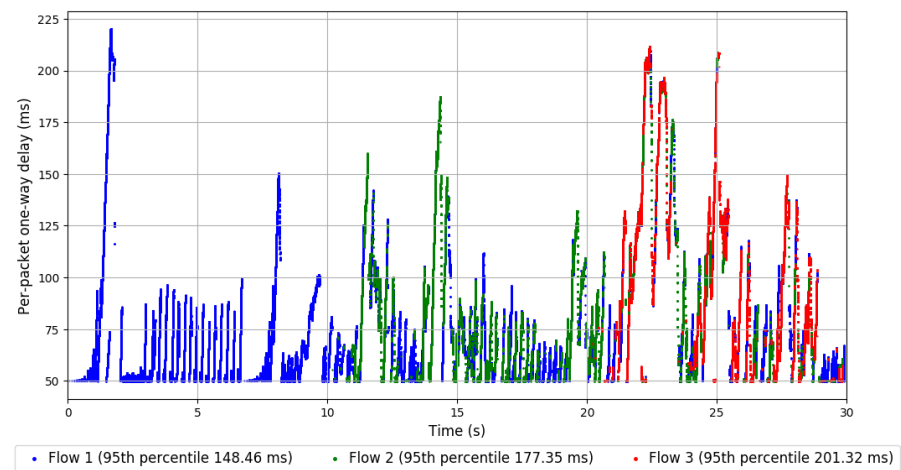
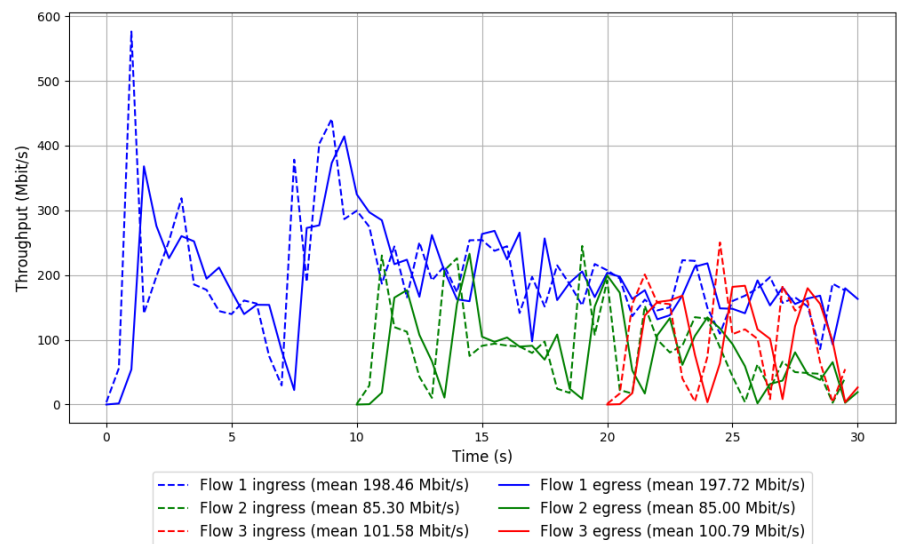


Run 9: Statistics of Verus

Start at: 2018-05-26 17:24:07
End at: 2018-05-26 17:24:37
Local clock offset: -0.574 ms
Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-26 20:04:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 286.85 Mbit/s
95th percentile per-packet one-way delay: 172.620 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 197.72 Mbit/s
95th percentile per-packet one-way delay: 148.464 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 177.348 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 100.79 Mbit/s
95th percentile per-packet one-way delay: 201.324 ms
Loss rate: 1.99%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-26 17:46:39

End at: 2018-05-26 17:47:09

Local clock offset: -0.611 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-26 20:05:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.19 Mbit/s

95th percentile per-packet one-way delay: 160.860 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 205.68 Mbit/s

95th percentile per-packet one-way delay: 152.260 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 119.77 Mbit/s

95th percentile per-packet one-way delay: 176.471 ms

Loss rate: 2.69%

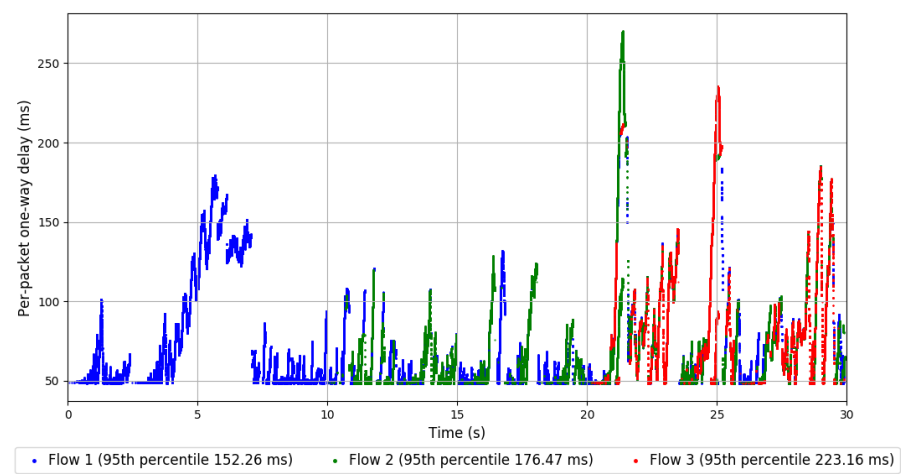
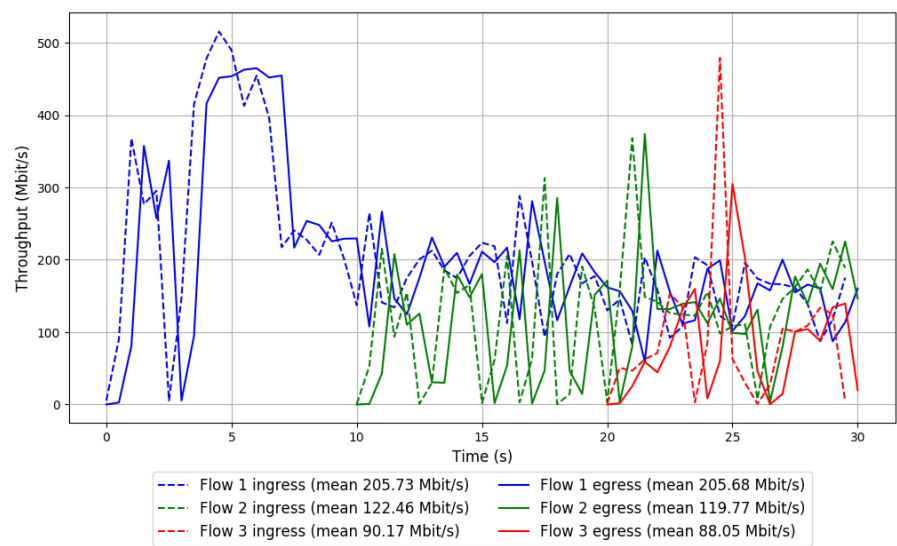
-- Flow 3:

Average throughput: 88.05 Mbit/s

95th percentile per-packet one-way delay: 223.155 ms

Loss rate: 3.43%

Run 10: Report of Verus — Data Link

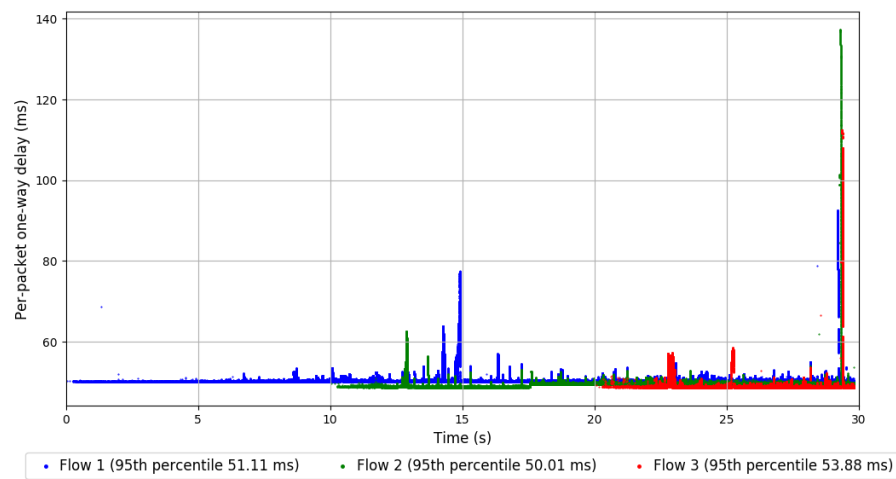
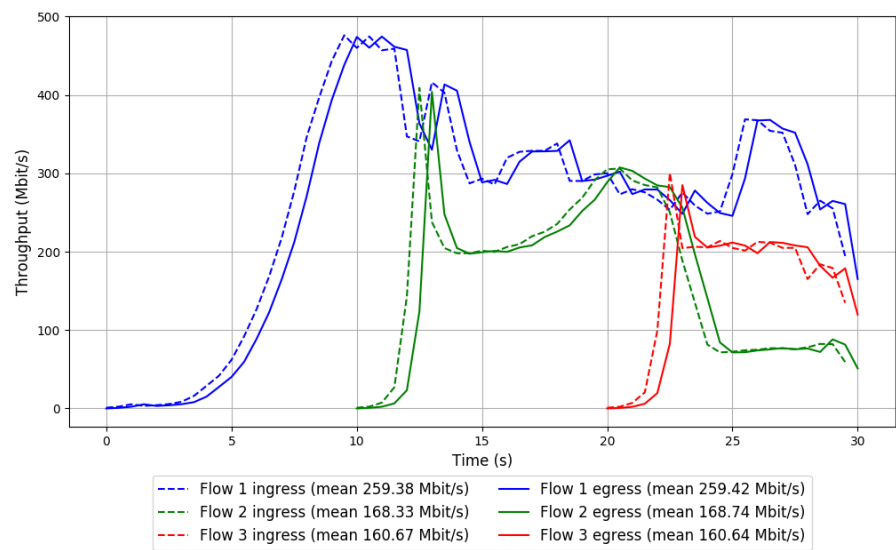


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-26 14:33:33
End at: 2018-05-26 14:34:03
Local clock offset: -0.166 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-26 20:07:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 424.01 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 259.42 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 168.74 Mbit/s
95th percentile per-packet one-way delay: 50.014 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 160.64 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 1.05%

Run 1: Report of PCC-Vivace — Data Link

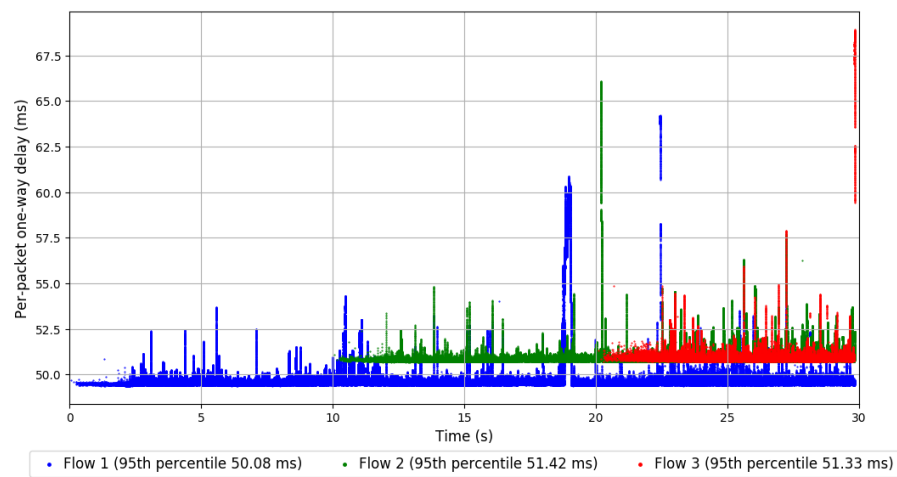
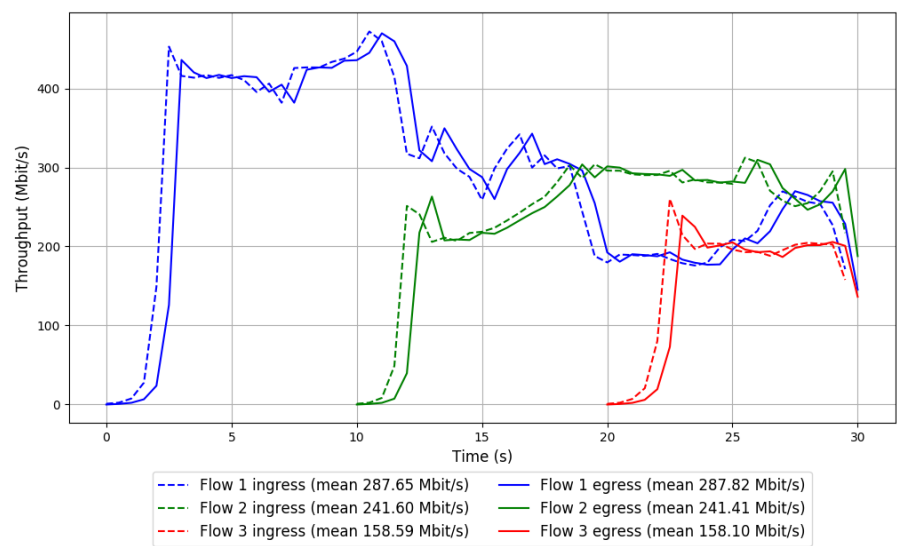


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-26 14:55:45
End at: 2018-05-26 14:56:15
Local clock offset: -0.169 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-26 20:09:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 499.86 Mbit/s
95th percentile per-packet one-way delay: 51.113 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 287.82 Mbit/s
95th percentile per-packet one-way delay: 50.076 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 241.41 Mbit/s
95th percentile per-packet one-way delay: 51.417 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 158.10 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 1.35%

Run 2: Report of PCC-Vivace — Data Link

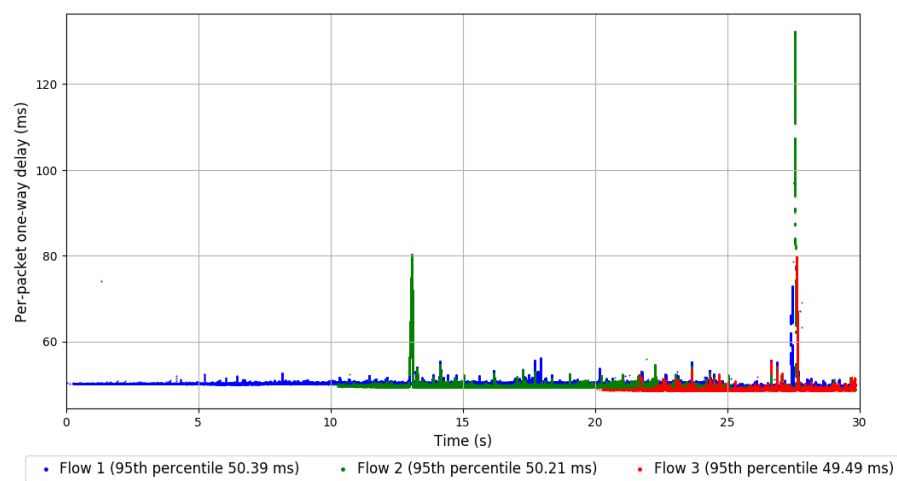
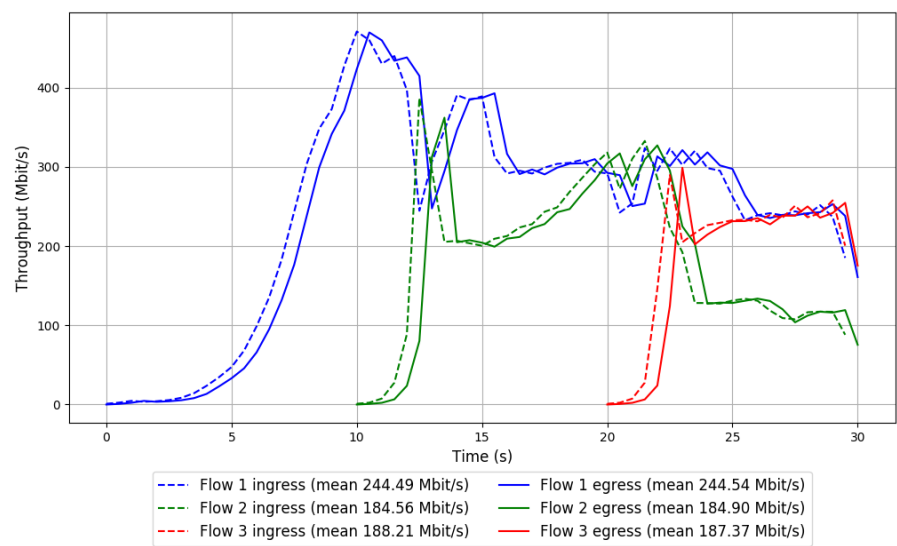


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-26 15:18:16
End at: 2018-05-26 15:18:46
Local clock offset: -0.222 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-05-26 20:09:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 428.75 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 244.54 Mbit/s
95th percentile per-packet one-way delay: 50.387 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 184.90 Mbit/s
95th percentile per-packet one-way delay: 50.214 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 187.37 Mbit/s
95th percentile per-packet one-way delay: 49.488 ms
Loss rate: 1.43%

Run 3: Report of PCC-Vivace — Data Link

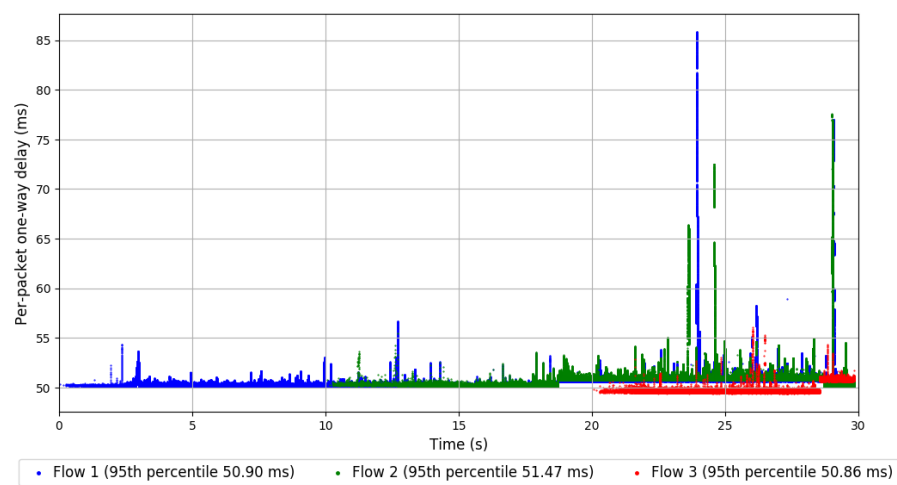
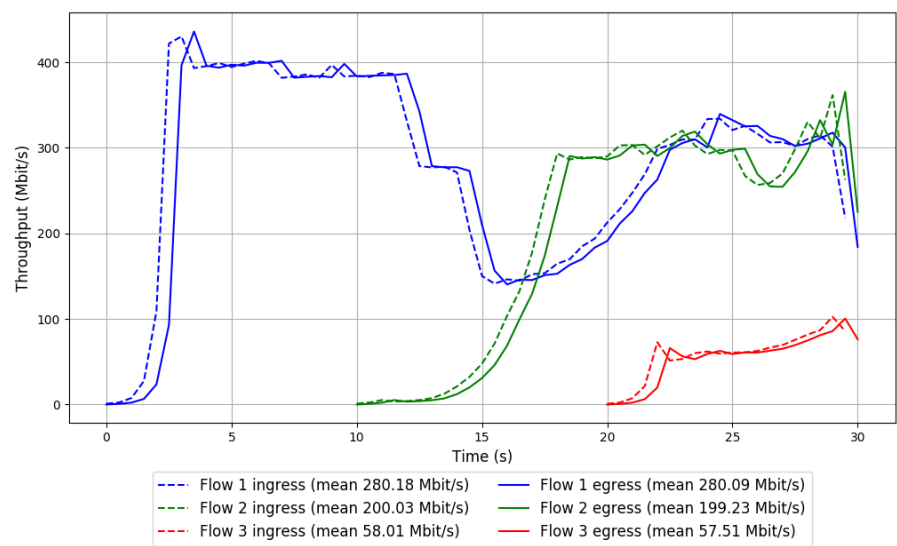


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-26 15:40:42
End at: 2018-05-26 15:41:12
Local clock offset: -0.22 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-05-26 20:10:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.24 Mbit/s
95th percentile per-packet one-way delay: 51.101 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 280.09 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 199.23 Mbit/s
95th percentile per-packet one-way delay: 51.473 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 50.858 ms
Loss rate: 1.87%

Run 4: Report of PCC-Vivace — Data Link

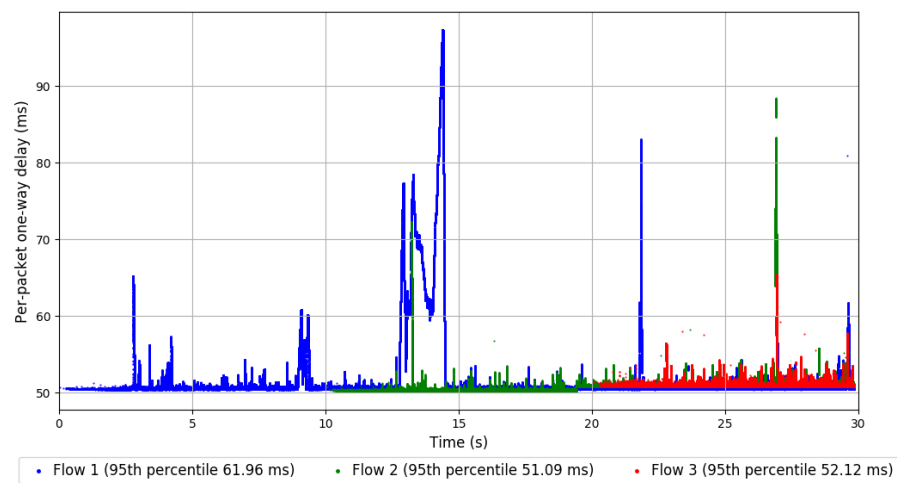
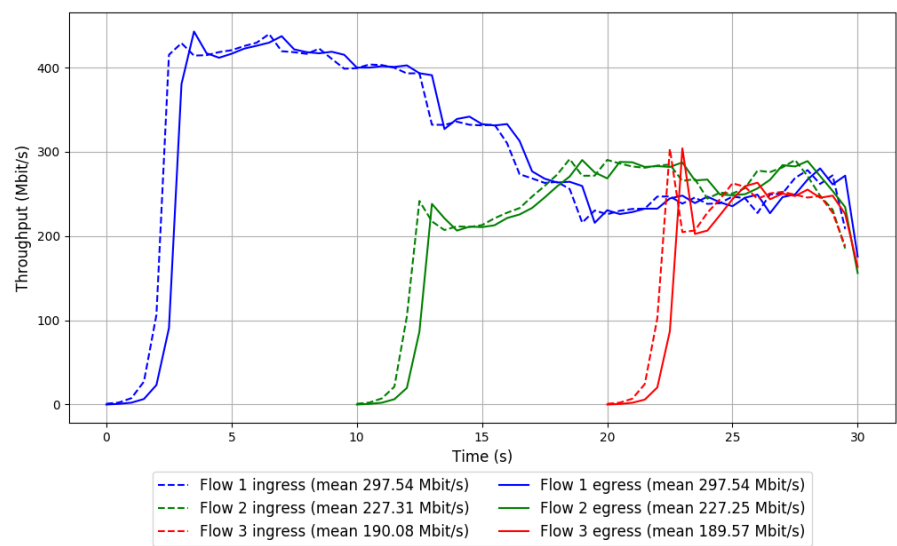


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-26 16:03:01
End at: 2018-05-26 16:03:31
Local clock offset: -0.213 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-05-26 20:11:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 510.51 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 297.54 Mbit/s
95th percentile per-packet one-way delay: 61.963 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 227.25 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 189.57 Mbit/s
95th percentile per-packet one-way delay: 52.125 ms
Loss rate: 1.32%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-26 16:25:24

End at: 2018-05-26 16:25:54

Local clock offset: -0.241 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-26 20:11:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.88 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 251.60 Mbit/s

95th percentile per-packet one-way delay: 50.798 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 251.98 Mbit/s

95th percentile per-packet one-way delay: 50.415 ms

Loss rate: 0.50%

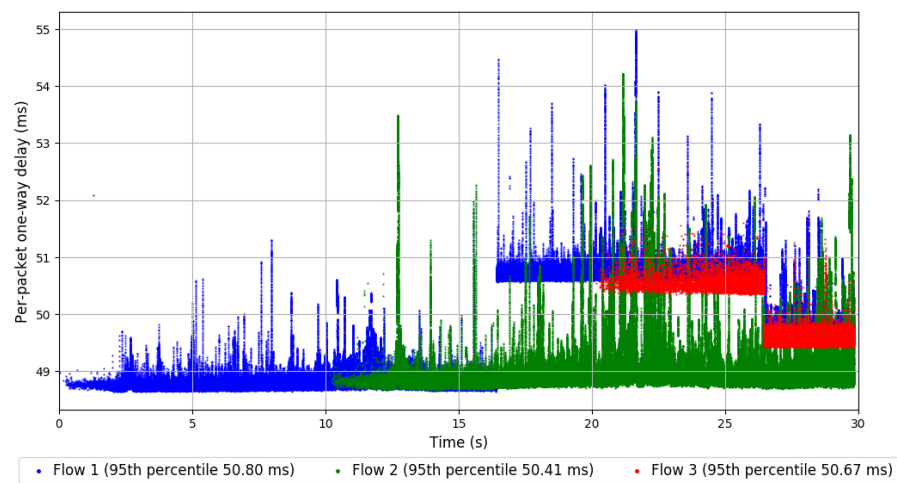
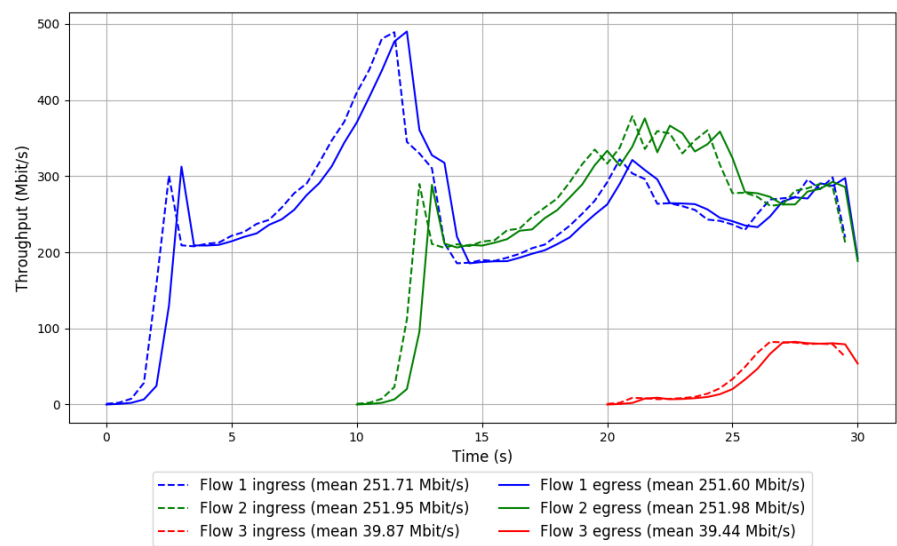
-- Flow 3:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 50.667 ms

Loss rate: 2.12%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-26 16:47:48

End at: 2018-05-26 16:48:18

Local clock offset: 0.168 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-26 20:12:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.19 Mbit/s

95th percentile per-packet one-way delay: 51.445 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 322.72 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 244.17 Mbit/s

95th percentile per-packet one-way delay: 51.954 ms

Loss rate: 0.51%

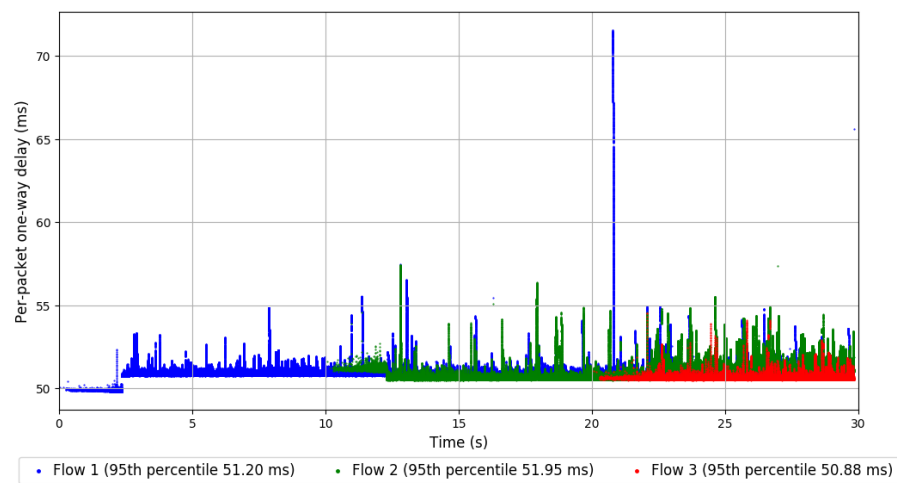
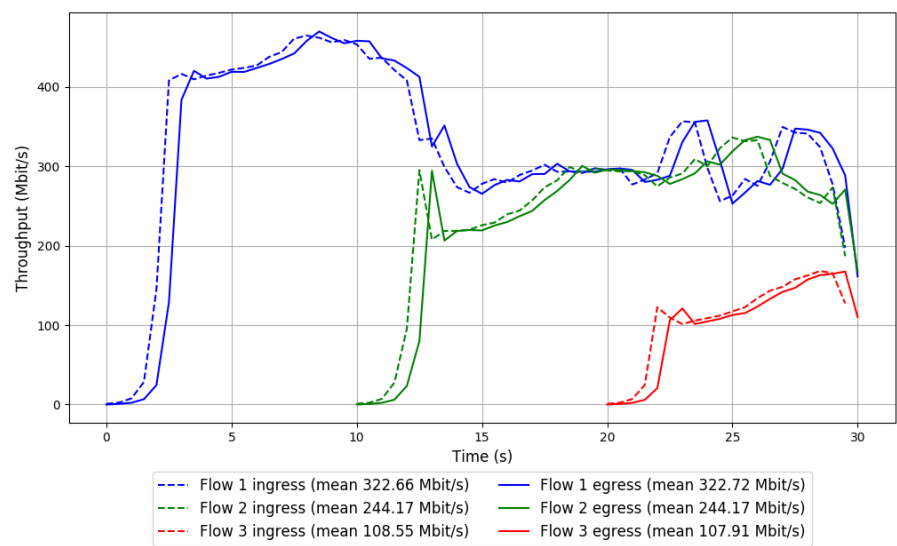
-- Flow 3:

Average throughput: 107.91 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 1.62%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 17:10:28

End at: 2018-05-26 17:10:58

Local clock offset: -0.169 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-26 20:12:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.58 Mbit/s

95th percentile per-packet one-way delay: 50.943 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 256.93 Mbit/s

95th percentile per-packet one-way delay: 51.818 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 162.54 Mbit/s

95th percentile per-packet one-way delay: 50.925 ms

Loss rate: 0.72%

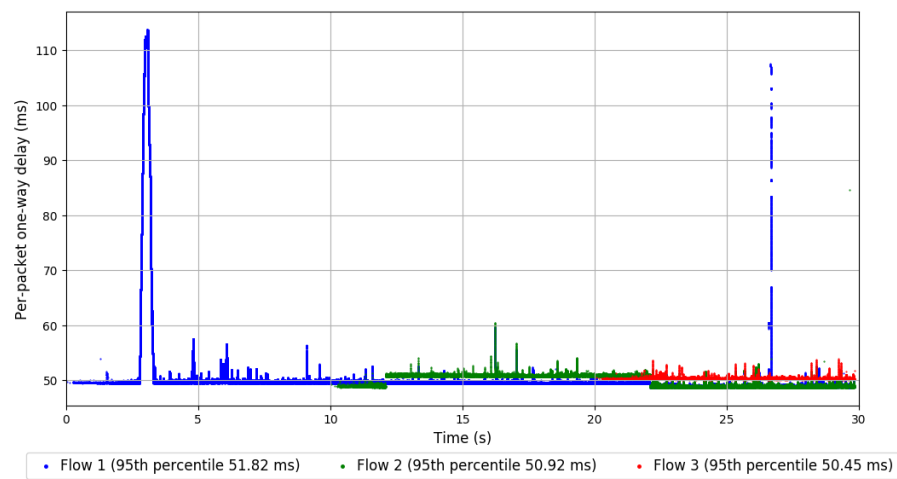
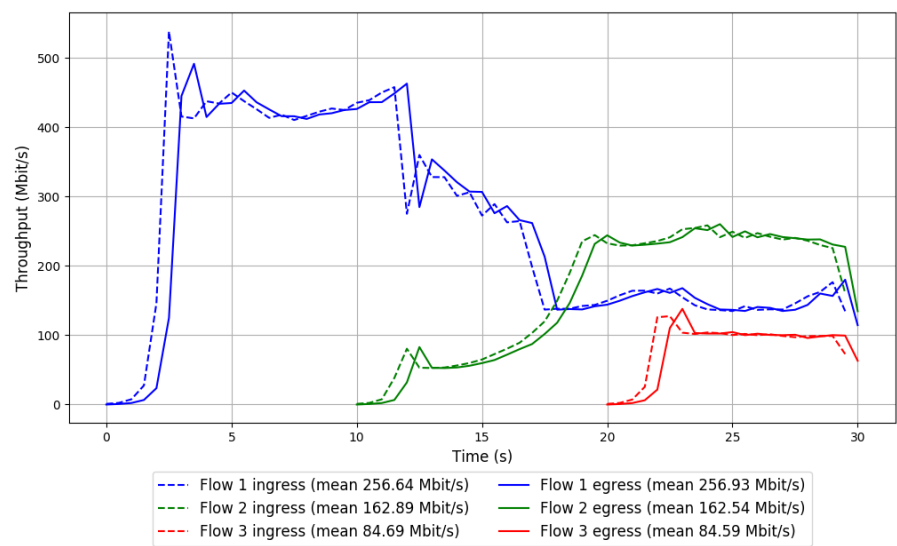
-- Flow 3:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 50.451 ms

Loss rate: 1.13%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 17:32:51

End at: 2018-05-26 17:33:21

Local clock offset: -0.211 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-26 20:12:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.13 Mbit/s

95th percentile per-packet one-way delay: 50.488 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 200.21 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 246.71 Mbit/s

95th percentile per-packet one-way delay: 50.465 ms

Loss rate: 0.57%

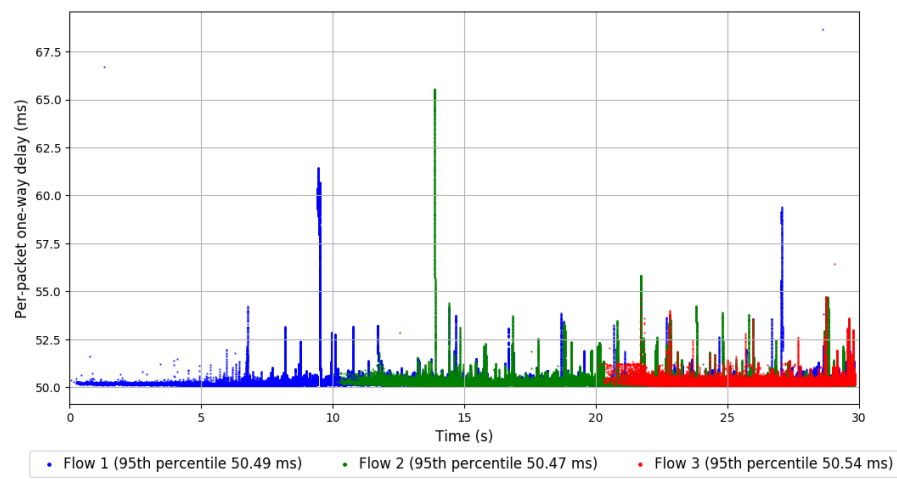
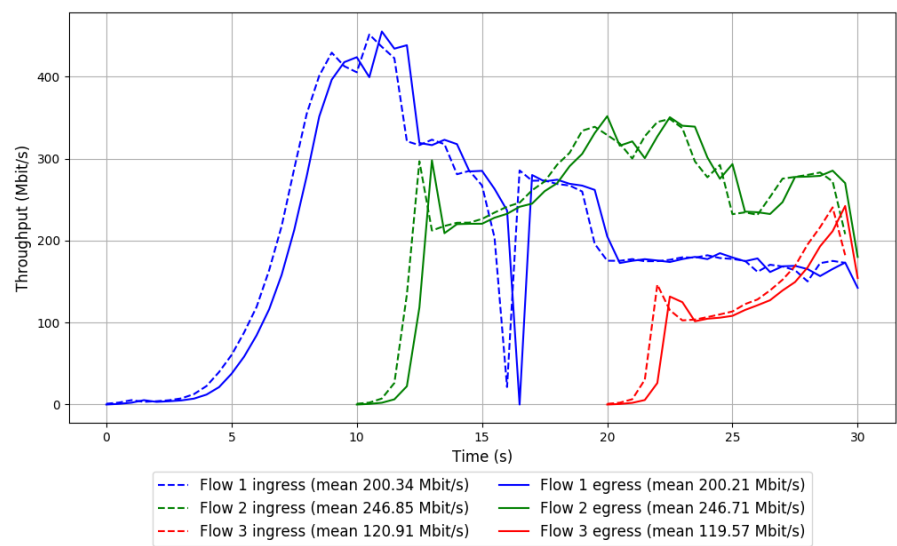
-- Flow 3:

Average throughput: 119.57 Mbit/s

95th percentile per-packet one-way delay: 50.536 ms

Loss rate: 2.14%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 17:55:12

End at: 2018-05-26 17:55:42

Local clock offset: -0.155 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-26 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 468.56 Mbit/s

95th percentile per-packet one-way delay: 50.651 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 285.93 Mbit/s

95th percentile per-packet one-way delay: 52.200 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 255.83 Mbit/s

95th percentile per-packet one-way delay: 50.333 ms

Loss rate: 0.50%

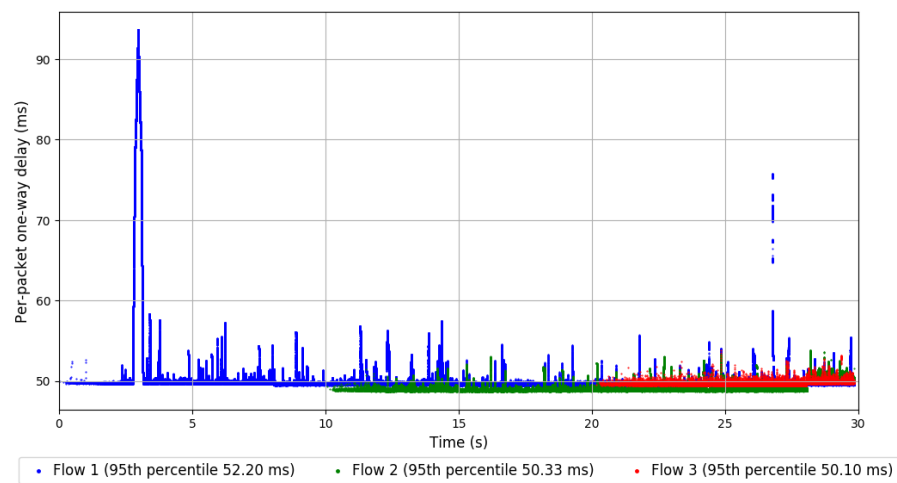
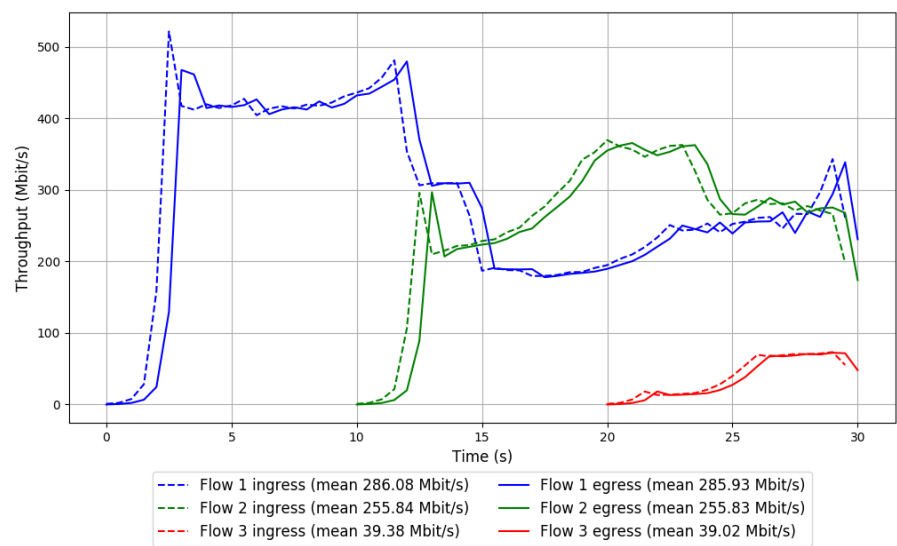
-- Flow 3:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 50.103 ms

Loss rate: 1.94%

Run 10: Report of PCC-Vivace — Data Link

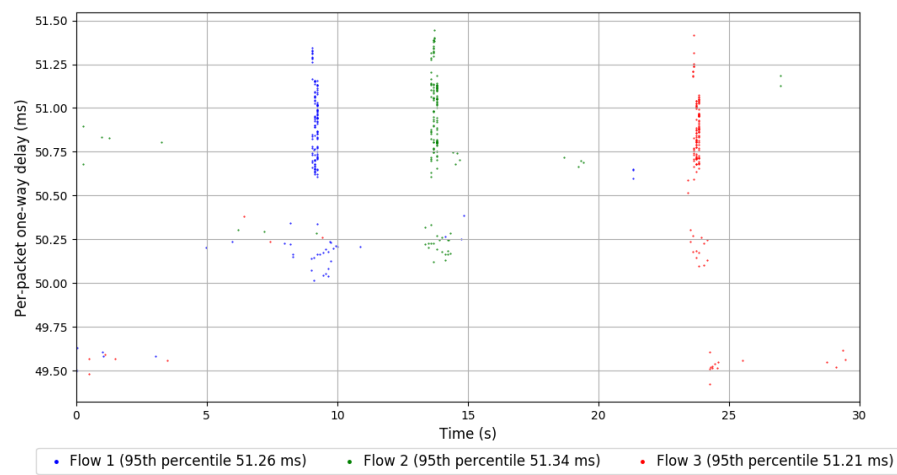
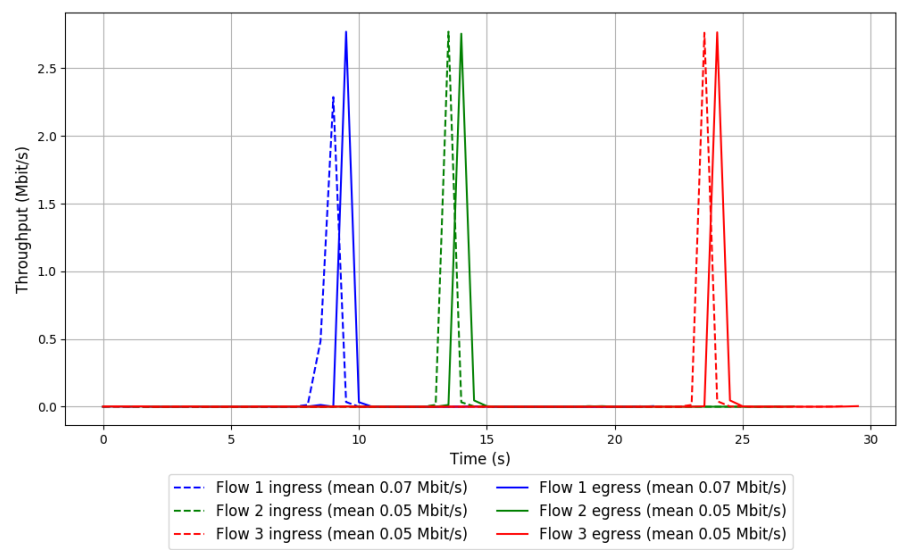


Run 1: Statistics of WebRTC media

Start at: 2018-05-26 14:26:29
End at: 2018-05-26 14:26:59
Local clock offset: -0.206 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 51.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 51.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.209 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

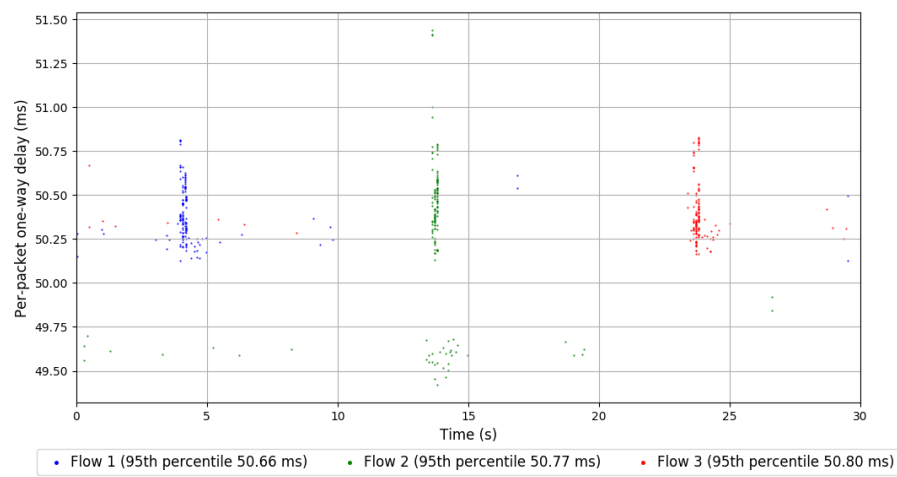
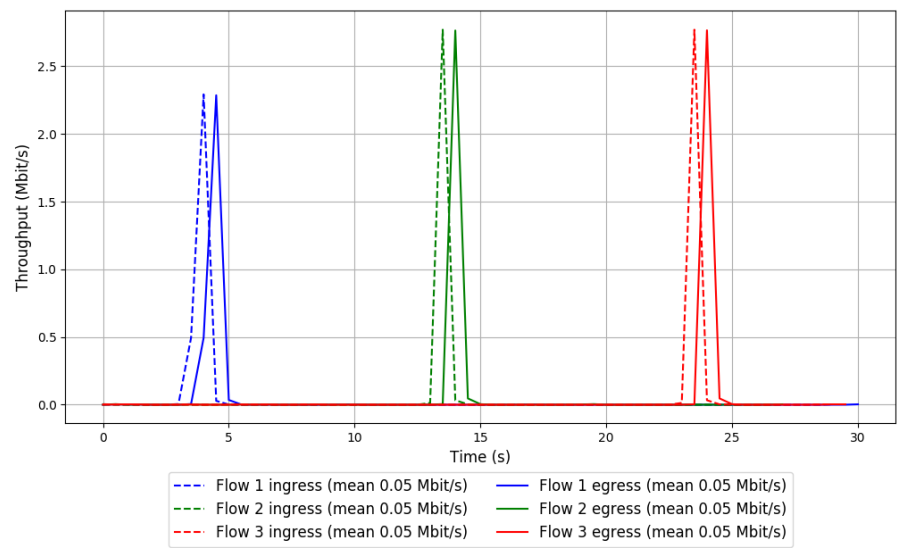


Run 2: Statistics of WebRTC media

Start at: 2018-05-26 14:48:35
End at: 2018-05-26 14:49:05
Local clock offset: -0.182 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.657 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.796 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

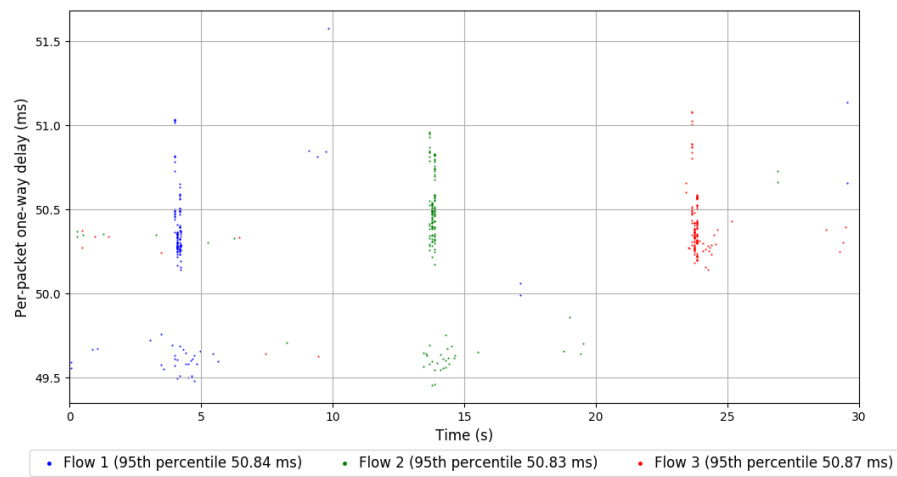
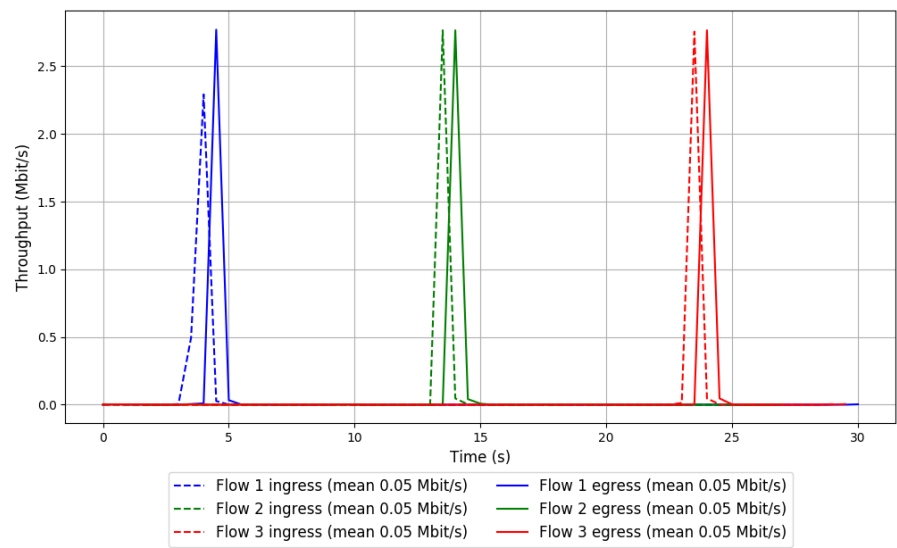


Run 3: Statistics of WebRTC media

Start at: 2018-05-26 15:11:07
End at: 2018-05-26 15:11:37
Local clock offset: -0.211 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 50.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.870 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

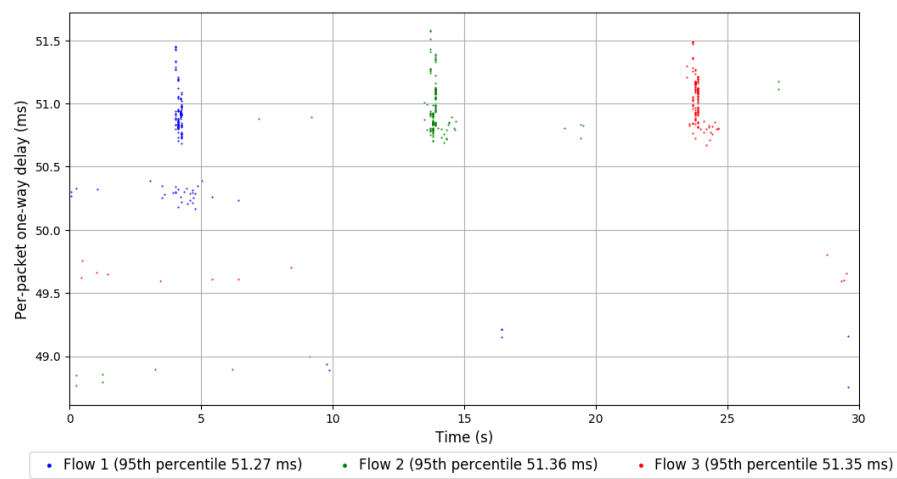
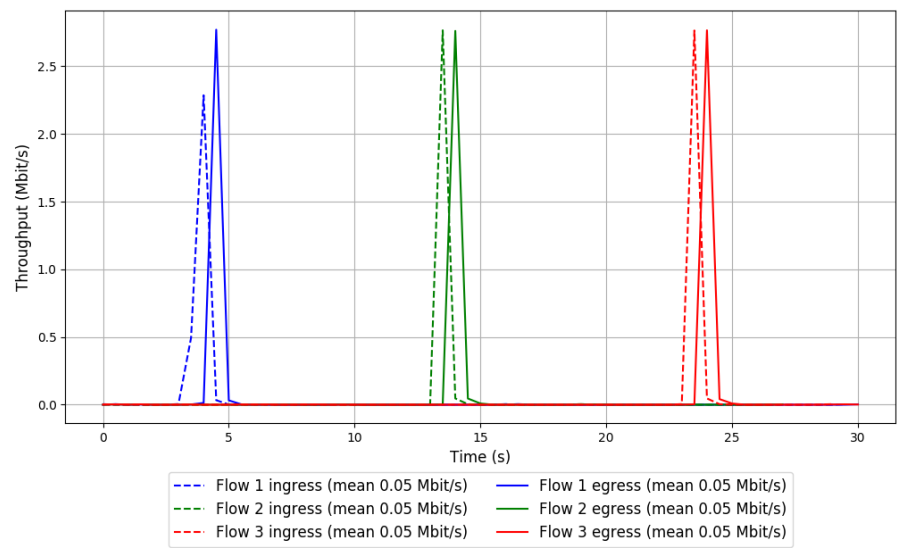


Run 4: Statistics of WebRTC media

Start at: 2018-05-26 15:33:27
End at: 2018-05-26 15:33:57
Local clock offset: -0.203 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.360 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

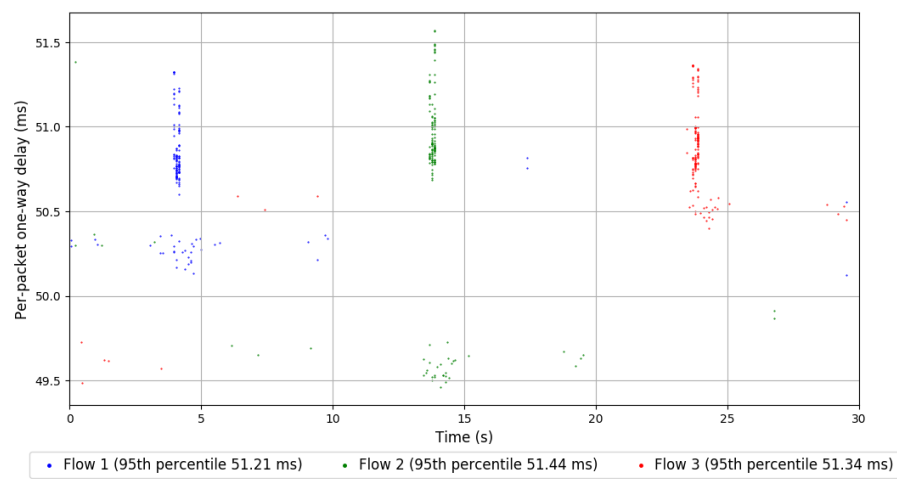
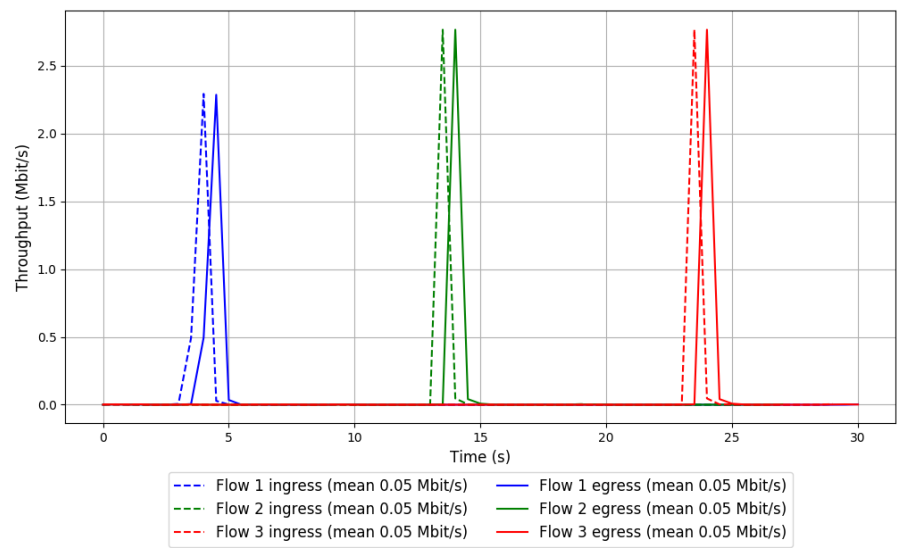


Run 5: Statistics of WebRTC media

Start at: 2018-05-26 15:55:50
End at: 2018-05-26 15:56:20
Local clock offset: -0.24 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 51.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.208 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

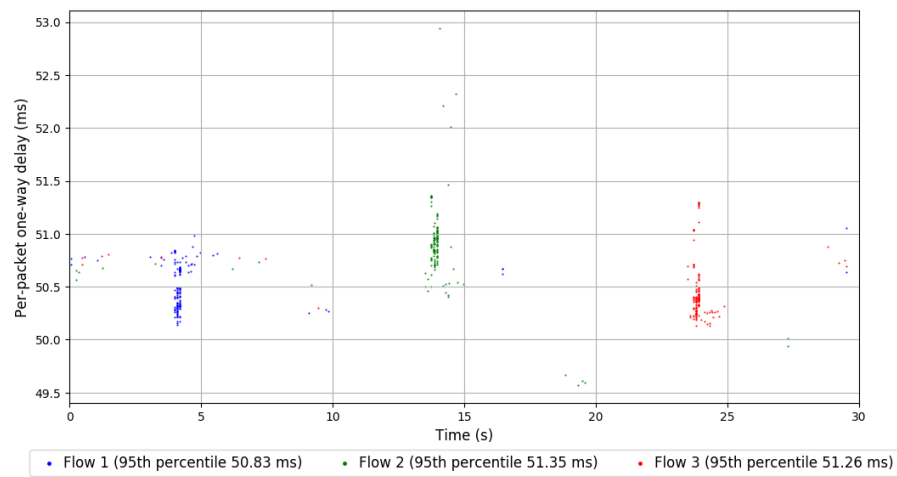
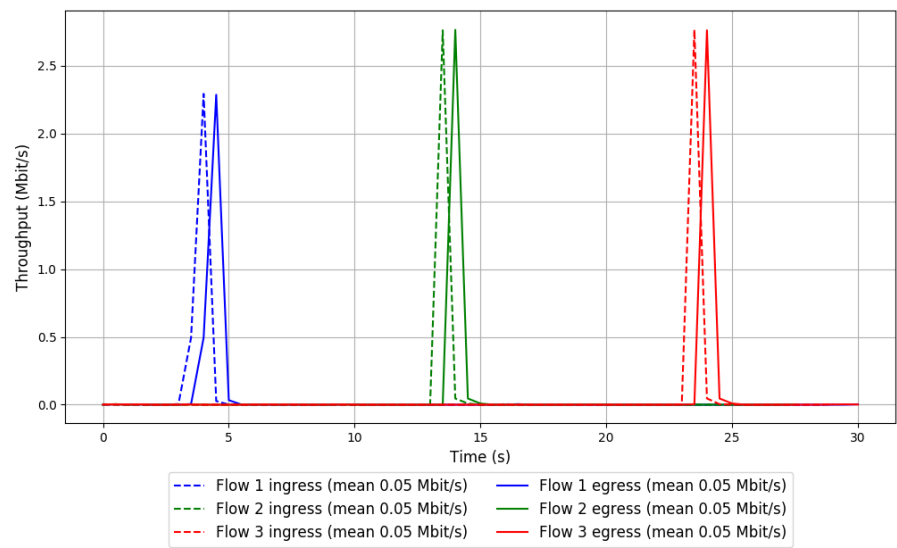


Run 6: Statistics of WebRTC media

Start at: 2018-05-26 16:18:15
End at: 2018-05-26 16:18:45
Local clock offset: -0.273 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-05-26 20:12:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.264 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-26 16:40:39

End at: 2018-05-26 16:41:09

Local clock offset: -0.239 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-26 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 50.977 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.977 ms

Loss rate: 0.00%

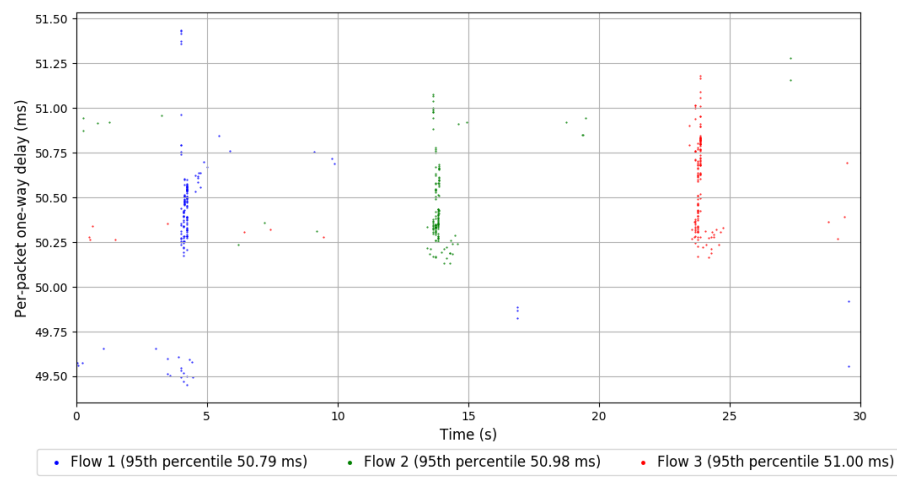
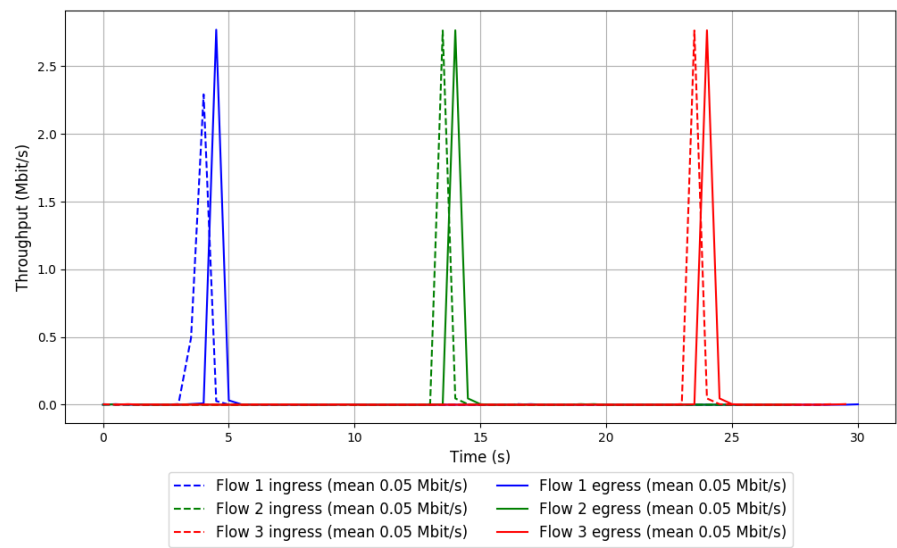
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-26 17:03:12

End at: 2018-05-26 17:03:42

Local clock offset: -0.2 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-05-26 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 51.169 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.351 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.00%

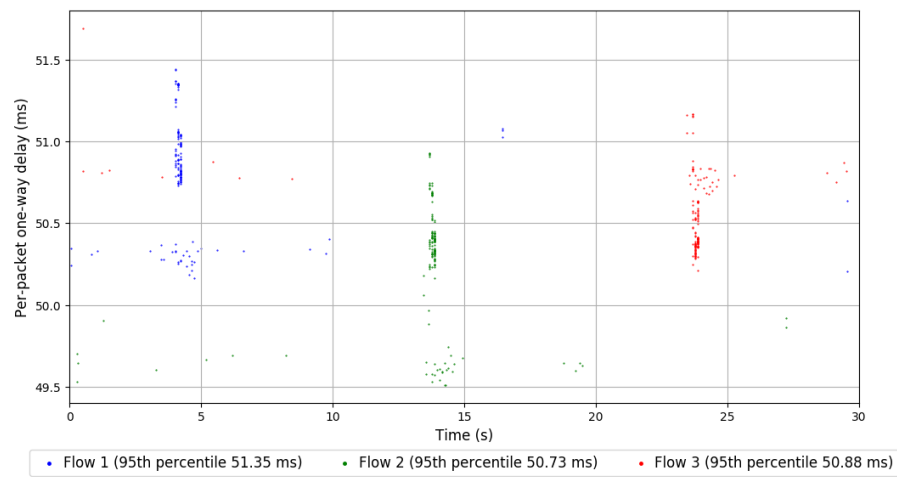
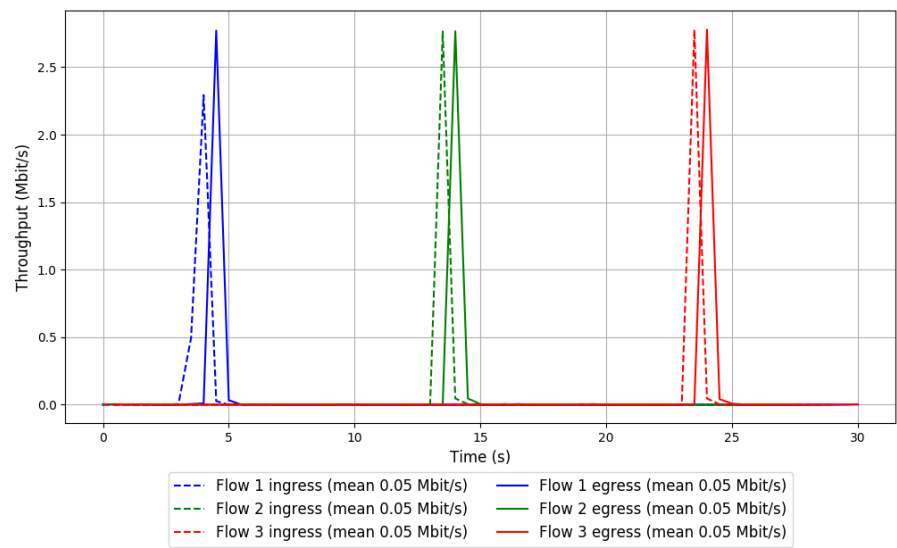
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.882 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-26 17:25:34

End at: 2018-05-26 17:26:04

Local clock offset: -0.206 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-05-26 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 50.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.725 ms

Loss rate: 0.00%

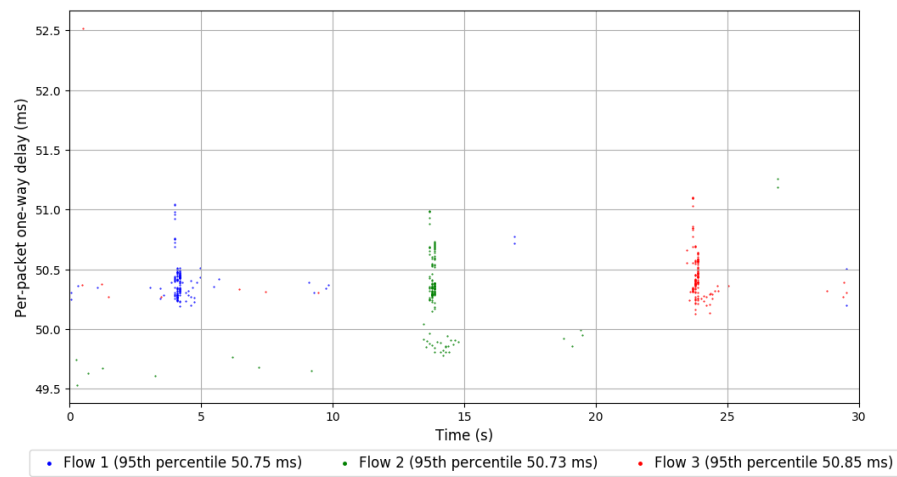
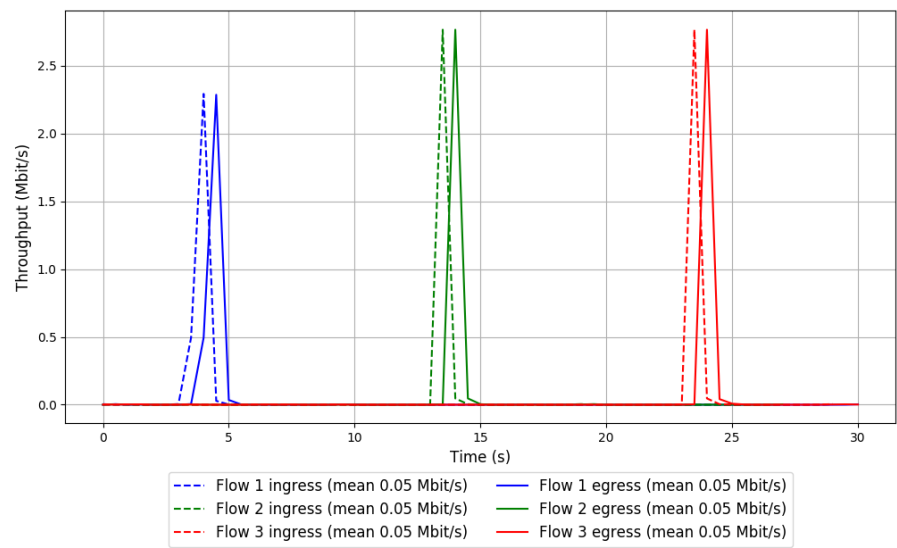
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-26 17:48:08

End at: 2018-05-26 17:48:38

Local clock offset: -0.199 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-05-26 20:12:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 50.880 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.630 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.844 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

