

Pantheon Report

Generated at 2018-06-06 06:50:13 (UTC).

Data path: Mexico Ethernet (*remote*) → AWS California 2 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.

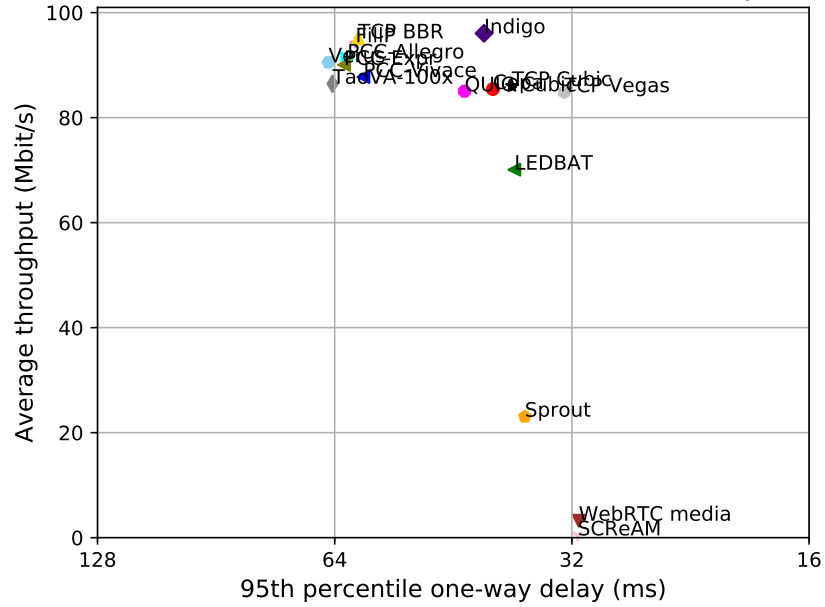
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

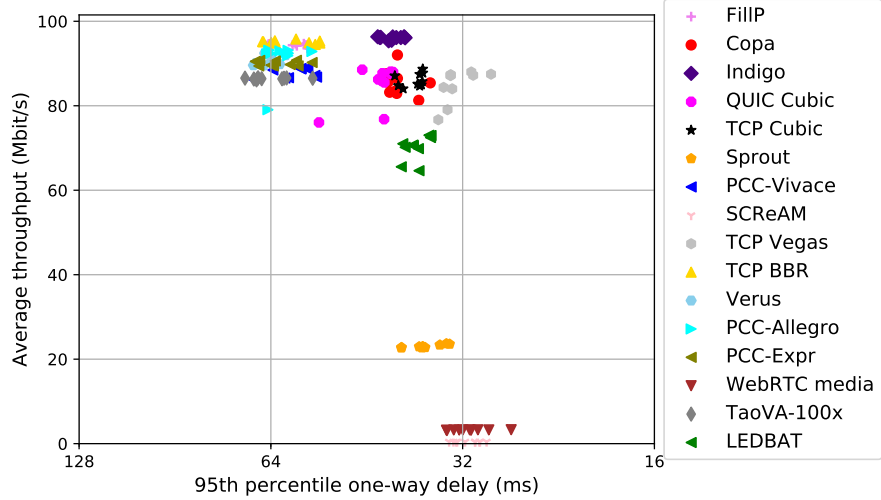
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Mexico to AWS California 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico to AWS California 2, 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	58.01	39.45	32.71	55.39	66.38	65.96	1.88	3.09	2.84
Copa	10	52.38	35.31	28.85	39.52	42.24	43.23	0.15	0.24	0.65
TCP Cubic	10	51.32	36.77	30.91	37.87	36.66	38.24	0.15	0.27	0.68
FillP	10	57.87	40.02	29.86	57.42	56.97	59.59	1.58	3.60	4.19
Indigo	10	59.20	39.47	32.47	39.69	43.67	40.99	0.18	0.37	0.70
LEDBAT	10	40.63	33.44	21.77	37.65	37.35	39.72	0.19	0.33	0.65
PCC-Allegro	10	56.20	39.16	27.48	58.41	55.92	58.96	5.31	2.57	1.63
PCC-Expr	10	53.67	36.90	35.99	62.11	60.81	53.00	0.68	0.98	1.13
QUIC Cubic	10	50.30	38.28	28.20	40.73	48.51	63.05	0.17	0.32	0.83
SCReAM	10	0.22	0.22	0.22	30.61	29.54	29.45	0.16	0.38	0.67
Sprout	10	11.70	11.48	11.29	35.68	36.61	37.04	0.20	0.32	0.69
TaoVA-100x	10	49.84	40.29	29.53	60.24	58.28	58.81	0.56	1.03	2.18
TCP Vegas	10	48.81	37.39	33.68	33.75	31.30	30.95	0.13	0.25	0.63
Verus	10	54.38	38.41	32.05	59.35	67.70	66.25	0.28	0.42	1.15
PCC-Vivace	10	57.22	32.24	27.61	56.83	57.26	62.20	2.50	0.83	1.18
WebRTC media	10	1.79	1.02	0.43	30.40	29.67	29.93	0.12	0.24	0.73

Run 1: Statistics of TCP BBR

Start at: 2018-06-06 03:02:47

End at: 2018-06-06 03:03:17

Local clock offset: 0.642 ms

Remote clock offset: -2.26 ms

Below is generated by plot.py at 2018-06-06 06:28:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 65.758 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 56.094 ms

Loss rate: 2.07%

-- Flow 2:

Average throughput: 40.06 Mbit/s

95th percentile per-packet one-way delay: 64.593 ms

Loss rate: 2.51%

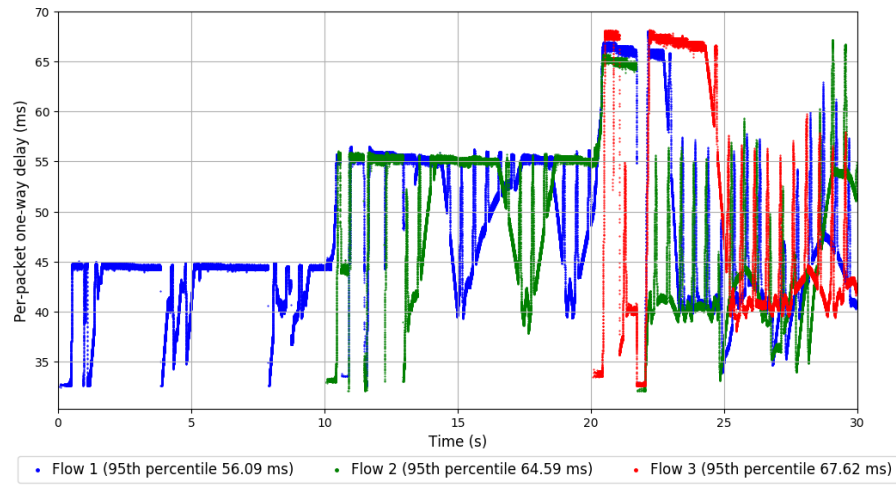
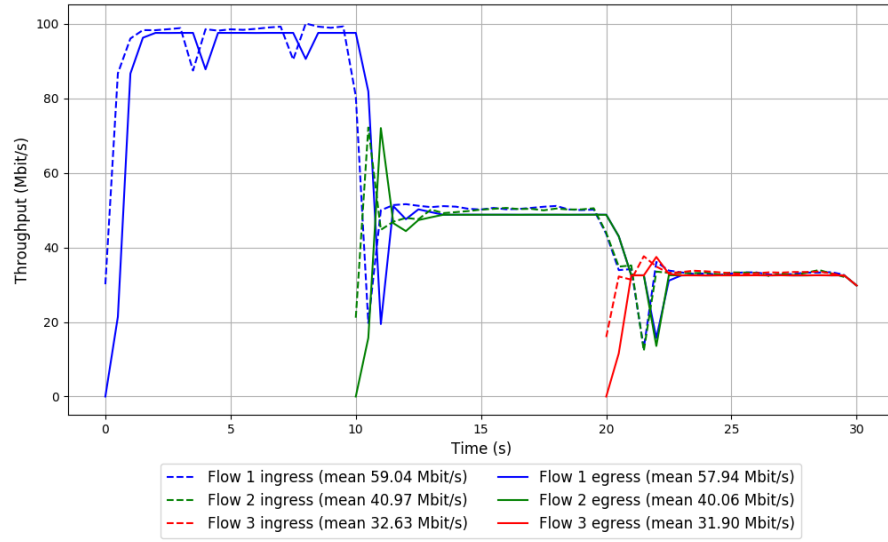
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 67.620 ms

Loss rate: 2.86%

Run 1: Report of TCP BBR — Data Link

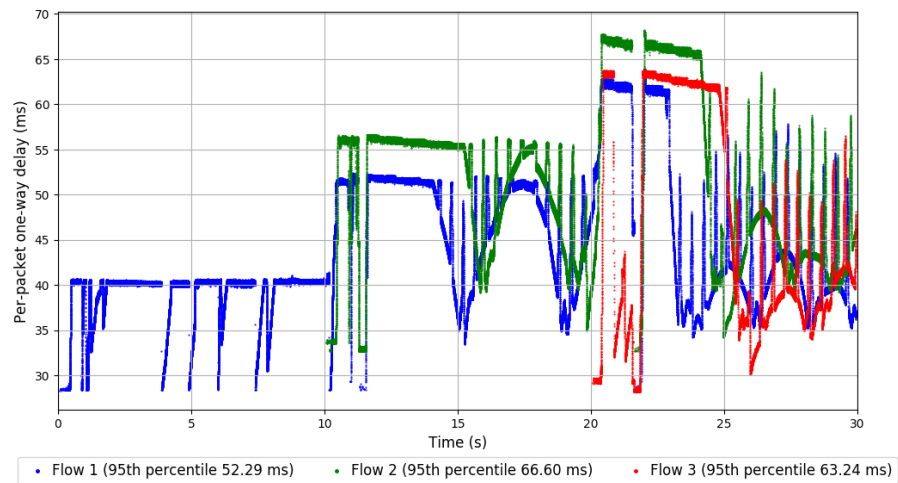
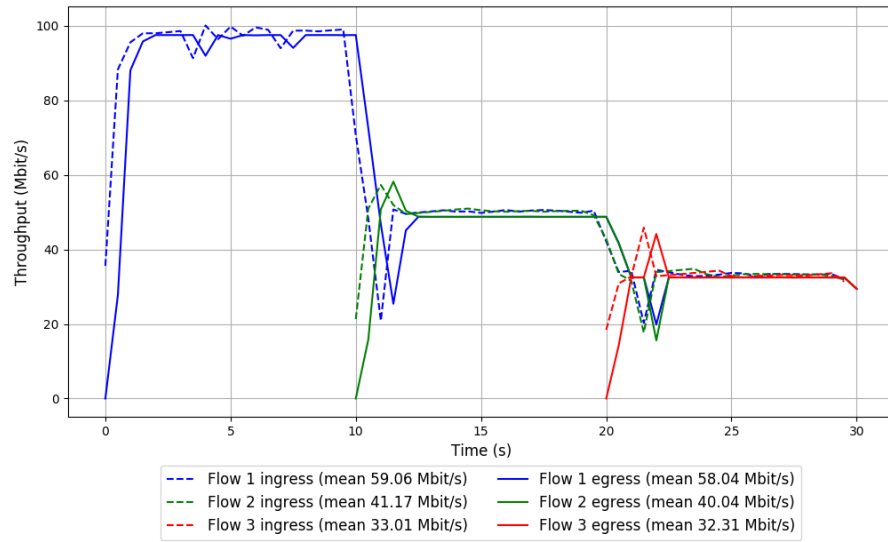


Run 2: Statistics of TCP BBR

Start at: 2018-06-06 03:24:20
End at: 2018-06-06 03:24:50
Local clock offset: 0.857 ms
Remote clock offset: -1.645 ms

Below is generated by plot.py at 2018-06-06 06:28:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 63.083 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 58.04 Mbit/s
95th percentile per-packet one-way delay: 52.294 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 40.04 Mbit/s
95th percentile per-packet one-way delay: 66.603 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 63.243 ms
Loss rate: 2.66%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-06 03:45:55

End at: 2018-06-06 03:46:25

Local clock offset: 1.185 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-06 06:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 62.976 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 57.36 Mbit/s

95th percentile per-packet one-way delay: 52.181 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 2.88%

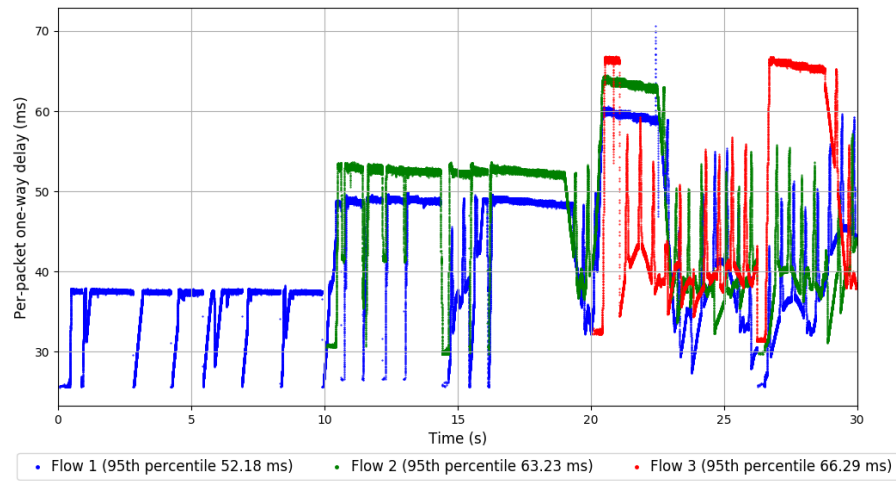
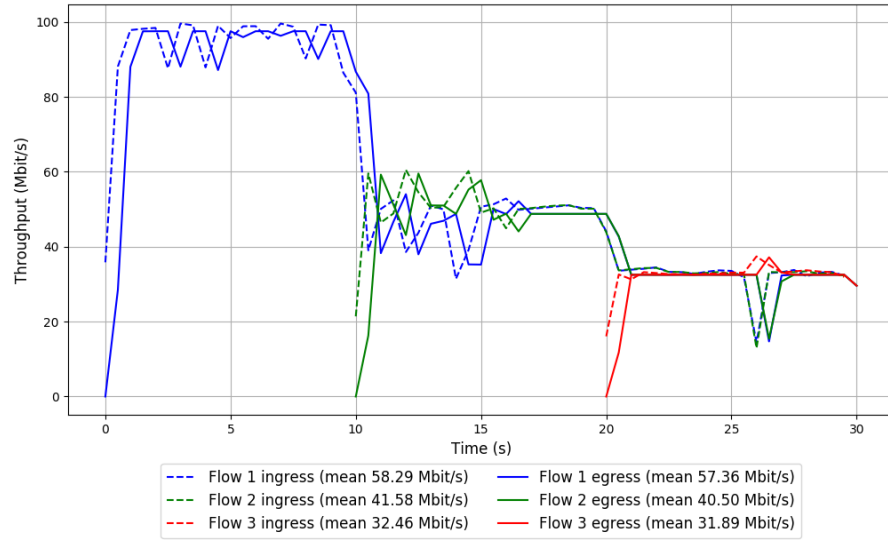
-- Flow 3:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 66.292 ms

Loss rate: 2.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-06 04:07:40

End at: 2018-06-06 04:08:10

Local clock offset: 1.173 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2018-06-06 06:28:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 54.514 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 1.71%

-- Flow 2:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 53.649 ms

Loss rate: 2.69%

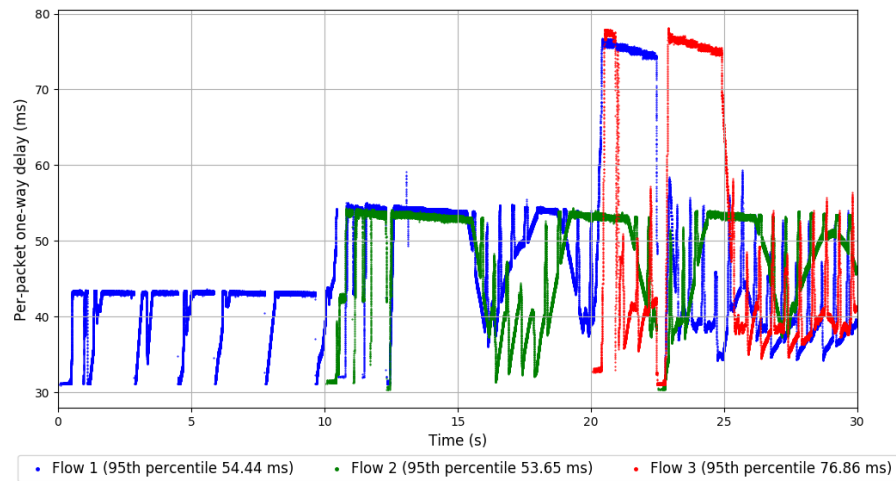
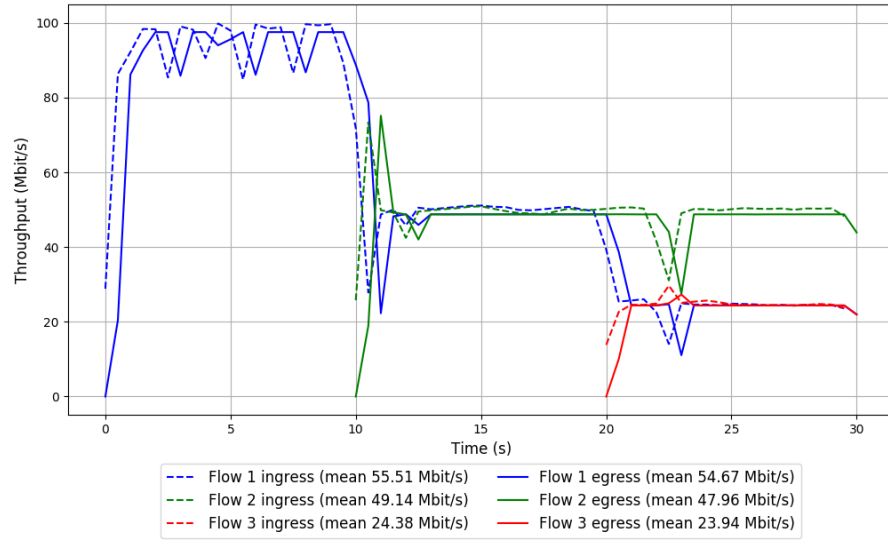
-- Flow 3:

Average throughput: 23.94 Mbit/s

95th percentile per-packet one-way delay: 76.864 ms

Loss rate: 2.41%

Run 4: Report of TCP BBR — Data Link

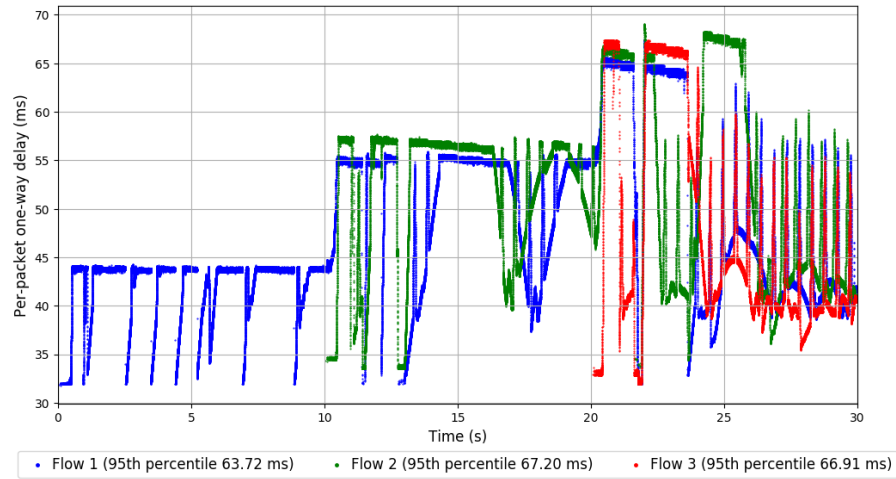
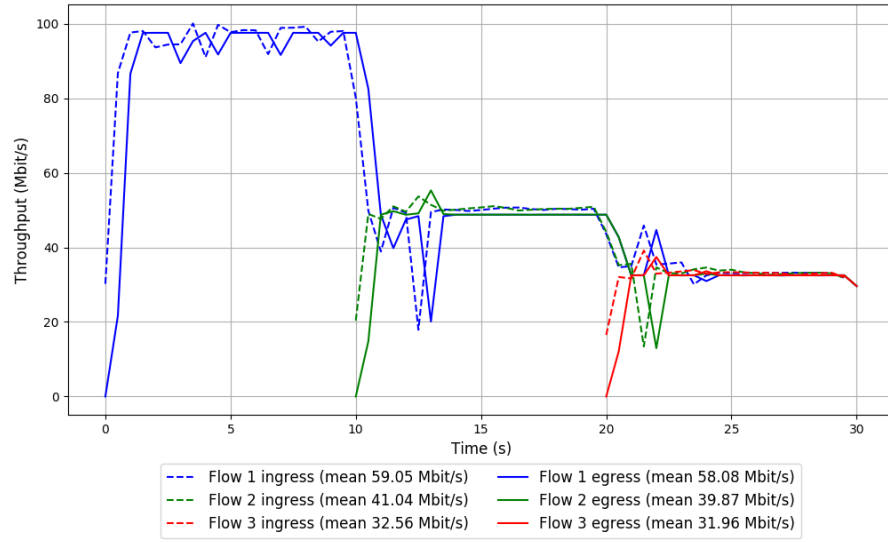


Run 5: Statistics of TCP BBR

Start at: 2018-06-06 04:29:10
End at: 2018-06-06 04:29:40
Local clock offset: 0.574 ms
Remote clock offset: -2.014 ms

Below is generated by plot.py at 2018-06-06 06:28:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 65.947 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 63.716 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 67.203 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 66.905 ms
Loss rate: 2.46%

Run 5: Report of TCP BBR — Data Link

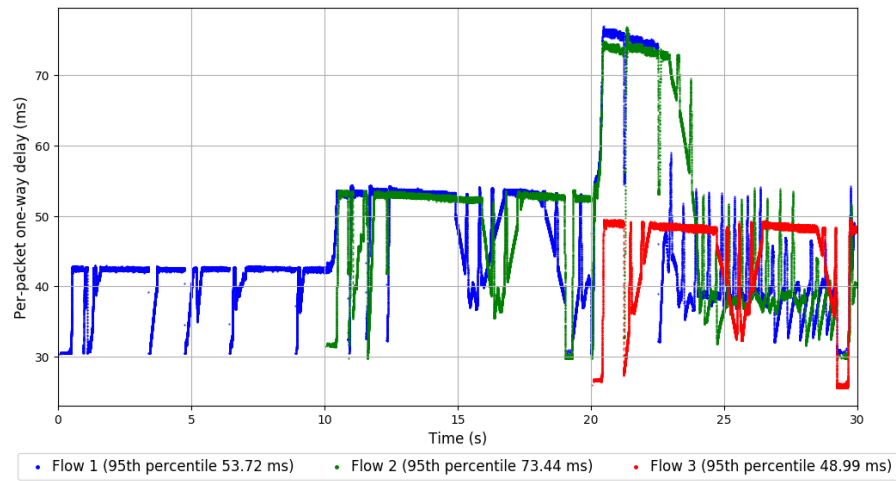
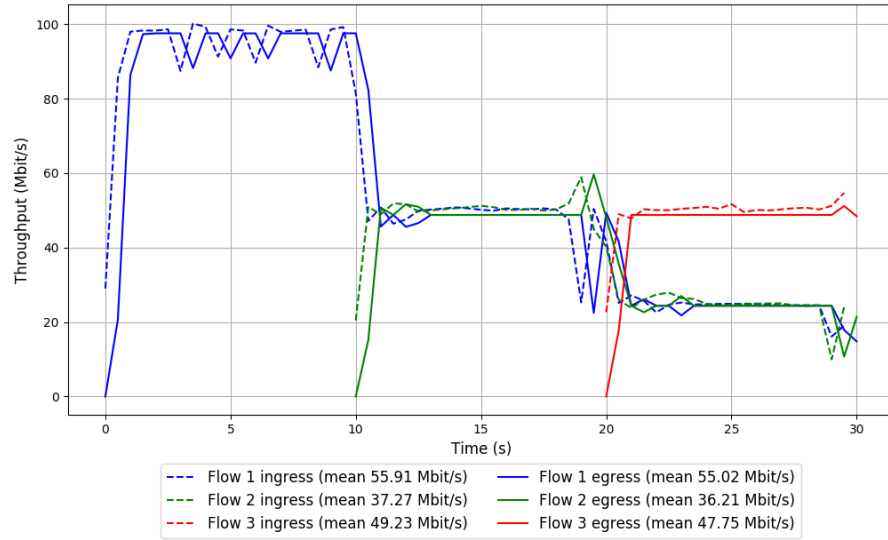


Run 6: Statistics of TCP BBR

Start at: 2018-06-06 04:50:39
End at: 2018-06-06 04:51:09
Local clock offset: 0.466 ms
Remote clock offset: -1.112 ms

Below is generated by plot.py at 2018-06-06 06:28:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 55.759 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 73.440 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 47.75 Mbit/s
95th percentile per-packet one-way delay: 48.995 ms
Loss rate: 3.55%

Run 6: Report of TCP BBR — Data Link

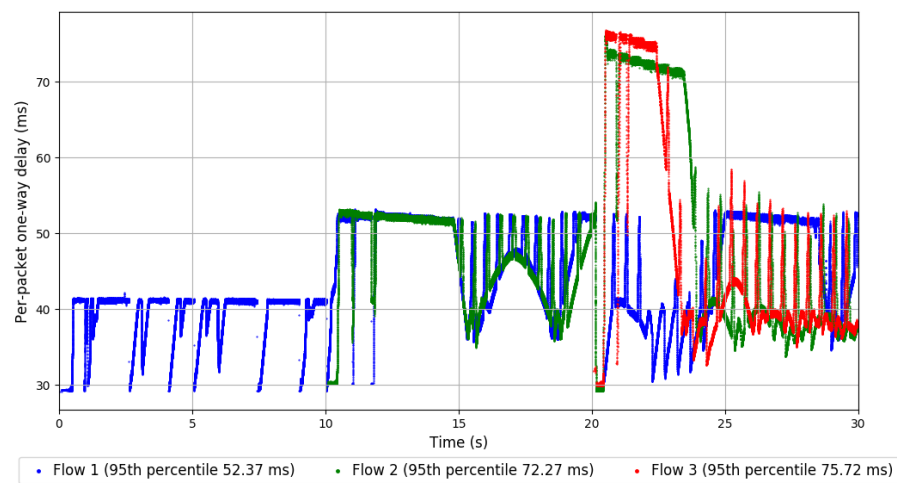
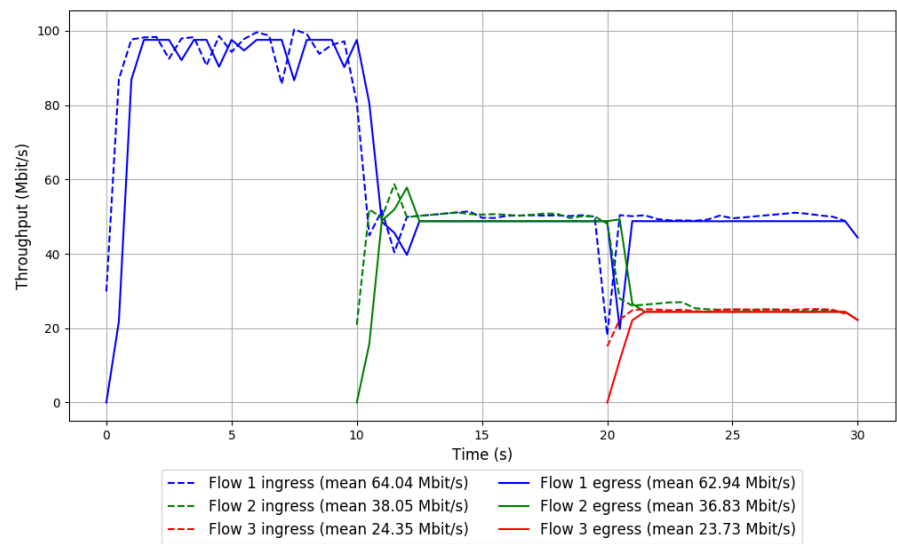


Run 7: Statistics of TCP BBR

Start at: 2018-06-06 05:12:12
End at: 2018-06-06 05:12:42
Local clock offset: 1.415 ms
Remote clock offset: -0.994 ms

Below is generated by plot.py at 2018-06-06 06:28:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 52.374 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 72.271 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 75.716 ms
Loss rate: 3.13%

Run 7: Report of TCP BBR — Data Link

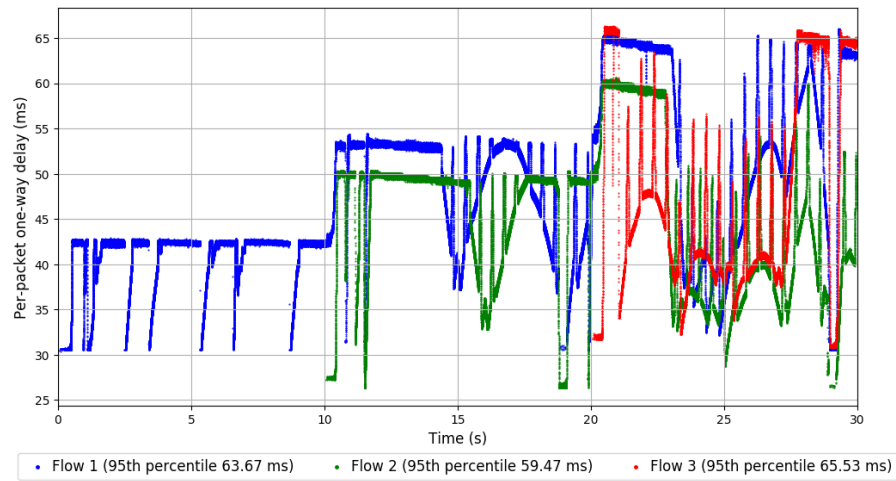
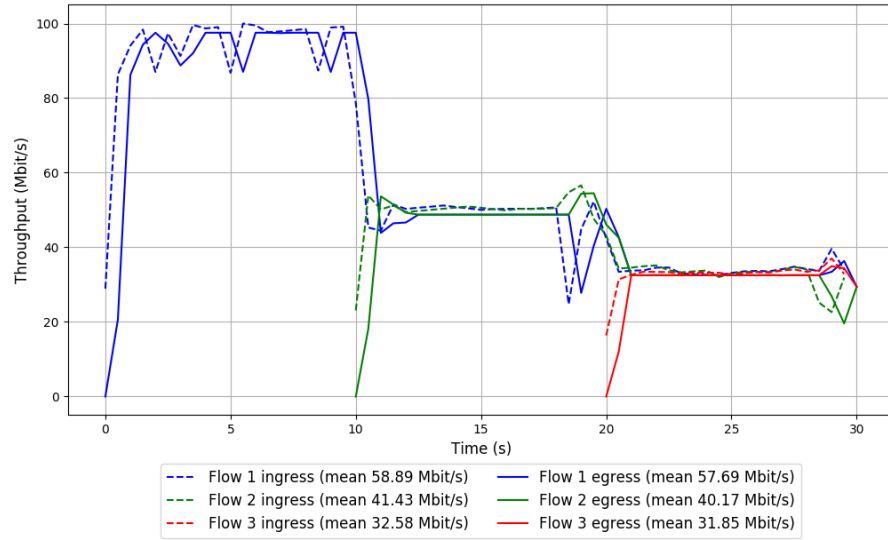


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 05:33:41
End at: 2018-06-06 05:34:11
Local clock offset: 2.348 ms
Remote clock offset: -2.142 ms

Below is generated by plot.py at 2018-06-06 06:28:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 63.927 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 59.466 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 65.529 ms
Loss rate: 2.98%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-06 05:55:14

End at: 2018-06-06 05:55:44

Local clock offset: 1.609 ms

Remote clock offset: -4.03 ms

Below is generated by plot.py at 2018-06-06 06:29:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 58.437 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 51.852 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 76.062 ms

Loss rate: 3.43%

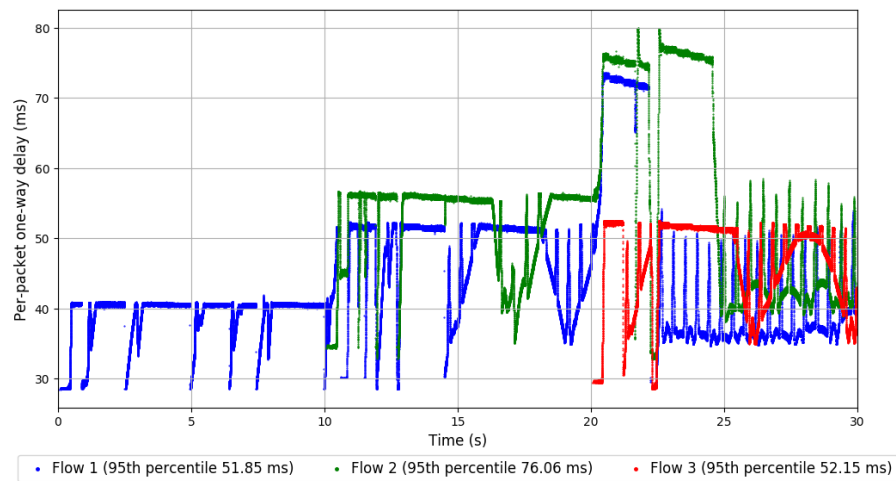
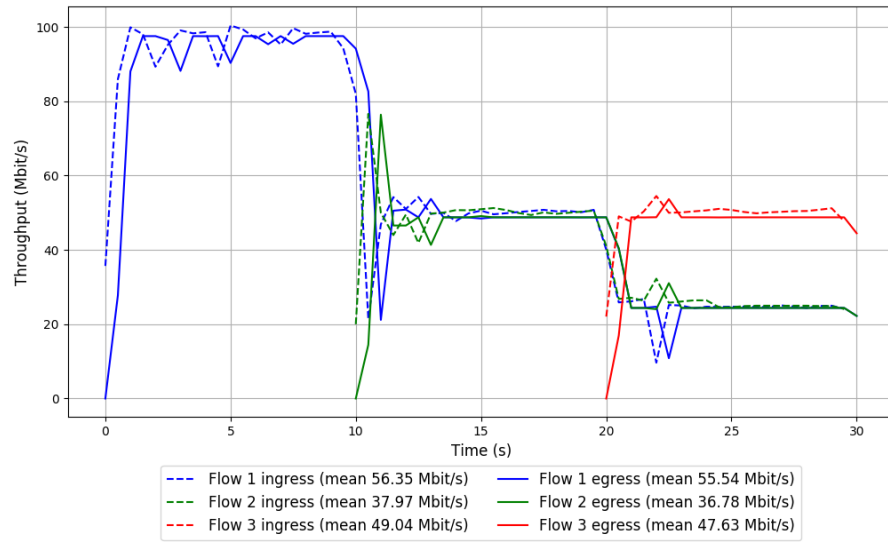
-- Flow 3:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 52.150 ms

Loss rate: 3.42%

Run 9: Report of TCP BBR — Data Link

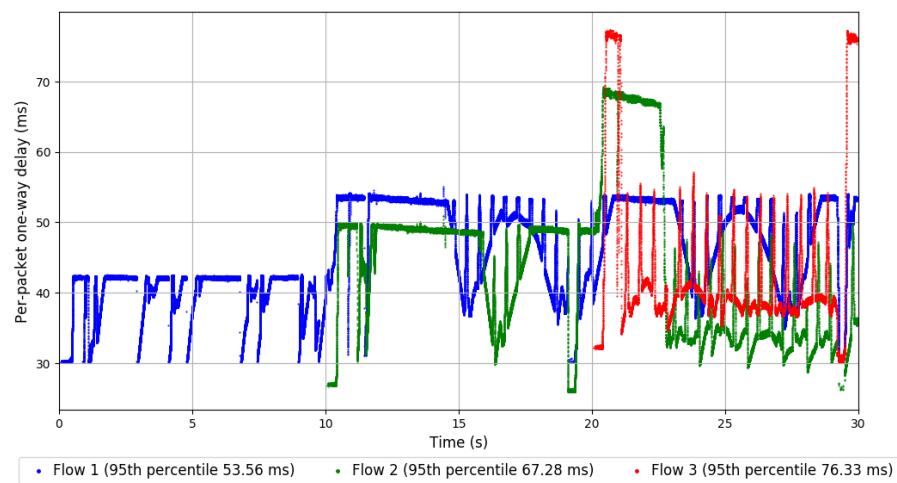
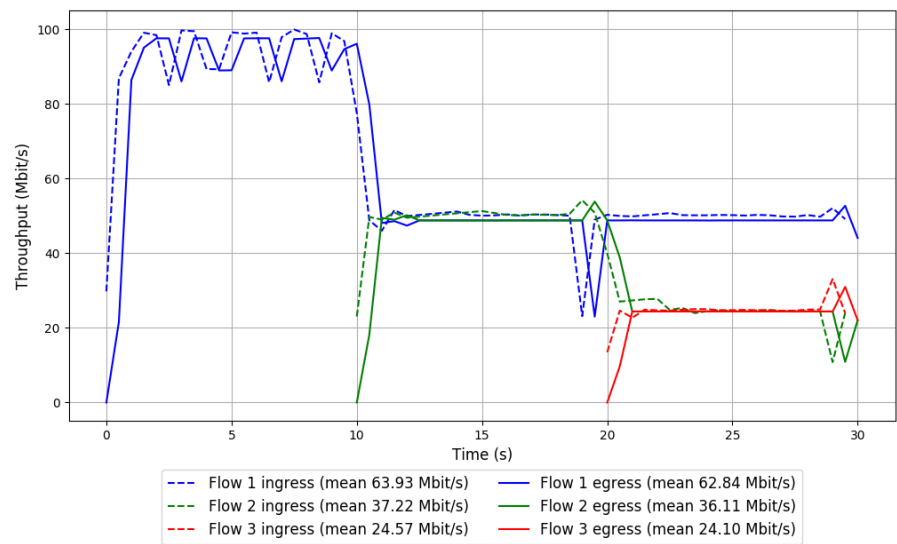


Run 10: Statistics of TCP BBR

Start at: 2018-06-06 06:16:46
End at: 2018-06-06 06:17:16
Local clock offset: 1.322 ms
Remote clock offset: -1.331 ms

Below is generated by plot.py at 2018-06-06 06:29:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 53.559 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 67.284 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 76.334 ms
Loss rate: 2.53%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-06 03:08:15

End at: 2018-06-06 03:08:45

Local clock offset: 0.741 ms

Remote clock offset: 0.384 ms

Below is generated by plot.py at 2018-06-06 06:30:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 35.976 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 35.892 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 38.120 ms

Loss rate: 0.21%

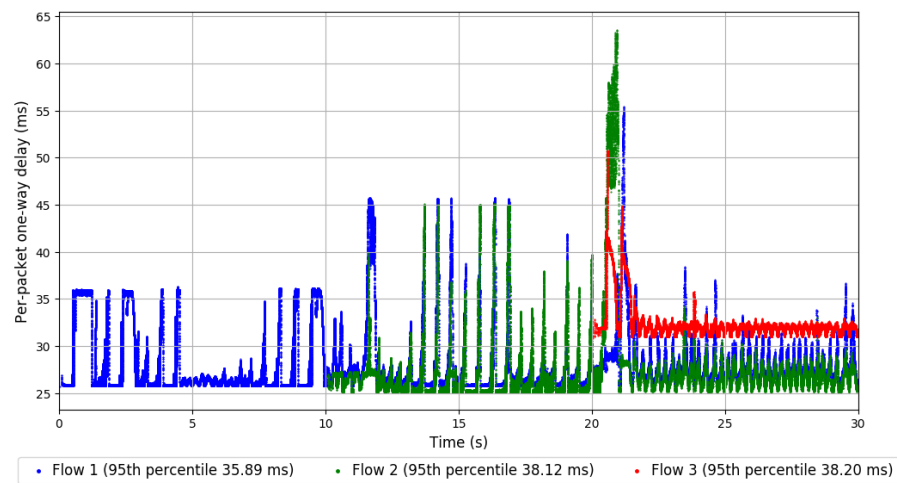
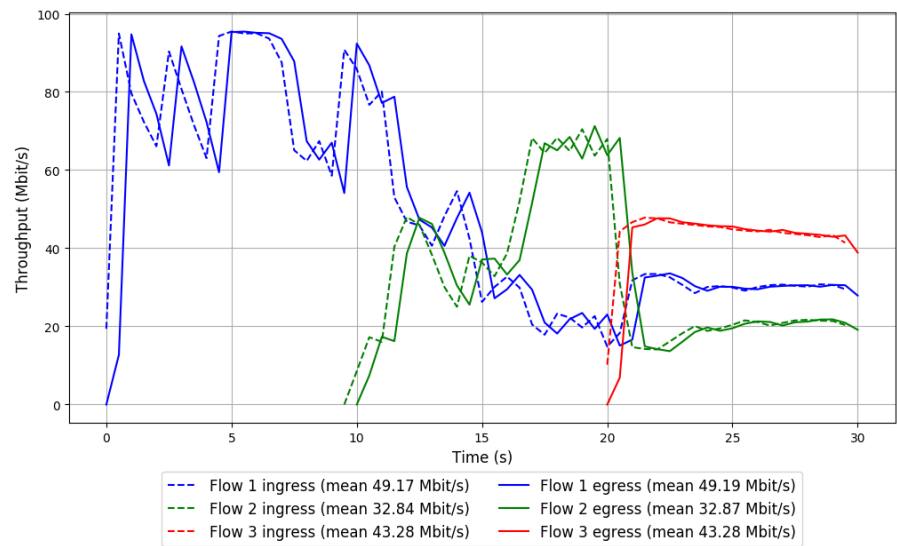
-- Flow 3:

Average throughput: 43.28 Mbit/s

95th percentile per-packet one-way delay: 38.196 ms

Loss rate: 0.62%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-06 03:29:49

End at: 2018-06-06 03:30:19

Local clock offset: 1.027 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-06-06 06:30:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.47 Mbit/s

95th percentile per-packet one-way delay: 40.507 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 40.463 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 35.83 Mbit/s

95th percentile per-packet one-way delay: 43.787 ms

Loss rate: 0.17%

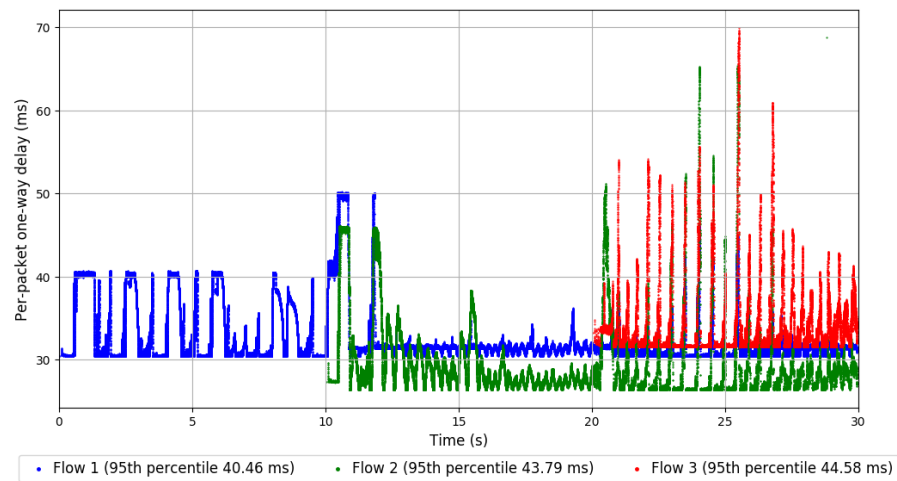
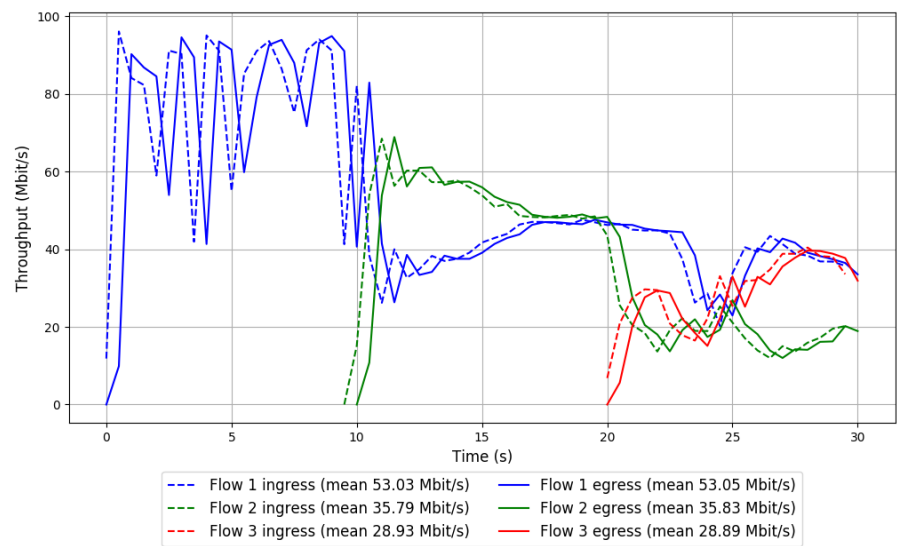
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 44.581 ms

Loss rate: 0.76%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-06 03:51:24

End at: 2018-06-06 03:51:54

Local clock offset: 1.241 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-06-06 06:30:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 40.608 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 40.589 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 39.138 ms

Loss rate: 0.36%

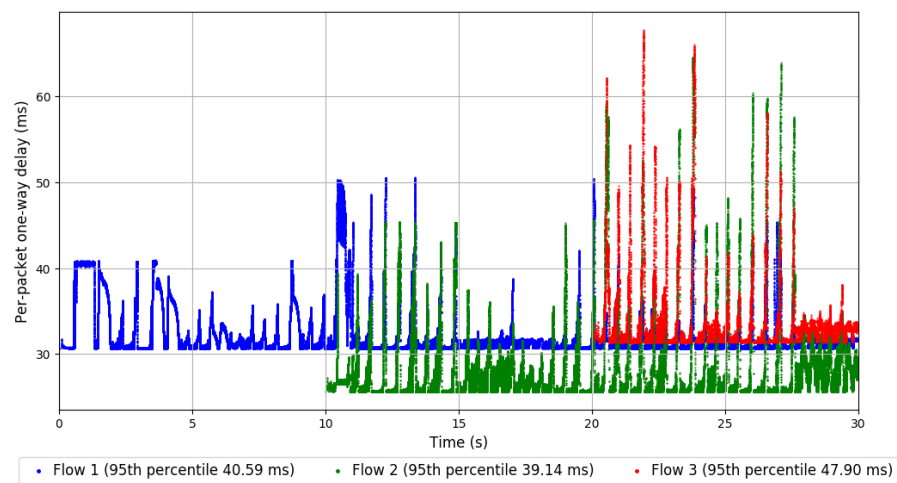
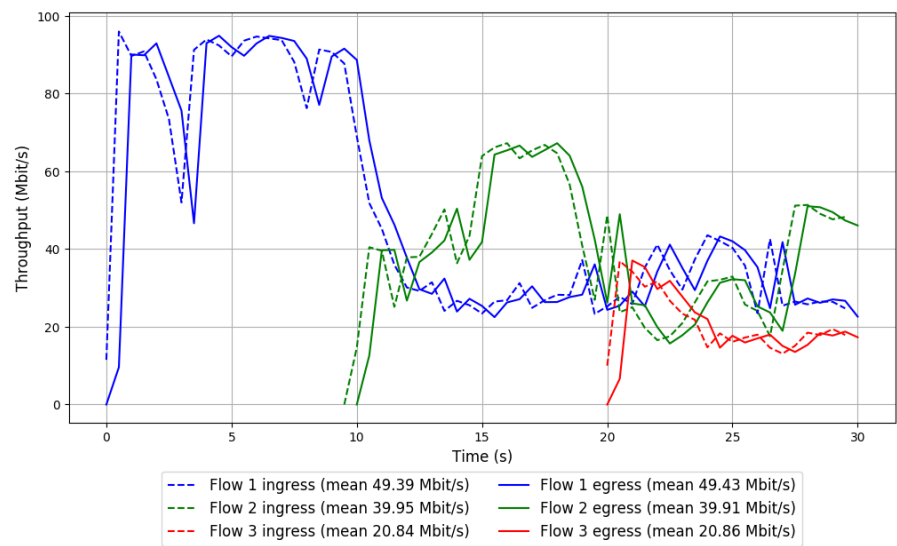
-- Flow 3:

Average throughput: 20.86 Mbit/s

95th percentile per-packet one-way delay: 47.902 ms

Loss rate: 0.55%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-06 04:13:08

End at: 2018-06-06 04:13:38

Local clock offset: 0.863 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-06 06:30:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 40.503 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 40.480 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 42.236 ms

Loss rate: 0.21%

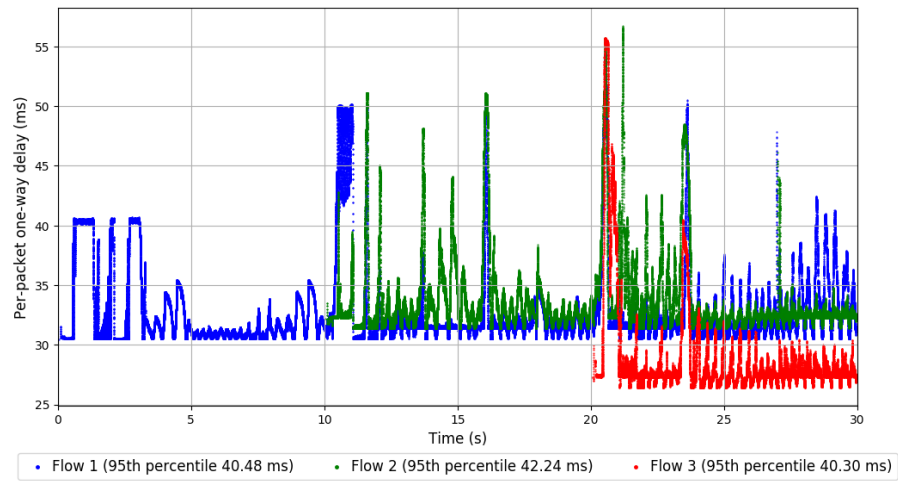
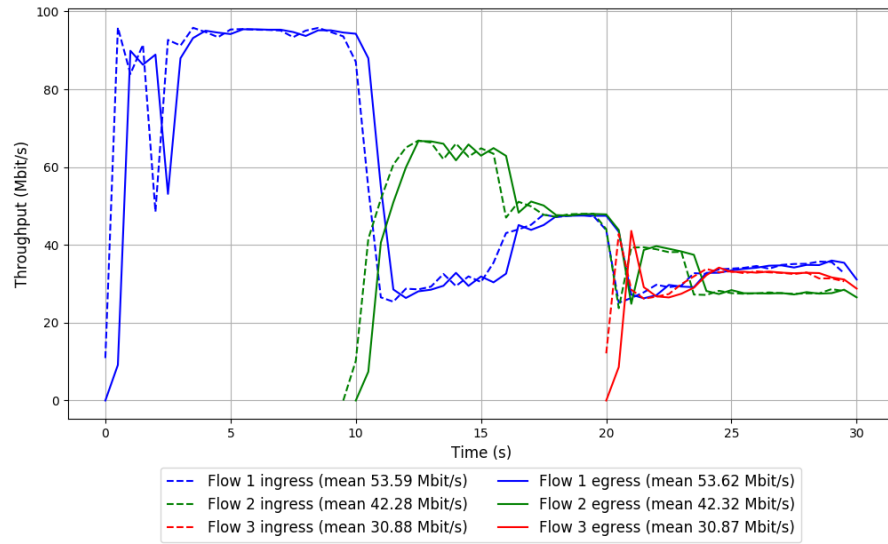
-- Flow 3:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 40.299 ms

Loss rate: 0.61%

Run 4: Report of Copa — Data Link

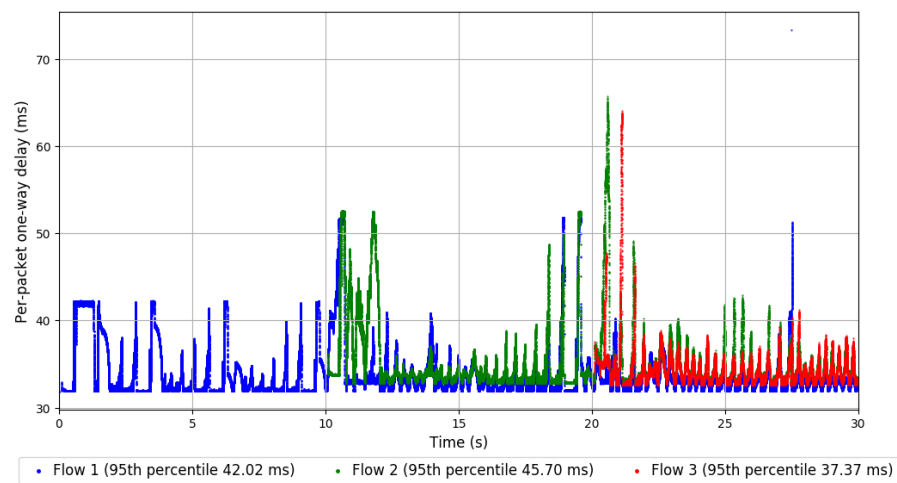
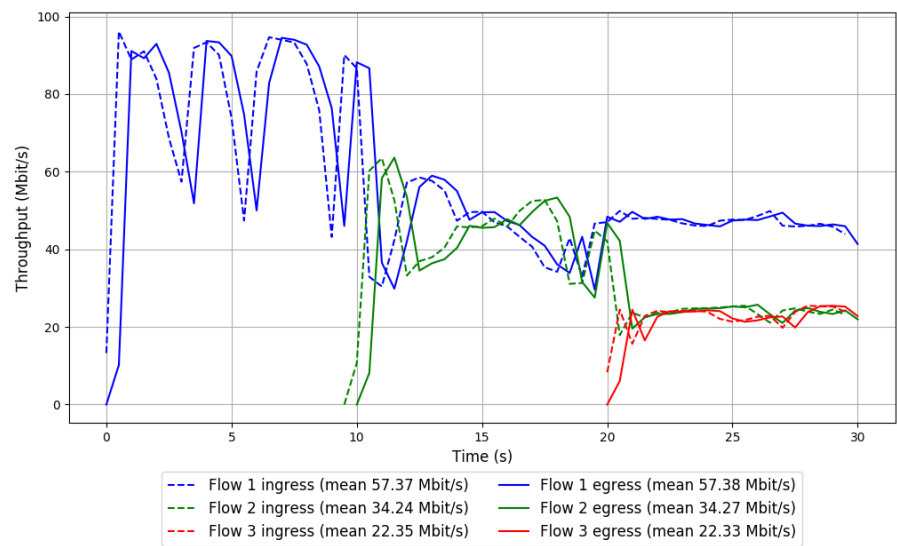


Run 5: Statistics of Copa

Start at: 2018-06-06 04:34:37
End at: 2018-06-06 04:35:07
Local clock offset: 0.535 ms
Remote clock offset: -1.931 ms

Below is generated by plot.py at 2018-06-06 06:30:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 42.060 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 42.018 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 45.697 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 37.371 ms
Loss rate: 0.68%

Run 5: Report of Copa — Data Link

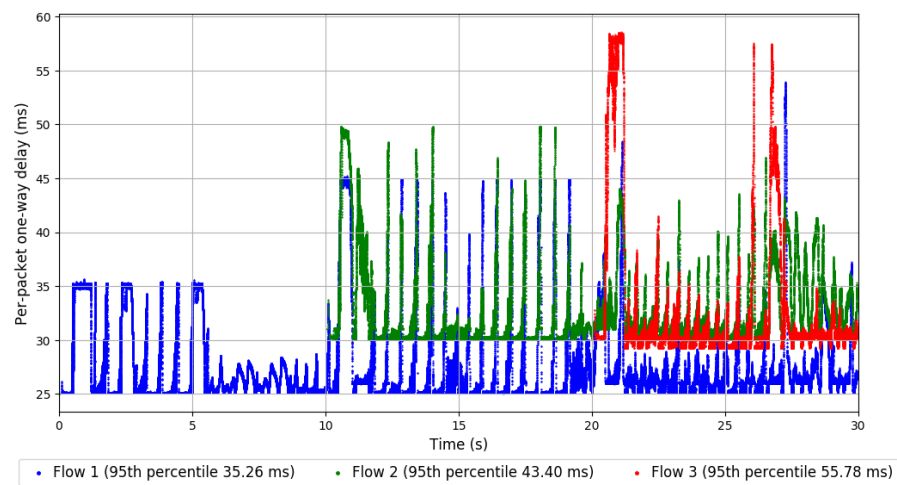
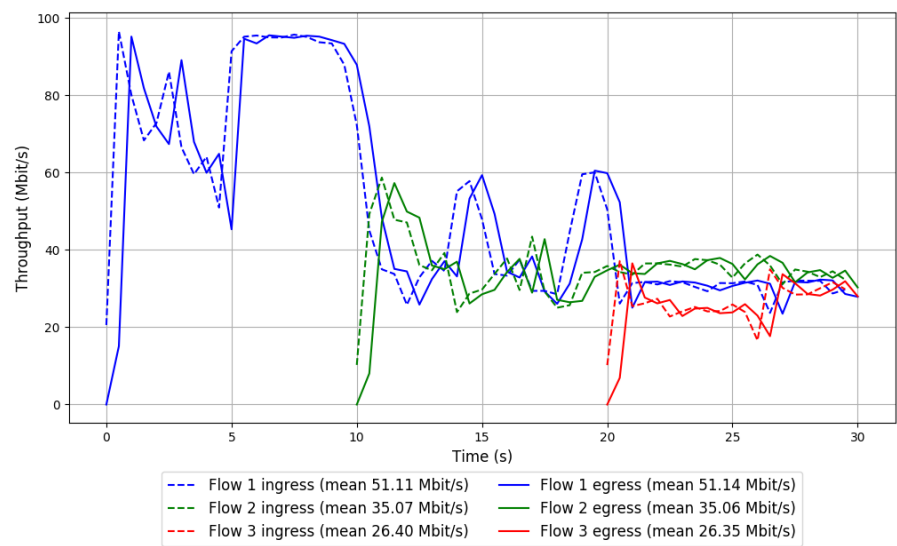


Run 6: Statistics of Copa

Start at: 2018-06-06 04:56:07
End at: 2018-06-06 04:56:37
Local clock offset: 0.357 ms
Remote clock offset: -0.788 ms

Below is generated by plot.py at 2018-06-06 06:30:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.20 Mbit/s
95th percentile per-packet one-way delay: 41.657 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 51.14 Mbit/s
95th percentile per-packet one-way delay: 35.258 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 43.397 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 55.776 ms
Loss rate: 0.79%

Run 6: Report of Copa — Data Link

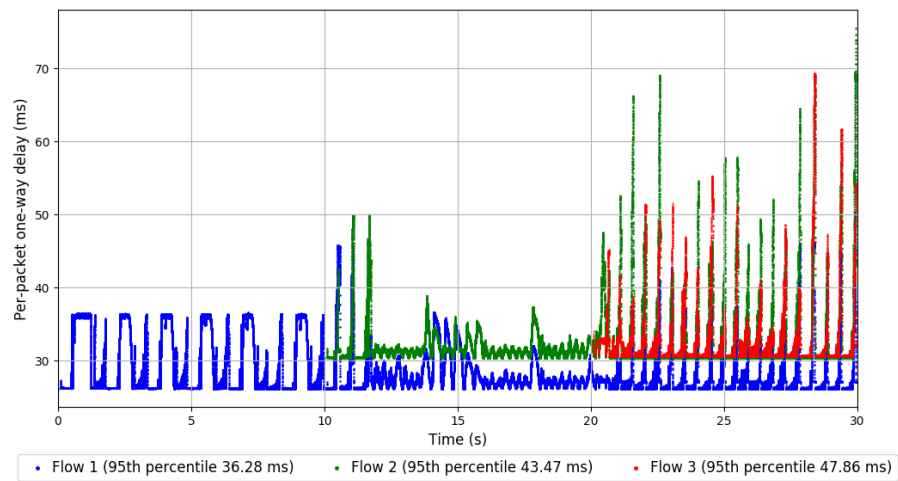
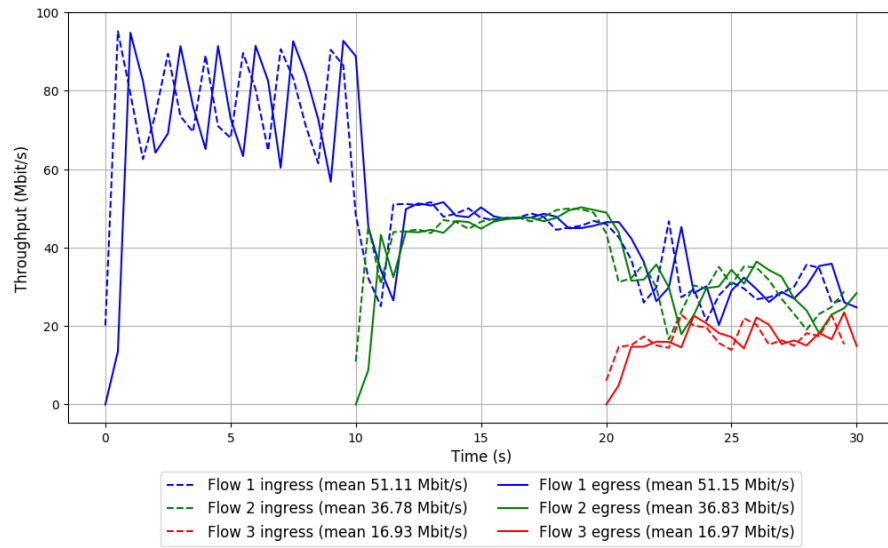


Run 7: Statistics of Copa

Start at: 2018-06-06 05:17:39
End at: 2018-06-06 05:18:09
Local clock offset: 1.692 ms
Remote clock offset: -1.739 ms

Below is generated by plot.py at 2018-06-06 06:31:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.28 Mbit/s
95th percentile per-packet one-way delay: 37.502 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 51.15 Mbit/s
95th percentile per-packet one-way delay: 36.282 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 43.470 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 16.97 Mbit/s
95th percentile per-packet one-way delay: 47.857 ms
Loss rate: 0.36%

Run 7: Report of Copa — Data Link

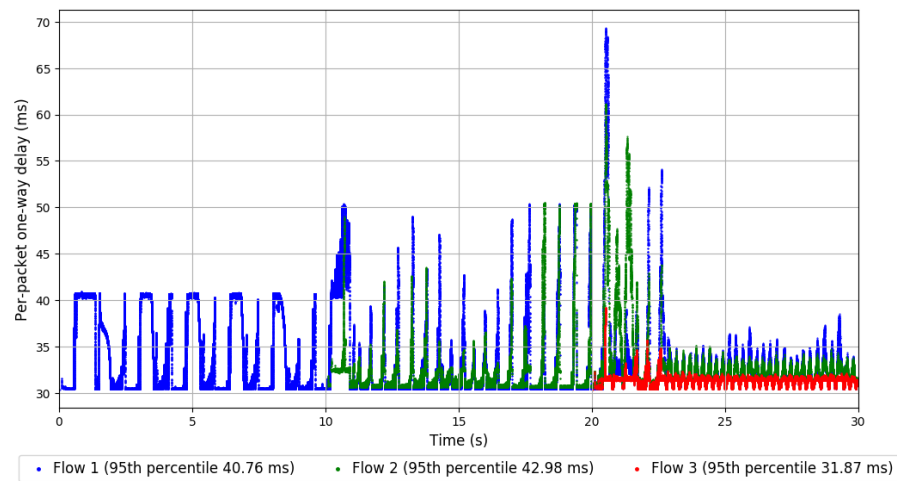
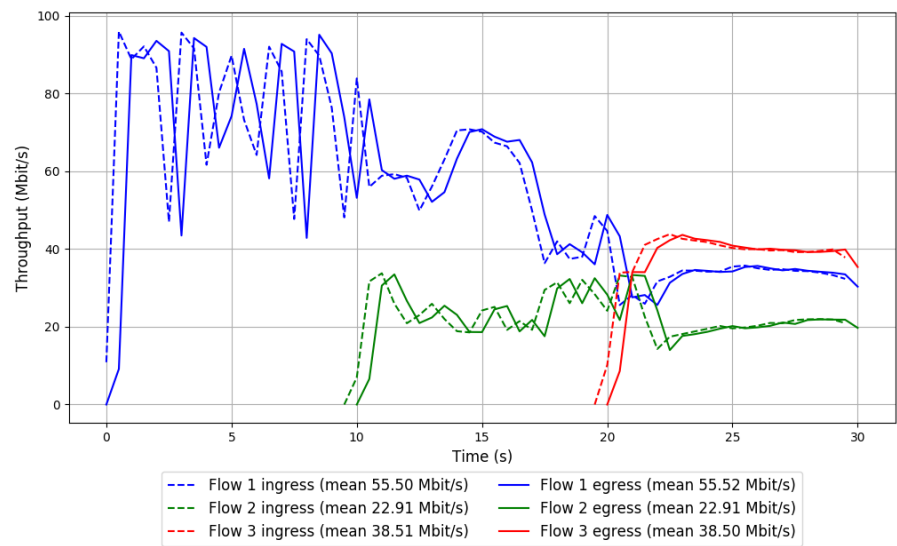


Run 8: Statistics of Copa

Start at: 2018-06-06 05:39:10
End at: 2018-06-06 05:39:40
Local clock offset: 1.856 ms
Remote clock offset: -2.278 ms

Below is generated by plot.py at 2018-06-06 06:31:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 40.723 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 40.756 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 42.983 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 31.872 ms
Loss rate: 0.63%

Run 8: Report of Copa — Data Link

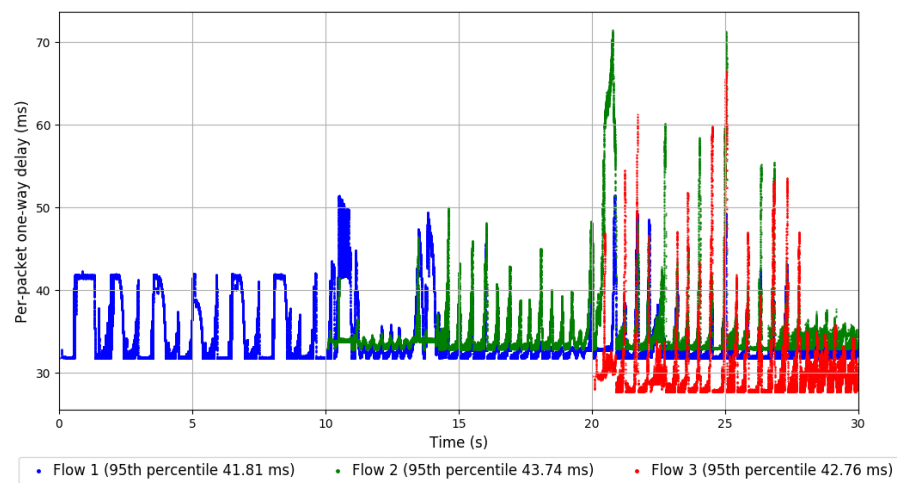
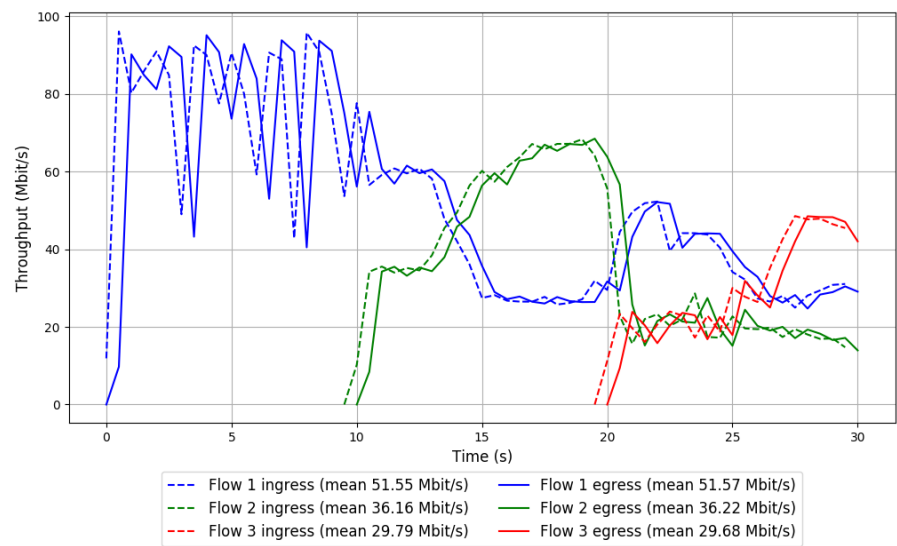


Run 9: Statistics of Copa

Start at: 2018-06-06 06:00:42
End at: 2018-06-06 06:01:12
Local clock offset: 1.515 ms
Remote clock offset: -3.874 ms

Below is generated by plot.py at 2018-06-06 06:32:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.54 Mbit/s
95th percentile per-packet one-way delay: 41.931 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 41.815 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 43.736 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 42.762 ms
Loss rate: 0.92%

Run 9: Report of Copa — Data Link

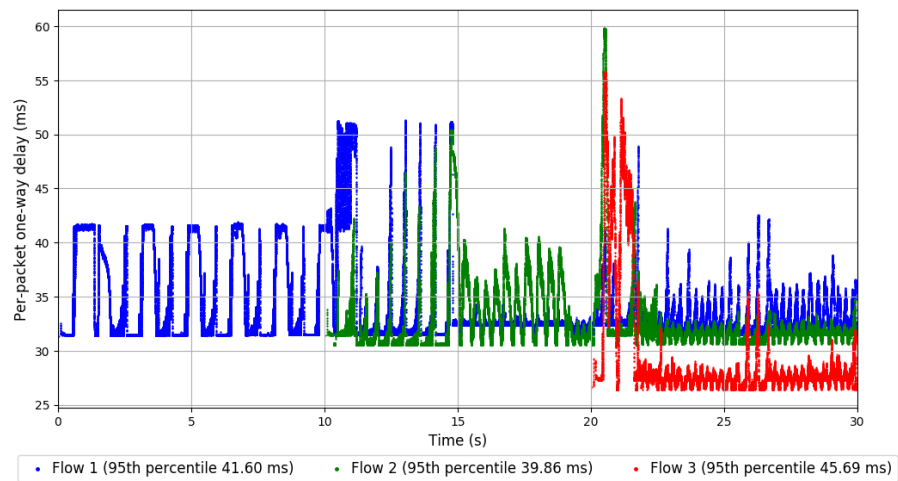
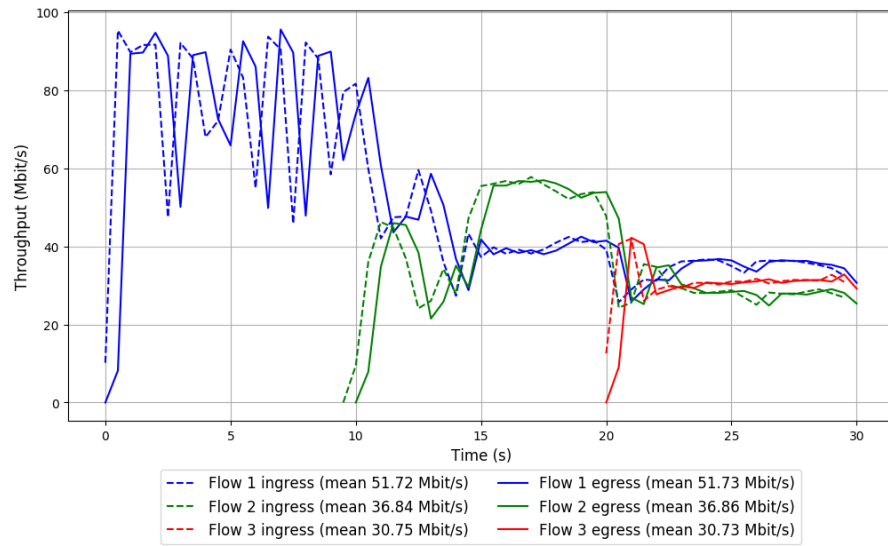


Run 10: Statistics of Copa

Start at: 2018-06-06 06:22:14
End at: 2018-06-06 06:22:44
Local clock offset: 1.371 ms
Remote clock offset: -1.107 ms

Below is generated by plot.py at 2018-06-06 06:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.46 Mbit/s
95th percentile per-packet one-way delay: 41.626 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 41.605 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 39.860 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 45.686 ms
Loss rate: 0.62%

Run 10: Report of Copa — Data Link

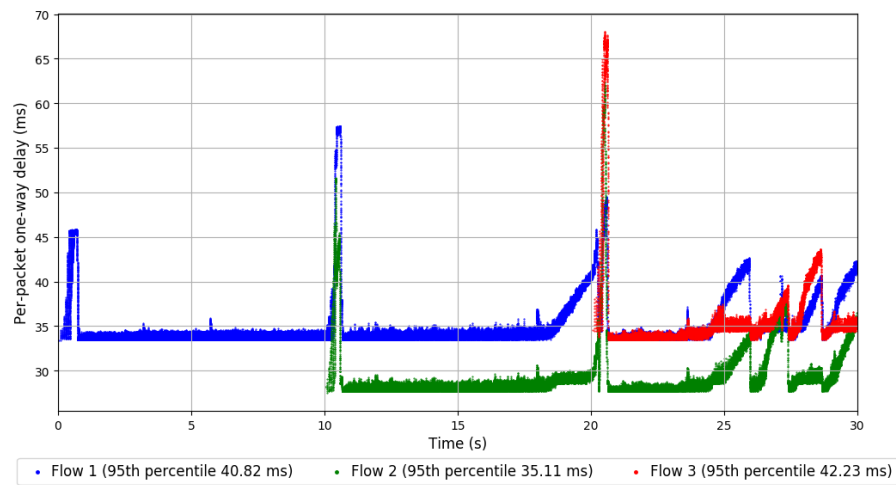
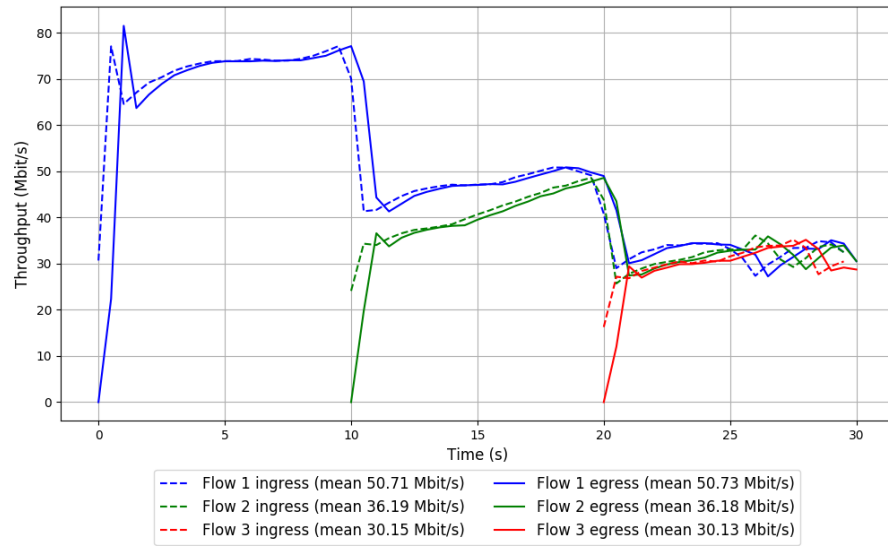


Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 03:00:05
End at: 2018-06-06 03:00:35
Local clock offset: 0.62 ms
Remote clock offset: -2.228 ms

Below is generated by plot.py at 2018-06-06 06:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 40.364 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 40.824 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 36.18 Mbit/s
95th percentile per-packet one-way delay: 35.106 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 42.225 ms
Loss rate: 0.68%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 03:21:37

End at: 2018-06-06 03:22:07

Local clock offset: 0.916 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-06-06 06:32:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 36.957 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 50.82 Mbit/s

95th percentile per-packet one-way delay: 37.397 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 33.718 ms

Loss rate: 0.23%

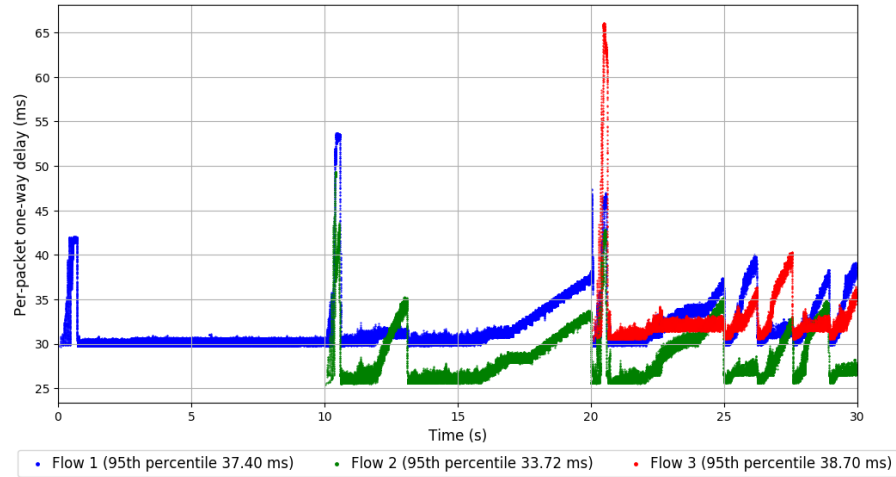
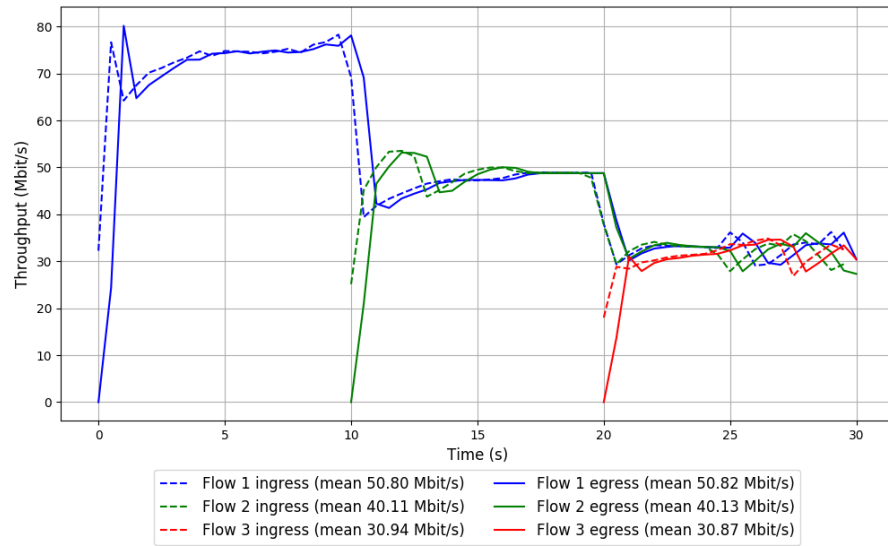
-- Flow 3:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 38.695 ms

Loss rate: 0.81%

Run 2: Report of TCP Cubic — Data Link

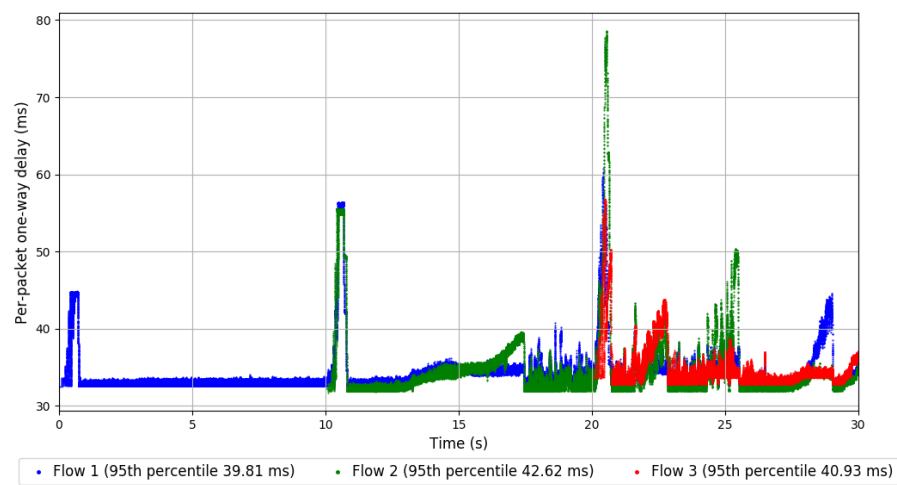
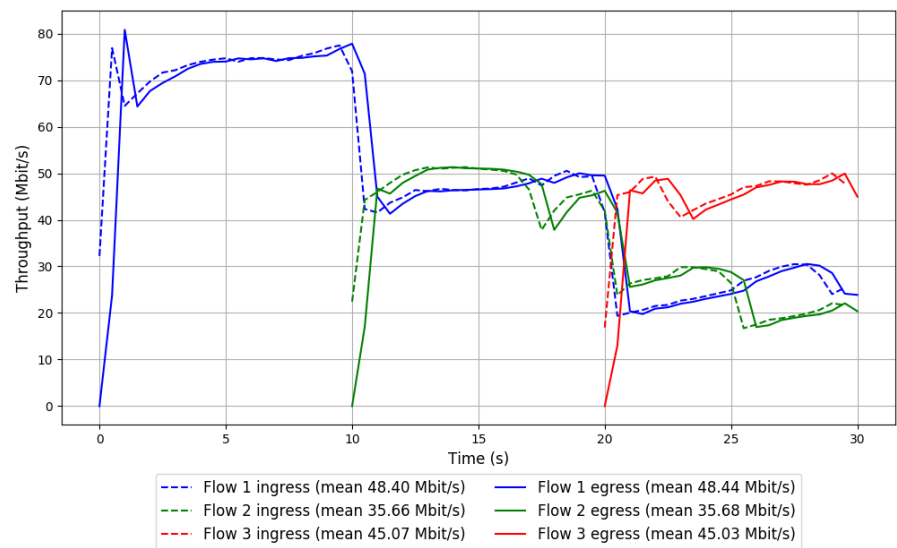


Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 03:43:12
End at: 2018-06-06 03:43:42
Local clock offset: 1.219 ms
Remote clock offset: -1.951 ms

Below is generated by plot.py at 2018-06-06 06:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 40.895 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 39.809 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 42.623 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 40.934 ms
Loss rate: 0.69%

Run 3: Report of TCP Cubic — Data Link

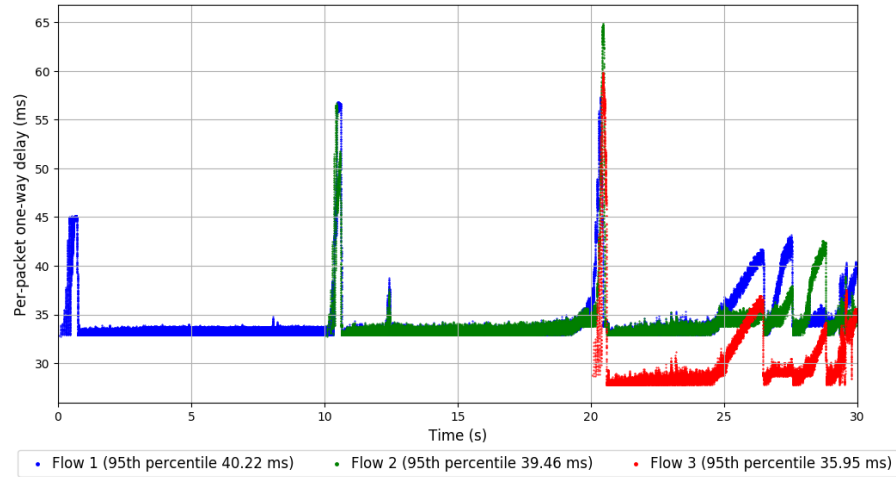
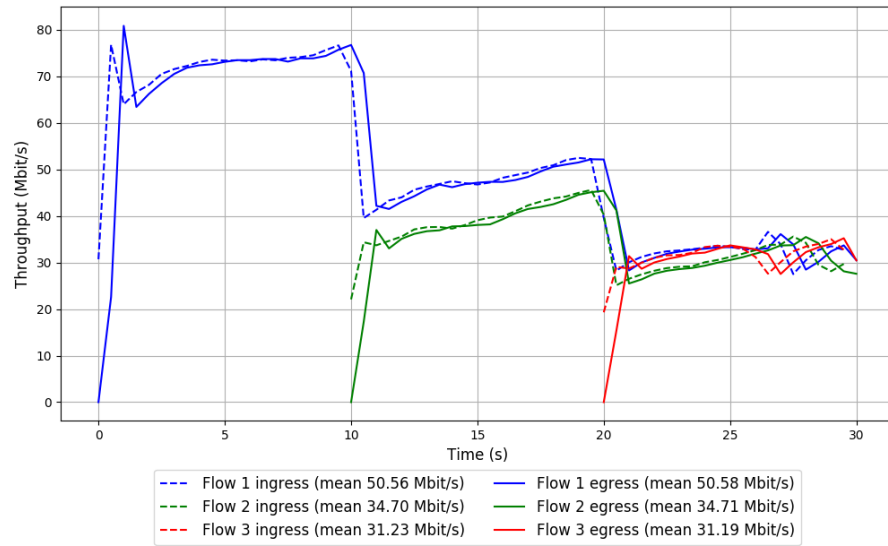


Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 04:04:58
End at: 2018-06-06 04:05:28
Local clock offset: 1.409 ms
Remote clock offset: -1.933 ms

Below is generated by plot.py at 2018-06-06 06:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 39.684 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 50.58 Mbit/s
95th percentile per-packet one-way delay: 40.224 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 39.459 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 35.949 ms
Loss rate: 0.70%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 04:26:28

End at: 2018-06-06 04:26:58

Local clock offset: 0.529 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-06-06 06:32:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 37.377 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 50.45 Mbit/s

95th percentile per-packet one-way delay: 38.013 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 37.305 ms

Loss rate: 0.29%

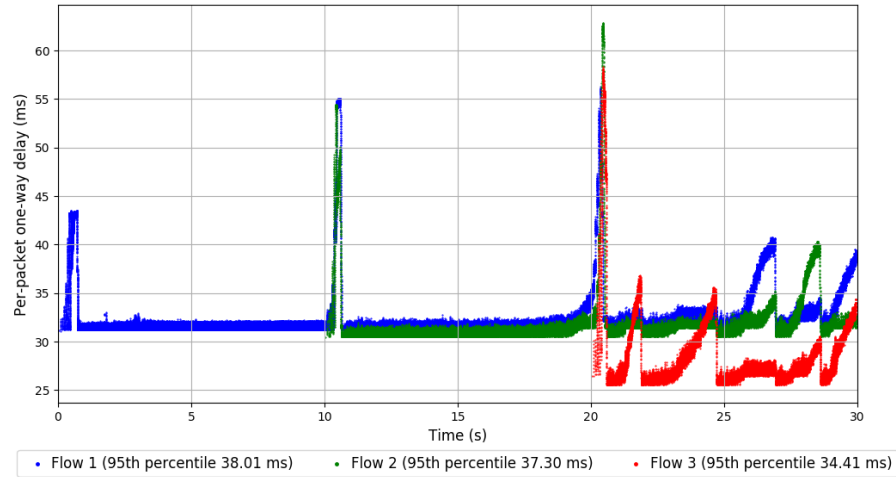
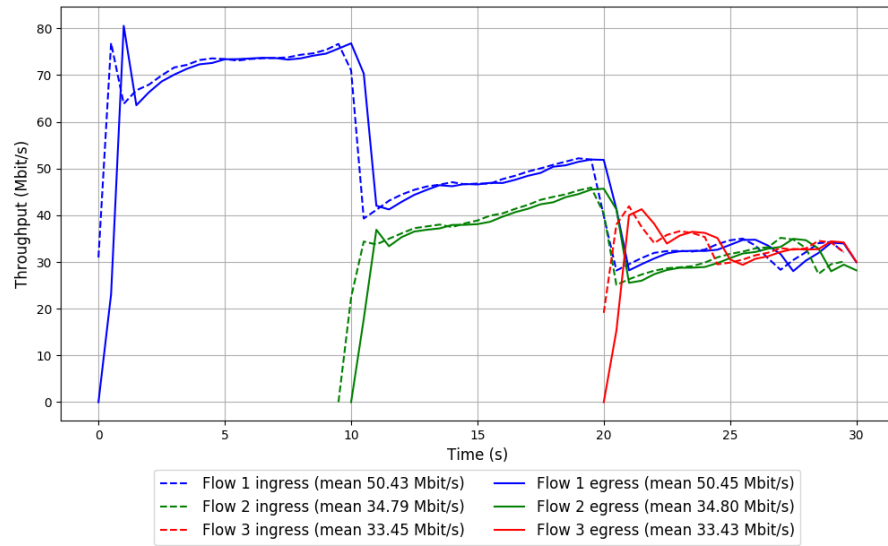
-- Flow 3:

Average throughput: 33.43 Mbit/s

95th percentile per-packet one-way delay: 34.405 ms

Loss rate: 0.63%

Run 5: Report of TCP Cubic — Data Link

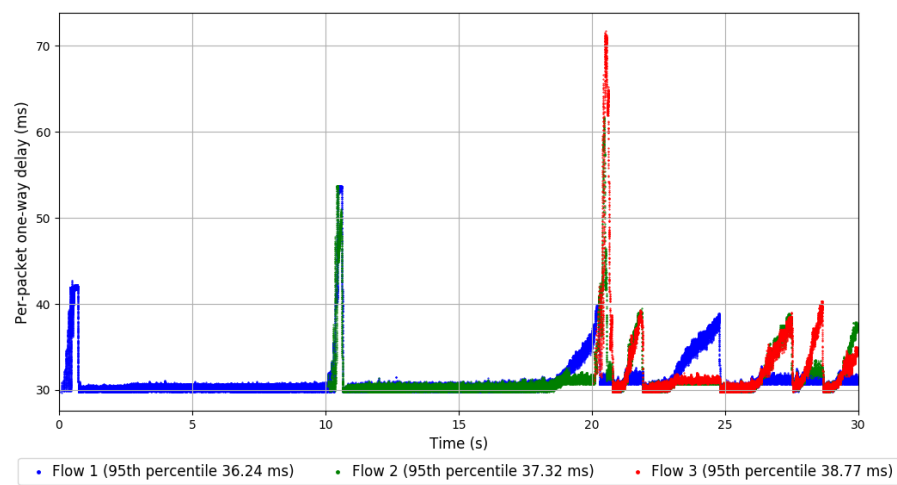
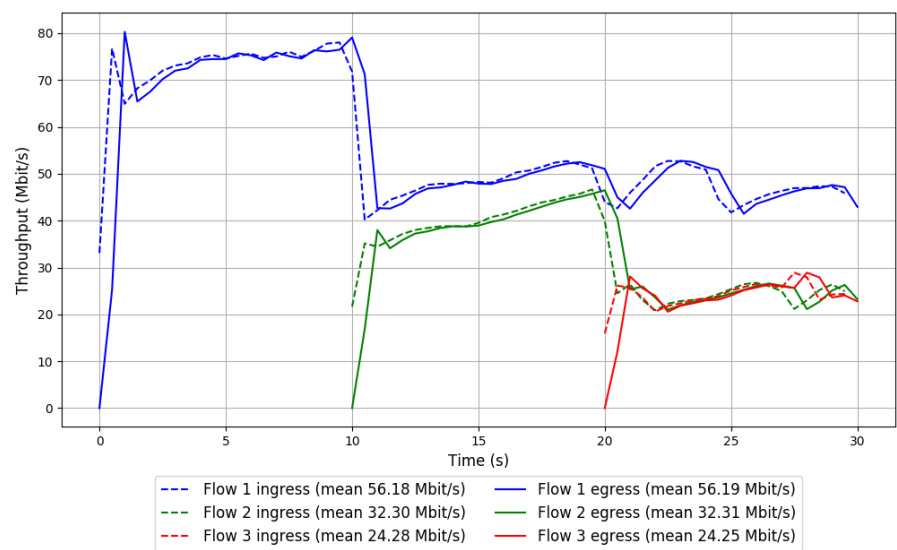


Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 04:47:57
End at: 2018-06-06 04:48:27
Local clock offset: 0.493 ms
Remote clock offset: -0.977 ms

Below is generated by plot.py at 2018-06-06 06:32:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 37.030 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 36.244 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 37.317 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 38.773 ms
Loss rate: 0.74%

Run 6: Report of TCP Cubic — Data Link

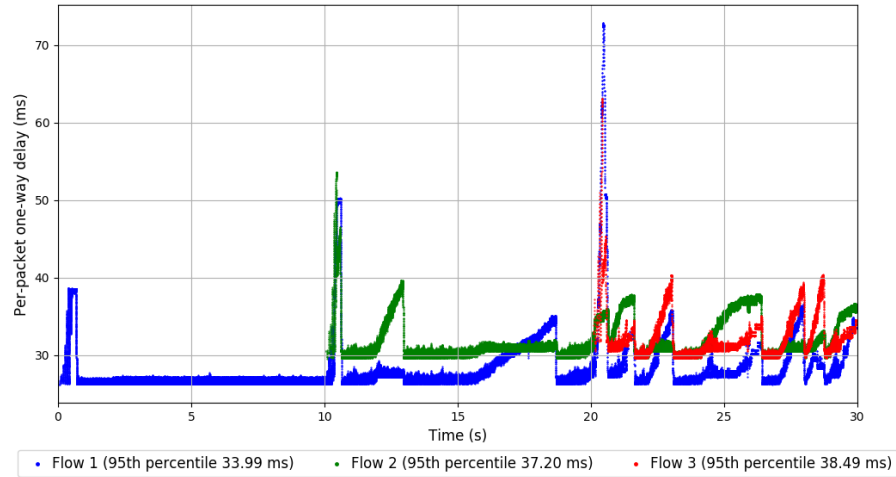
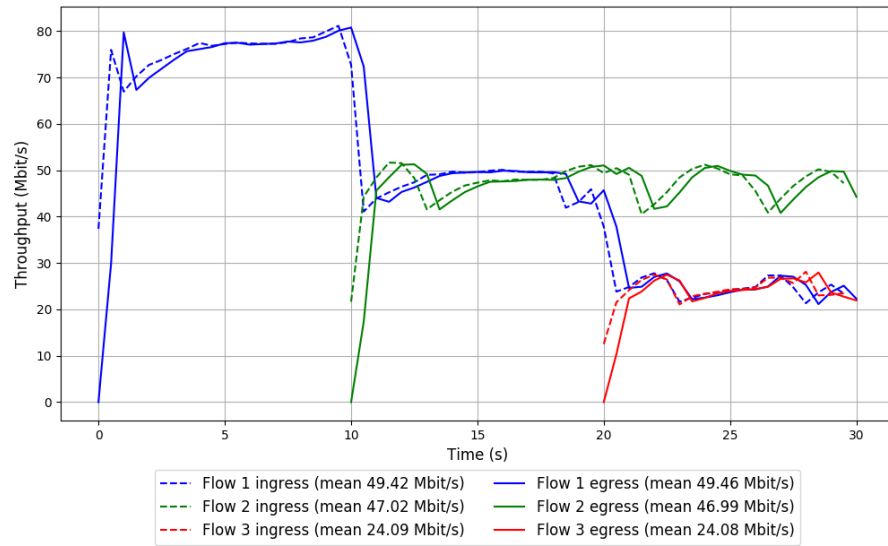


Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 05:09:26
End at: 2018-06-06 05:09:56
Local clock offset: 1.072 ms
Remote clock offset: -1.325 ms

Below is generated by plot.py at 2018-06-06 06:33:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.70 Mbit/s
95th percentile per-packet one-way delay: 36.965 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 33.995 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 37.205 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 38.494 ms
Loss rate: 0.66%

Run 7: Report of TCP Cubic — Data Link

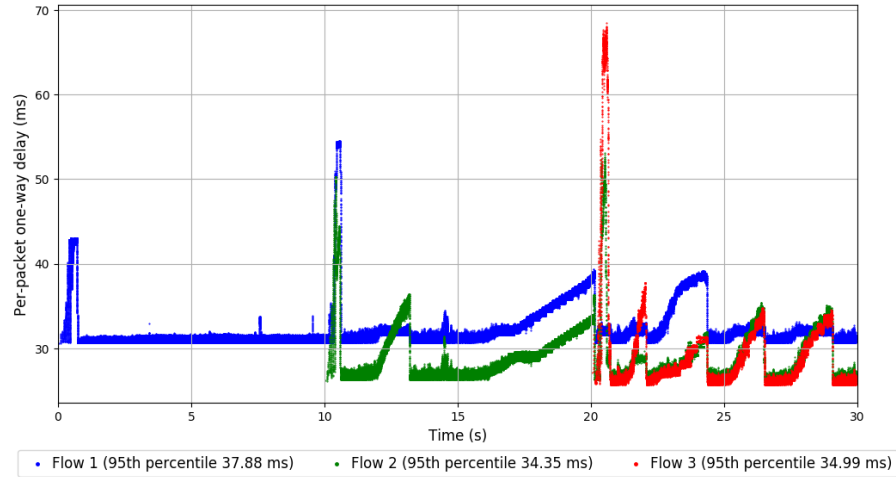
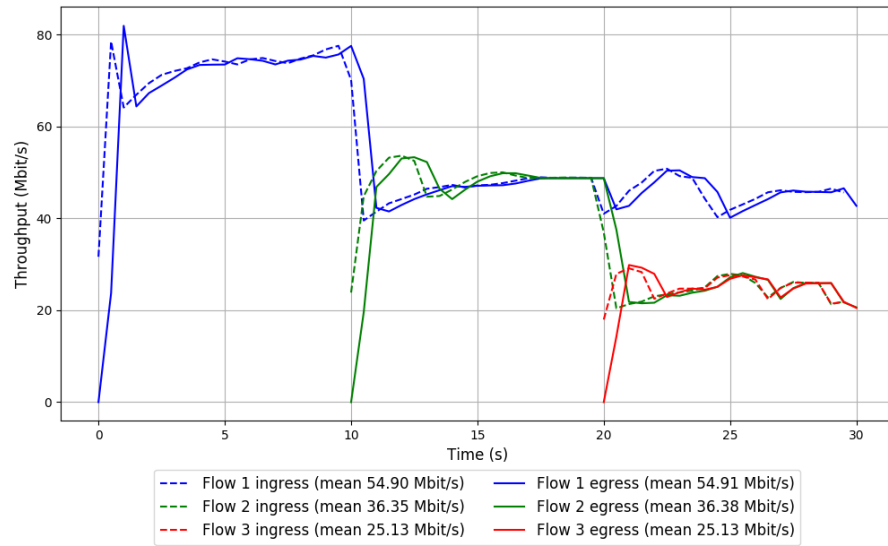


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 05:30:58
End at: 2018-06-06 05:31:28
Local clock offset: 2.26 ms
Remote clock offset: -2.101 ms

Below is generated by plot.py at 2018-06-06 06:33:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 37.370 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 37.881 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 34.350 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 25.13 Mbit/s
95th percentile per-packet one-way delay: 34.992 ms
Loss rate: 0.56%

Run 8: Report of TCP Cubic — Data Link

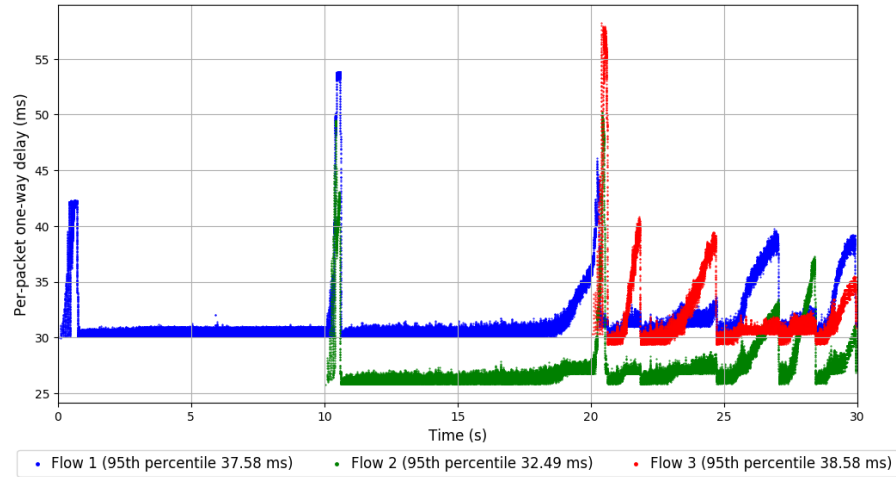
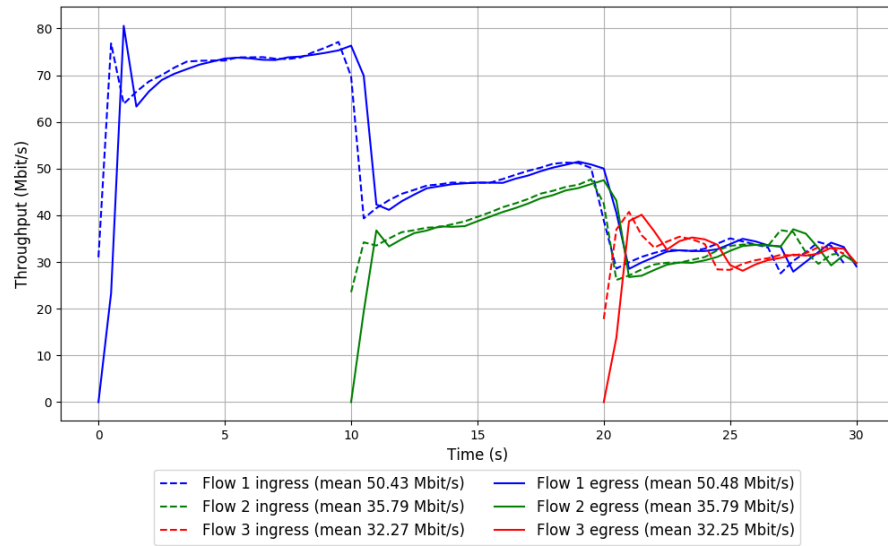


Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 05:52:33
End at: 2018-06-06 05:53:03
Local clock offset: 1.634 ms
Remote clock offset: -1.542 ms

Below is generated by plot.py at 2018-06-06 06:33:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 37.150 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 37.575 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 32.490 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 38.577 ms
Loss rate: 0.66%

Run 9: Report of TCP Cubic — Data Link

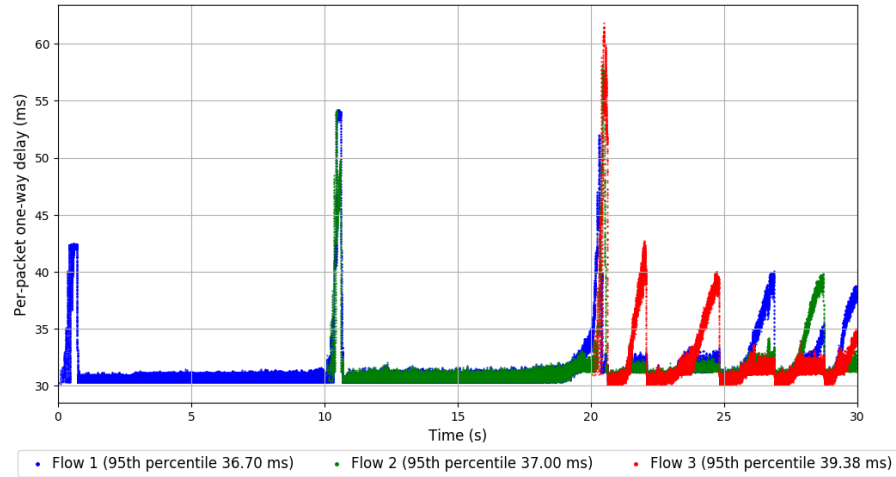
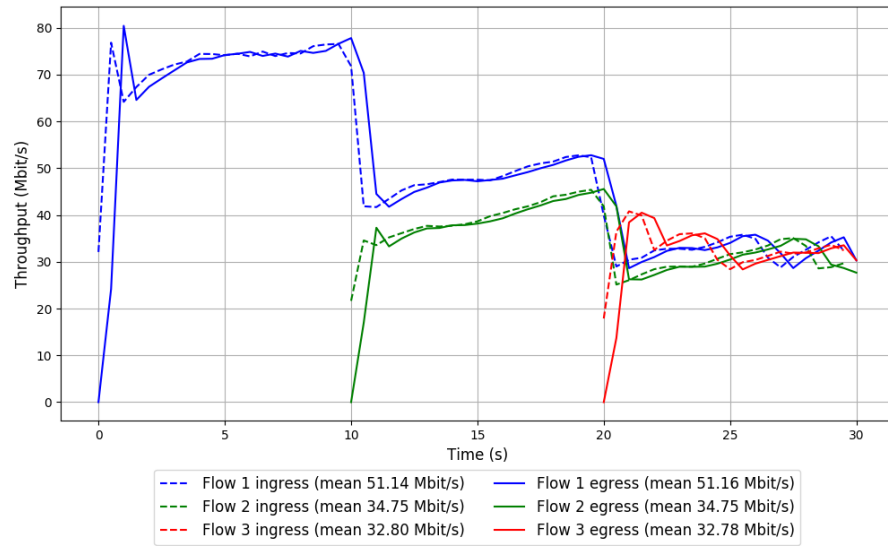


Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 06:14:04
End at: 2018-06-06 06:14:34
Local clock offset: 1.434 ms
Remote clock offset: -1.325 ms

Below is generated by plot.py at 2018-06-06 06:33:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 37.646 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 51.16 Mbit/s
95th percentile per-packet one-way delay: 36.699 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 36.999 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 39.384 ms
Loss rate: 0.67%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-06 03:06:55

End at: 2018-06-06 03:07:25

Local clock offset: 0.705 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-06-06 06:34:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 64.493 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 61.189 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 46.59 Mbit/s

95th percentile per-packet one-way delay: 49.322 ms

Loss rate: 2.95%

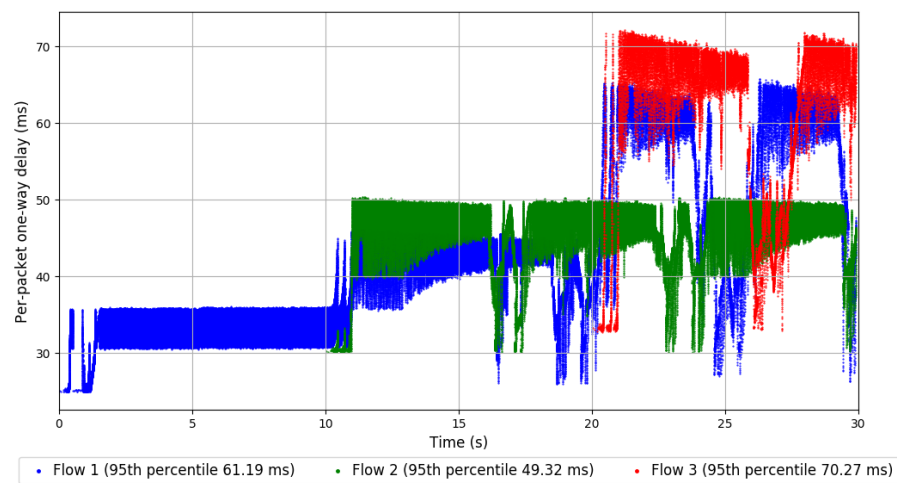
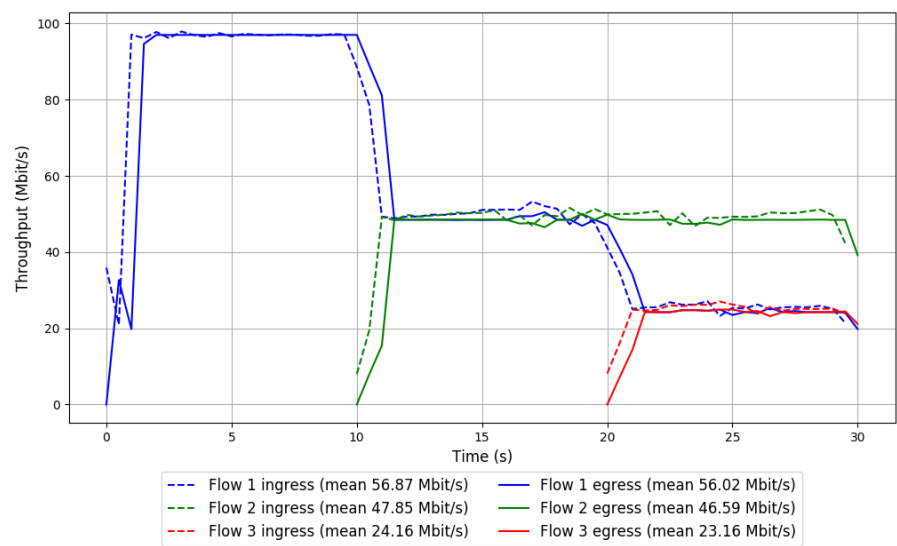
-- Flow 3:

Average throughput: 23.16 Mbit/s

95th percentile per-packet one-way delay: 70.266 ms

Loss rate: 4.90%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-06 03:28:28

End at: 2018-06-06 03:28:58

Local clock offset: 0.925 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2018-06-06 06:34:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 58.262 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 58.594 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 3.40%

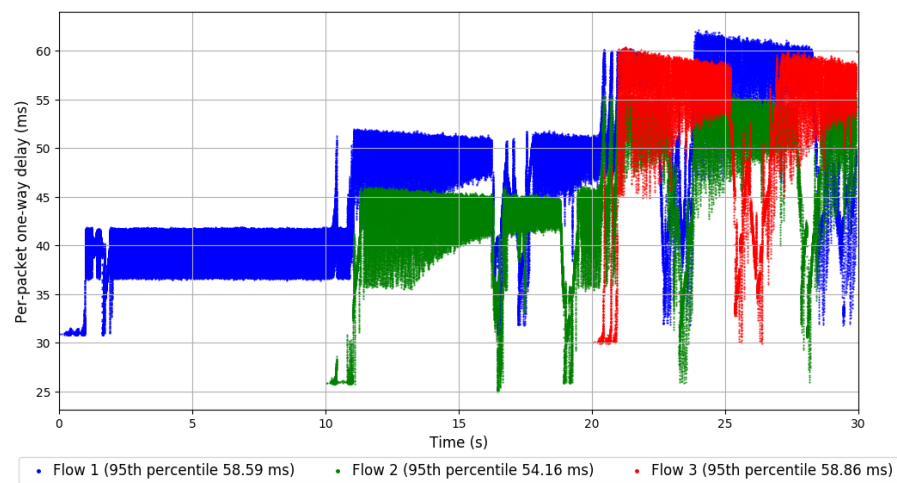
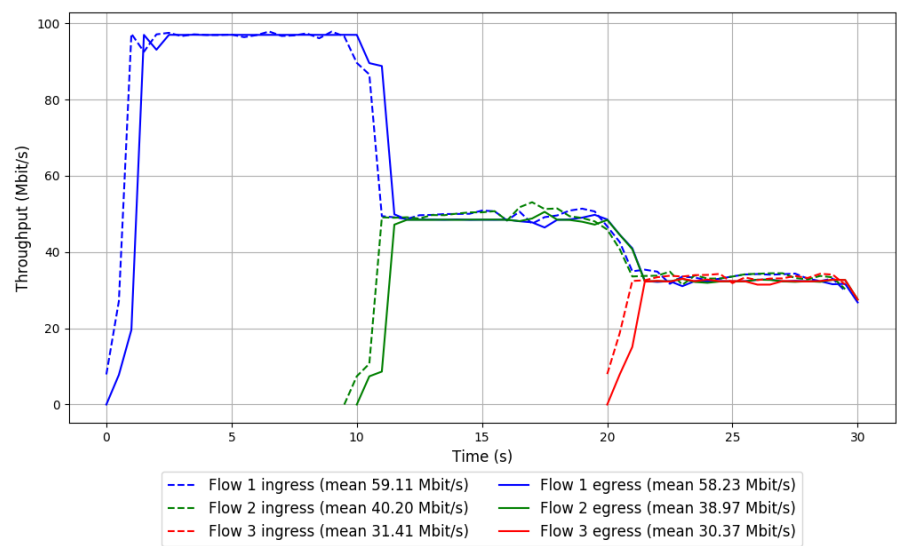
-- Flow 3:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 58.864 ms

Loss rate: 4.03%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-06 03:50:03

End at: 2018-06-06 03:50:33

Local clock offset: 1.233 ms

Remote clock offset: 0.649 ms

Below is generated by plot.py at 2018-06-06 06:34:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 2.33%

-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 61.838 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 67.475 ms

Loss rate: 3.88%

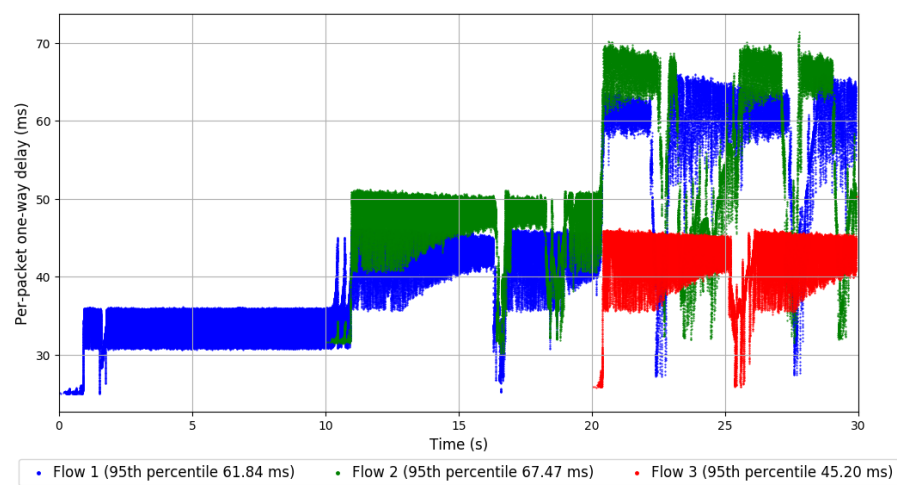
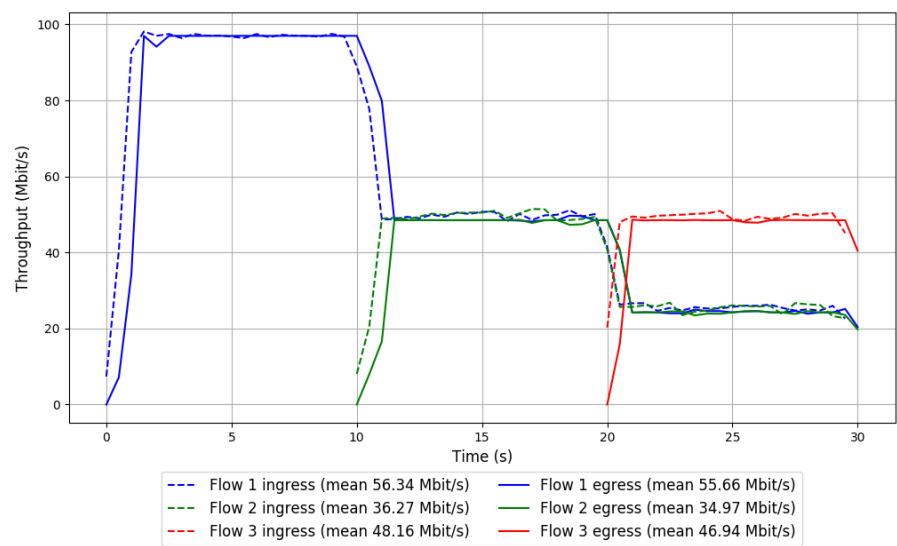
-- Flow 3:

Average throughput: 46.94 Mbit/s

95th percentile per-packet one-way delay: 45.202 ms

Loss rate: 3.08%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-06 04:11:48

End at: 2018-06-06 04:12:18

Local clock offset: 0.937 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-06 06:34:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 58.547 ms

Loss rate: 2.52%

-- Flow 1:

Average throughput: 58.82 Mbit/s

95th percentile per-packet one-way delay: 53.434 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 38.87 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 3.88%

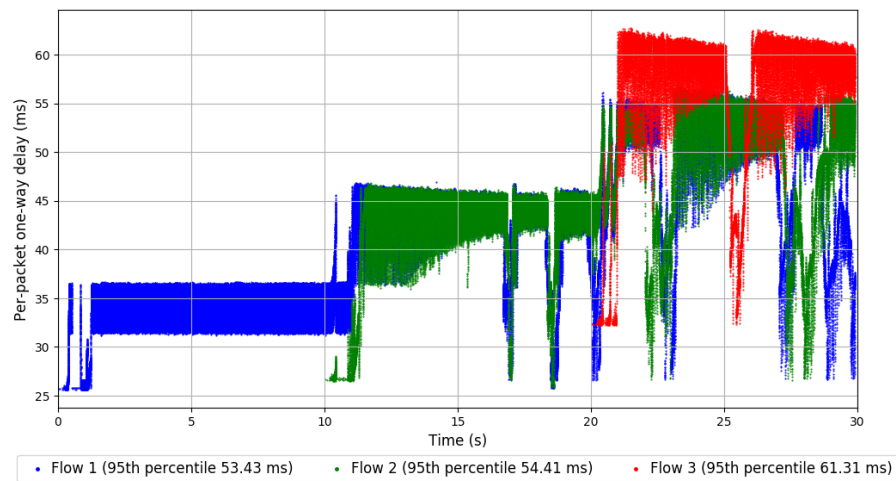
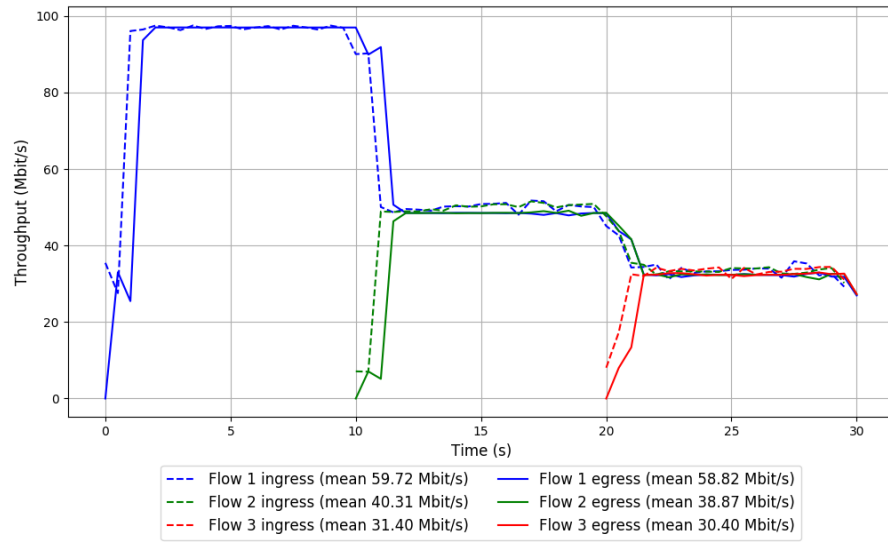
-- Flow 3:

Average throughput: 30.40 Mbit/s

95th percentile per-packet one-way delay: 61.313 ms

Loss rate: 3.88%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-06 04:33:17

End at: 2018-06-06 04:33:47

Local clock offset: 0.458 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-06-06 06:34:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 56.813 ms

Loss rate: 2.58%

-- Flow 1:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 54.469 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 59.089 ms

Loss rate: 4.15%

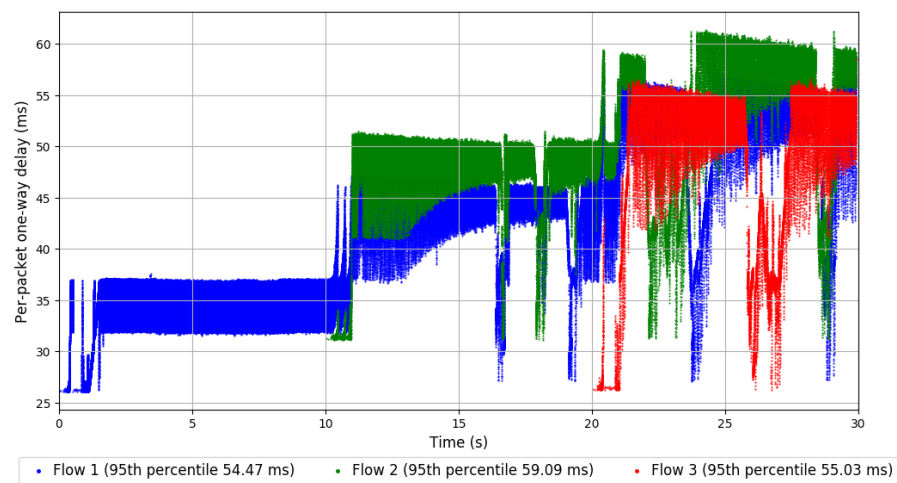
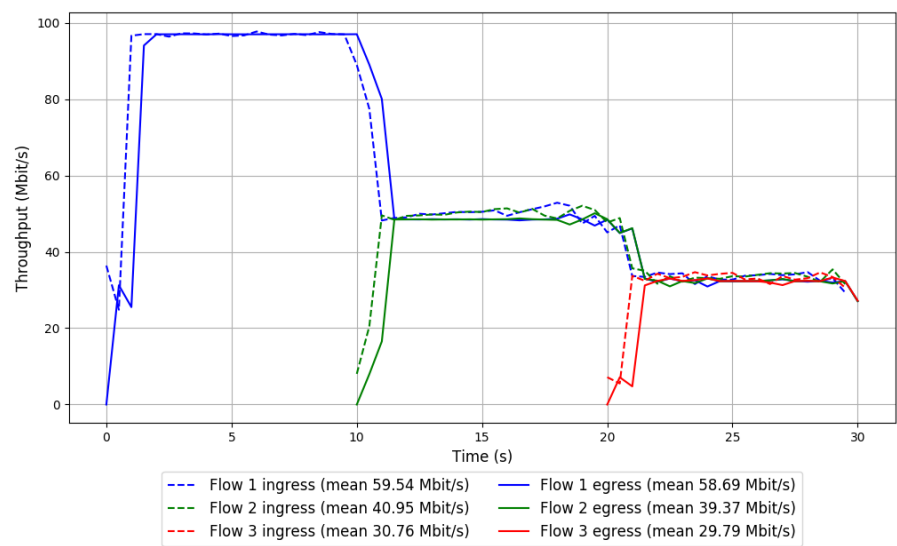
-- Flow 3:

Average throughput: 29.79 Mbit/s

95th percentile per-packet one-way delay: 55.027 ms

Loss rate: 3.81%

Run 5: Report of FillP — Data Link

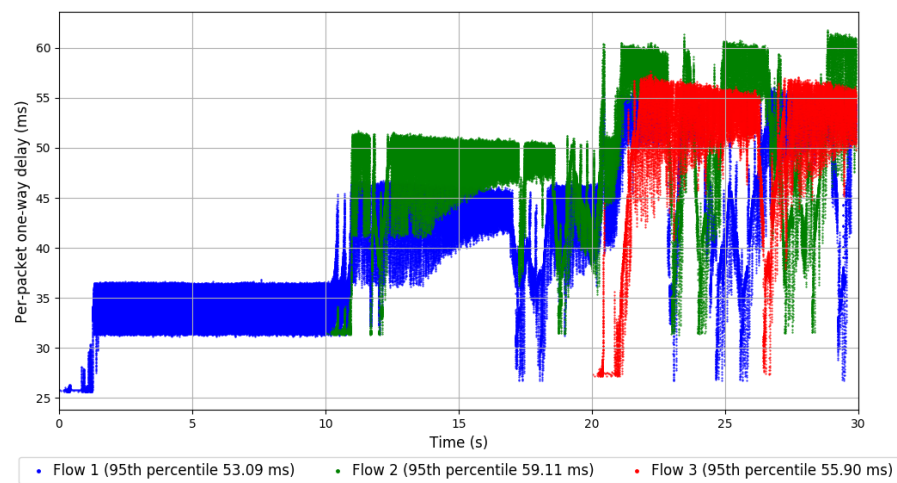
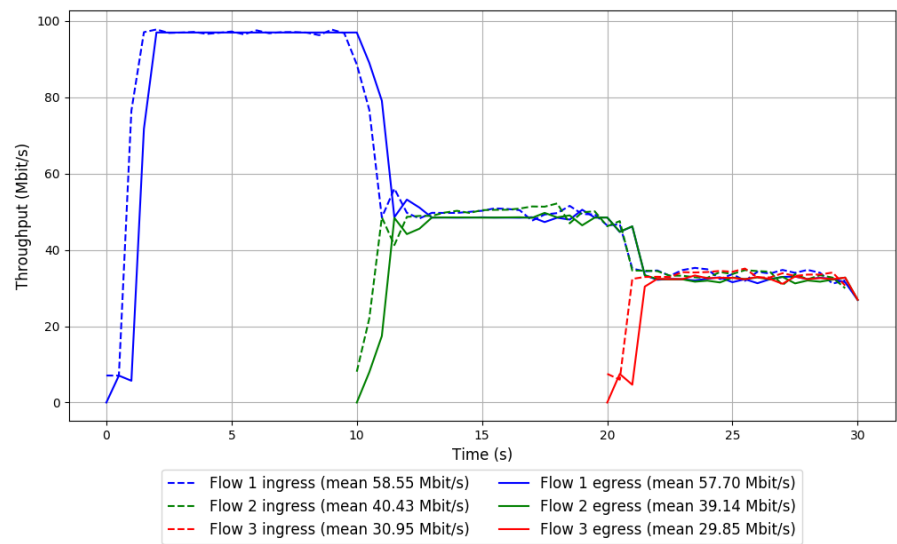


Run 6: Statistics of FillP

Start at: 2018-06-06 04:54:47
End at: 2018-06-06 04:55:17
Local clock offset: 0.455 ms
Remote clock offset: -1.254 ms

Below is generated by plot.py at 2018-06-06 06:34:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 56.086 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 53.089 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 59.114 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 55.896 ms
Loss rate: 4.20%

Run 6: Report of FillP — Data Link

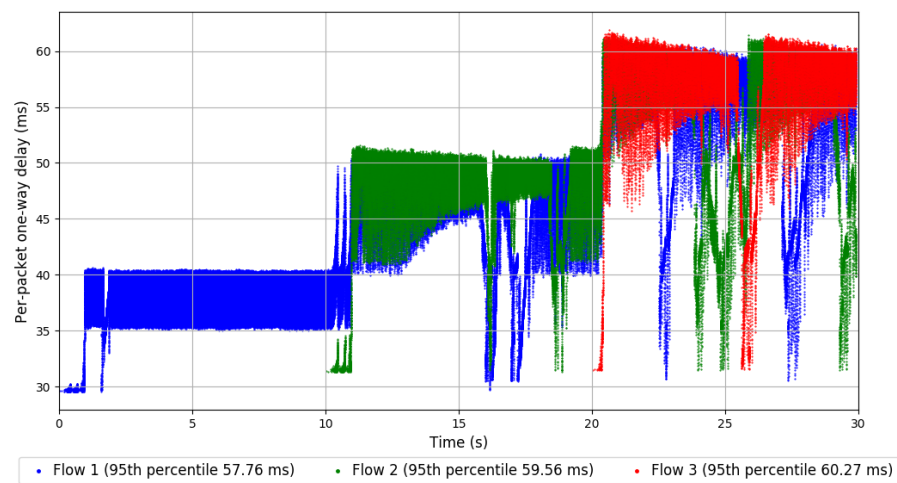
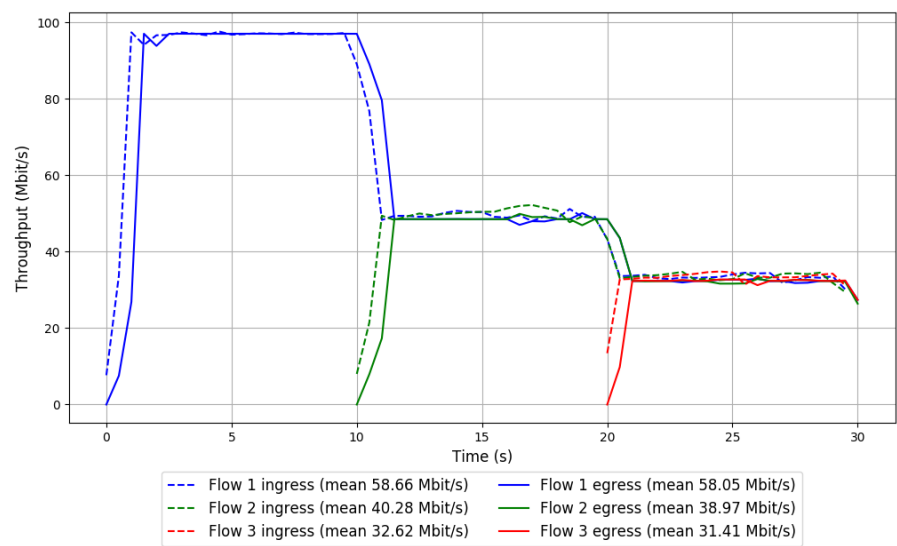


Run 7: Statistics of FillP

Start at: 2018-06-06 05:16:19
End at: 2018-06-06 05:16:49
Local clock offset: 1.605 ms
Remote clock offset: -1.711 ms

Below is generated by plot.py at 2018-06-06 06:34:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 59.176 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 57.760 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 59.558 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 60.268 ms
Loss rate: 4.42%

Run 7: Report of FillP — Data Link

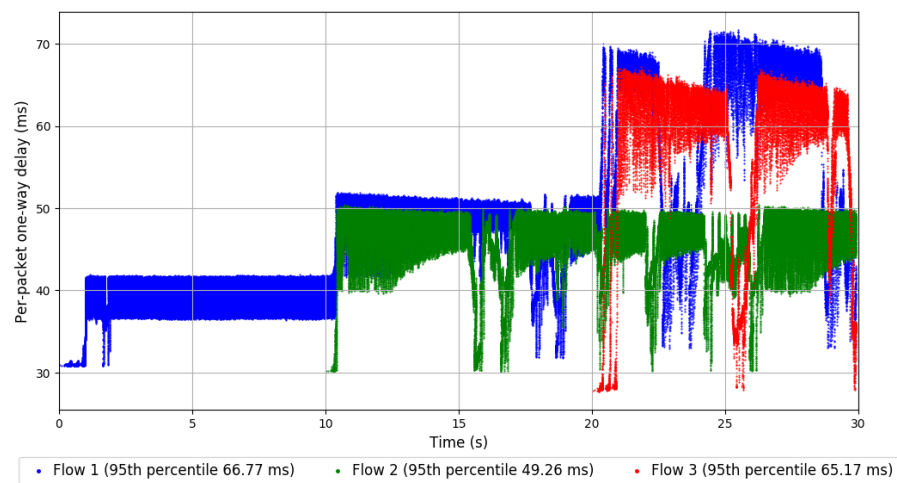
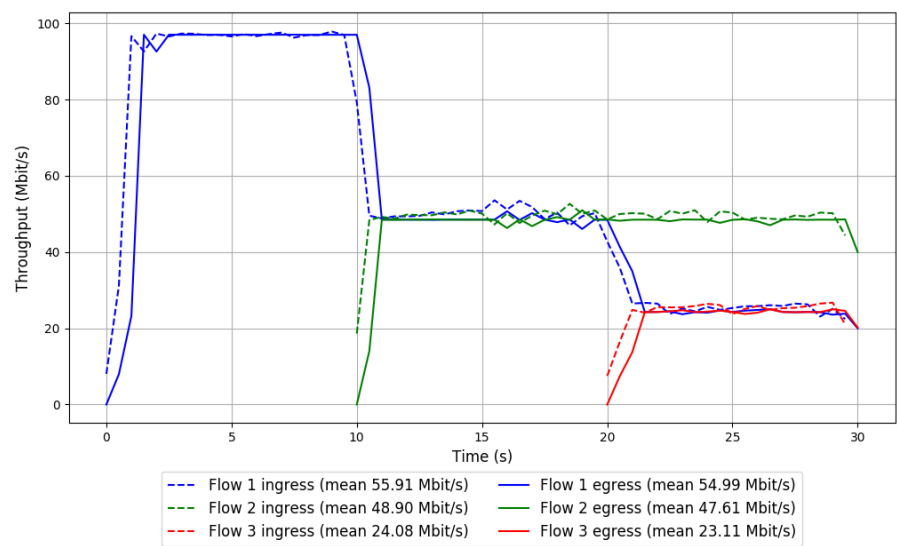


Run 8: Statistics of FillP

Start at: 2018-06-06 05:37:49
End at: 2018-06-06 05:38:19
Local clock offset: 2.021 ms
Remote clock offset: -1.735 ms

Below is generated by plot.py at 2018-06-06 06:34:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 64.816 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 66.774 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 47.61 Mbit/s
95th percentile per-packet one-way delay: 49.257 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 65.165 ms
Loss rate: 4.58%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-06 05:59:22

End at: 2018-06-06 05:59:52

Local clock offset: 1.514 ms

Remote clock offset: -1.41 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 64.021 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 49.116 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 63.053 ms

Loss rate: 3.68%

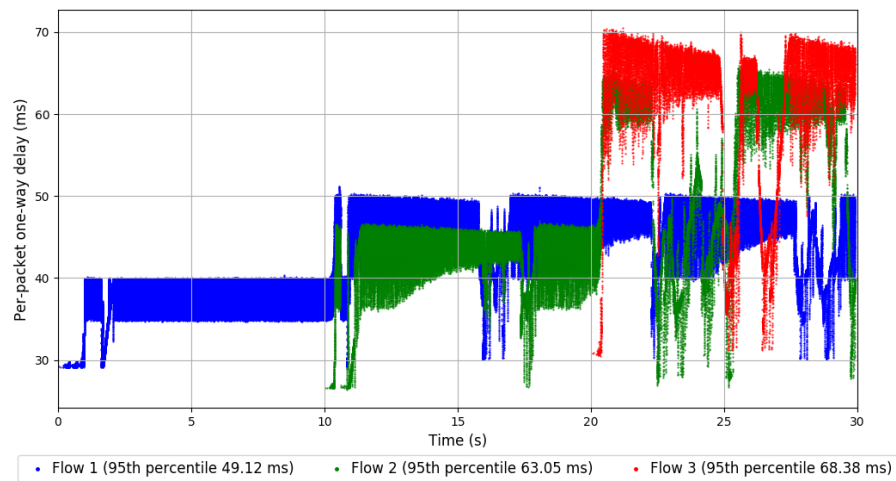
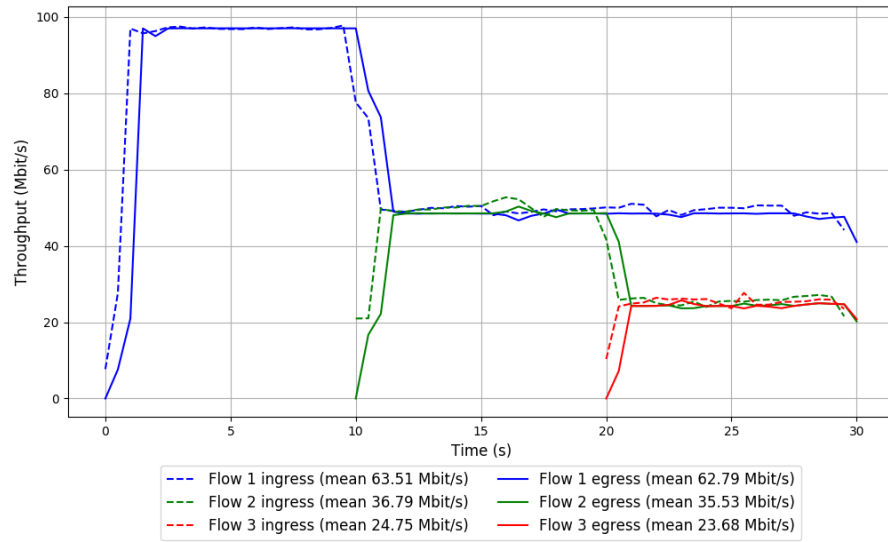
-- Flow 3:

Average throughput: 23.68 Mbit/s

95th percentile per-packet one-way delay: 68.382 ms

Loss rate: 4.97%

Run 9: Report of FillP — Data Link

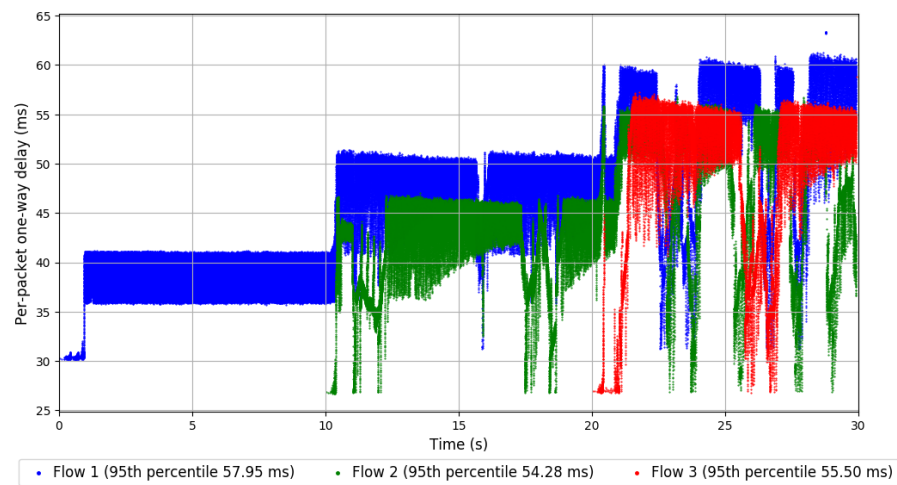
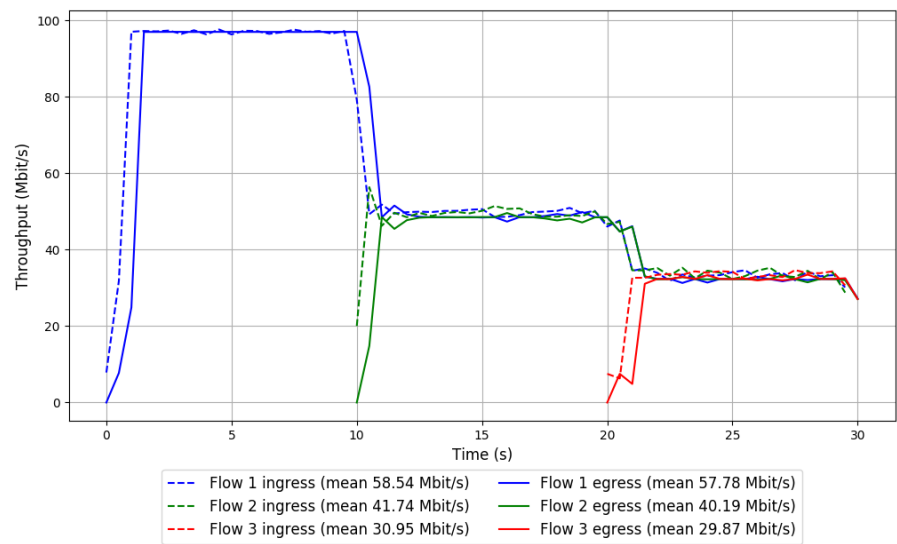


Run 10: Statistics of FillP

Start at: 2018-06-06 06:20:53
End at: 2018-06-06 06:21:23
Local clock offset: 1.389 ms
Remote clock offset: -0.871 ms

Below is generated by plot.py at 2018-06-06 06:35:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 56.381 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 57.951 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 54.281 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 55.503 ms
Loss rate: 4.08%

Run 10: Report of FillP — Data Link

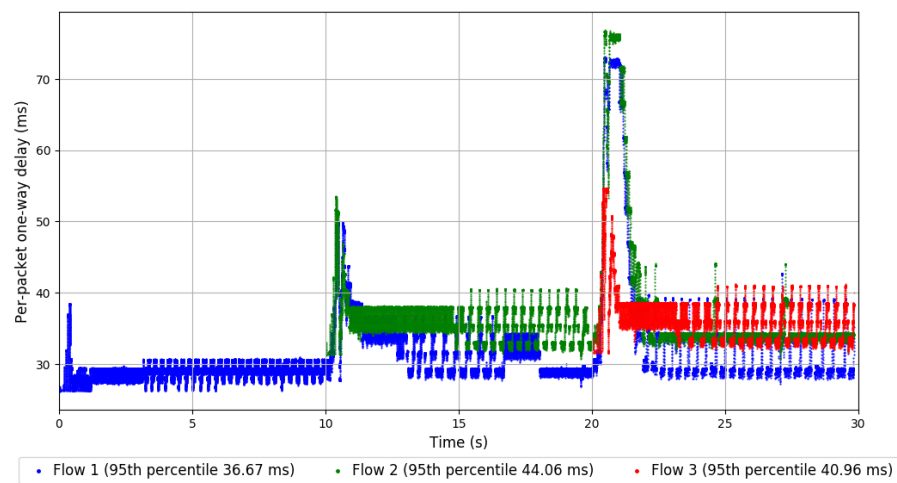
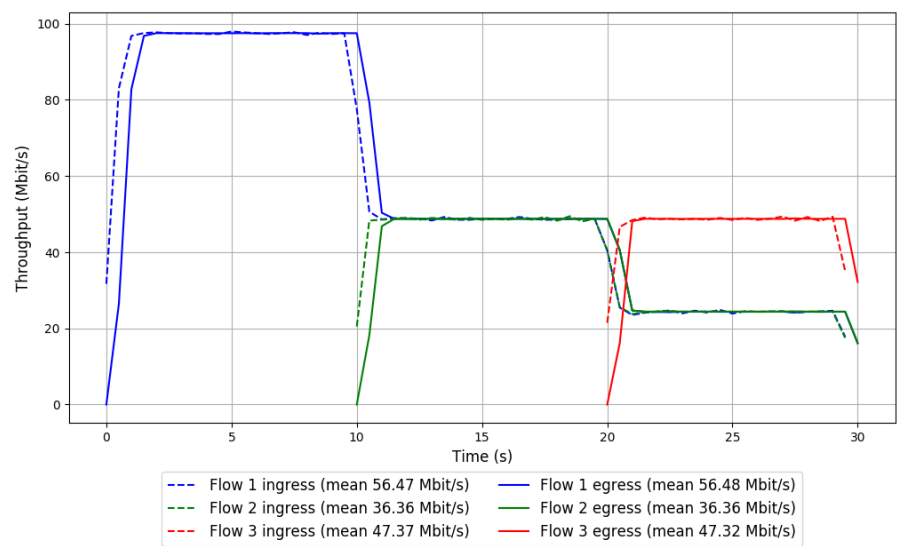


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 03:09:39
End at: 2018-06-06 03:10:09
Local clock offset: 0.643 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-06 06:35:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 40.012 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 36.673 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 44.062 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 40.959 ms
Loss rate: 0.72%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-06 03:31:12

End at: 2018-06-06 03:31:42

Local clock offset: 1.042 ms

Remote clock offset: 0.266 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 39.396 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 37.313 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 42.103 ms

Loss rate: 0.38%

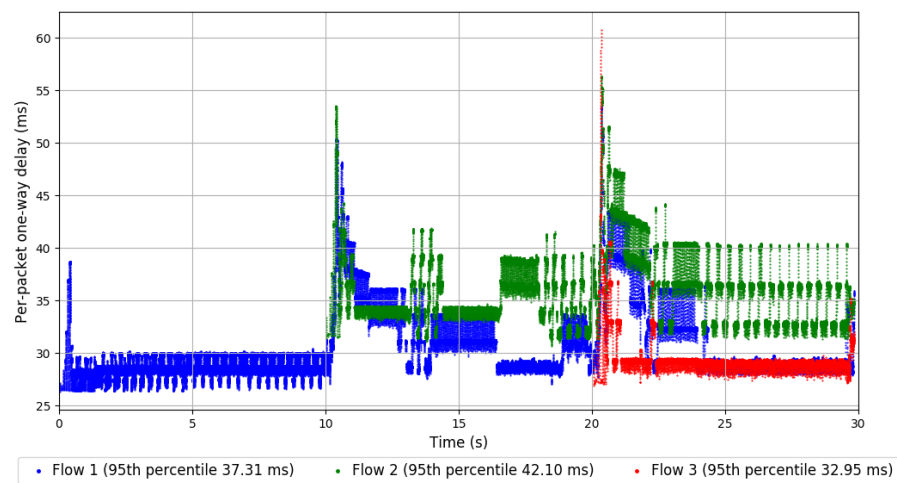
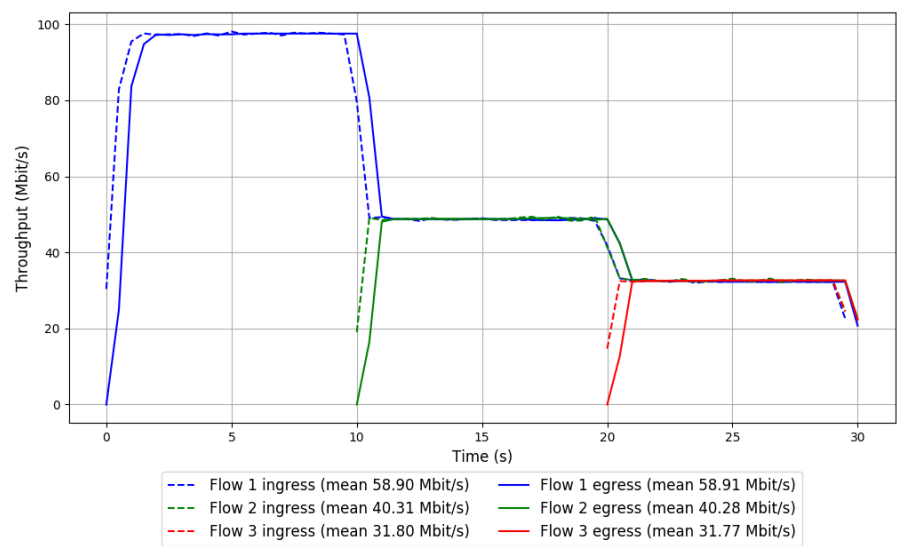
-- Flow 3:

Average throughput: 31.77 Mbit/s

95th percentile per-packet one-way delay: 32.951 ms

Loss rate: 0.65%

Run 2: Report of Indigo — Data Link

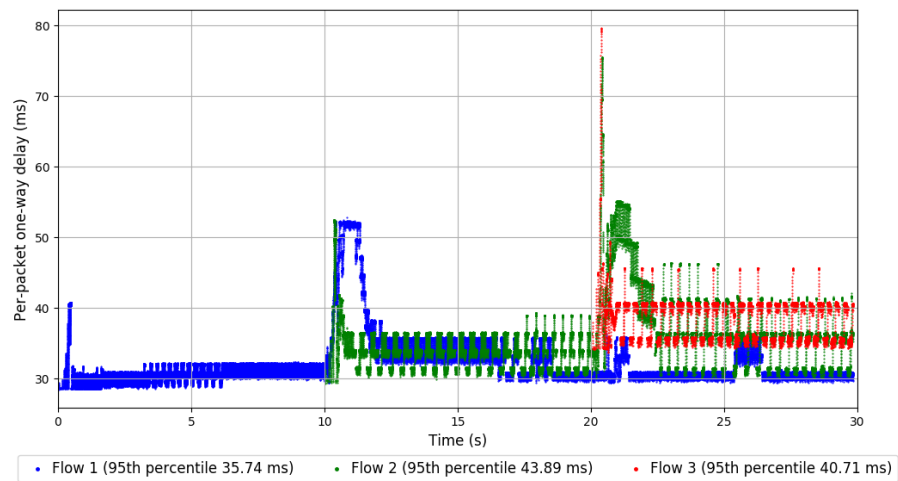
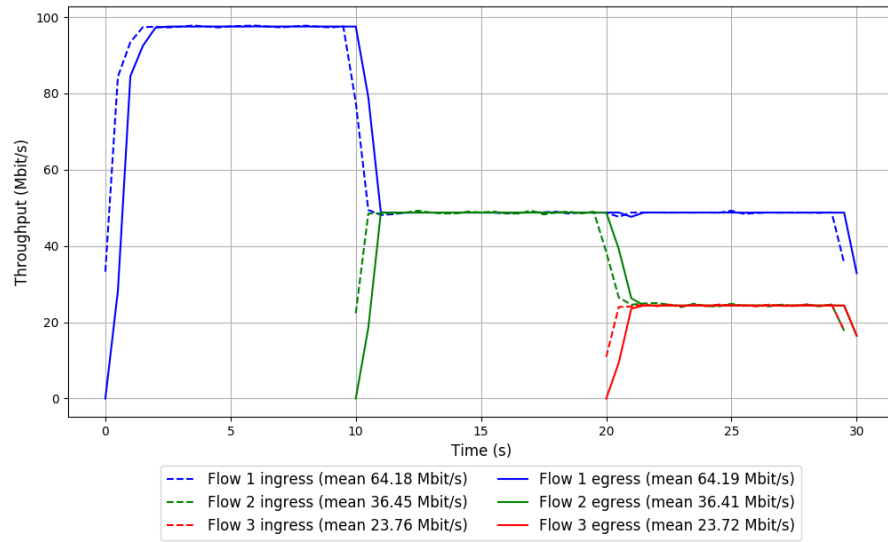


Run 3: Statistics of Indigo

Start at: 2018-06-06 03:52:47
End at: 2018-06-06 03:53:17
Local clock offset: 1.35 ms
Remote clock offset: -1.844 ms

Below is generated by plot.py at 2018-06-06 06:35:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 40.672 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 35.738 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 43.894 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 40.707 ms
Loss rate: 0.82%

Run 3: Report of Indigo — Data Link

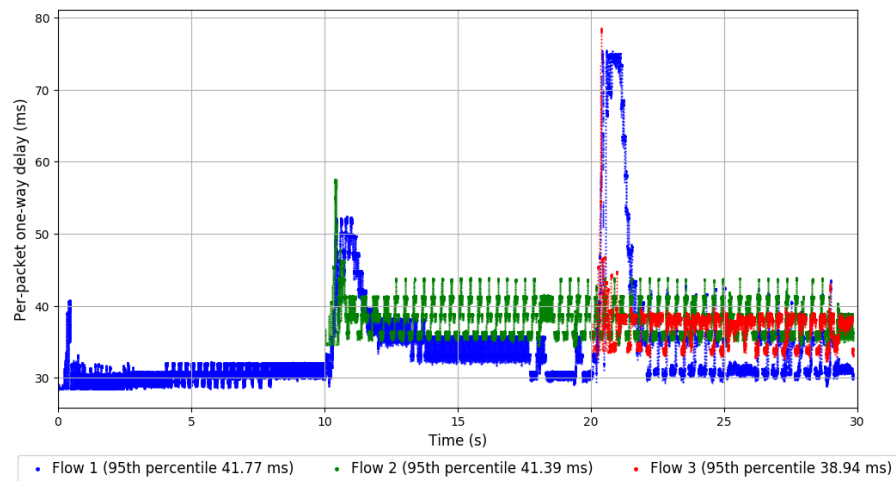
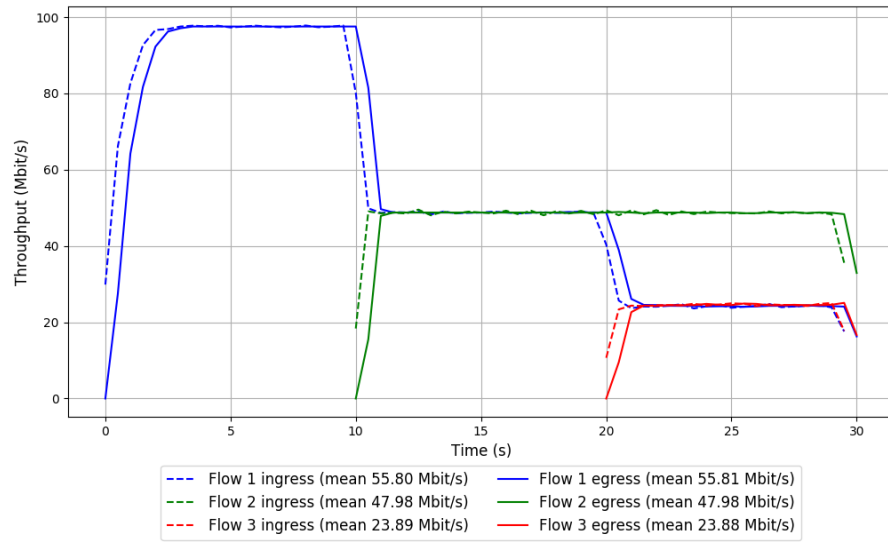


Run 4: Statistics of Indigo

Start at: 2018-06-06 04:14:31
End at: 2018-06-06 04:15:02
Local clock offset: 0.749 ms
Remote clock offset: -2.111 ms

Below is generated by plot.py at 2018-06-06 06:35:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 41.367 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 55.81 Mbit/s
95th percentile per-packet one-way delay: 41.767 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 41.391 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 38.940 ms
Loss rate: 0.63%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-06 04:36:00

End at: 2018-06-06 04:36:30

Local clock offset: 0.434 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-06-06 06:35:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 43.035 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 43.856 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 43.391 ms

Loss rate: 0.35%

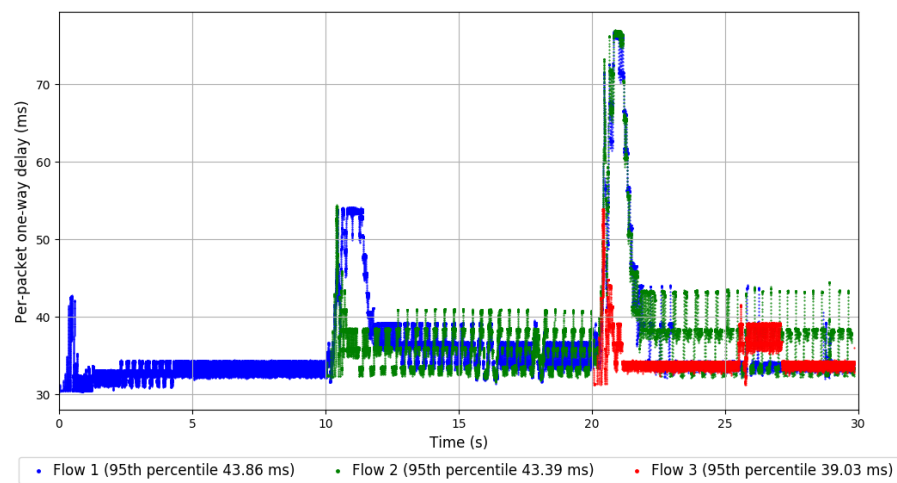
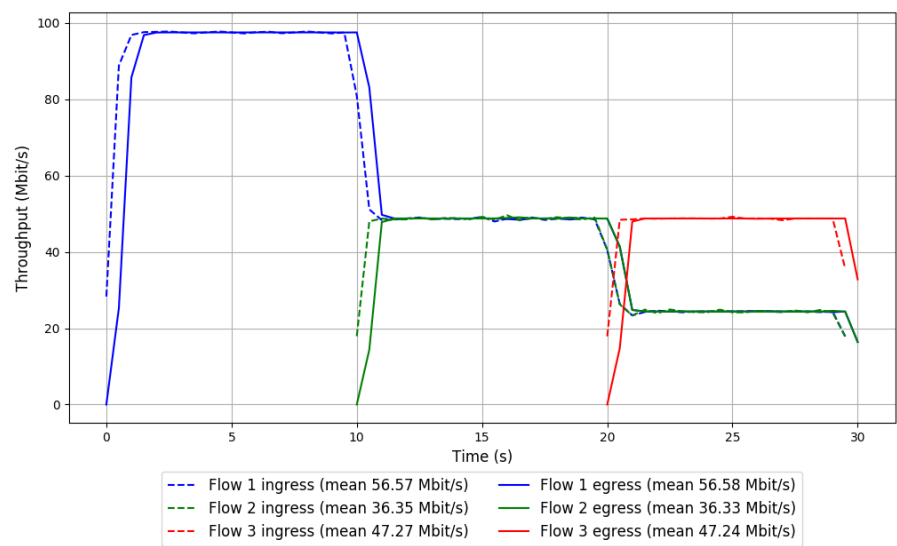
-- Flow 3:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 39.034 ms

Loss rate: 0.67%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-06 04:57:30

End at: 2018-06-06 04:58:00

Local clock offset: 0.349 ms

Remote clock offset: -1.26 ms

Below is generated by plot.py at 2018-06-06 06:35:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 39.539 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 36.121 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 49.710 ms

Loss rate: 0.36%

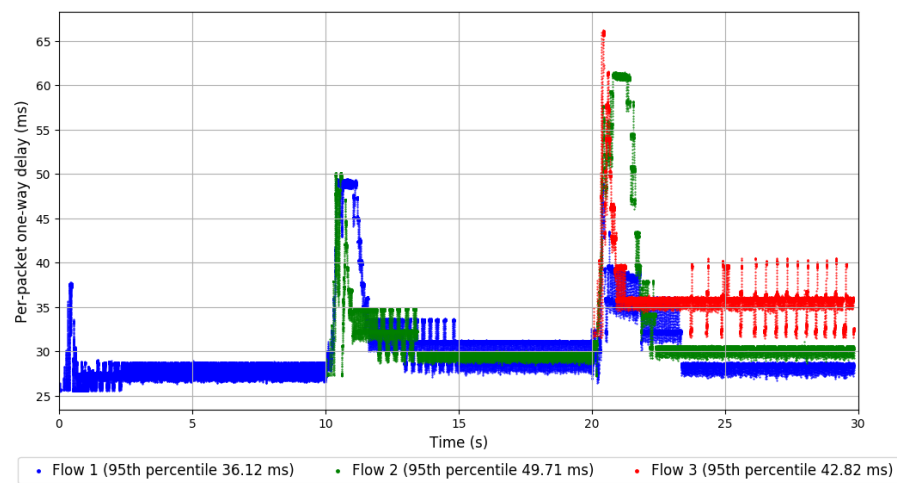
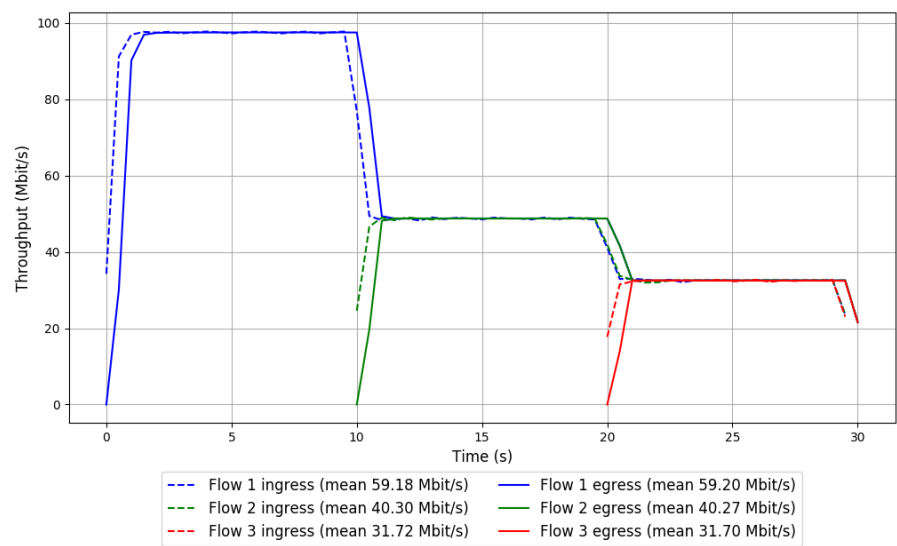
-- Flow 3:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 42.822 ms

Loss rate: 0.67%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-06 05:19:01

End at: 2018-06-06 05:19:31

Local clock offset: 1.843 ms

Remote clock offset: -1.76 ms

Below is generated by plot.py at 2018-06-06 06:36:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 43.492 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 39.240 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 46.267 ms

Loss rate: 0.43%

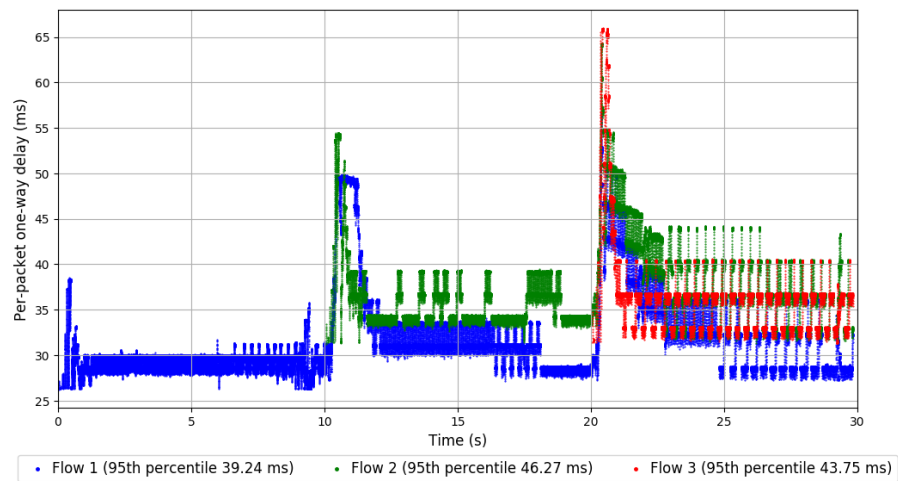
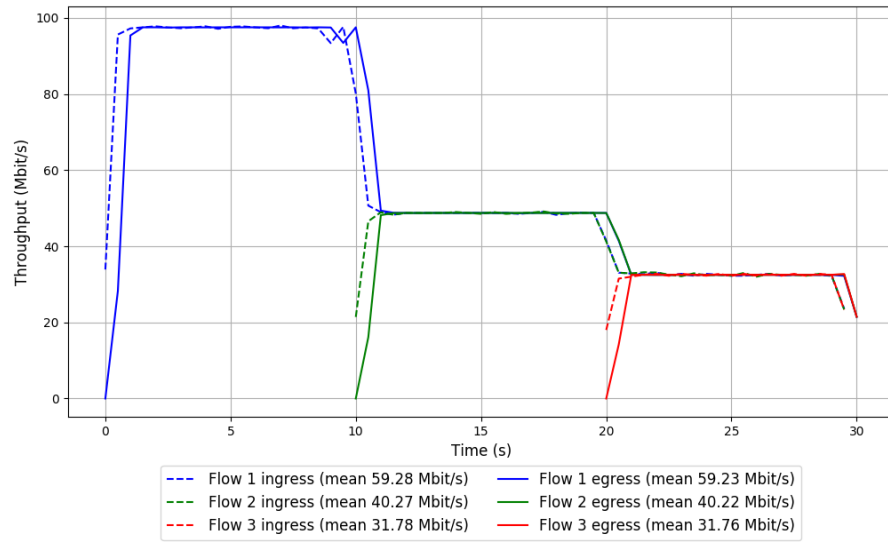
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 43.753 ms

Loss rate: 0.68%

Run 7: Report of Indigo — Data Link

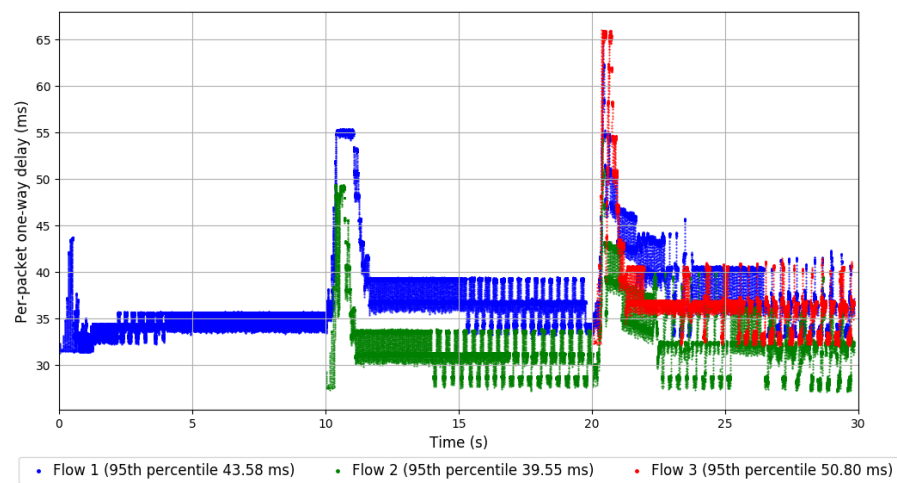
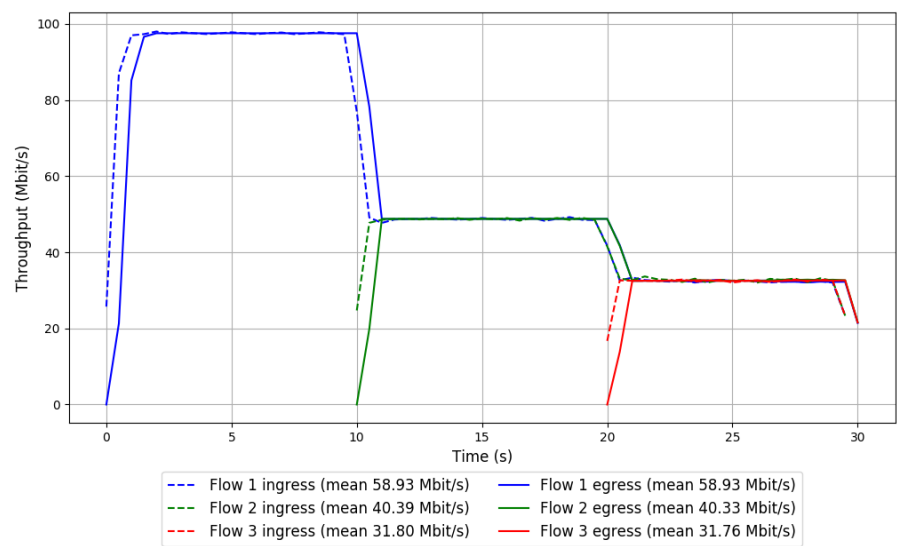


Run 8: Statistics of Indigo

Start at: 2018-06-06 05:40:33
End at: 2018-06-06 05:41:03
Local clock offset: 1.869 ms
Remote clock offset: -2.299 ms

Below is generated by plot.py at 2018-06-06 06:36:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 43.149 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 43.580 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 39.547 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.74%

Run 8: Report of Indigo — Data Link

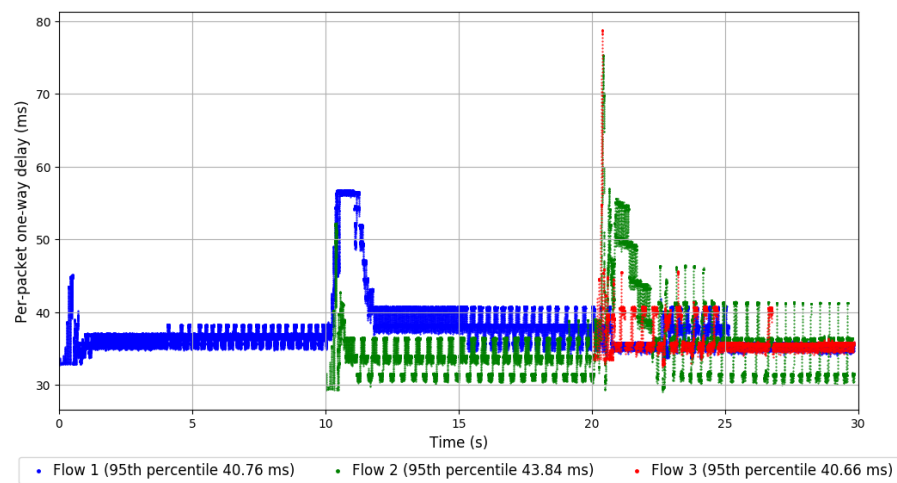
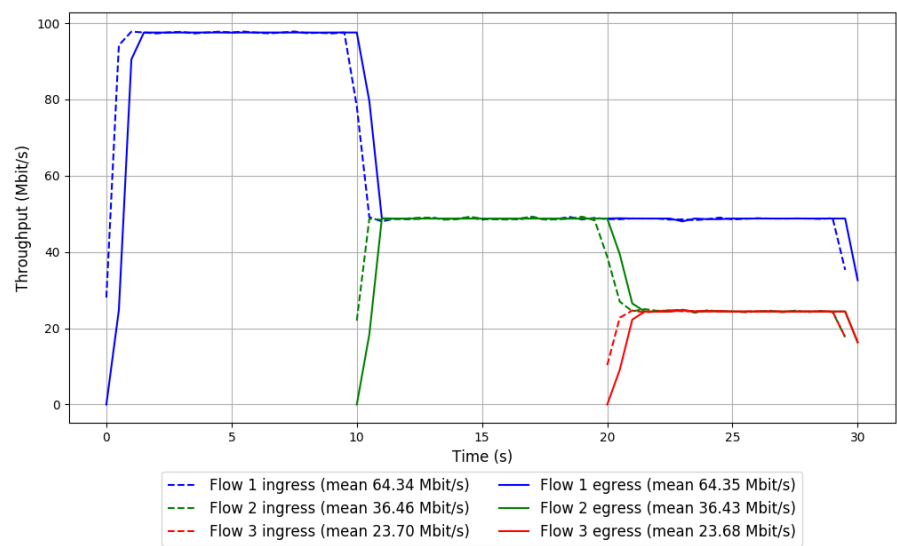


Run 9: Statistics of Indigo

Start at: 2018-06-06 06:02:06
End at: 2018-06-06 06:02:36
Local clock offset: 1.615 ms
Remote clock offset: -3.915 ms

Below is generated by plot.py at 2018-06-06 06:36:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 41.198 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 40.759 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 36.43 Mbit/s
95th percentile per-packet one-way delay: 43.844 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 40.658 ms
Loss rate: 0.71%

Run 9: Report of Indigo — Data Link

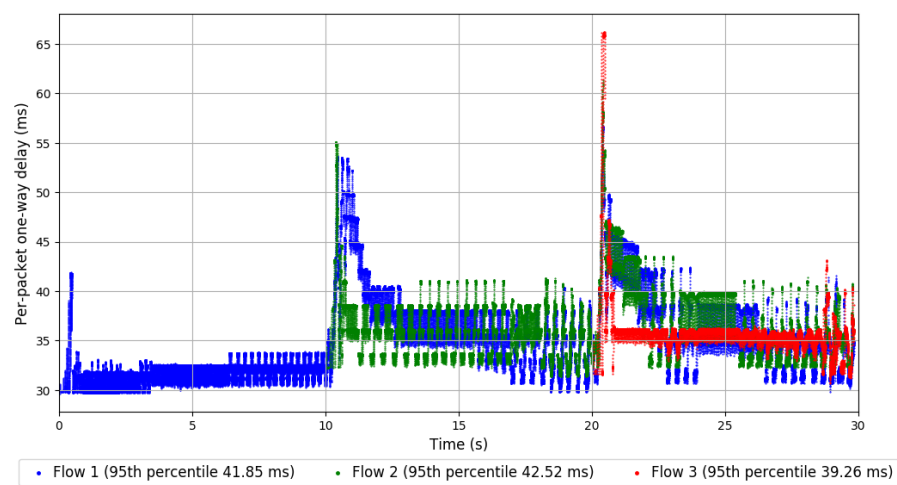
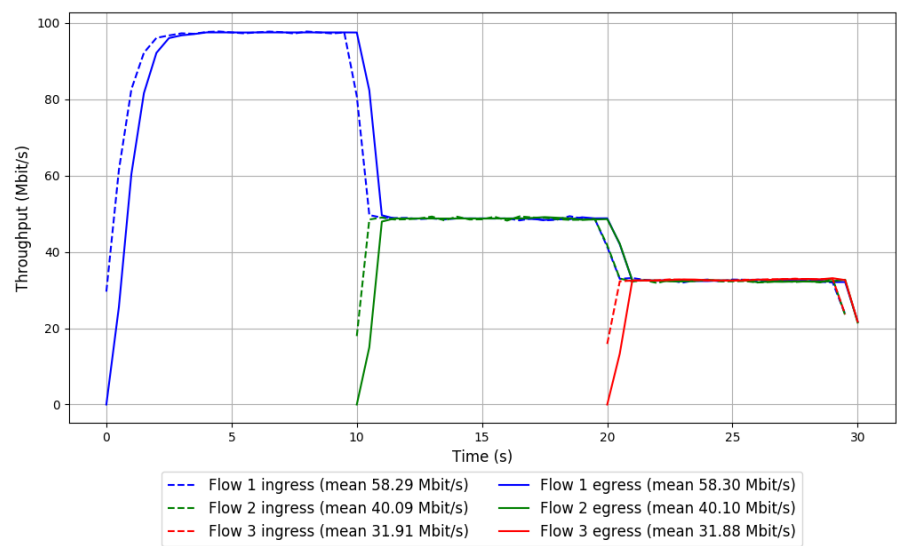


Run 10: Statistics of Indigo

Start at: 2018-06-06 06:23:37
End at: 2018-06-06 06:24:07
Local clock offset: 1.286 ms
Remote clock offset: -0.933 ms

Below is generated by plot.py at 2018-06-06 06:36:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 41.816 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 41.847 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 42.518 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 39.263 ms
Loss rate: 0.68%

Run 10: Report of Indigo — Data Link

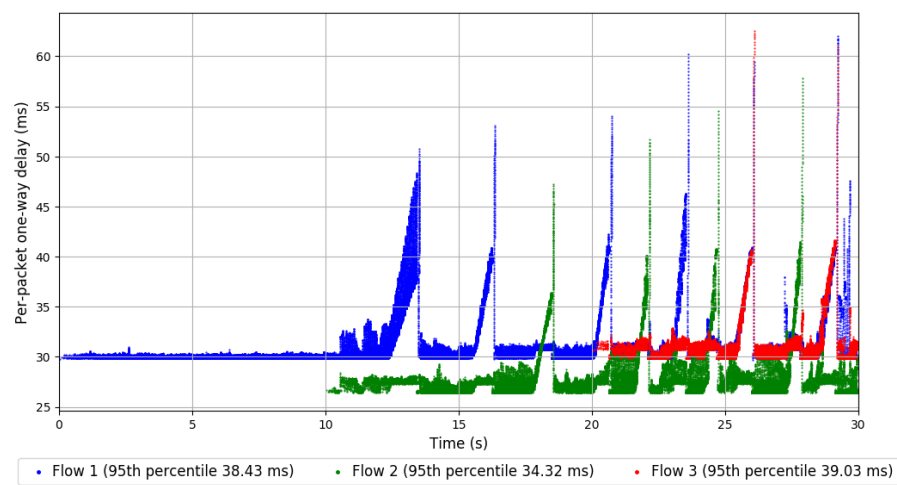
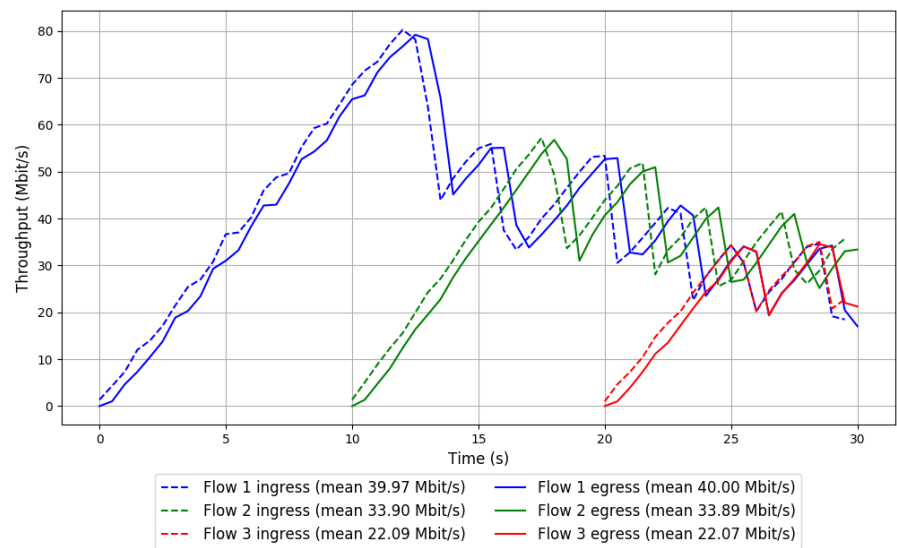


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 02:56:01
End at: 2018-06-06 02:56:31
Local clock offset: 0.594 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-06-06 06:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 37.551 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 38.433 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 34.319 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 22.07 Mbit/s
95th percentile per-packet one-way delay: 39.029 ms
Loss rate: 0.70%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-06 03:17:33

End at: 2018-06-06 03:18:03

Local clock offset: 0.772 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-06-06 06:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 39.397 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 39.463 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 35.52 Mbit/s

95th percentile per-packet one-way delay: 39.032 ms

Loss rate: 0.33%

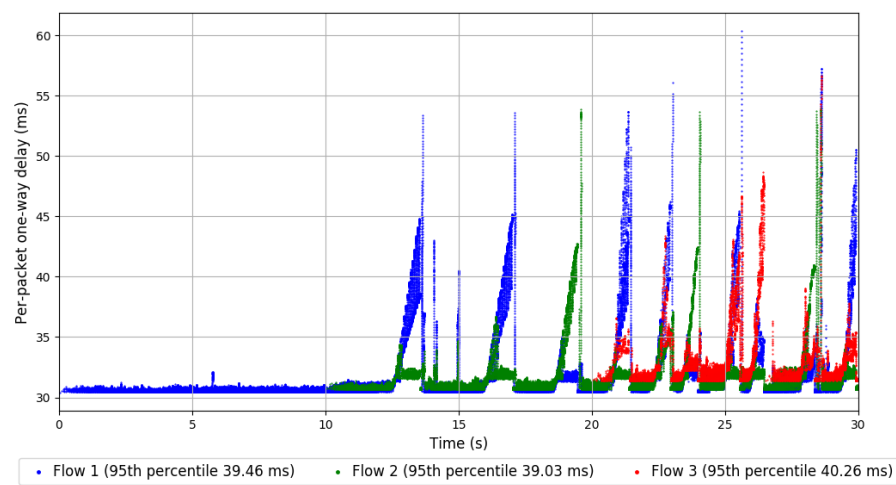
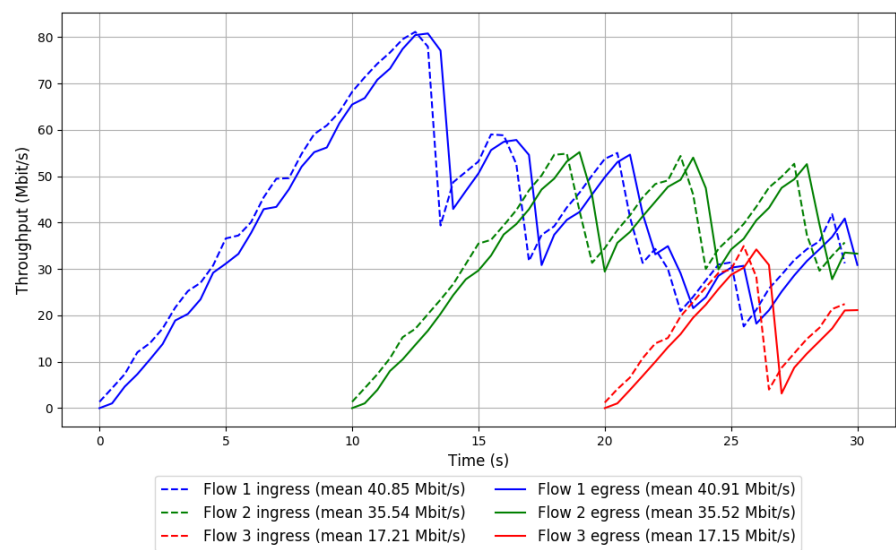
-- Flow 3:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 40.255 ms

Loss rate: 0.96%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-06 03:39:07

End at: 2018-06-06 03:39:37

Local clock offset: 1.172 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-06-06 06:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 35.942 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 42.41 Mbit/s

95th percentile per-packet one-way delay: 32.548 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 31.01 Mbit/s

95th percentile per-packet one-way delay: 40.087 ms

Loss rate: 0.28%

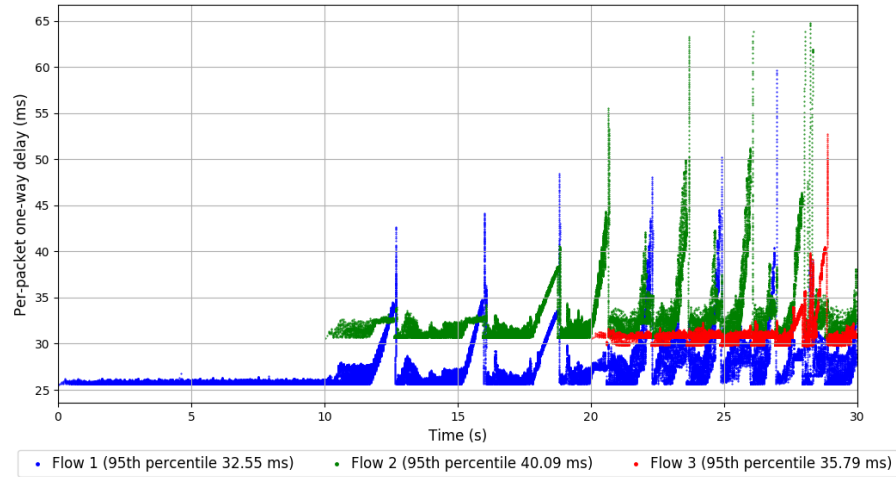
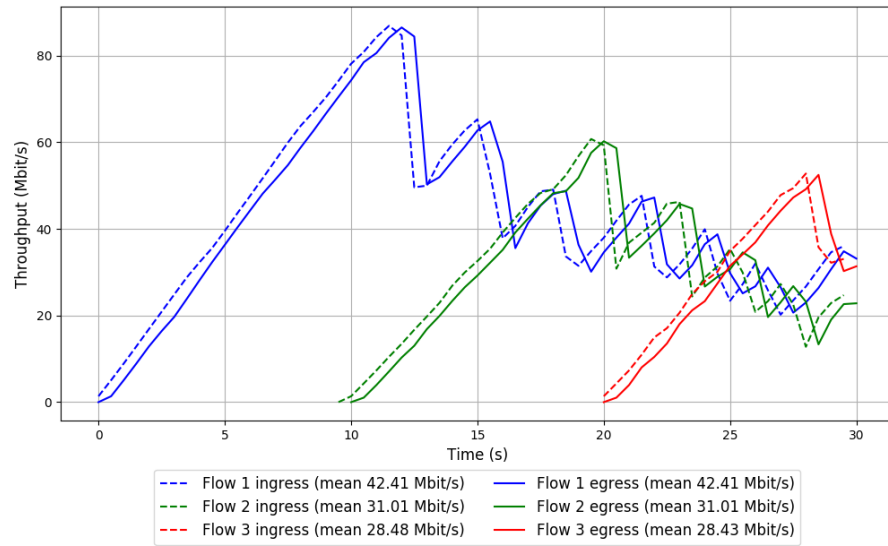
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 35.791 ms

Loss rate: 0.76%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-06 04:00:41

End at: 2018-06-06 04:01:11

Local clock offset: 1.452 ms

Remote clock offset: 0.358 ms

Below is generated by plot.py at 2018-06-06 06:36:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.62 Mbit/s

95th percentile per-packet one-way delay: 37.470 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 33.91 Mbit/s

95th percentile per-packet one-way delay: 39.911 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 34.001 ms

Loss rate: 0.36%

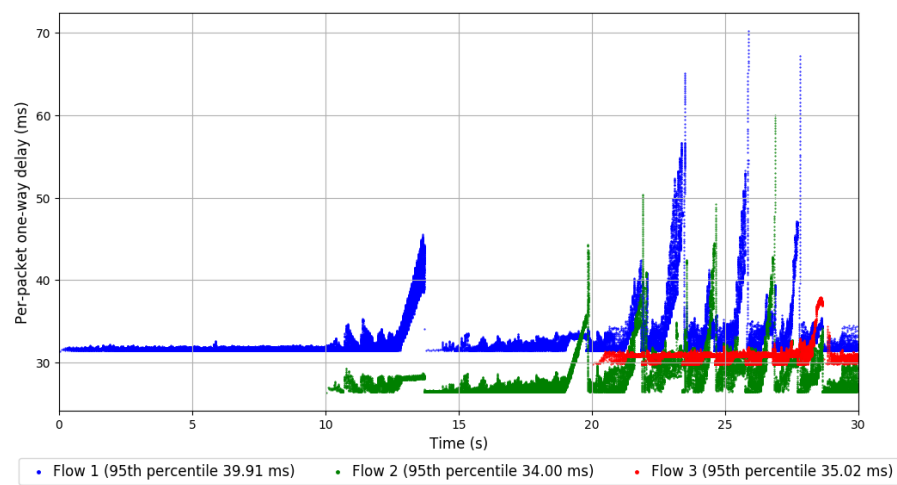
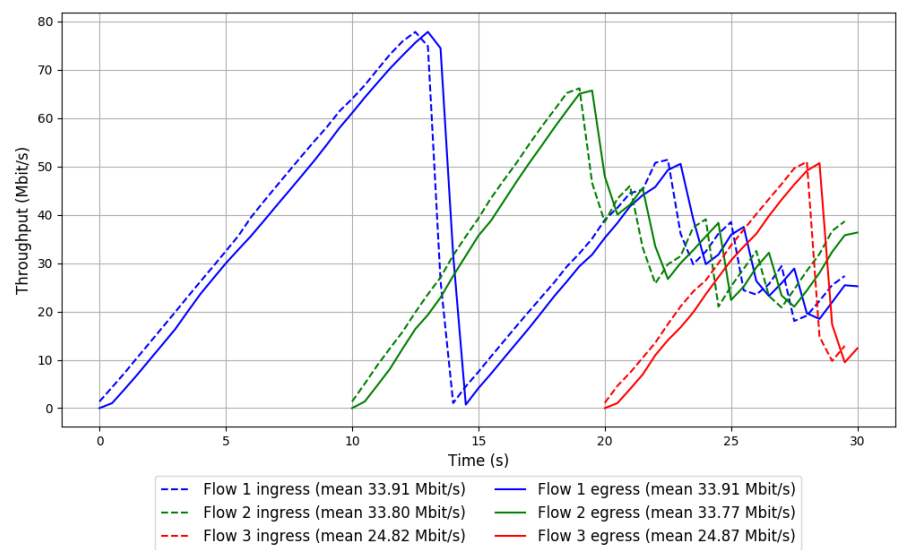
-- Flow 3:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 35.016 ms

Loss rate: 0.38%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-06 04:22:25

End at: 2018-06-06 04:22:55

Local clock offset: 0.577 ms

Remote clock offset: 0.472 ms

Below is generated by plot.py at 2018-06-06 06:37:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 36.150 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 46.27 Mbit/s

95th percentile per-packet one-way delay: 32.411 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 42.813 ms

Loss rate: 0.28%

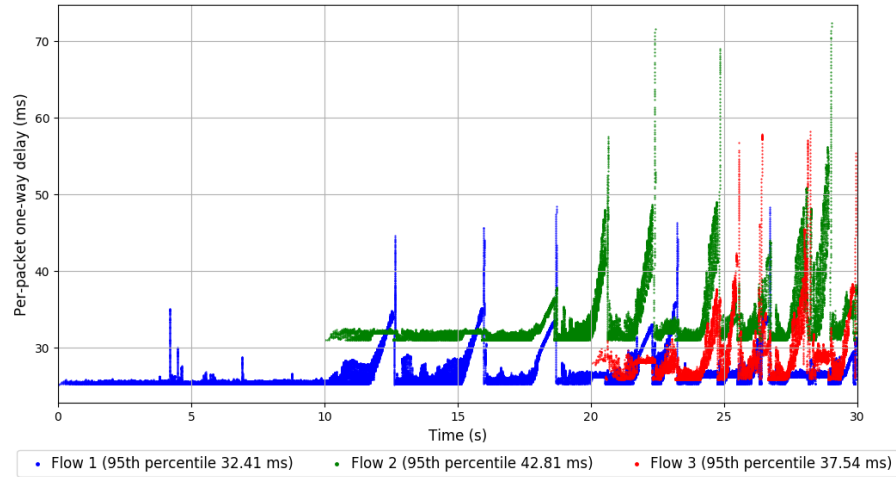
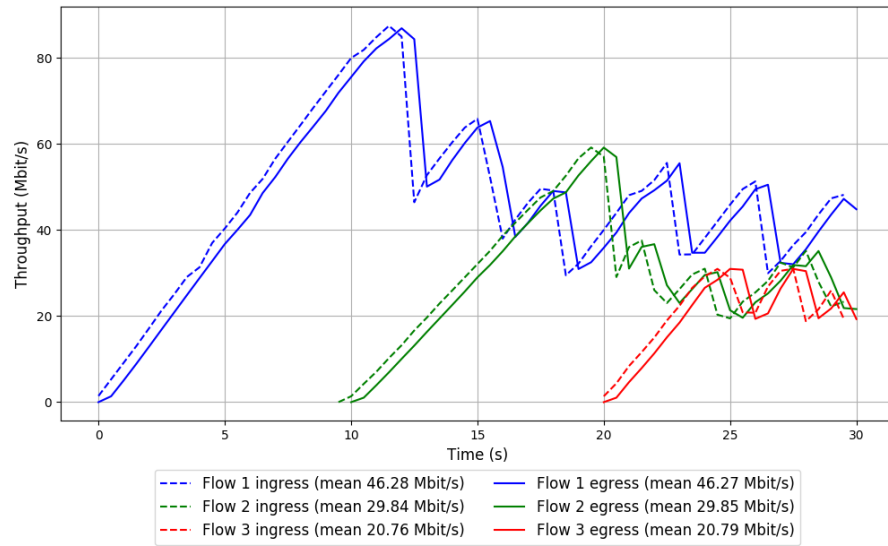
-- Flow 3:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 37.539 ms

Loss rate: 0.45%

Run 5: Report of LEDBAT — Data Link

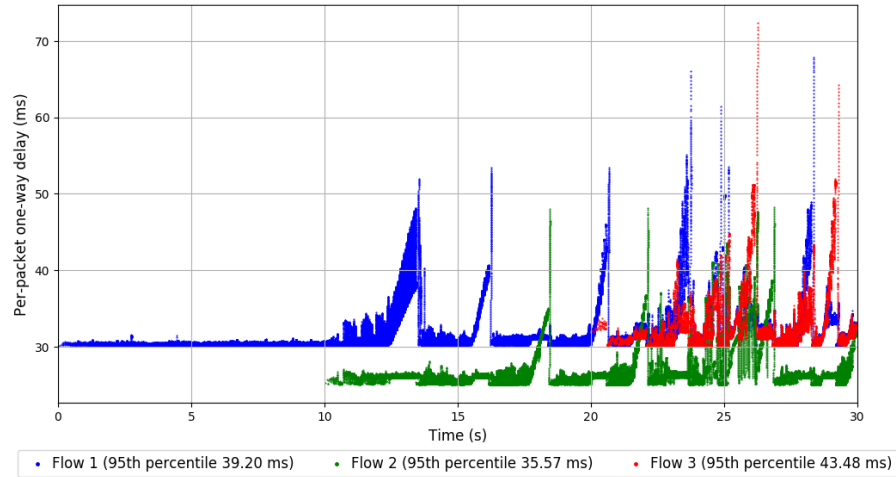
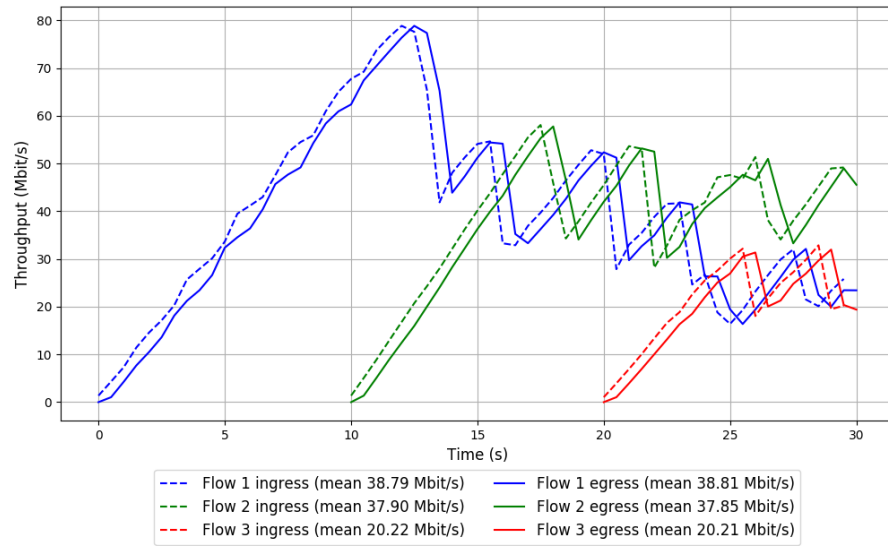


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 04:43:54
End at: 2018-06-06 04:44:24
Local clock offset: 0.484 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-06-06 06:37:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 38.297 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 39.196 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 35.568 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 43.485 ms
Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link

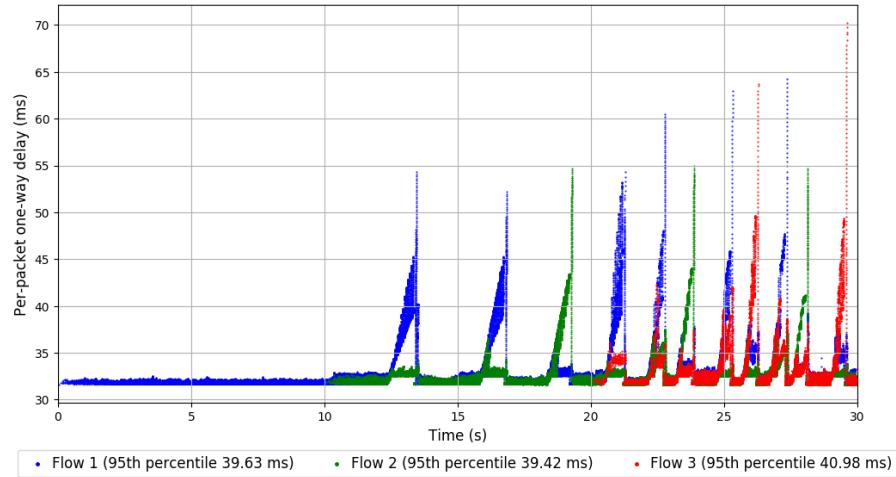
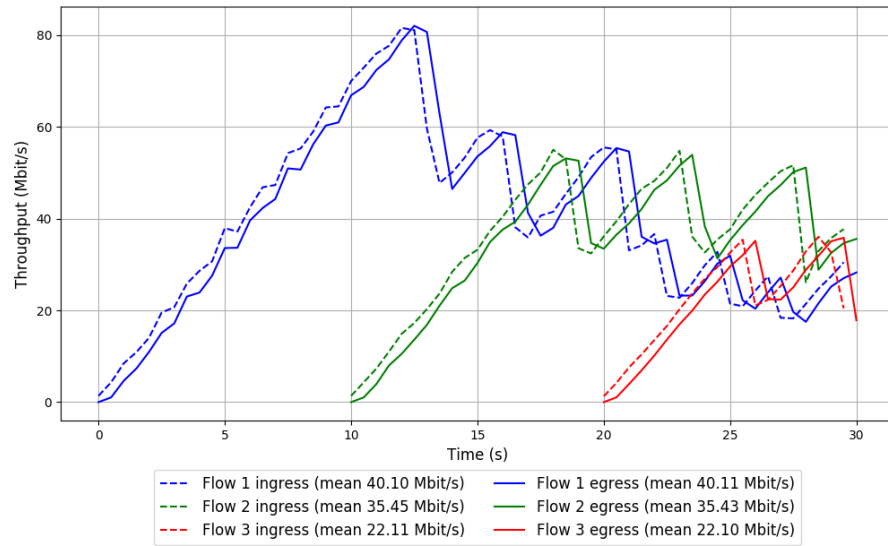


Run 7: Statistics of LEDBAT

Start at: 2018-06-06 05:05:22
End at: 2018-06-06 05:05:52
Local clock offset: 0.552 ms
Remote clock offset: -3.361 ms

Below is generated by plot.py at 2018-06-06 06:37:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.01 Mbit/s
95th percentile per-packet one-way delay: 39.733 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 39.634 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 39.425 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 40.982 ms
Loss rate: 0.64%

Run 7: Report of LEDBAT — Data Link

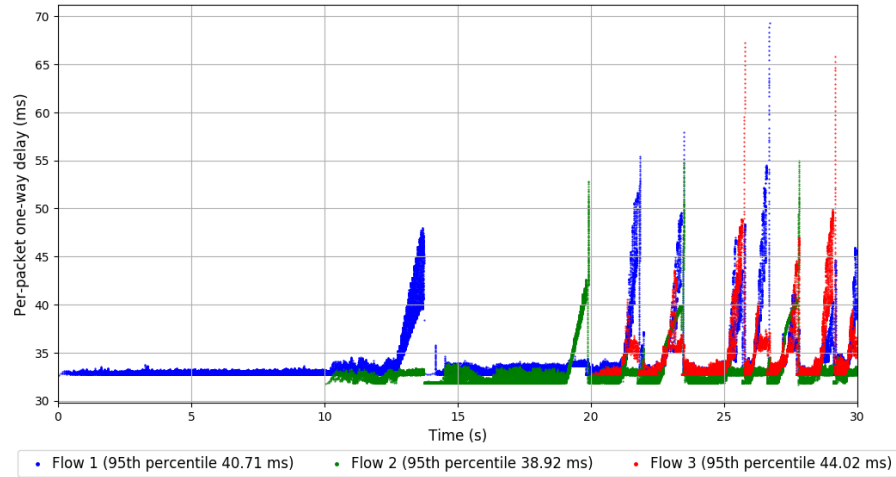
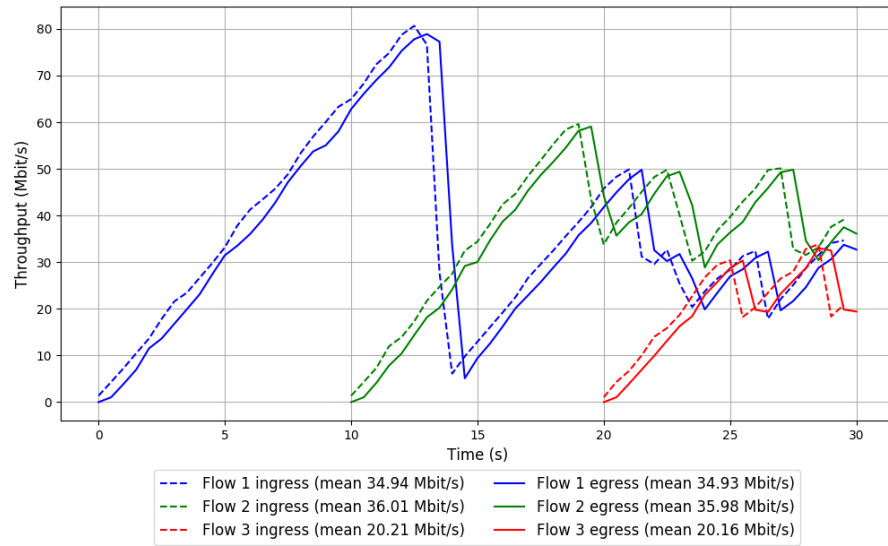


Run 8: Statistics of LEDBAT

Start at: 2018-06-06 05:26:55
End at: 2018-06-06 05:27:25
Local clock offset: 2.14 ms
Remote clock offset: -4.024 ms

Below is generated by plot.py at 2018-06-06 06:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.55 Mbit/s
95th percentile per-packet one-way delay: 39.955 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 40.714 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 38.919 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 44.022 ms
Loss rate: 0.73%

Run 8: Report of LEDBAT — Data Link

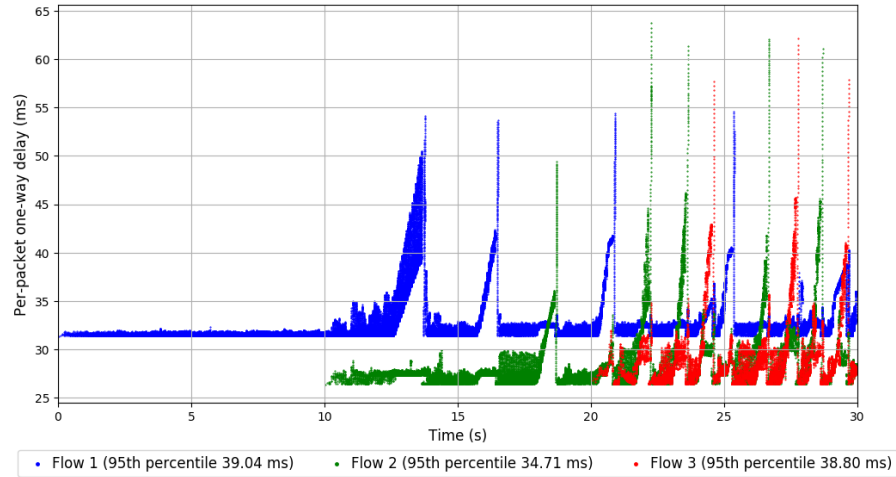
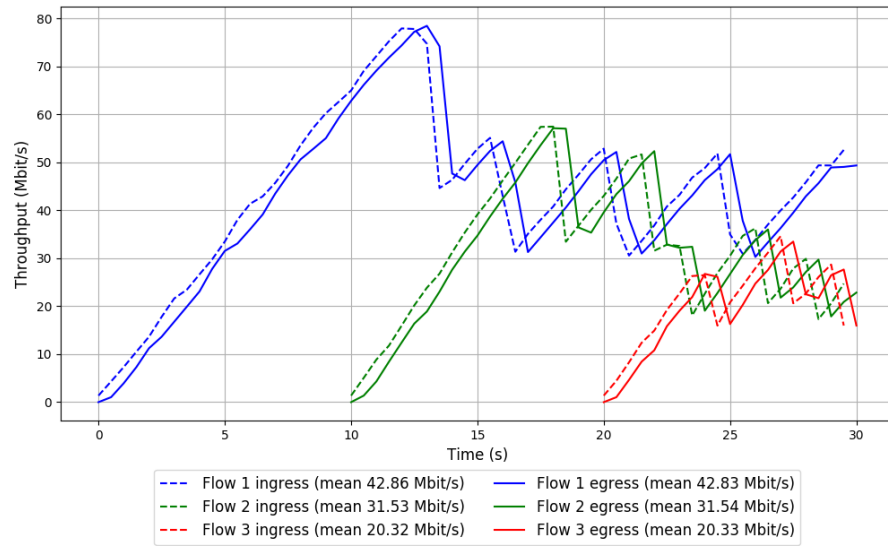


Run 9: Statistics of LEDBAT

Start at: 2018-06-06 05:48:29
End at: 2018-06-06 05:48:59
Local clock offset: 1.67 ms
Remote clock offset: -2.055 ms

Below is generated by plot.py at 2018-06-06 06:37:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 38.240 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 42.83 Mbit/s
95th percentile per-packet one-way delay: 39.040 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 34.710 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 38.801 ms
Loss rate: 0.54%

Run 9: Report of LEDBAT — Data Link

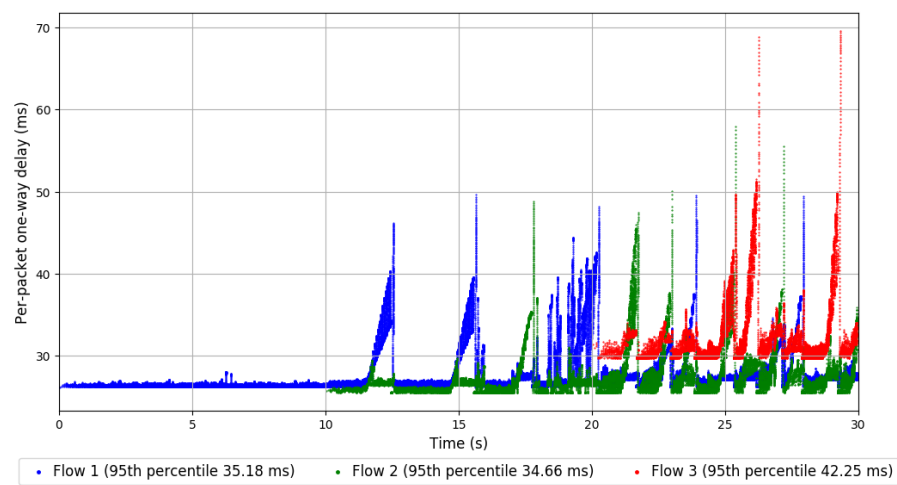
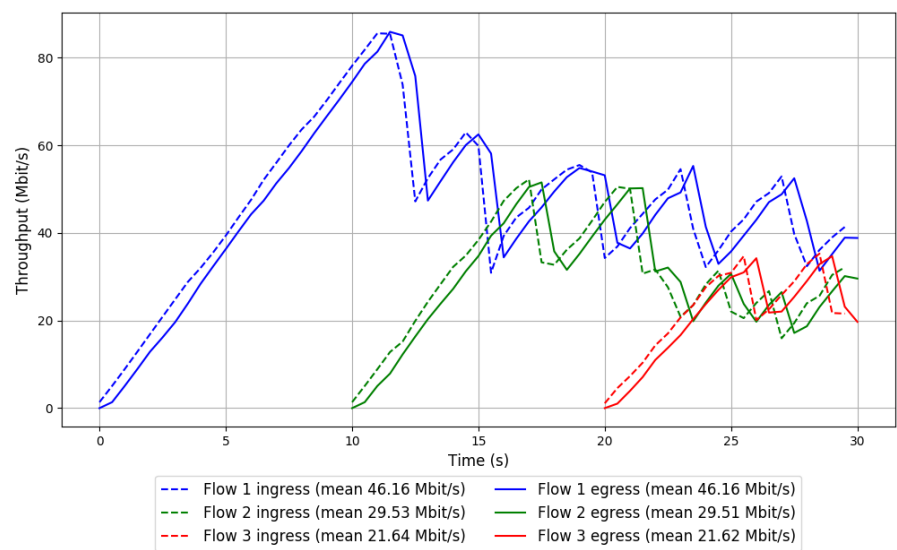


Run 10: Statistics of LEDBAT

Start at: 2018-06-06 06:10:00
End at: 2018-06-06 06:10:30
Local clock offset: 1.37 ms
Remote clock offset: -1.735 ms

Below is generated by plot.py at 2018-06-06 06:37:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 35.879 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 46.16 Mbit/s
95th percentile per-packet one-way delay: 35.181 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 34.657 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 42.248 ms
Loss rate: 0.67%

Run 10: Report of LEDBAT — Data Link

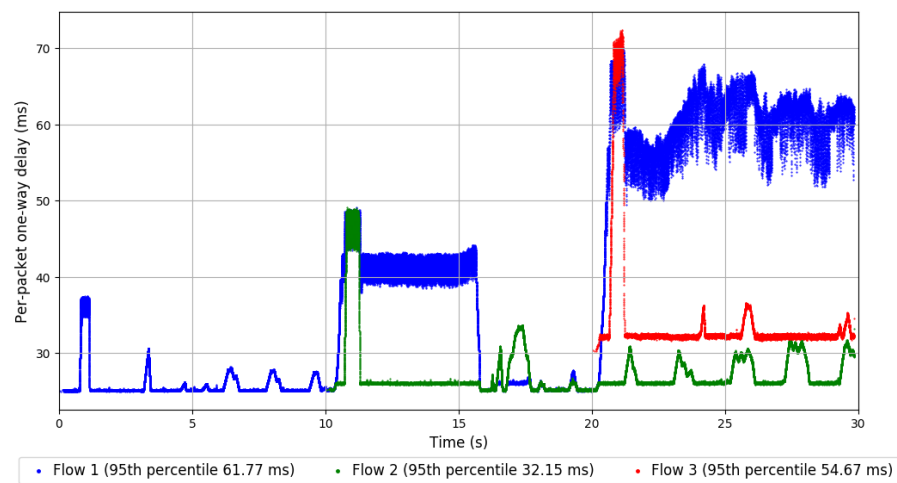
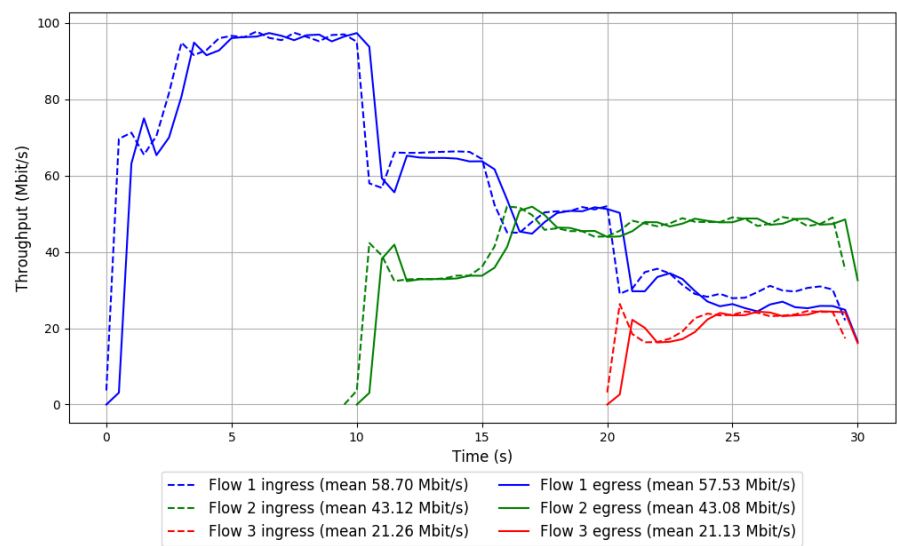


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 02:58:45
End at: 2018-06-06 02:59:15
Local clock offset: 0.492 ms
Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2018-06-06 06:37:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 60.135 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 32.152 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 54.668 ms
Loss rate: 1.16%
```


Run 1: Report of PCC-Allegro — Data Link

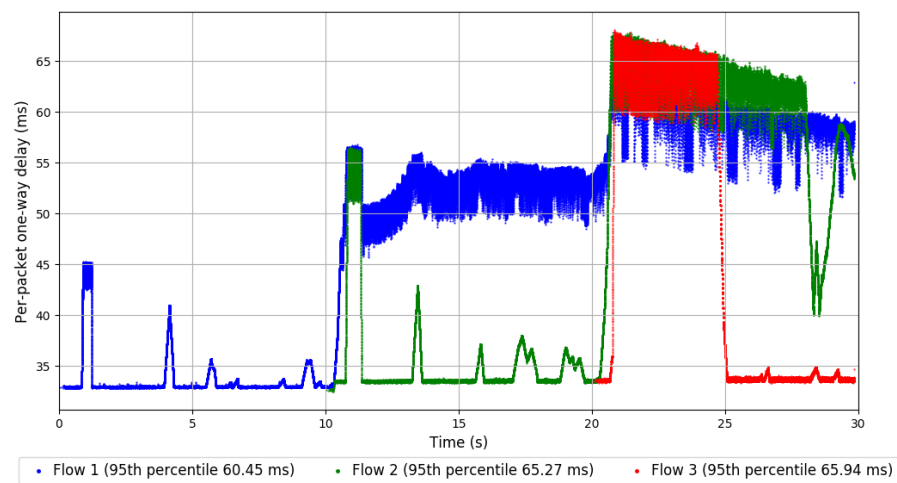
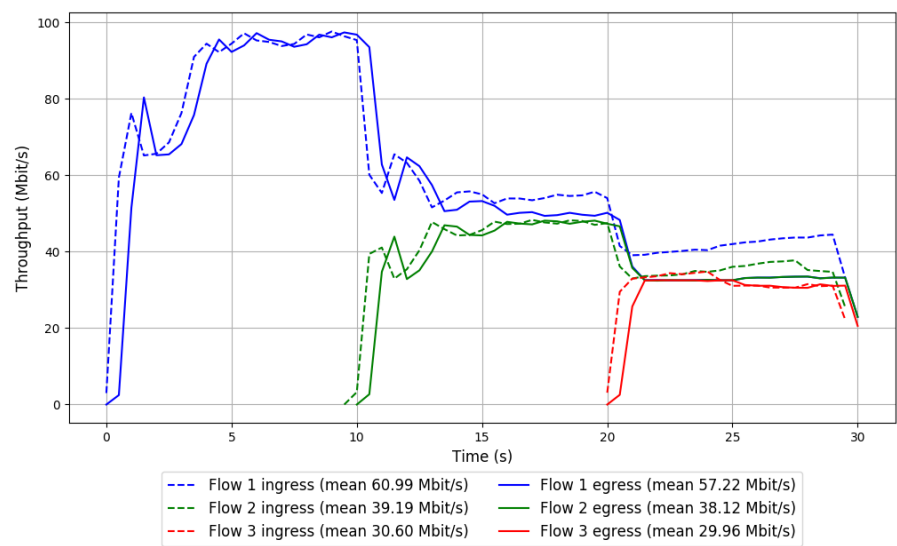


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 03:20:17
End at: 2018-06-06 03:20:47
Local clock offset: 0.884 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2018-06-06 06:37:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 64.091 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 60.448 ms
Loss rate: 6.39%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 65.271 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 65.937 ms
Loss rate: 2.67%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 03:41:52

End at: 2018-06-06 03:42:22

Local clock offset: 1.198 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-06-06 06:38:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 60.181 ms

Loss rate: 5.38%

-- Flow 1:

Average throughput: 57.05 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 6.53%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 62.436 ms

Loss rate: 3.87%

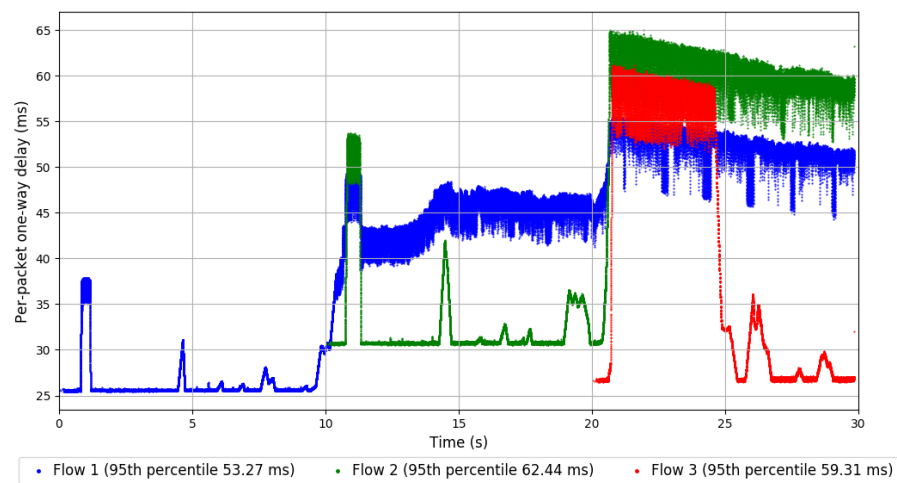
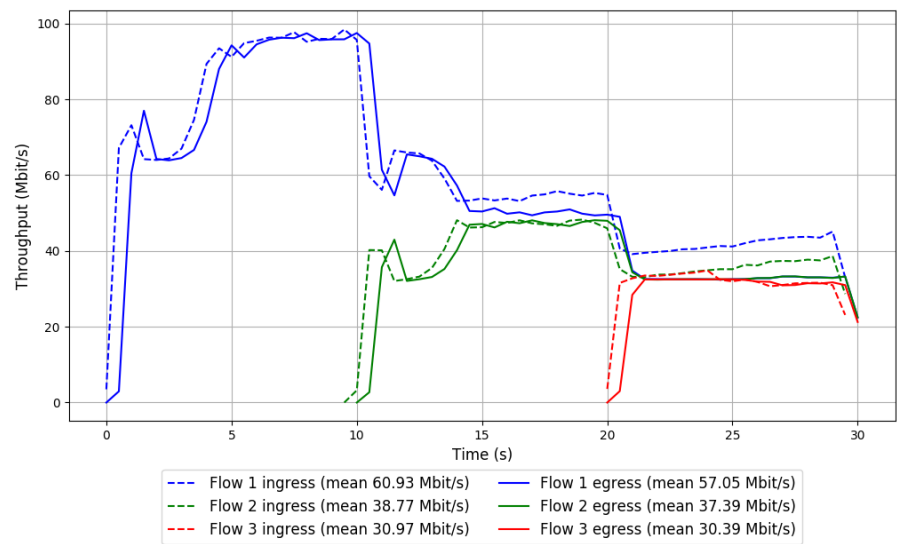
-- Flow 3:

Average throughput: 30.39 Mbit/s

95th percentile per-packet one-way delay: 59.311 ms

Loss rate: 2.37%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 04:03:39

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

Local clock offset: 1.517 ms

Remote clock offset: 0.245 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 61.051 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 51.817 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 64.991 ms

Loss rate: 3.88%

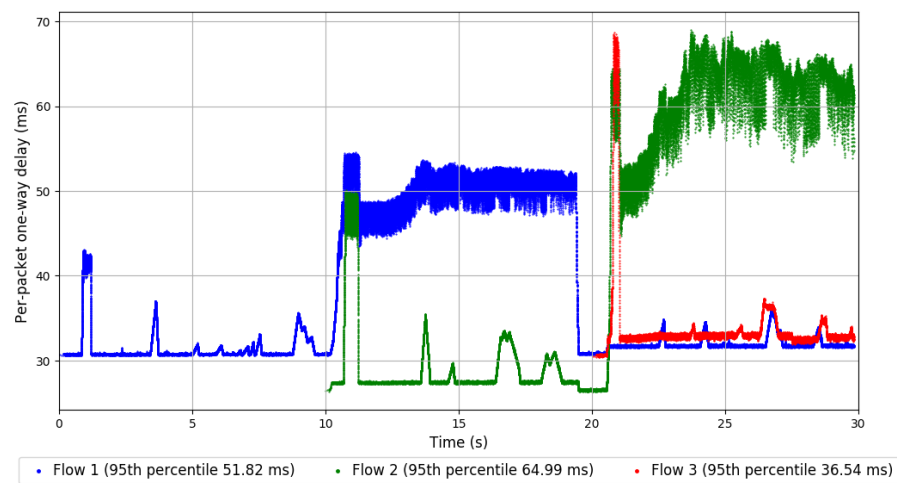
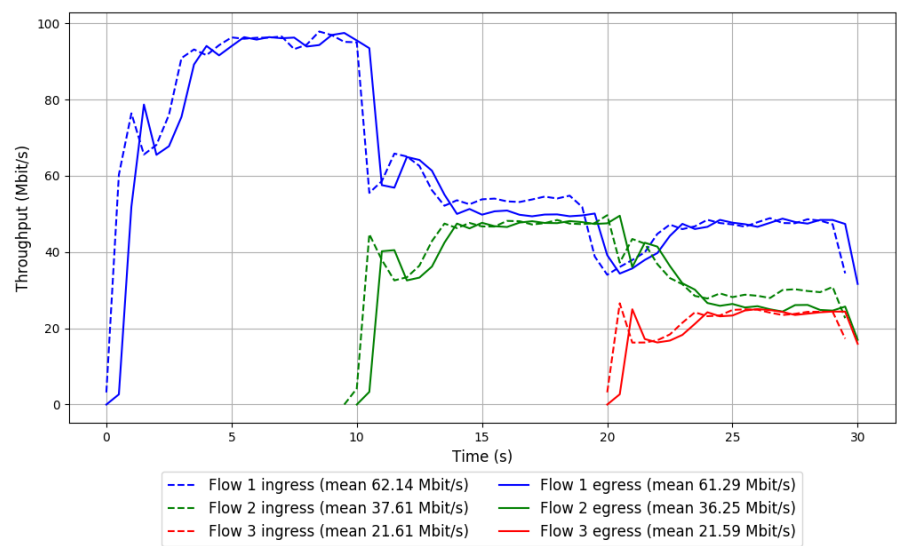
-- Flow 3:

Average throughput: 21.59 Mbit/s

95th percentile per-packet one-way delay: 36.544 ms

Loss rate: 0.71%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 04:25:09

End at: 2018-06-06 04:25:39

Local clock offset: 0.53 ms

Remote clock offset: 0.577 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.98 Mbit/s

95th percentile per-packet one-way delay: 61.935 ms

Loss rate: 4.93%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 57.480 ms

Loss rate: 6.24%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 2.90%

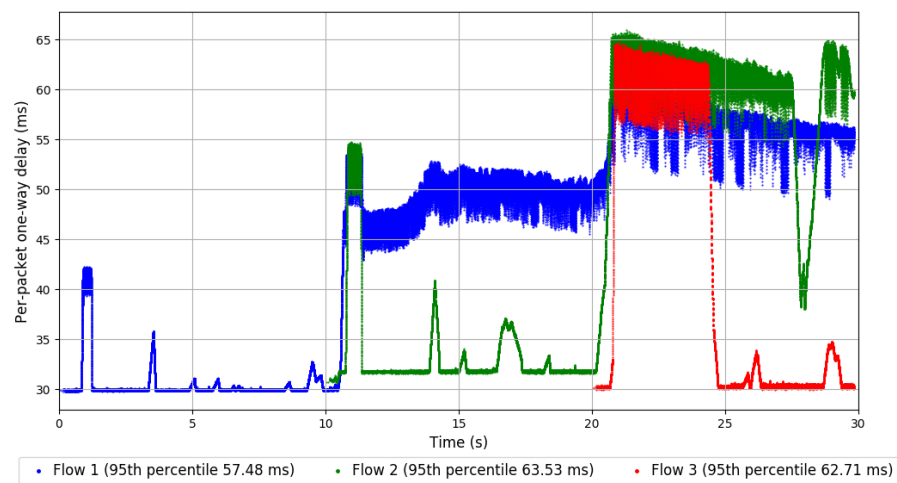
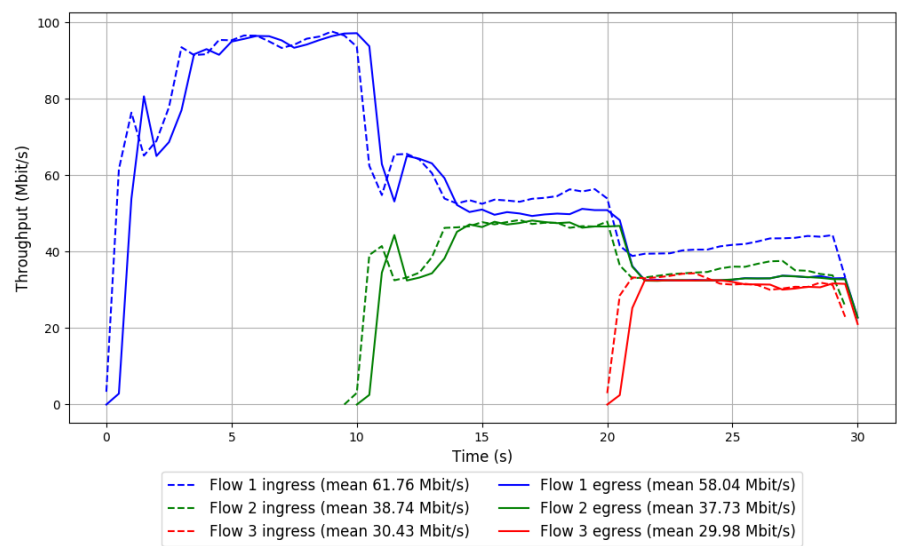
-- Flow 3:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 62.713 ms

Loss rate: 2.09%

Run 5: Report of PCC-Allegro — Data Link

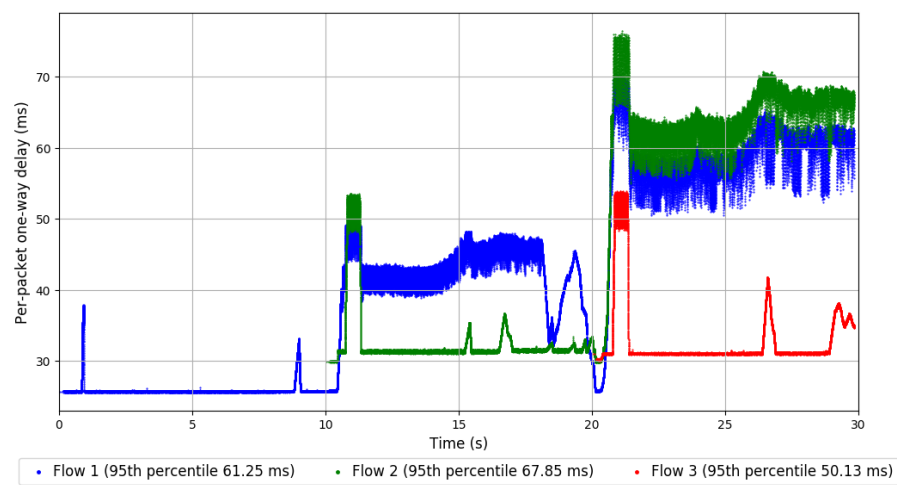
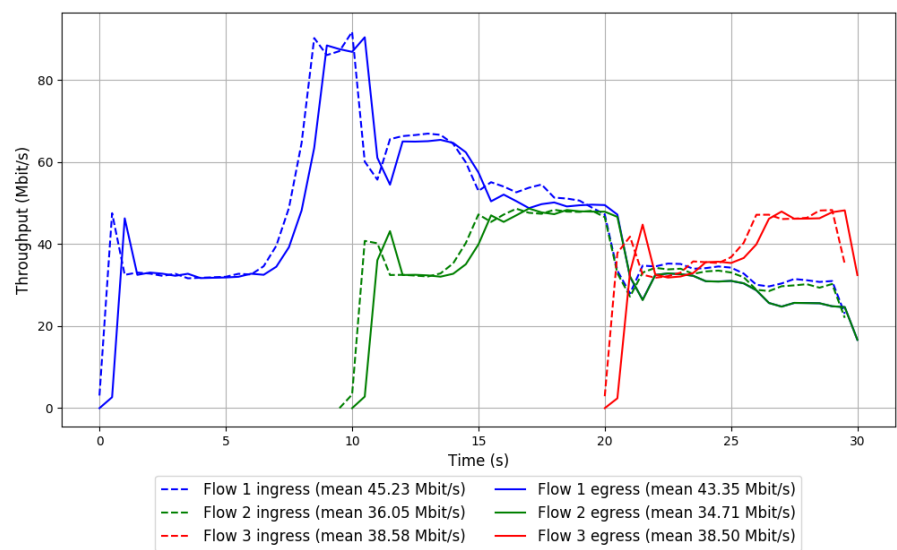


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 04:46:38
End at: 2018-06-06 04:47:08
Local clock offset: 0.365 ms
Remote clock offset: -0.472 ms

Below is generated by plot.py at 2018-06-06 06:38:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.07 Mbit/s
95th percentile per-packet one-way delay: 64.676 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 61.253 ms
Loss rate: 4.35%
-- Flow 2:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 67.847 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 50.129 ms
Loss rate: 0.84%

Run 6: Report of PCC-Allegro — Data Link

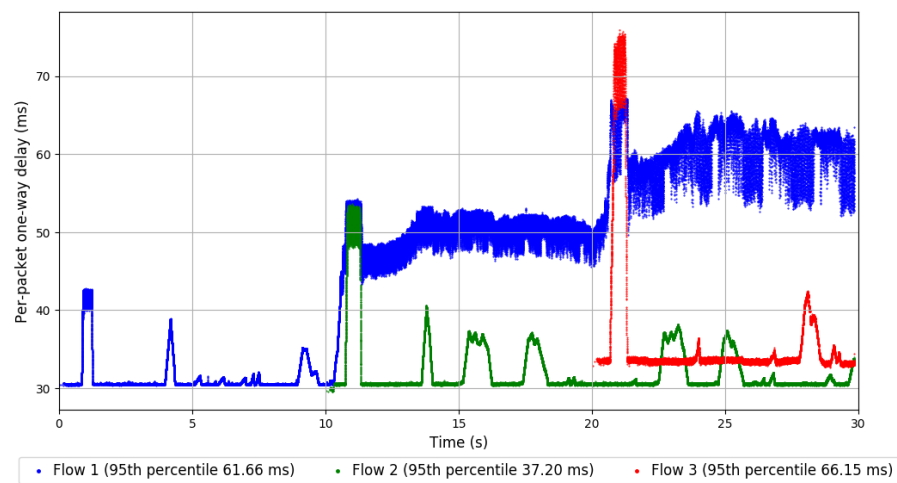
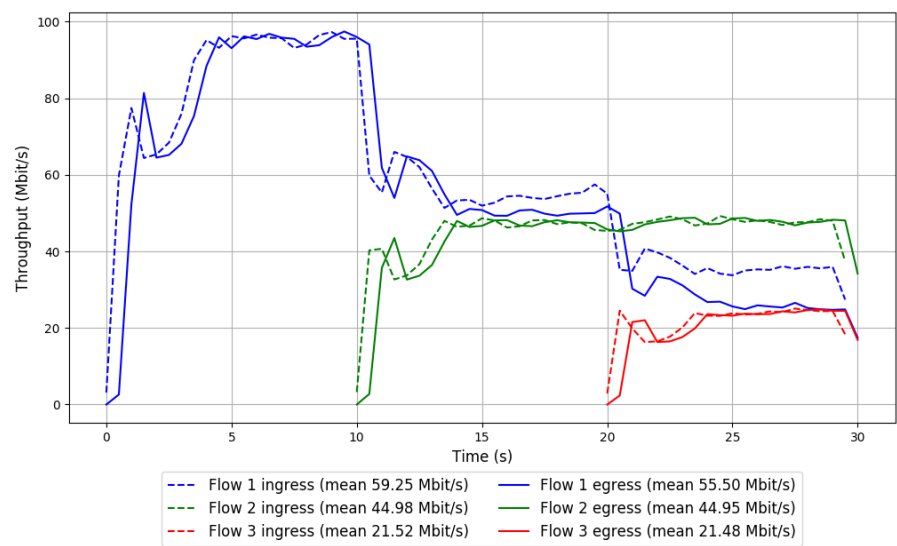


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 05:08:06
End at: 2018-06-06 05:08:36
Local clock offset: 0.936 ms
Remote clock offset: -1.288 ms

Below is generated by plot.py at 2018-06-06 06:38:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 60.088 ms
Loss rate: 4.19%
-- Flow 1:
Average throughput: 55.50 Mbit/s
95th percentile per-packet one-way delay: 61.664 ms
Loss rate: 6.53%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 37.197 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 21.48 Mbit/s
95th percentile per-packet one-way delay: 66.152 ms
Loss rate: 0.82%

Run 7: Report of PCC-Allegro — Data Link

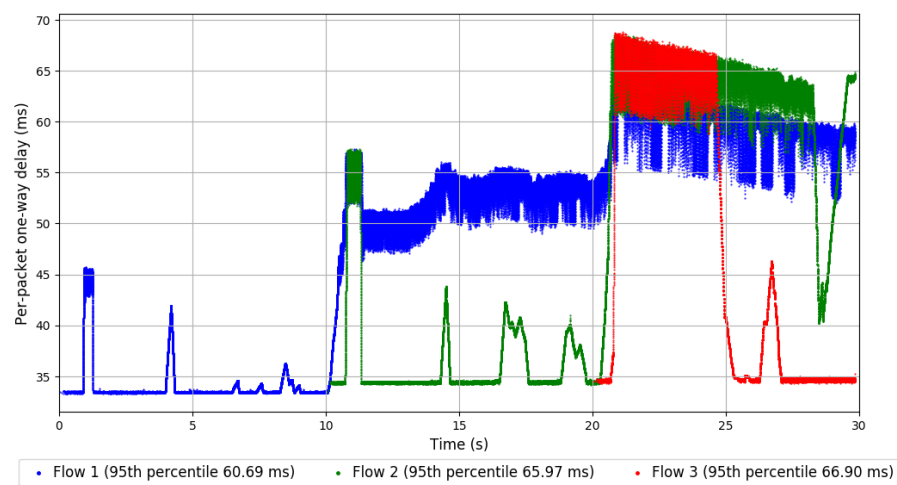
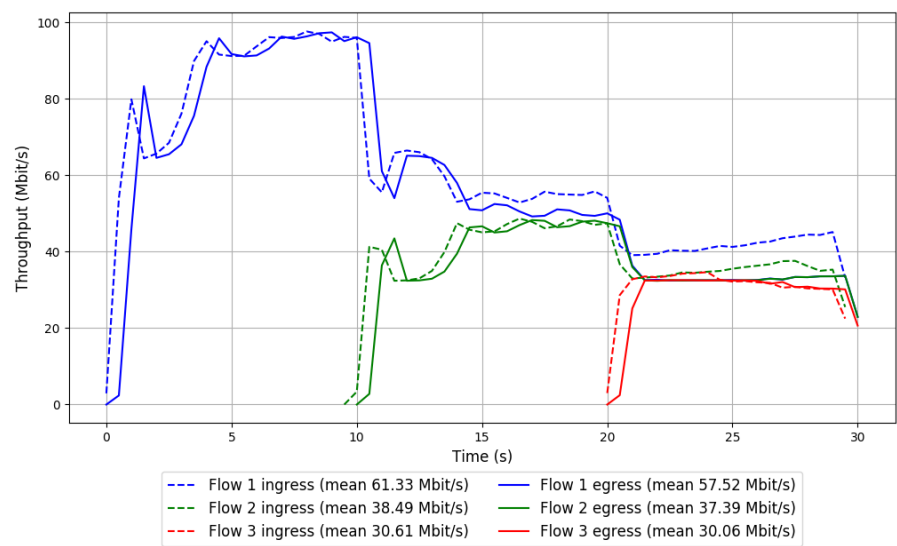


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 05:29:39
End at: 2018-06-06 05:30:09
Local clock offset: 2.236 ms
Remote clock offset: -4.059 ms

Below is generated by plot.py at 2018-06-06 06:38:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 64.951 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 60.690 ms
Loss rate: 6.44%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 65.967 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 30.06 Mbit/s
95th percentile per-packet one-way delay: 66.900 ms
Loss rate: 2.43%

Run 8: Report of PCC-Allegro — Data Link

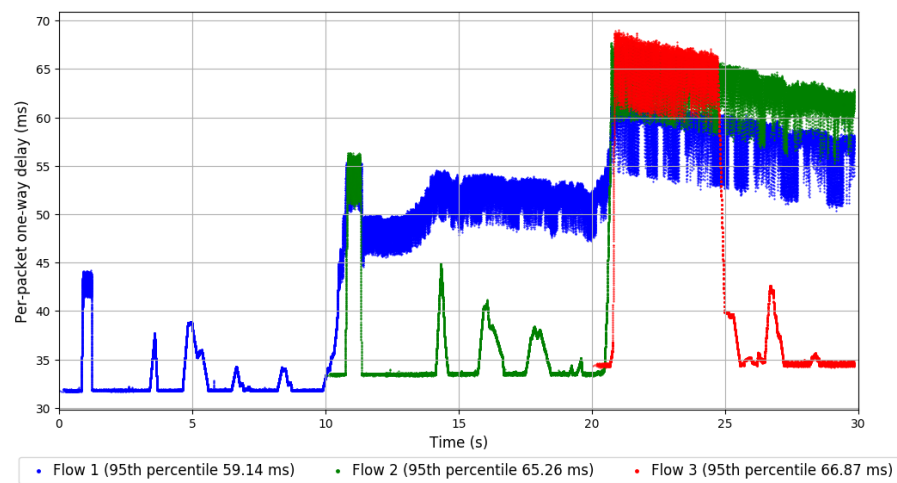
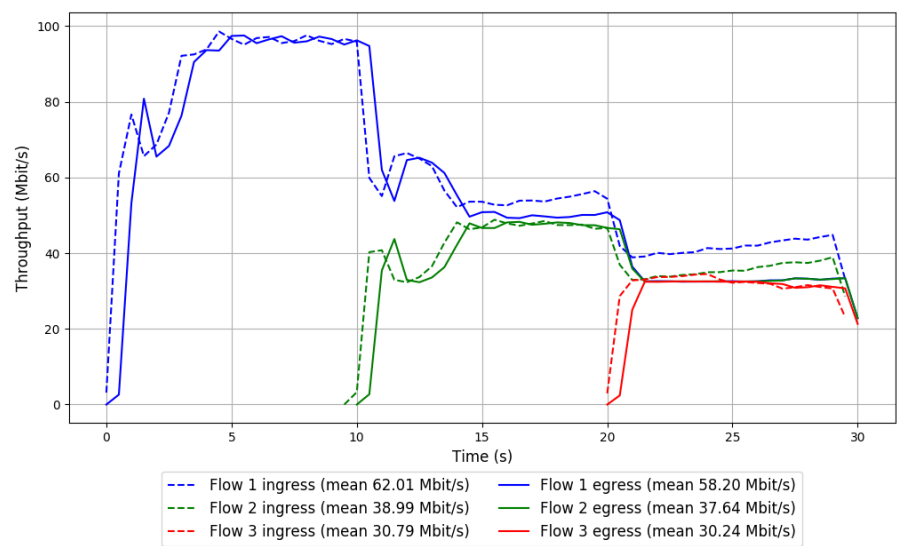


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 05:51:13
End at: 2018-06-06 05:51:43
Local clock offset: 1.631 ms
Remote clock offset: -4.032 ms

Below is generated by plot.py at 2018-06-06 06:39:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 64.478 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 59.137 ms
Loss rate: 6.32%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 65.256 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 66.871 ms
Loss rate: 2.42%

Run 9: Report of PCC-Allegro — Data Link

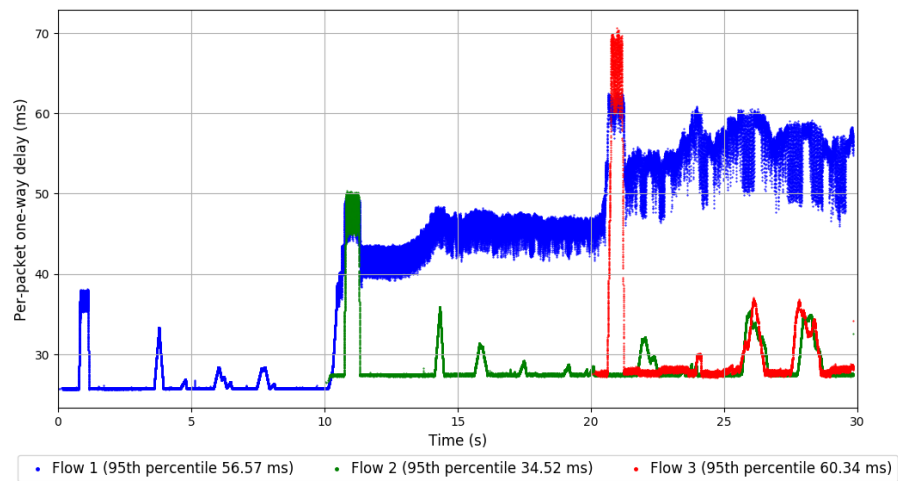
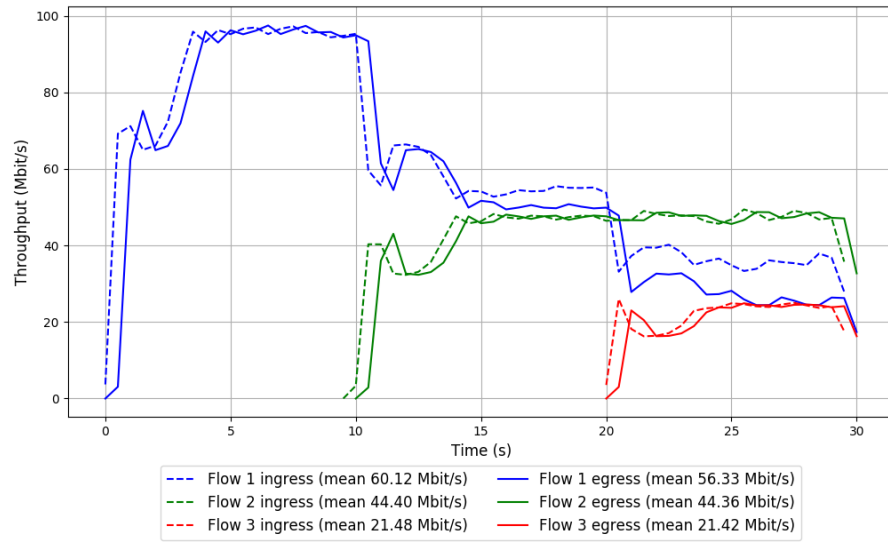


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 06:12:44
End at: 2018-06-06 06:13:14
Local clock offset: 1.44 ms
Remote clock offset: -1.762 ms

Below is generated by plot.py at 2018-06-06 06:39:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 55.171 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 56.574 ms
Loss rate: 6.50%
-- Flow 2:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 34.515 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 60.342 ms
Loss rate: 0.78%

Run 10: Report of PCC-Allegro — Data Link

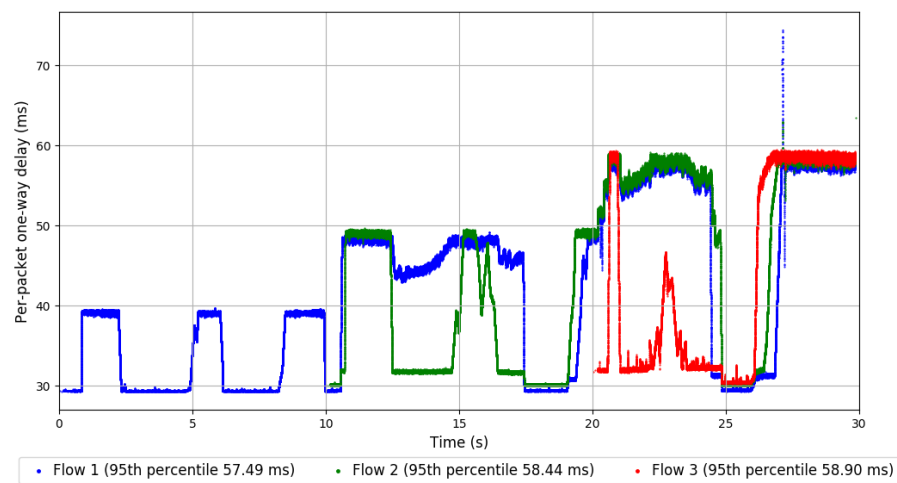
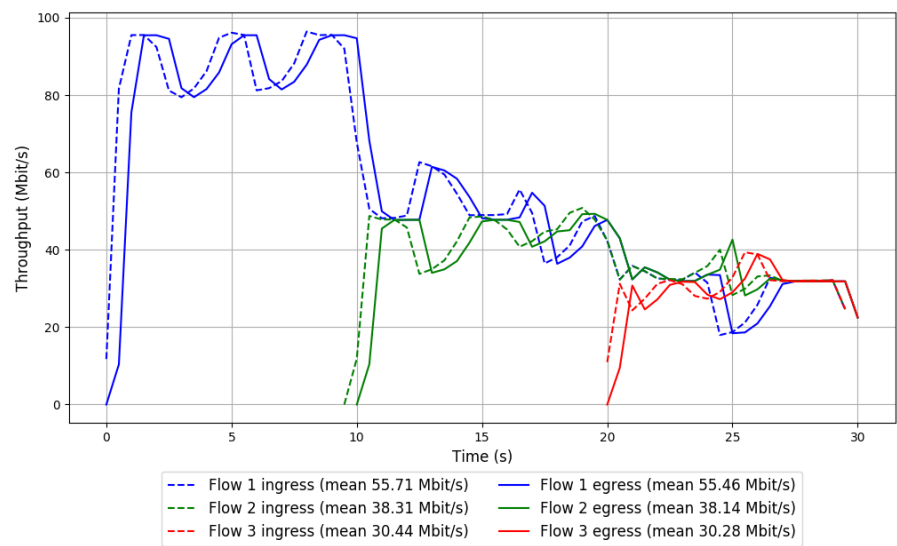


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 03:04:09
End at: 2018-06-06 03:04:39
Local clock offset: 0.683 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2018-06-06 06:40:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 58.354 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 57.491 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 58.444 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 58.901 ms
Loss rate: 1.15%
```

Run 1: Report of PCC-Expr — Data Link

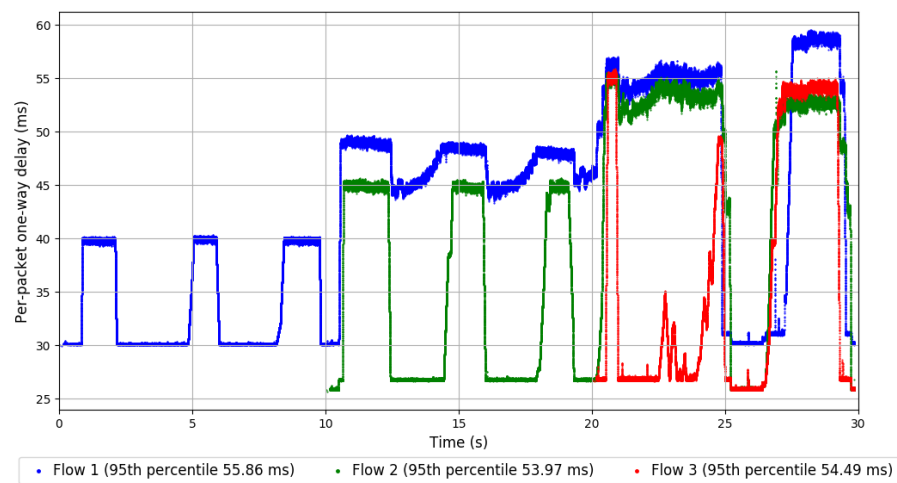
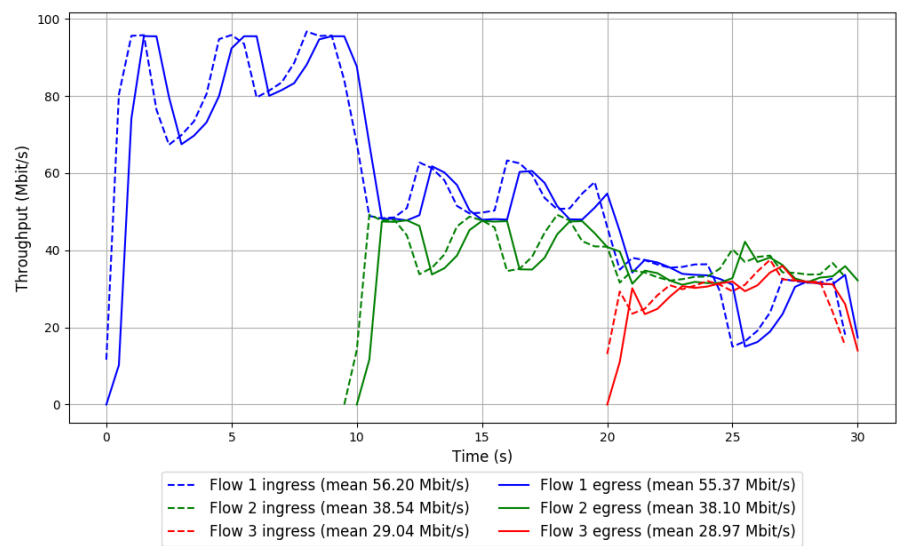


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 03:25:42
End at: 2018-06-06 03:26:12
Local clock offset: 0.872 ms
Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2018-06-06 06:40:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 55.141 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 55.37 Mbit/s
95th percentile per-packet one-way delay: 55.856 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 54.494 ms
Loss rate: 0.81%
```

Run 2: Report of PCC-Expr — Data Link

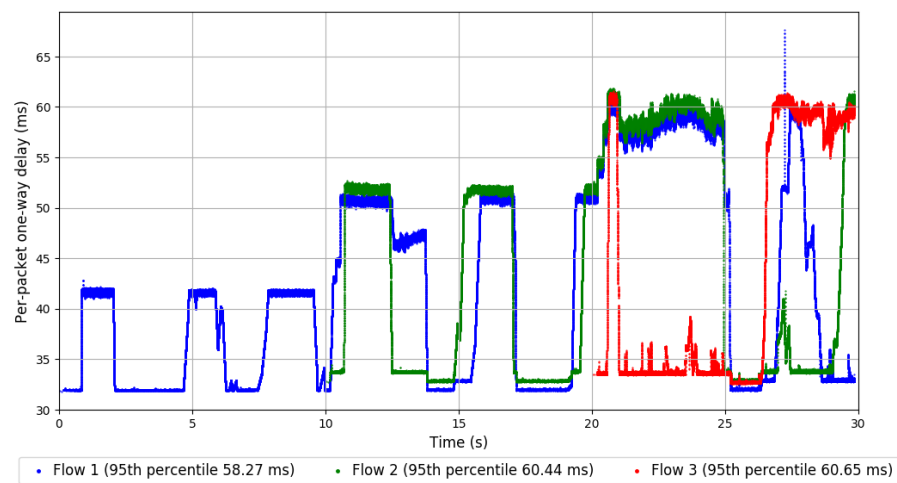
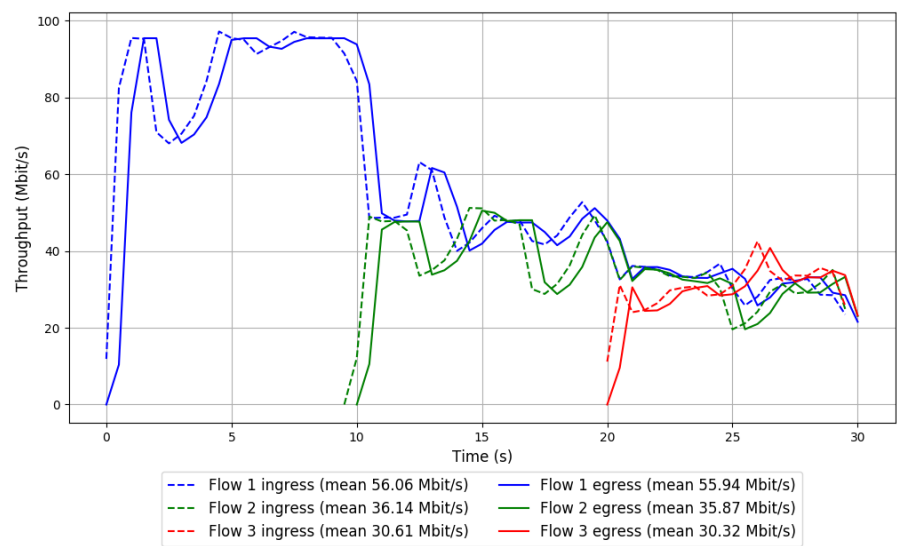


Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 03:47:17
End at: 2018-06-06 03:47:47
Local clock offset: 1.286 ms
Remote clock offset: -1.952 ms

Below is generated by plot.py at 2018-06-06 06:40:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 59.683 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 58.271 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 60.437 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 60.648 ms
Loss rate: 1.57%

Run 3: Report of PCC-Expr — Data Link

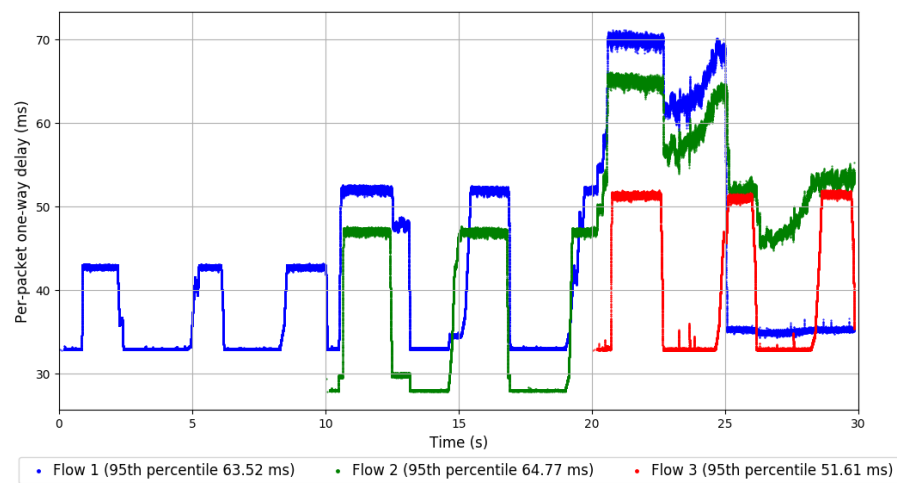
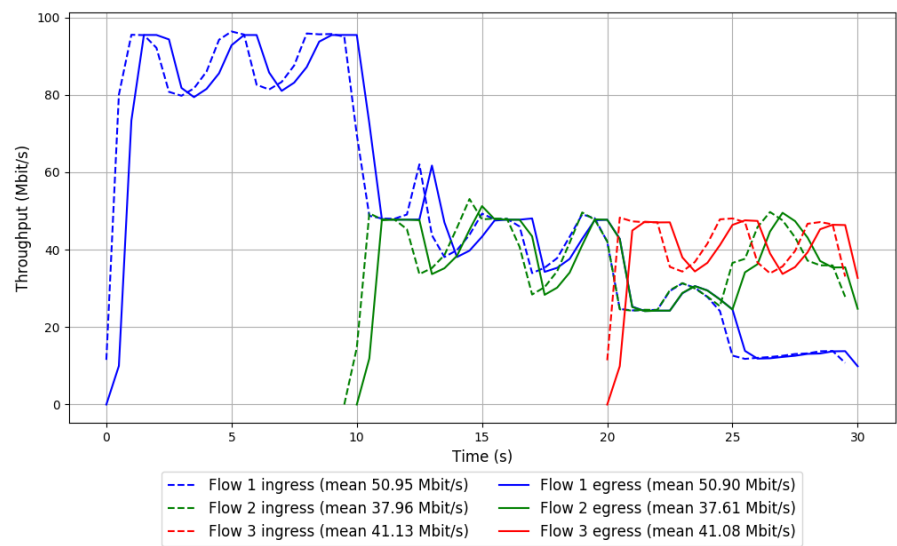


Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 04:09:02
End at: 2018-06-06 04:09:32
Local clock offset: 1.091 ms
Remote clock offset: -2.042 ms

Below is generated by plot.py at 2018-06-06 06:40:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 63.415 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 50.90 Mbit/s
95th percentile per-packet one-way delay: 63.524 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 64.765 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 41.08 Mbit/s
95th percentile per-packet one-way delay: 51.610 ms
Loss rate: 0.71%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 04:30:31

End at: 2018-06-06 04:31:01

Local clock offset: 0.556 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2018-06-06 06:40:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.42 Mbit/s

95th percentile per-packet one-way delay: 66.861 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 65.890 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 68.241 ms

Loss rate: 0.77%

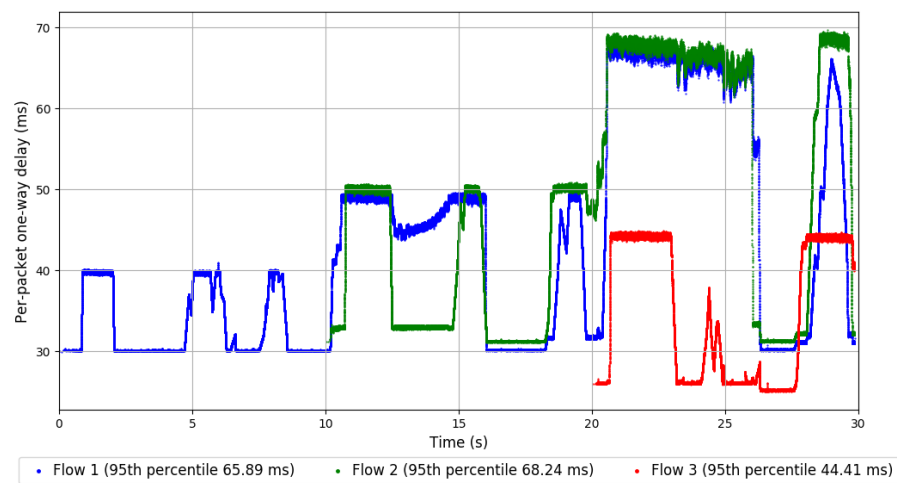
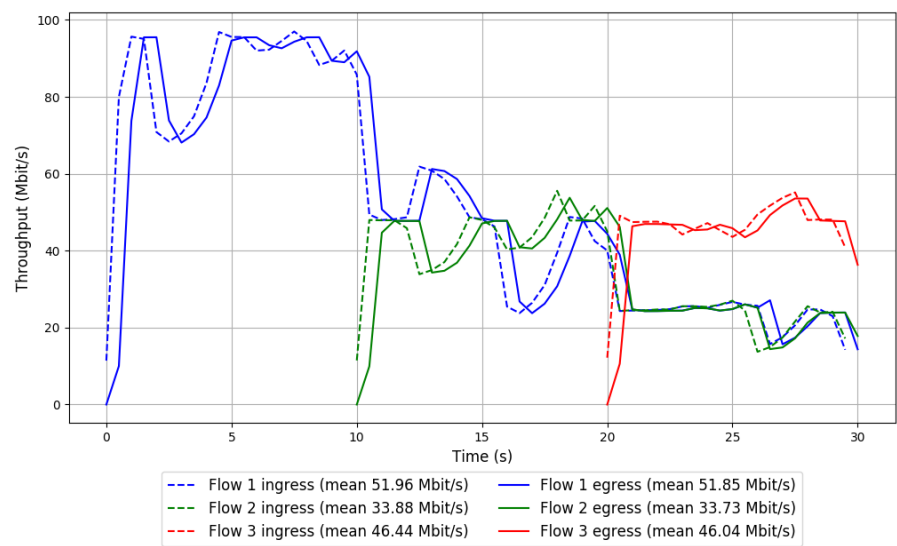
-- Flow 3:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 44.409 ms

Loss rate: 1.41%

Run 5: Report of PCC-Expr — Data Link

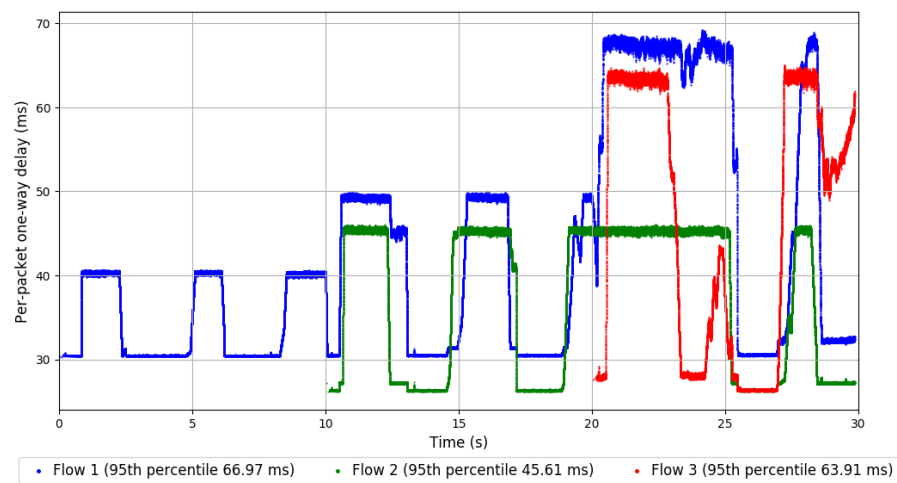
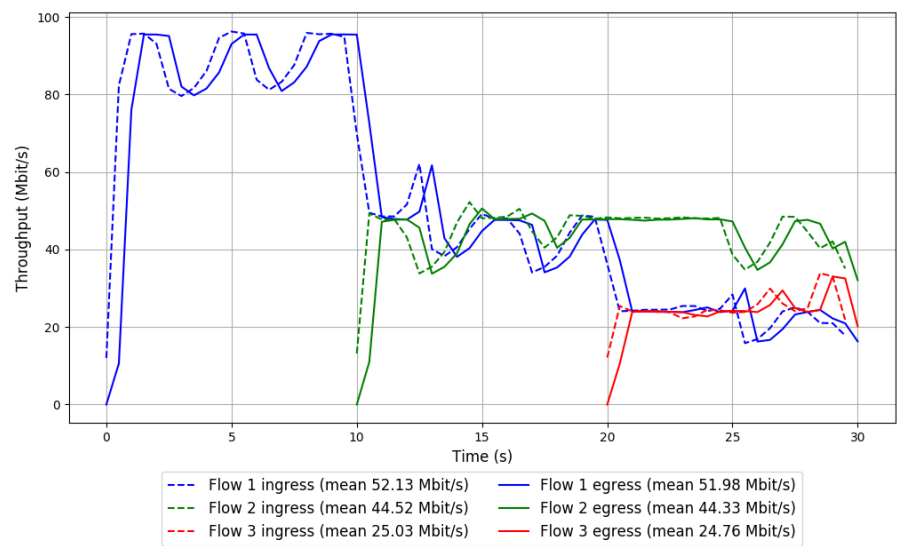


Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 04:52:01
End at: 2018-06-06 04:52:31
Local clock offset: 0.473 ms
Remote clock offset: -1.085 ms

Below is generated by plot.py at 2018-06-06 06:40:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 63.965 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 66.965 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 45.606 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 1.70%

Run 6: Report of PCC-Expr — Data Link

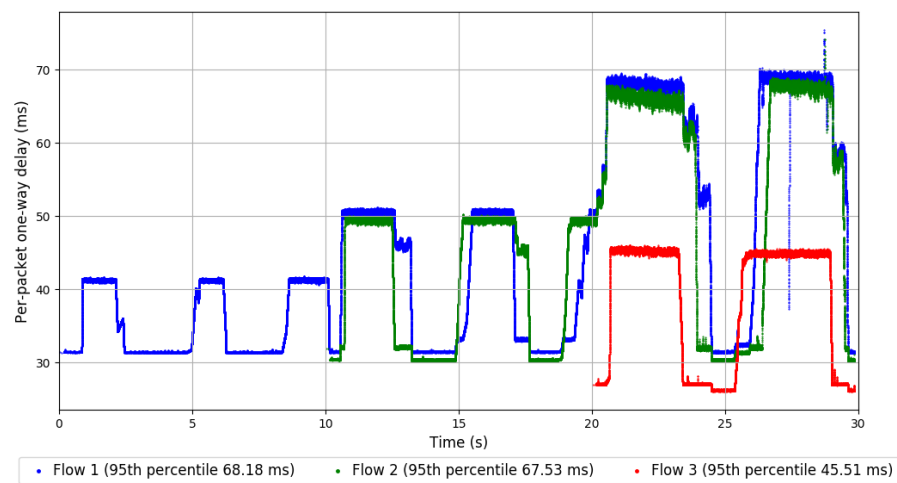
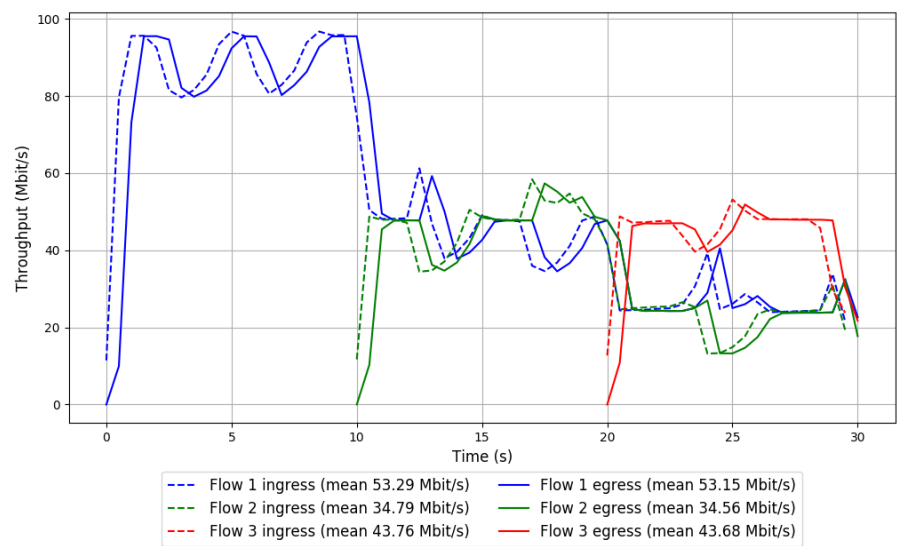


Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 05:13:34
End at: 2018-06-06 05:14:04
Local clock offset: 1.438 ms
Remote clock offset: -1.536 ms

Below is generated by plot.py at 2018-06-06 06:41:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.50 Mbit/s
95th percentile per-packet one-way delay: 67.698 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 53.15 Mbit/s
95th percentile per-packet one-way delay: 68.184 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 34.56 Mbit/s
95th percentile per-packet one-way delay: 67.527 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 45.507 ms
Loss rate: 0.76%

Run 7: Report of PCC-Expr — Data Link

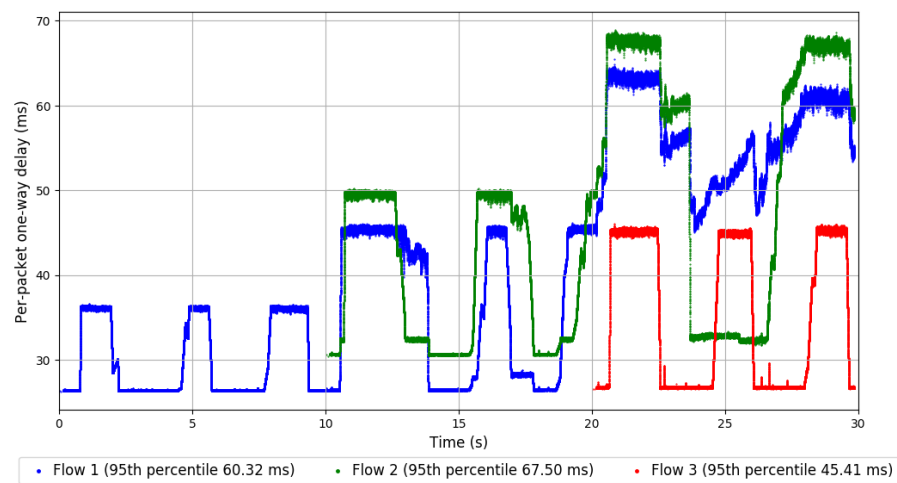
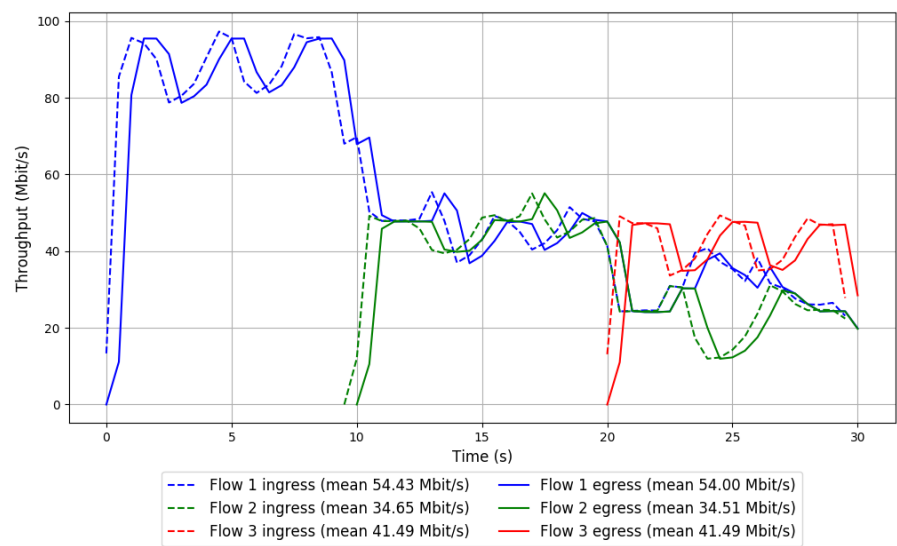


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 05:35:03
End at: 2018-06-06 05:35:33
Local clock offset: 2.241 ms
Remote clock offset: -2.154 ms

Below is generated by plot.py at 2018-06-06 06:41:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 62.992 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 54.00 Mbit/s
95th percentile per-packet one-way delay: 60.324 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 67.497 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 45.413 ms
Loss rate: 0.55%

Run 8: Report of PCC-Expr — Data Link

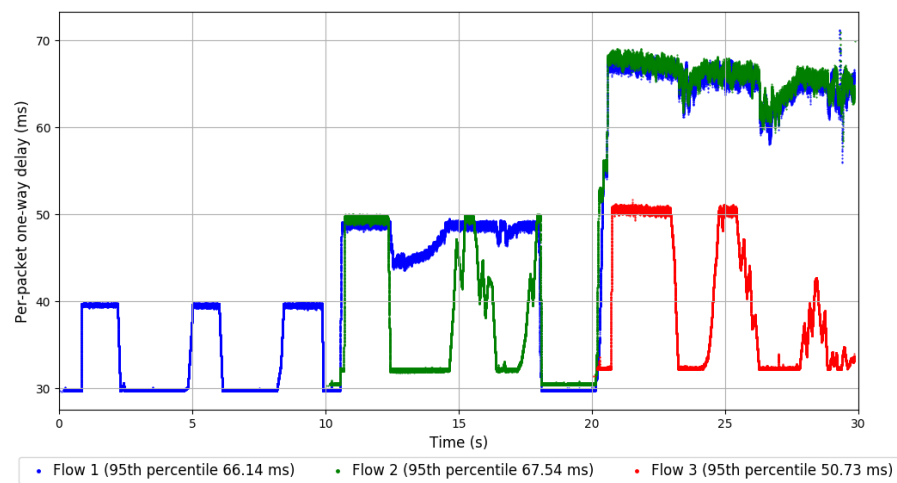
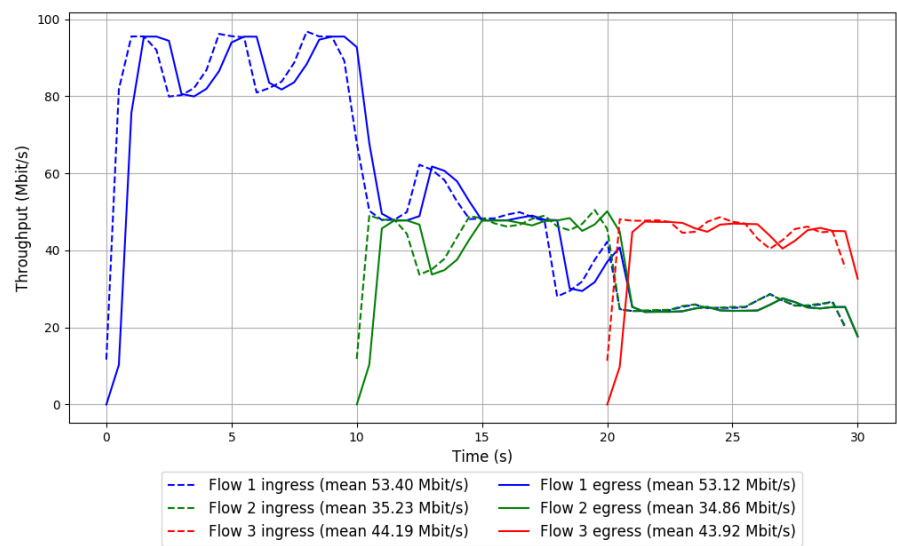


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 05:56:36
End at: 2018-06-06 05:57:06
Local clock offset: 1.593 ms
Remote clock offset: -1.848 ms

Below is generated by plot.py at 2018-06-06 06:42:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 66.628 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 53.12 Mbit/s
95th percentile per-packet one-way delay: 66.138 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 67.539 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 1.21%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

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

End at: 2018-06-06 06:18:38

Local clock offset: 1.309 ms

Remote clock offset: -1.72 ms

Below is generated by plot.py at 2018-06-06 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 58.002 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 58.443 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 37.33 Mbit/s

95th percentile per-packet one-way delay: 54.104 ms

Loss rate: 0.81%

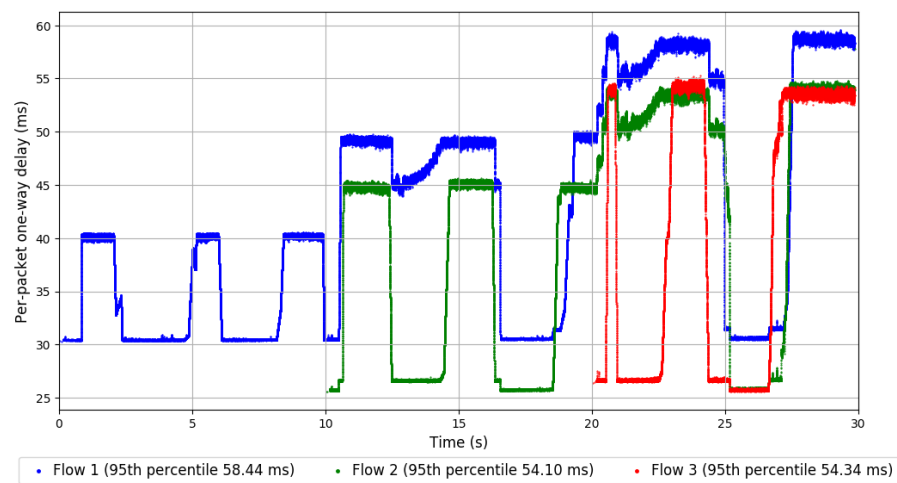
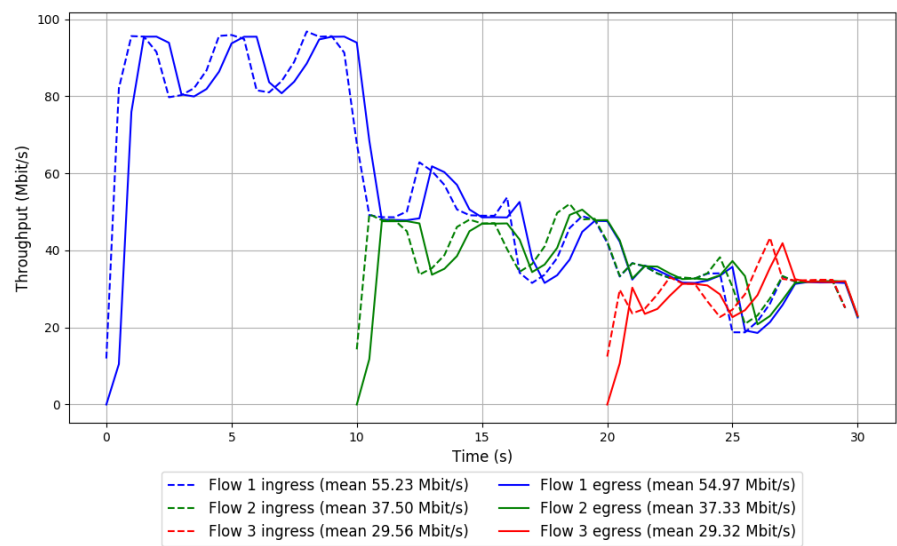
-- Flow 3:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 54.336 ms

Loss rate: 1.44%

Run 10: Report of PCC-Expr — Data Link

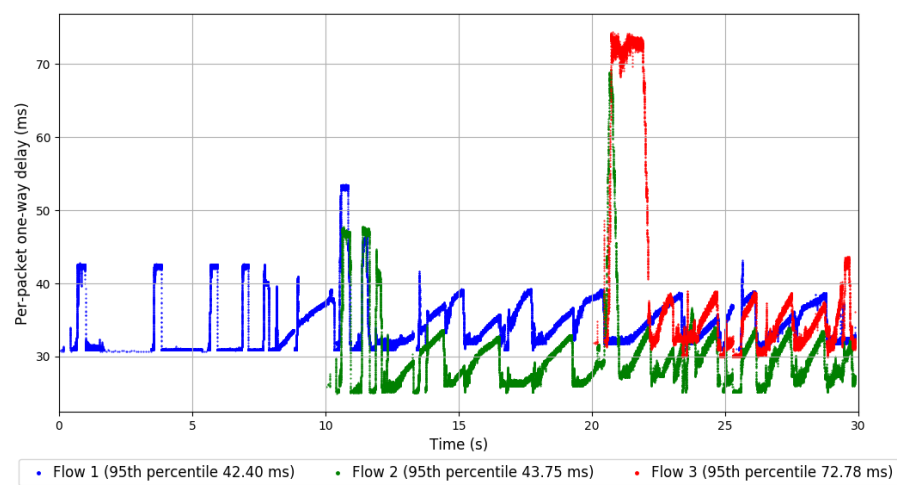
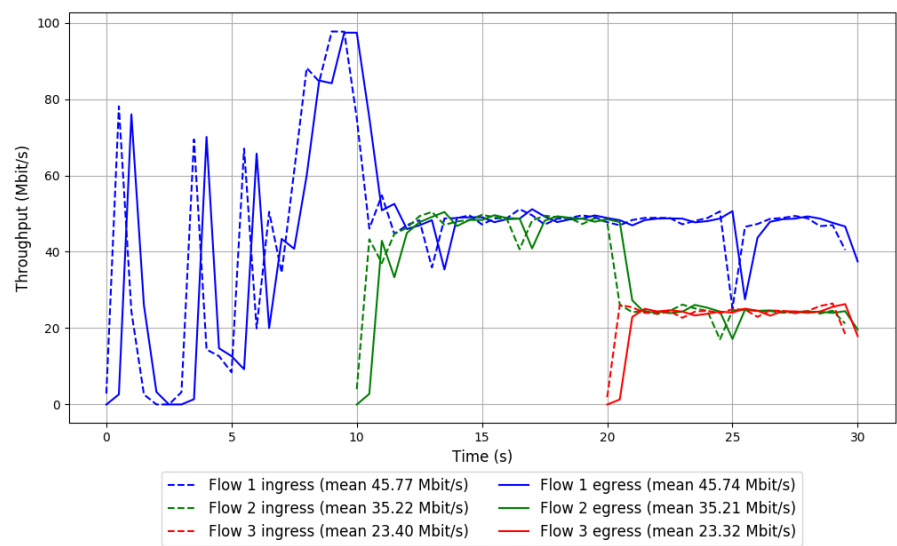


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 02:49:29
End at: 2018-06-06 02:49:59
Local clock offset: 0.475 ms
Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2018-06-06 06:42:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.82 Mbit/s
95th percentile per-packet one-way delay: 42.507 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 42.398 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 43.753 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 72.785 ms
Loss rate: 0.89%
```


Run 1: Report of QUIC Cubic — Data Link

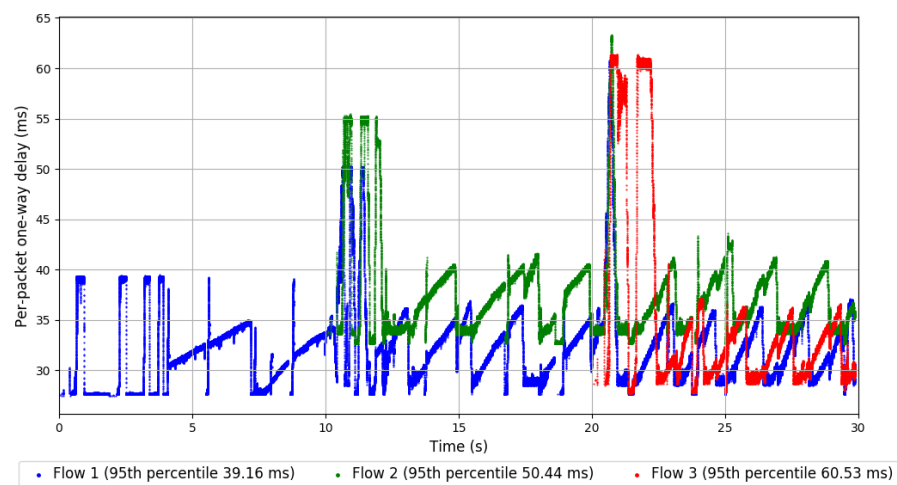
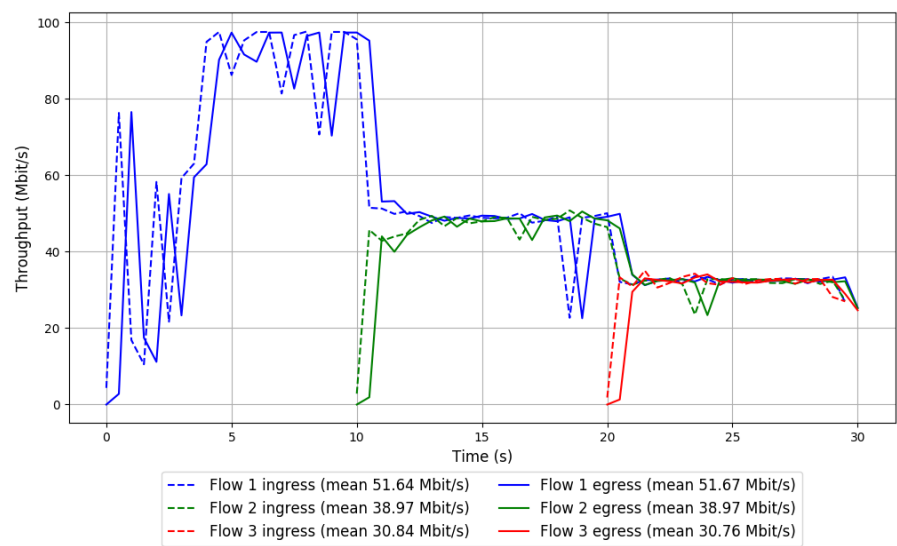


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 03:11:01
End at: 2018-06-06 03:11:31
Local clock offset: 0.663 ms
Remote clock offset: -2.084 ms

Below is generated by plot.py at 2018-06-06 06:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 42.747 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 39.163 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 50.437 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 60.526 ms
Loss rate: 0.82%

Run 2: Report of QUIC Cubic — Data Link

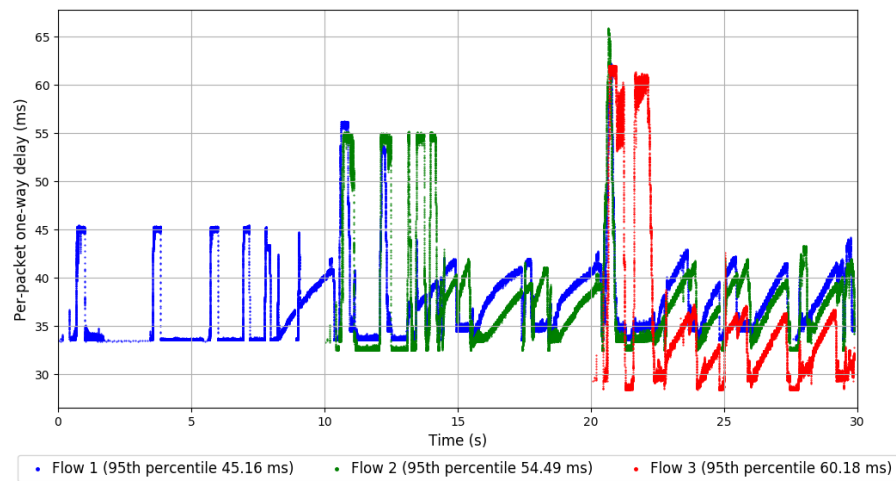
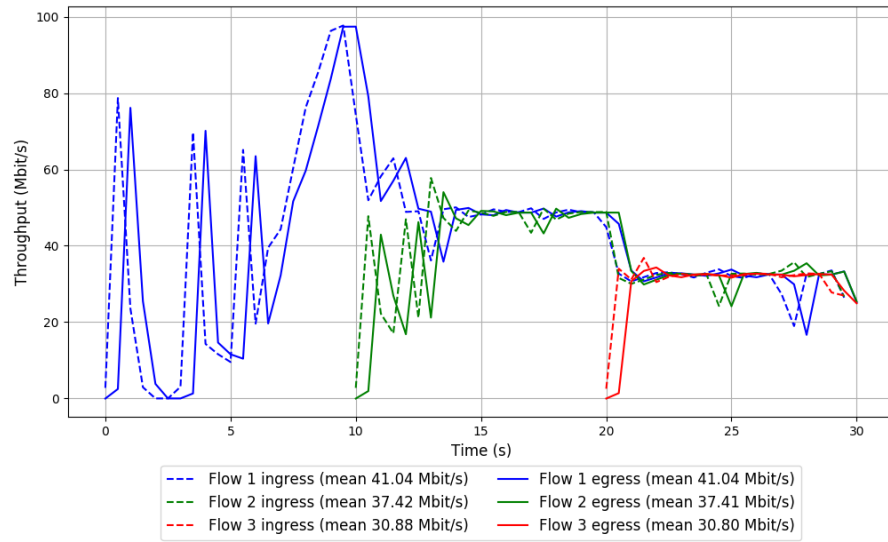


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 03:32:34
End at: 2018-06-06 03:33:04
Local clock offset: 0.993 ms
Remote clock offset: -1.868 ms

Below is generated by plot.py at 2018-06-06 06:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.05 Mbit/s
95th percentile per-packet one-way delay: 53.786 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 45.161 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 54.486 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 60.179 ms
Loss rate: 0.82%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 03:54:09

End at: 2018-06-06 03:54:39

Local clock offset: 1.365 ms

Remote clock offset: 0.703 ms

Below is generated by plot.py at 2018-06-06 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.07 Mbit/s

95th percentile per-packet one-way delay: 41.498 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 41.320 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 49.507 ms

Loss rate: 0.30%

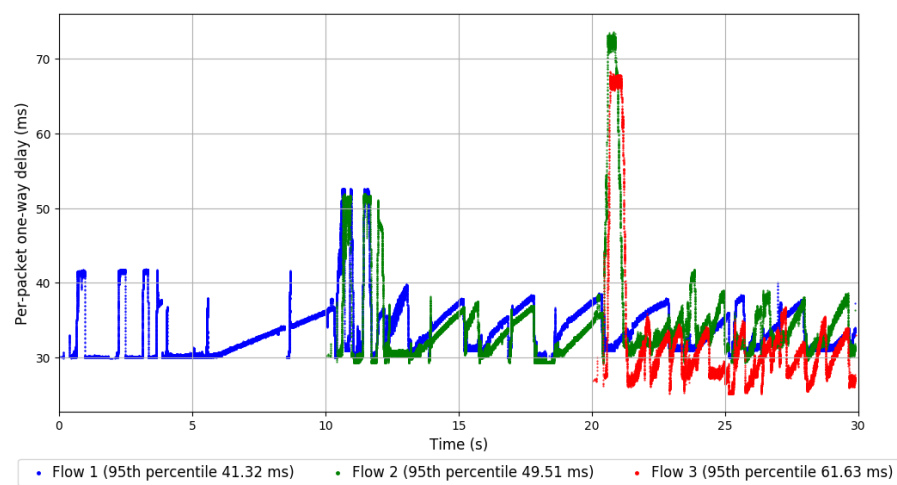
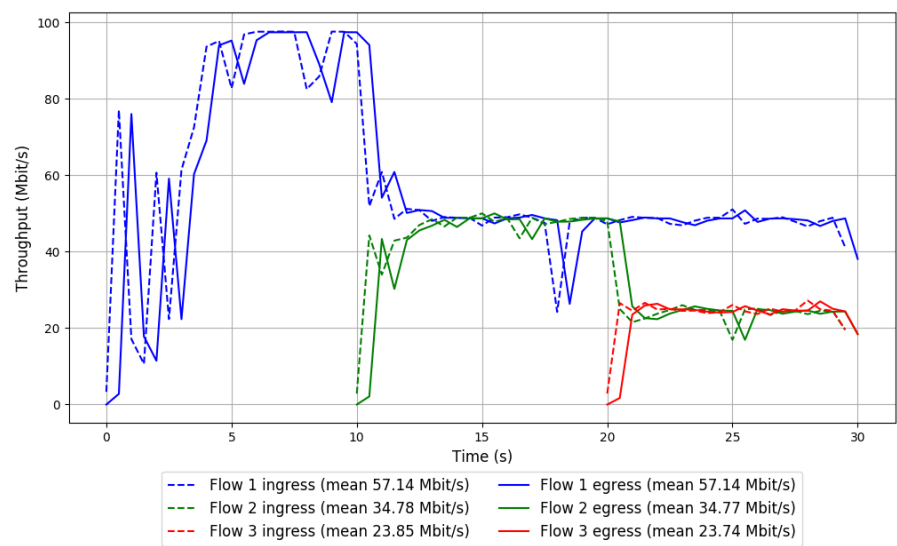
-- Flow 3:

Average throughput: 23.74 Mbit/s

95th percentile per-packet one-way delay: 61.635 ms

Loss rate: 0.95%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 04:15:53

End at: 2018-06-06 04:16:23

Local clock offset: 0.687 ms

Remote clock offset: 0.439 ms

Below is generated by plot.py at 2018-06-06 06:42:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.23 Mbit/s

95th percentile per-packet one-way delay: 43.412 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 42.122 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 52.112 ms

Loss rate: 0.30%

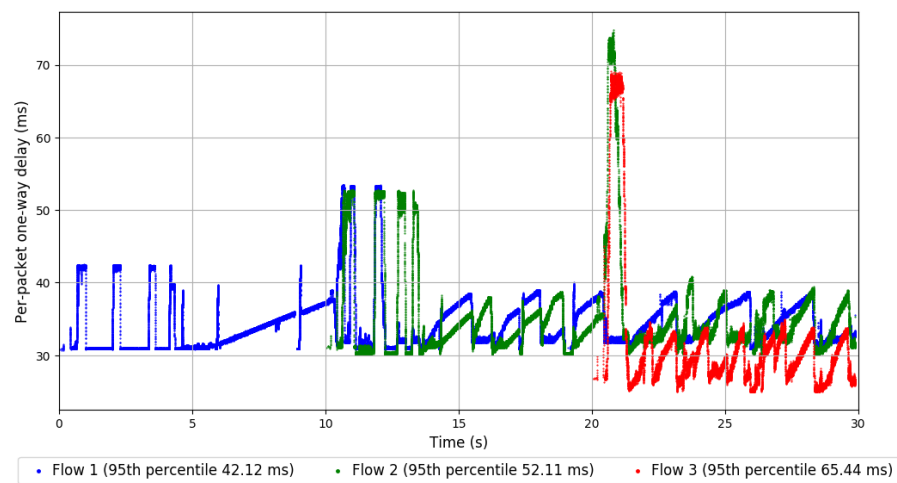
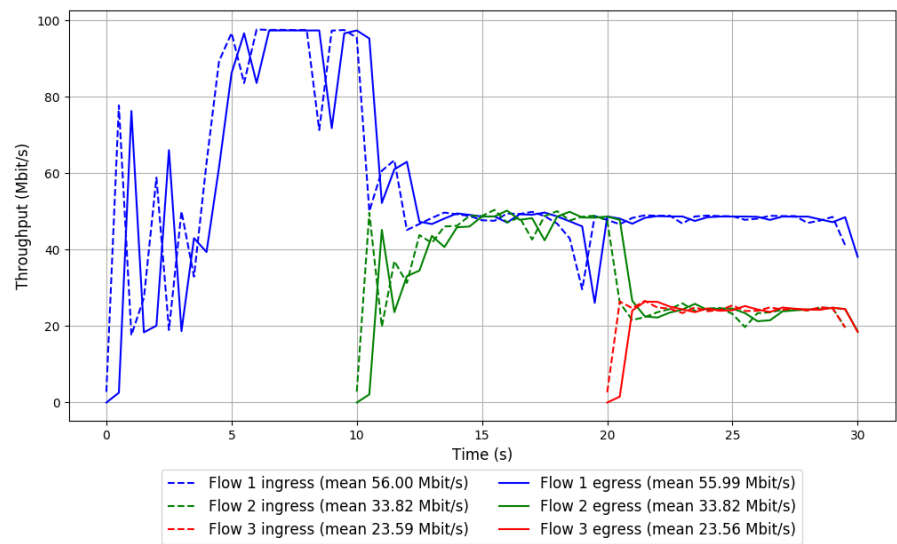
-- Flow 3:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 65.439 ms

Loss rate: 0.71%

Run 5: Report of QUIC Cubic — Data Link

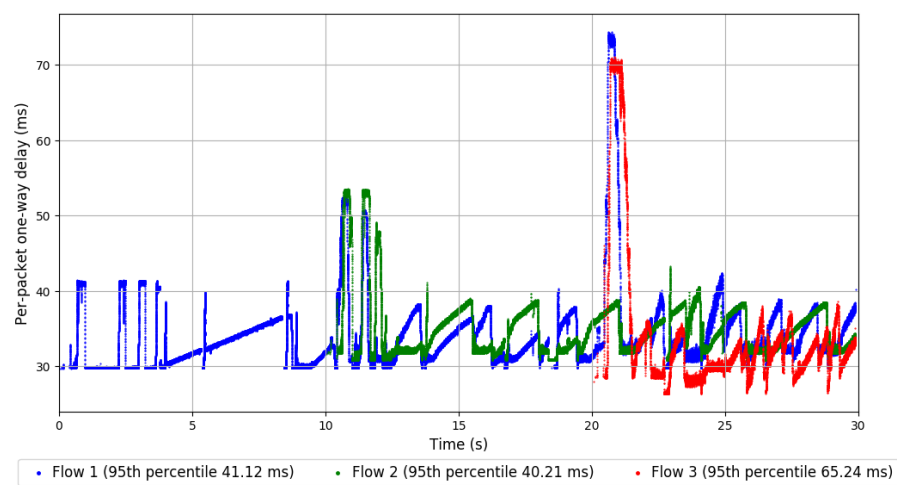
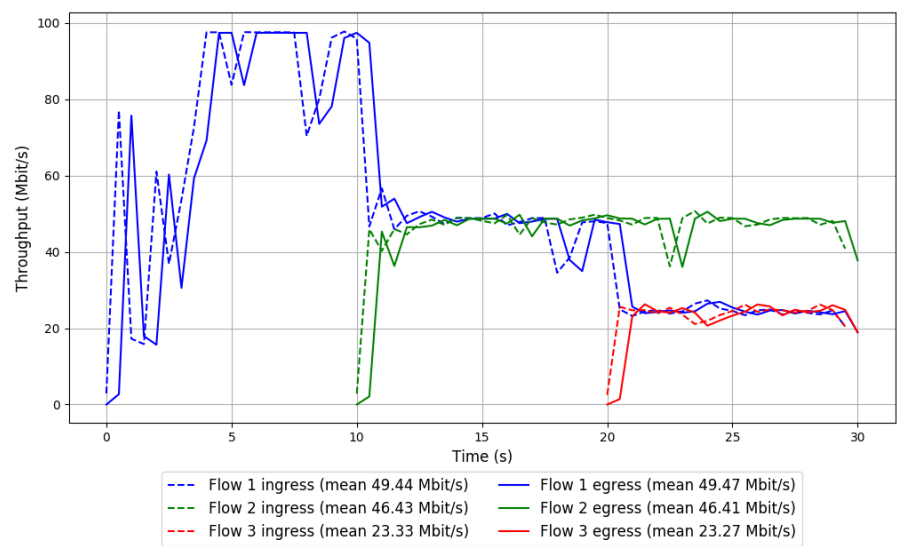


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 04:37:22
End at: 2018-06-06 04:37:52
Local clock offset: 0.538 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-06 06:42:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 41.149 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 41.119 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 40.214 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 65.239 ms
Loss rate: 0.83%

Run 6: Report of QUIC Cubic — Data Link

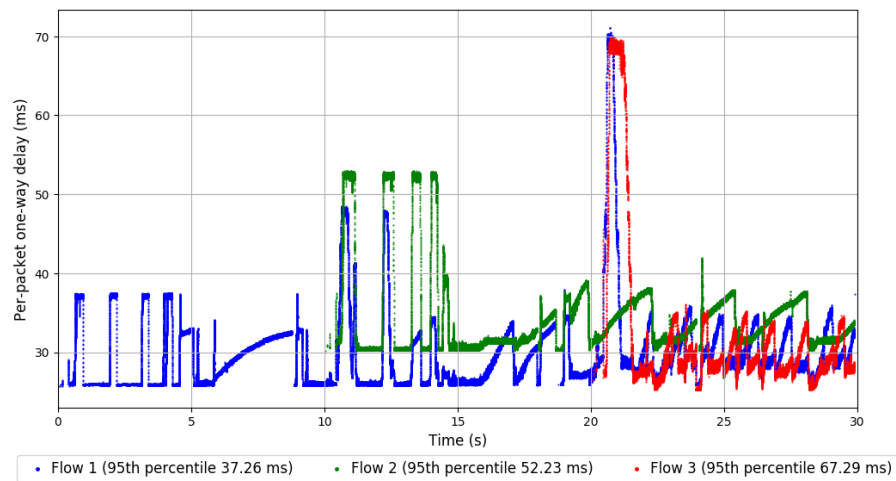
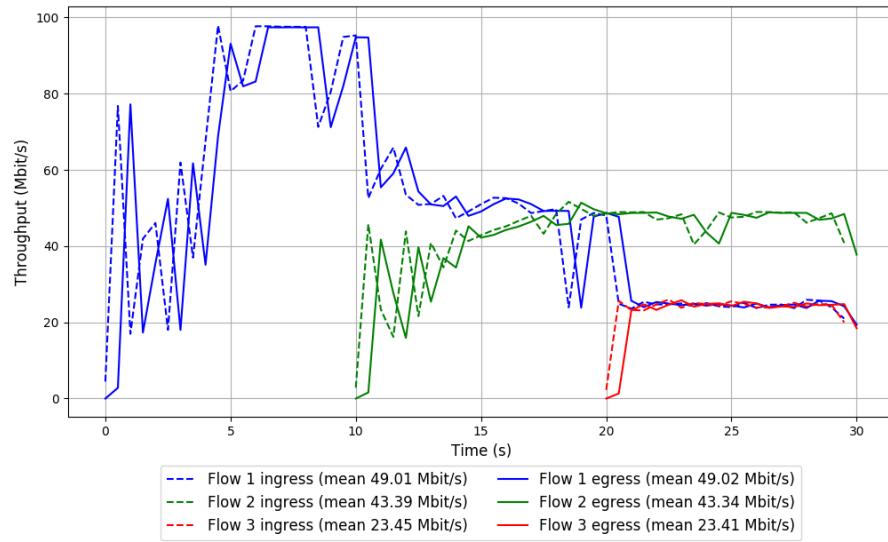


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 04:58:52
End at: 2018-06-06 04:59:22
Local clock offset: 0.424 ms
Remote clock offset: -0.815 ms

Below is generated by plot.py at 2018-06-06 06:42:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 42.460 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 49.02 Mbit/s
95th percentile per-packet one-way delay: 37.259 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 52.226 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 67.287 ms
Loss rate: 0.76%

Run 7: Report of QUIC Cubic — Data Link

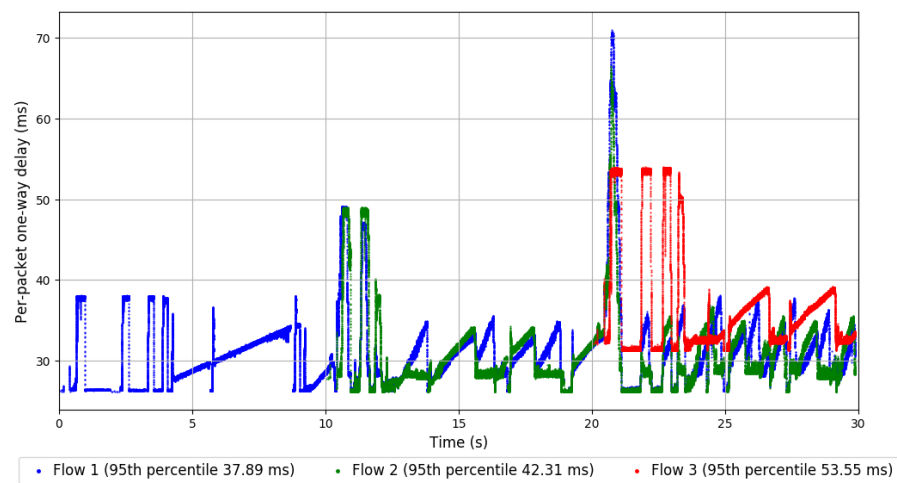
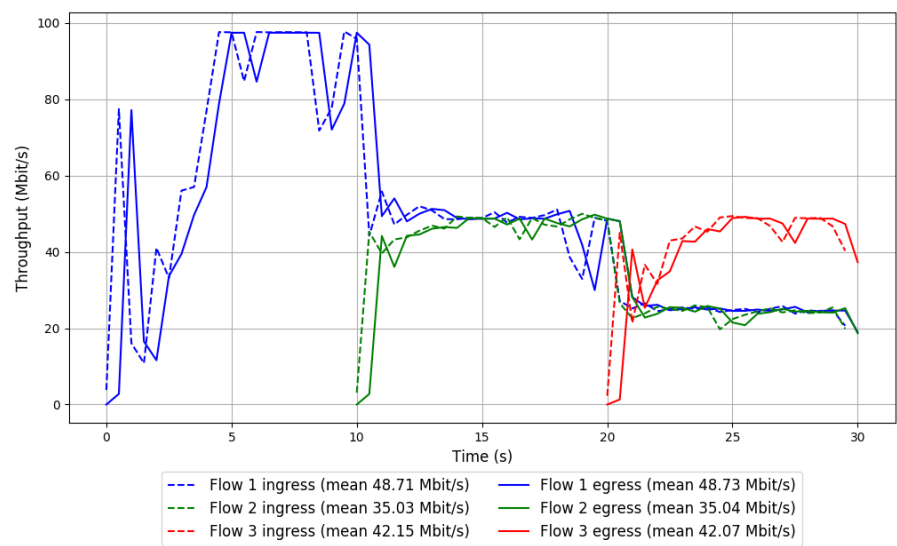


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 05:20:23
End at: 2018-06-06 05:20:53
Local clock offset: 1.901 ms
Remote clock offset: -1.748 ms

Below is generated by plot.py at 2018-06-06 06:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 42.835 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 37.890 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 42.314 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 53.549 ms
Loss rate: 0.82%

Run 8: Report of QUIC Cubic — Data Link

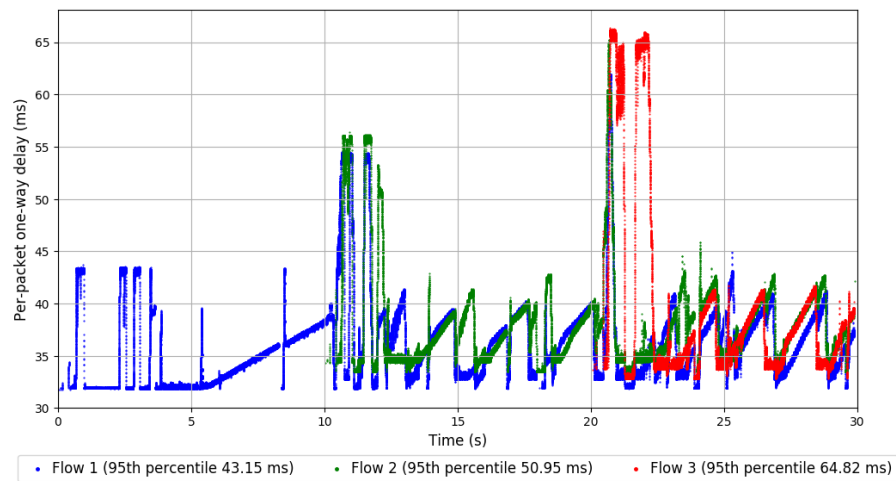
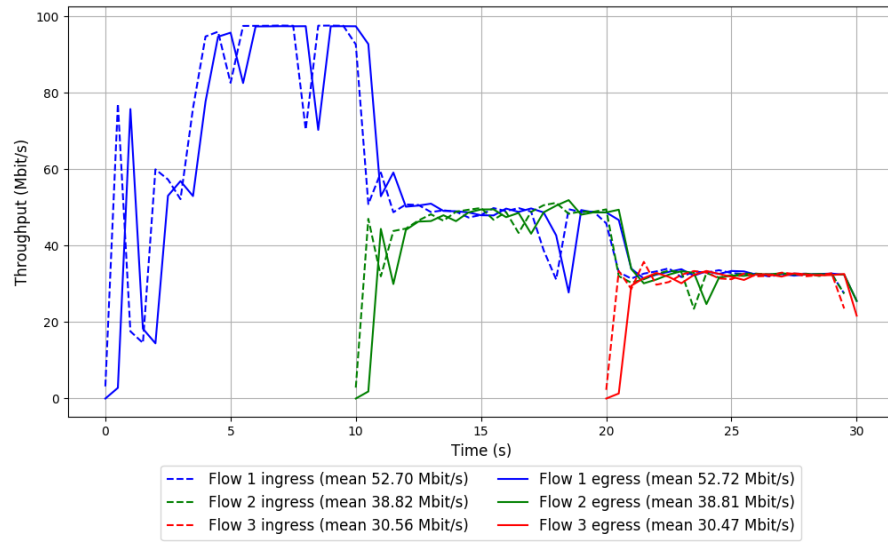


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 05:41:55
End at: 2018-06-06 05:42:25
Local clock offset: 1.824 ms
Remote clock offset: -4.374 ms

Below is generated by plot.py at 2018-06-06 06:43:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 45.999 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 43.152 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 64.818 ms
Loss rate: 0.88%

Run 9: Report of QUIC Cubic — Data Link

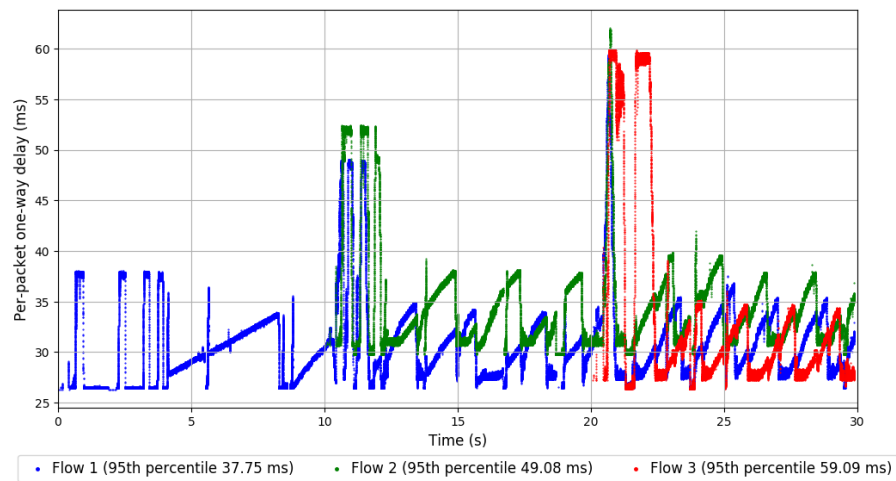
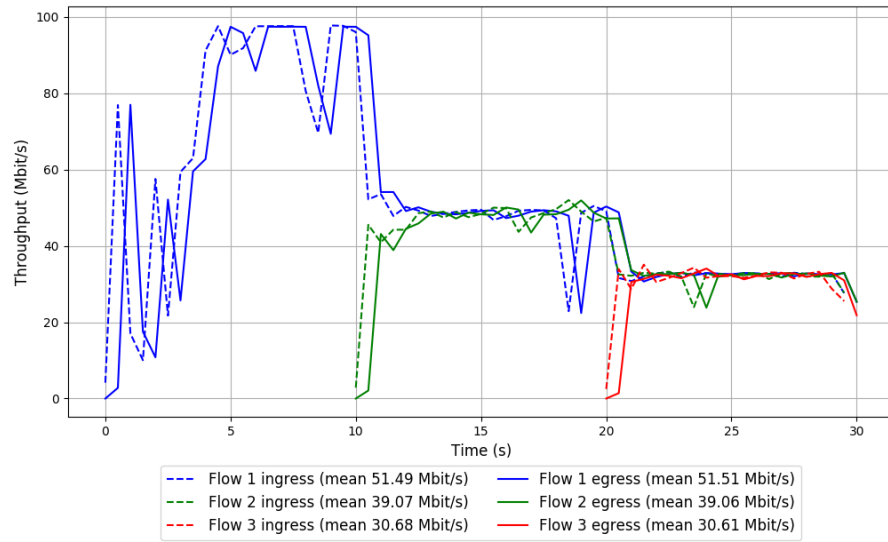


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 06:03:28
End at: 2018-06-06 06:03:58
Local clock offset: 1.618 ms
Remote clock offset: -1.787 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 41.470 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: 37.754 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 49.081 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 59.092 ms
Loss rate: 0.79%

Run 10: Report of QUIC Cubic — Data Link

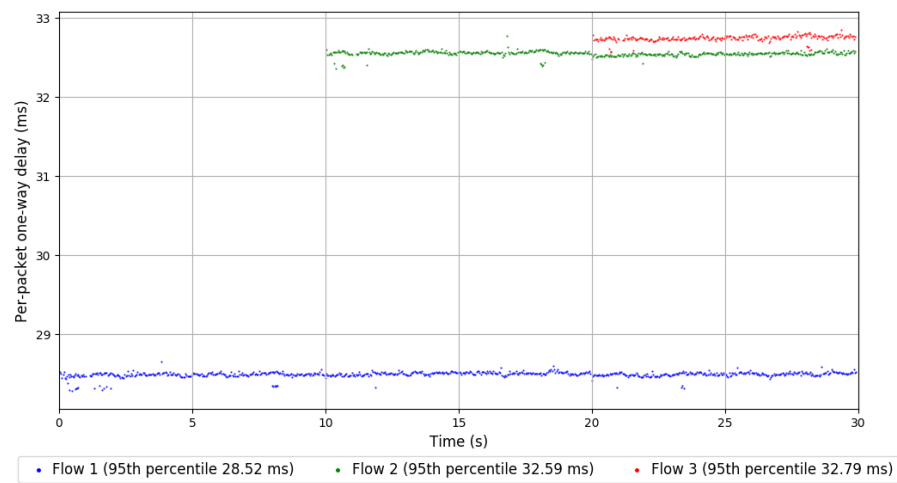
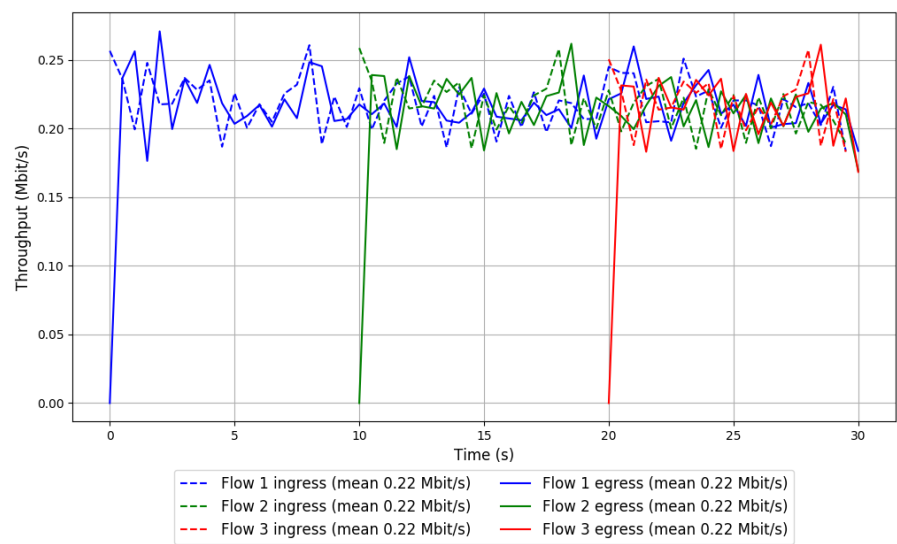


```
Run 1: Statistics of SReAM

Start at: 2018-06-06 02:54:45
End at: 2018-06-06 02:55:15
Local clock offset: 0.482 ms
Remote clock offset: -2.19 ms

# Below is generated by plot.py at 2018-06-06 06:43:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 32.761 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.525 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.586 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.790 ms
Loss rate: 0.71%
```

Run 1: Report of SReAM — Data Link

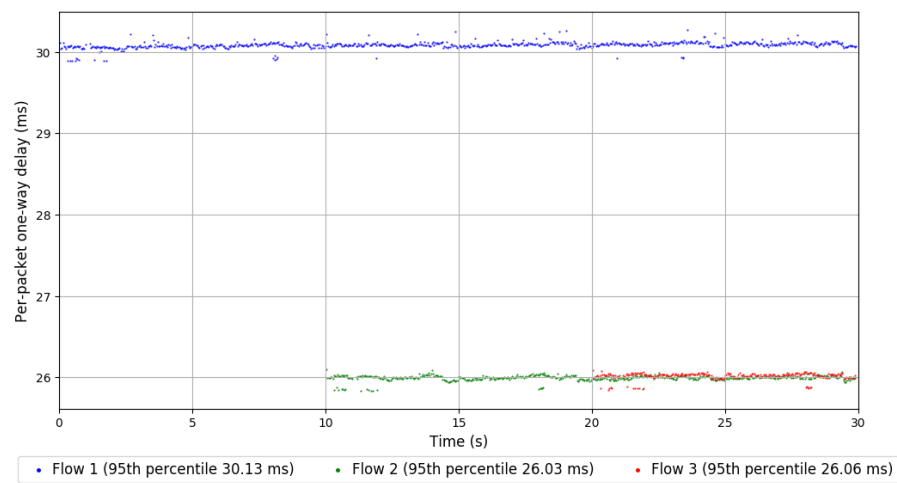
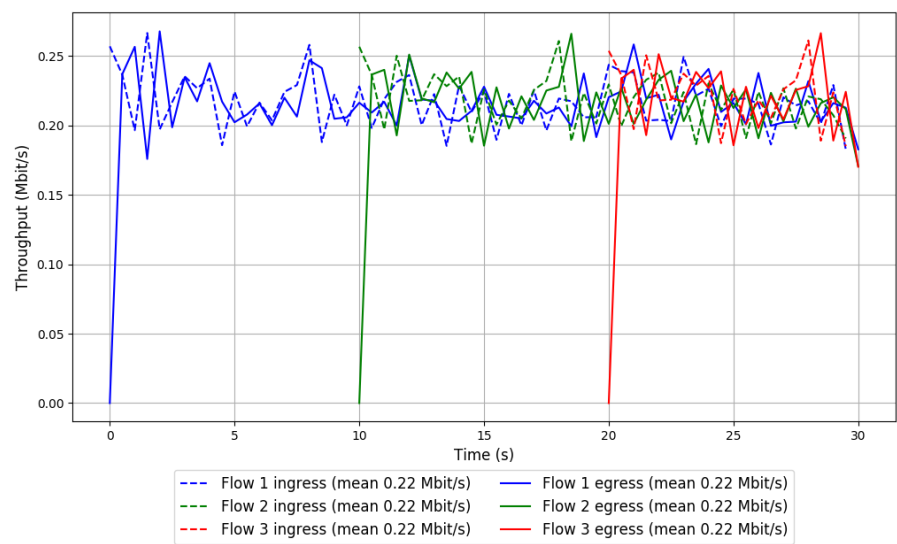


```
Run 2: Statistics of SReAM

Start at: 2018-06-06 03:16:17
End at: 2018-06-06 03:16:47
Local clock offset: 0.839 ms
Remote clock offset: 0.648 ms

# Below is generated by plot.py at 2018-06-06 06:43:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.123 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.032 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.057 ms
Loss rate: 0.70%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-06 03:37:50

End at: 2018-06-06 03:38:20

Local clock offset: 1.15 ms

Remote clock offset: 0.121 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.597 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.603 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.587 ms

Loss rate: 0.40%

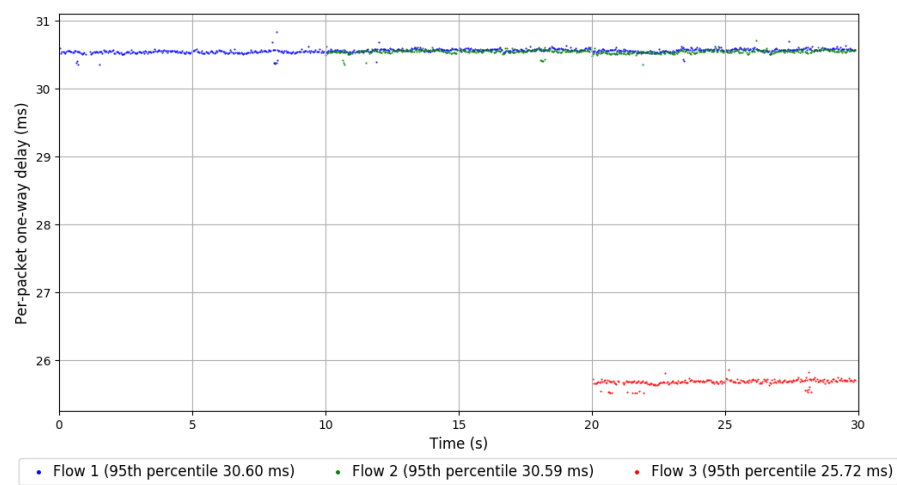
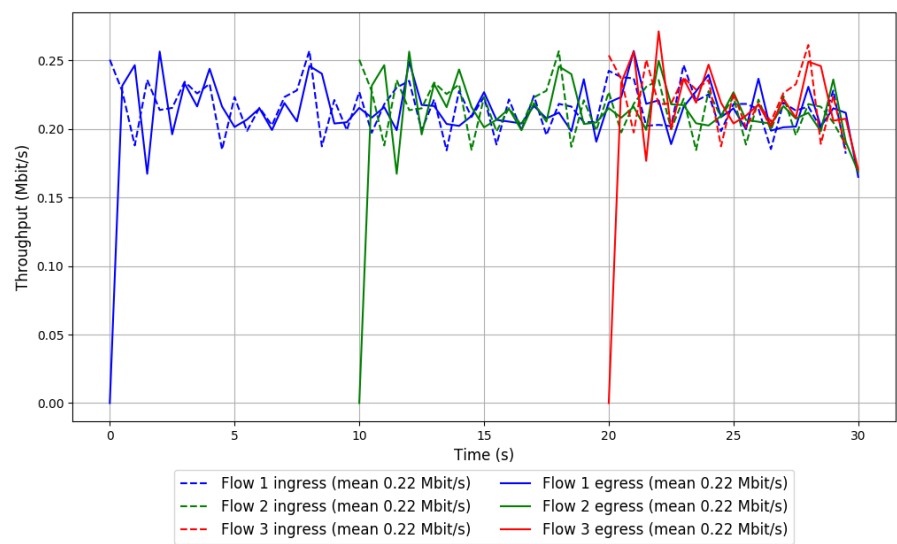
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.721 ms

Loss rate: 0.70%

Run 3: Report of SReAM — Data Link

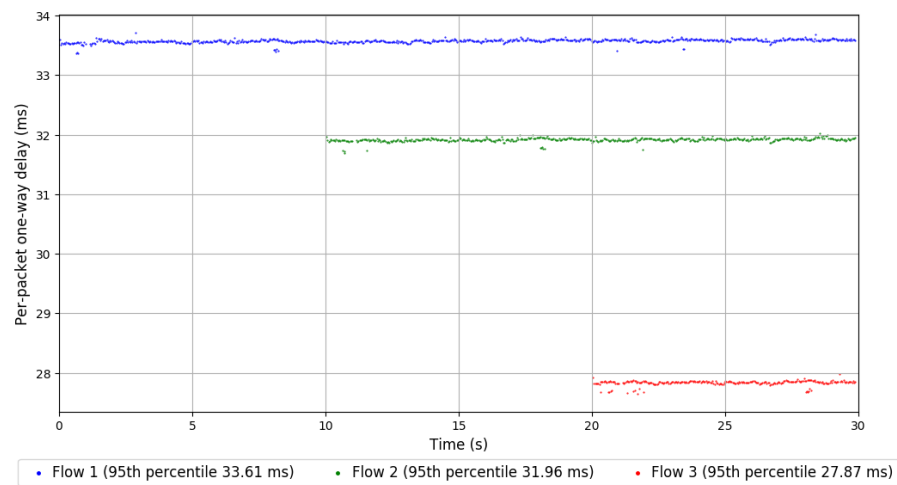
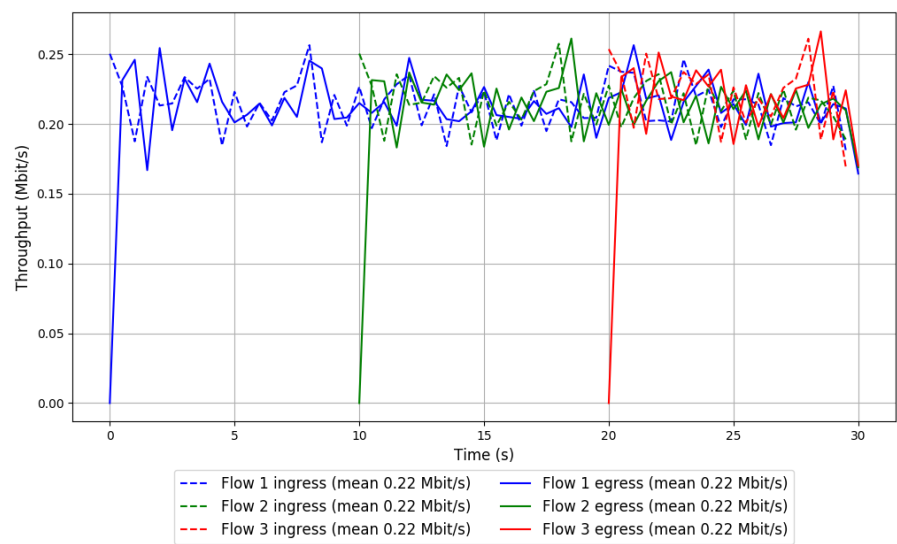


Run 4: Statistics of SReAM

Start at: 2018-06-06 03:59:25
End at: 2018-06-06 03:59:55
Local clock offset: 1.452 ms
Remote clock offset: -1.704 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 33.605 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 33.612 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.957 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.874 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-06 04:21:08

End at: 2018-06-06 04:21:38

Local clock offset: 0.584 ms

Remote clock offset: 0.447 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.060 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.066 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.337 ms

Loss rate: 0.40%

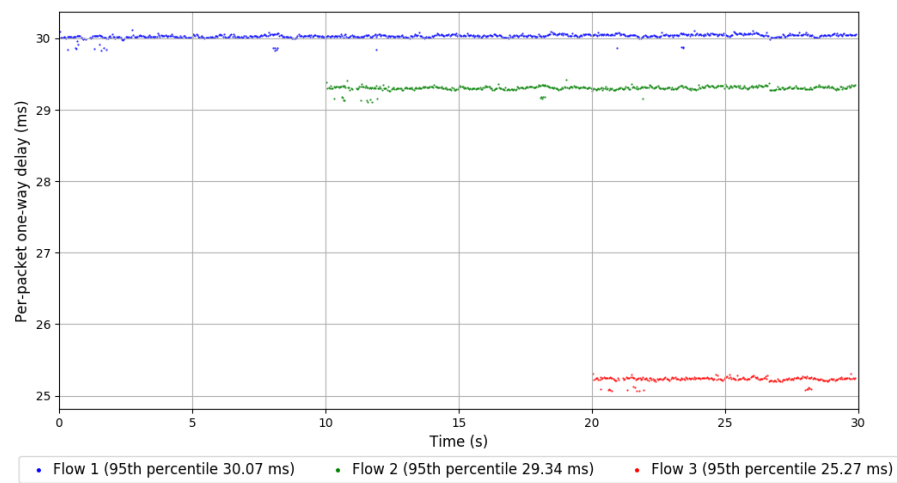
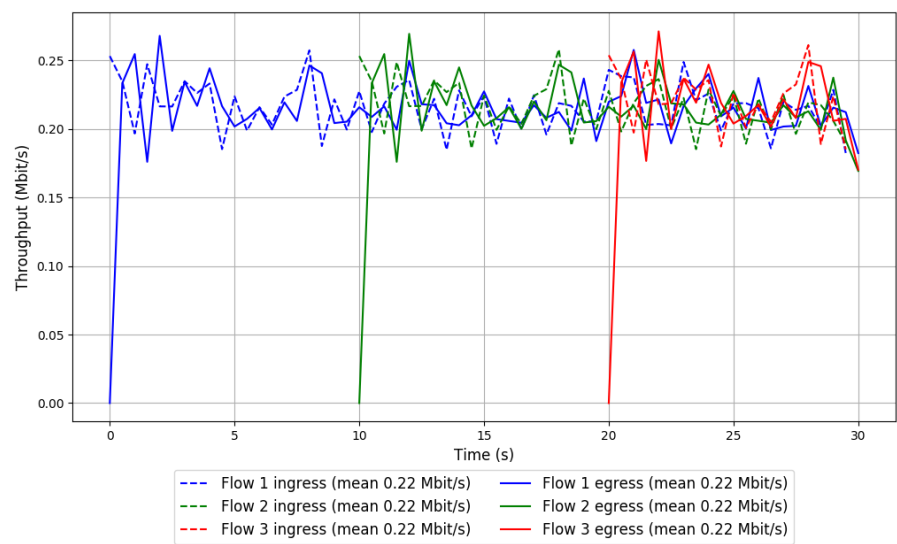
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.271 ms

Loss rate: 0.70%

Run 5: Report of SReAM — Data Link

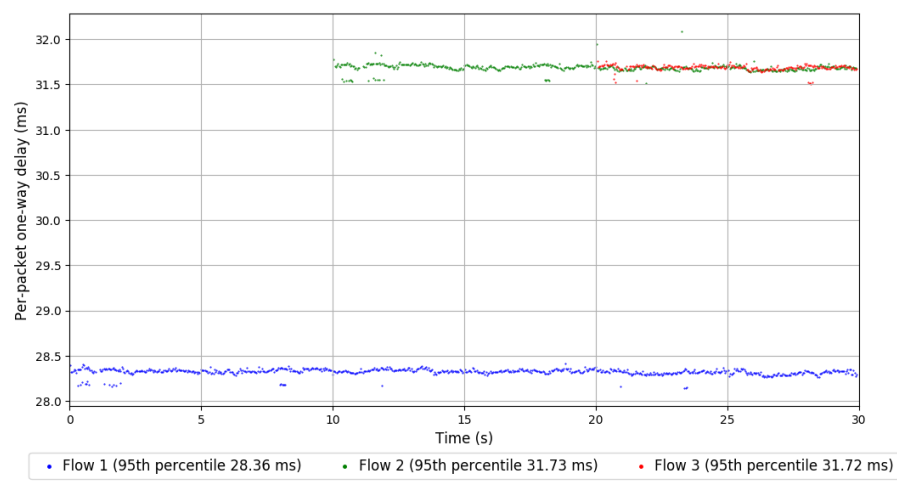
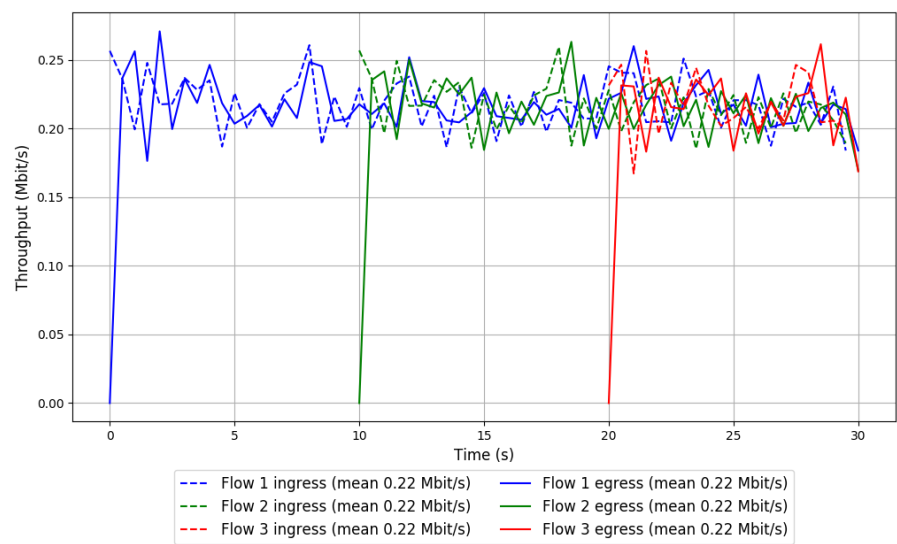


Run 6: Statistics of SReAM

Start at: 2018-06-06 04:42:38
End at: 2018-06-06 04:43:08
Local clock offset: 0.41 ms
Remote clock offset: -2.629 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 31.720 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.363 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.729 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.720 ms
Loss rate: 0.71%

Run 6: Report of SReAM — Data Link

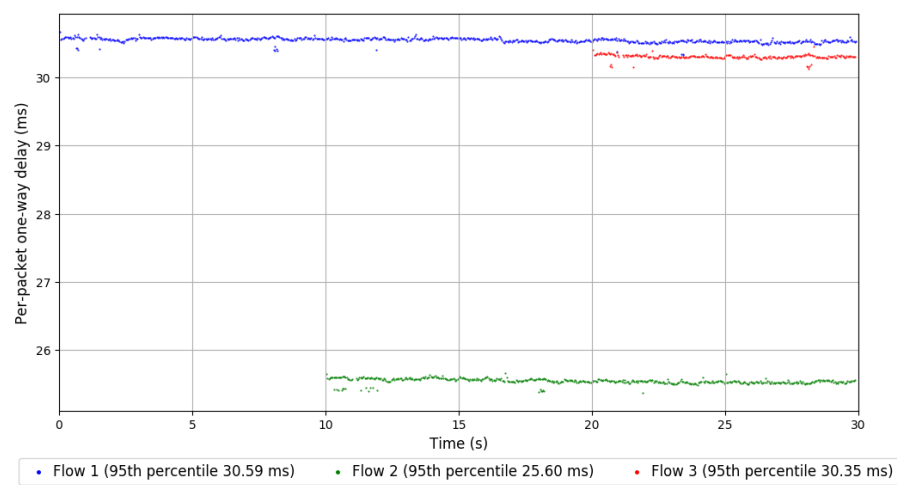
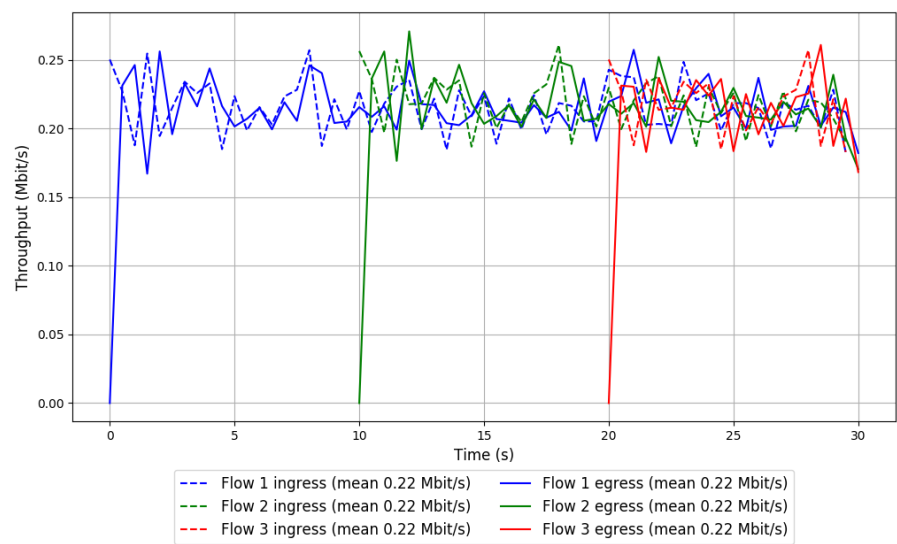


Run 7: Statistics of SReAM

Start at: 2018-06-06 05:04:06
End at: 2018-06-06 05:04:36
Local clock offset: 0.37 ms
Remote clock offset: -1.291 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.585 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.592 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.603 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.346 ms
Loss rate: 0.71%

Run 7: Report of SReAM — Data Link

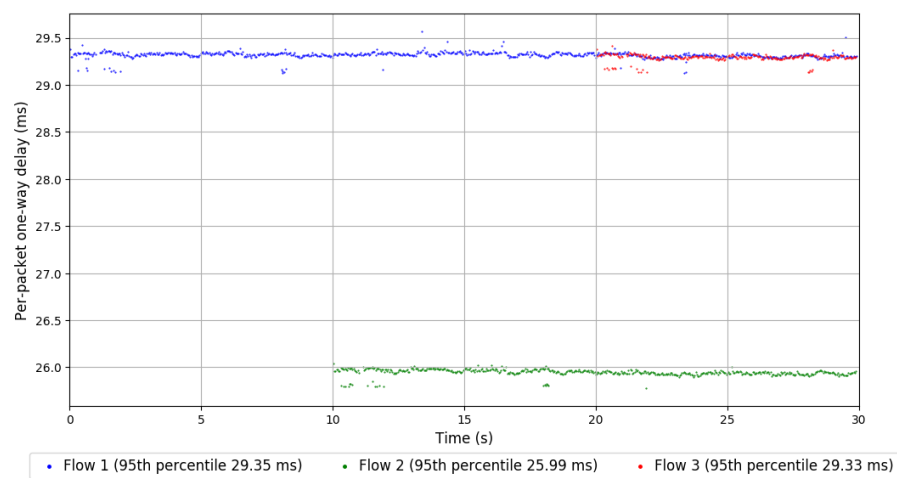
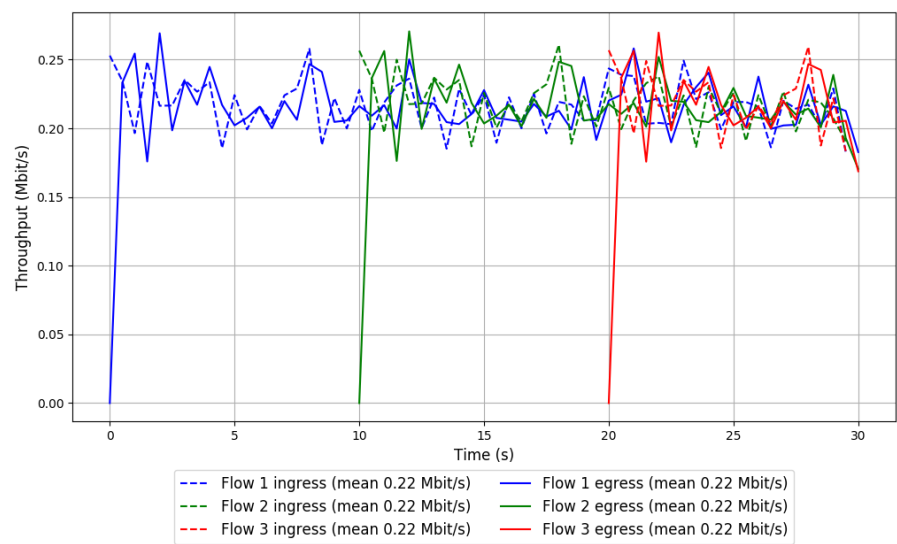


Run 8: Statistics of SReAM

Start at: 2018-06-06 05:25:38
End at: 2018-06-06 05:26:08
Local clock offset: 2.122 ms
Remote clock offset: -1.443 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 29.347 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.353 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.990 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.333 ms
Loss rate: 0.70%

Run 8: Report of SReAM — Data Link

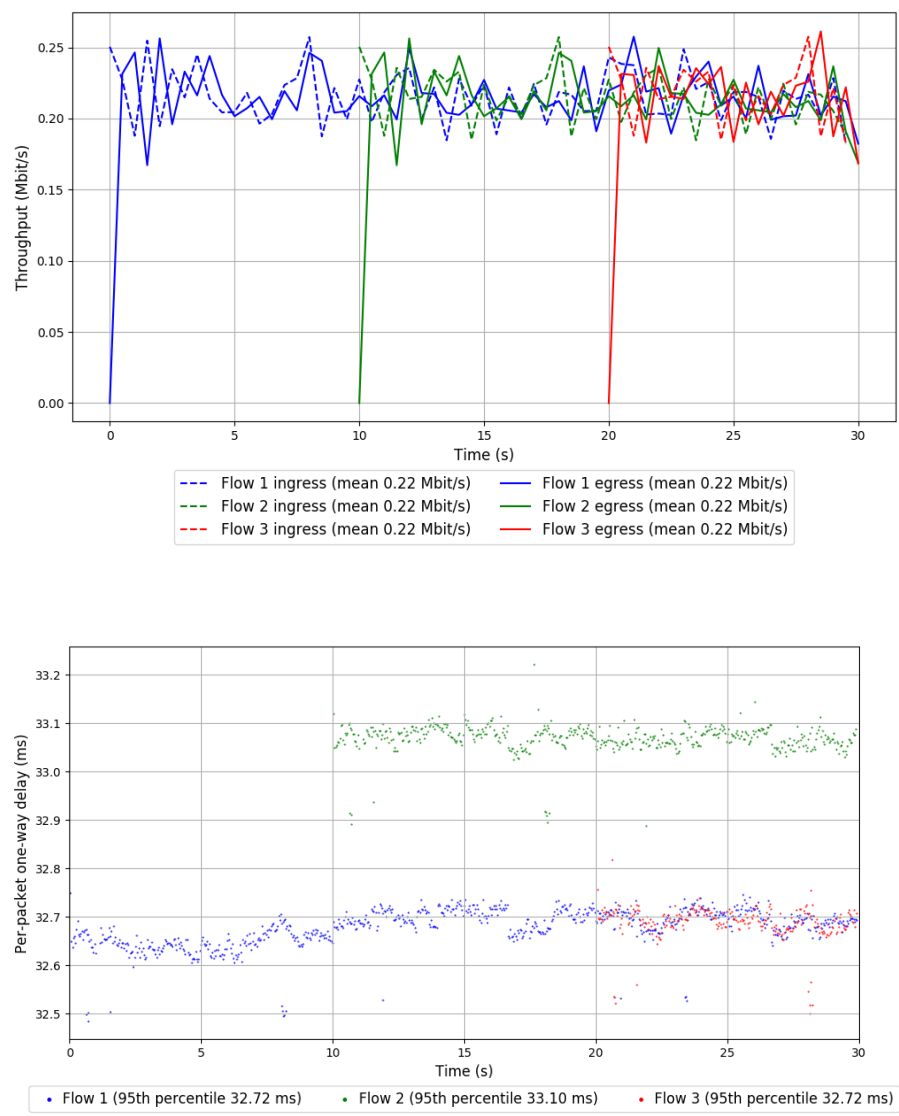


Run 9: Statistics of SReAM

Start at: 2018-06-06 05:47:12
End at: 2018-06-06 05:47:42
Local clock offset: 1.695 ms
Remote clock offset: -4.228 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 33.090 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.723 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 33.099 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 32.722 ms
Loss rate: 0.71%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-06 06:08:43

End at: 2018-06-06 06:09:13

Local clock offset: 1.505 ms

Remote clock offset: -3.79 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 32.641 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.124 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.493 ms

Loss rate: 0.19%

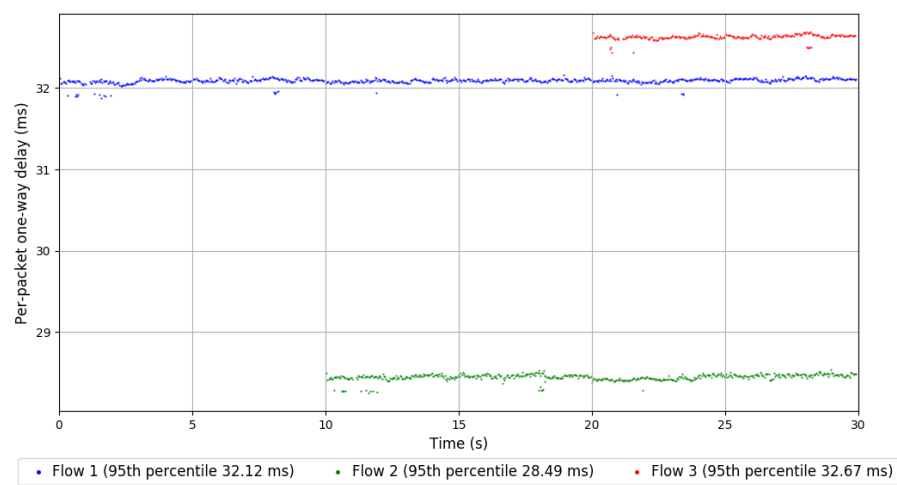
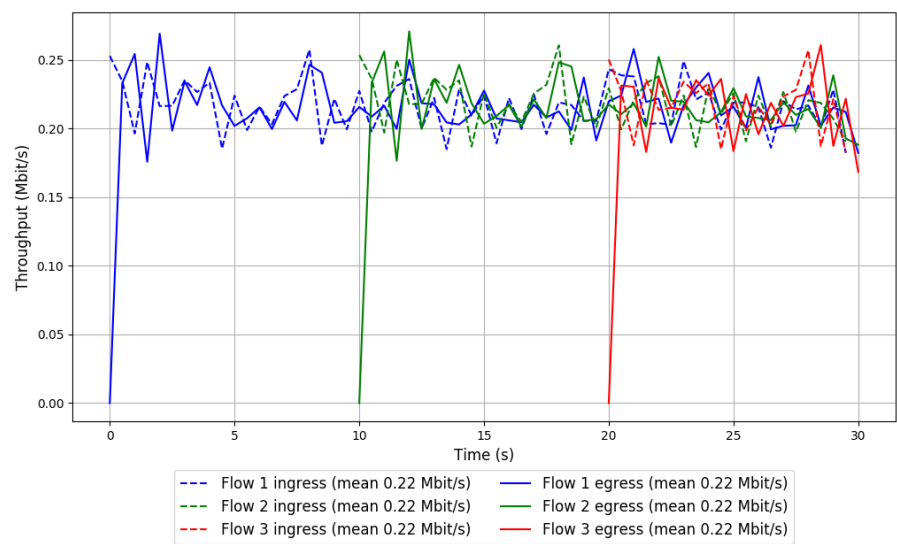
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 32.666 ms

Loss rate: 0.71%

Run 10: Report of SCRaM — Data Link

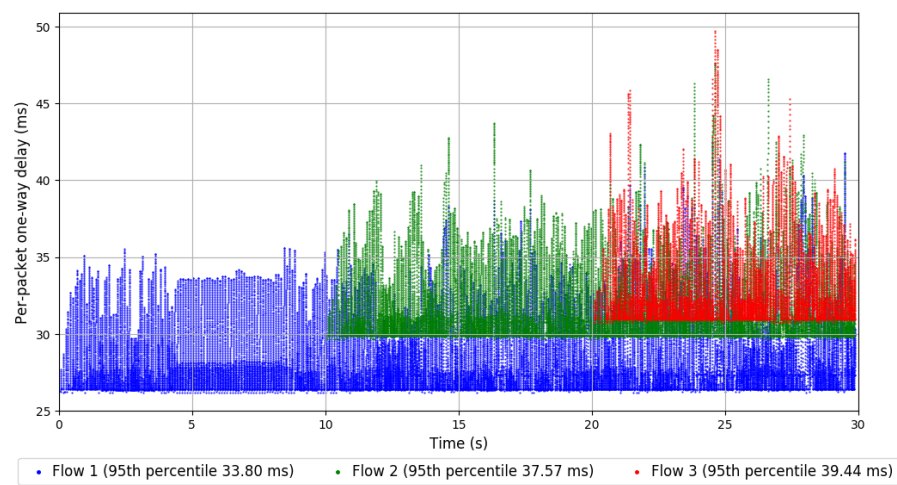
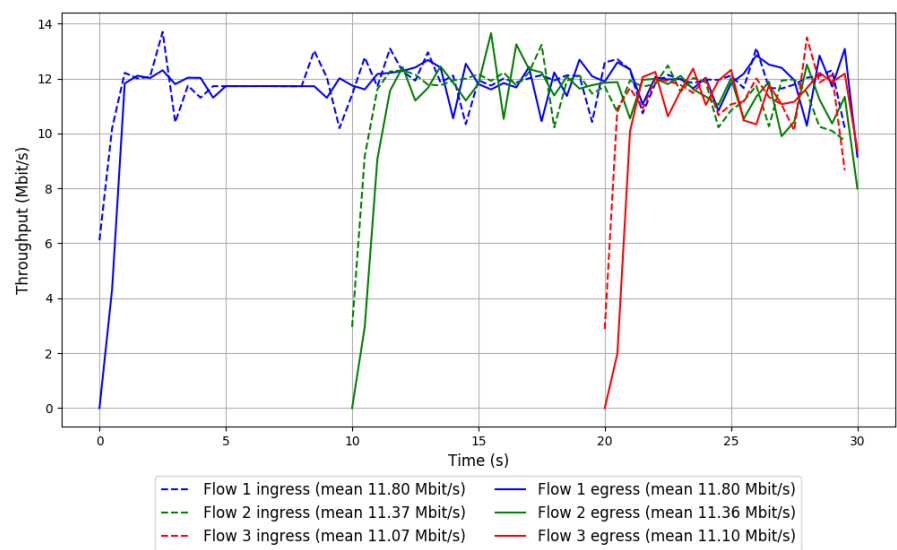


Run 1: Statistics of Sprout

Start at: 2018-06-06 02:52:06
End at: 2018-06-06 02:52:36
Local clock offset: 0.576 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 36.973 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 33.800 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 37.568 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 39.438 ms
Loss rate: 0.35%

Run 1: Report of Sprout — Data Link

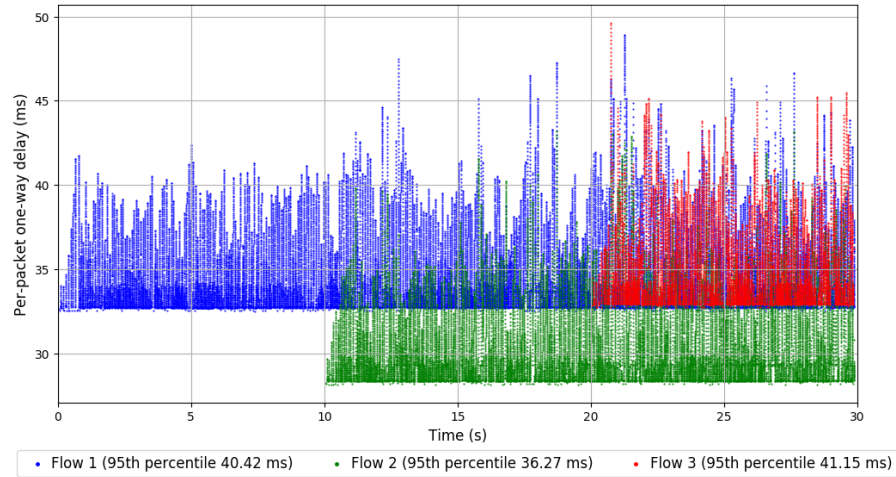
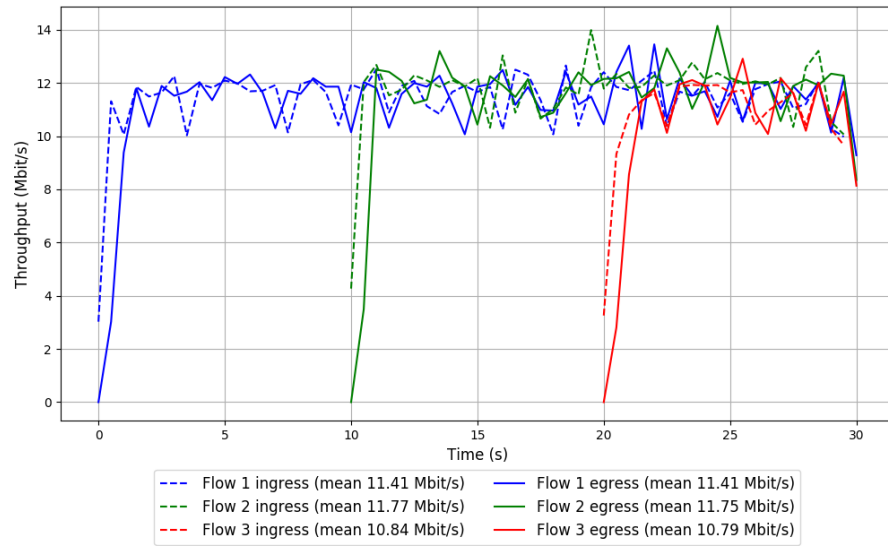


Run 2: Statistics of Sprout

Start at: 2018-06-06 03:13:38
End at: 2018-06-06 03:14:08
Local clock offset: 0.706 ms
Remote clock offset: -1.996 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 39.904 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 40.421 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 36.271 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 10.79 Mbit/s
95th percentile per-packet one-way delay: 41.149 ms
Loss rate: 0.87%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-06 03:35:11

End at: 2018-06-06 03:35:42

Local clock offset: 1.015 ms

Remote clock offset: 0.604 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 33.547 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 32.627 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 34.448 ms

Loss rate: 0.21%

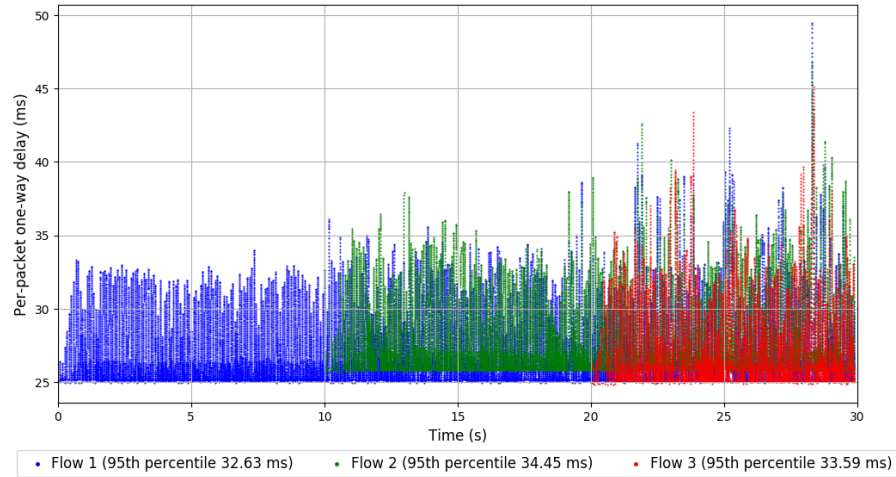
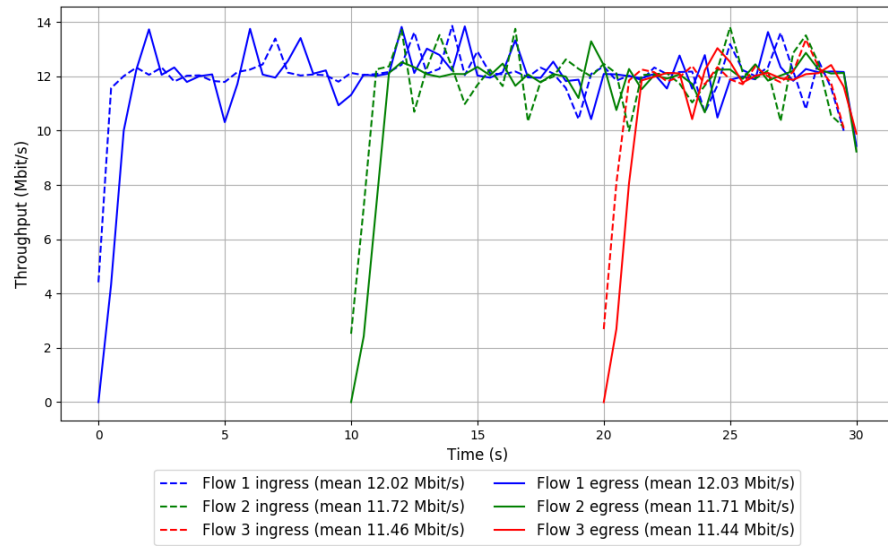
-- Flow 3:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 33.595 ms

Loss rate: 0.79%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-06 03:56:46

End at: 2018-06-06 03:57:16

Local clock offset: 1.404 ms

Remote clock offset: 0.263 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.71 Mbit/s

95th percentile per-packet one-way delay: 37.066 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 11.60 Mbit/s

95th percentile per-packet one-way delay: 36.796 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 37.142 ms

Loss rate: 0.42%

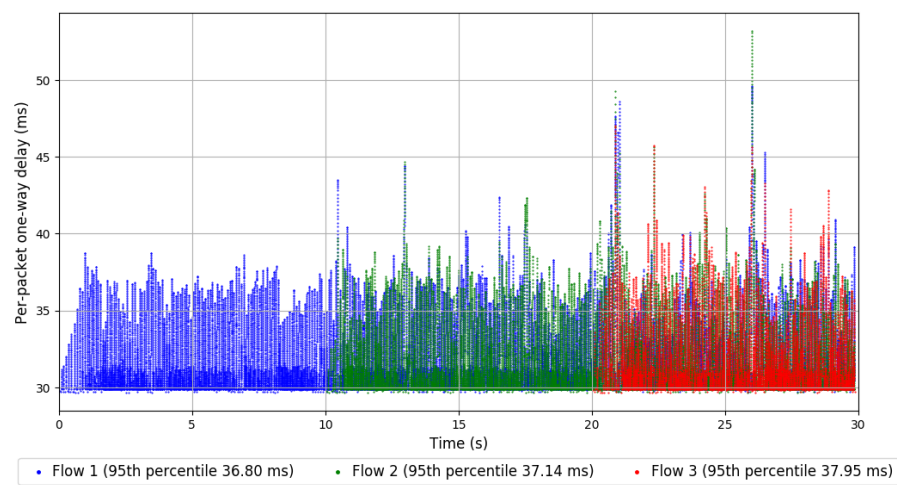
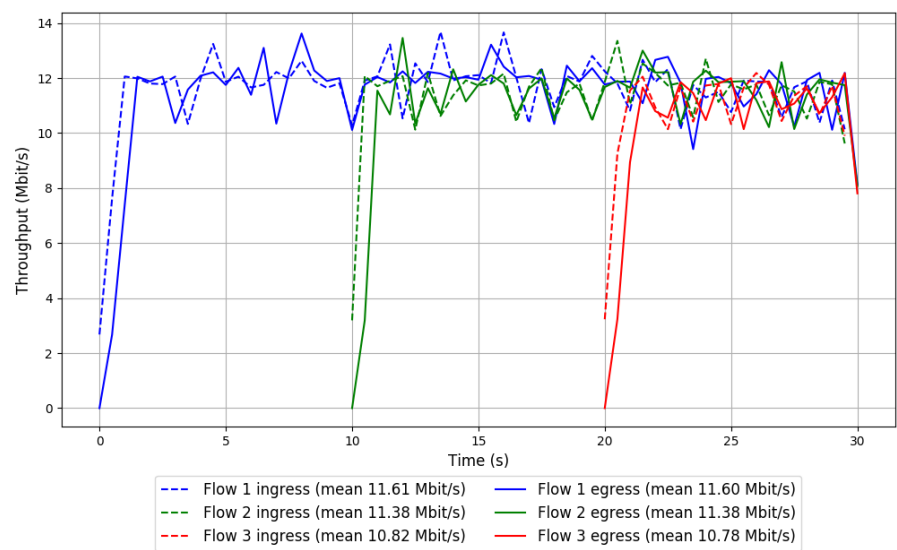
-- Flow 3:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 37.947 ms

Loss rate: 1.06%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-06 04:18:30

End at: 2018-06-06 04:19:00

Local clock offset: 0.731 ms

Remote clock offset: 0.427 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 22.87 Mbit/s

95th percentile per-packet one-way delay: 36.941 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 37.206 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 36.957 ms

Loss rate: 0.43%

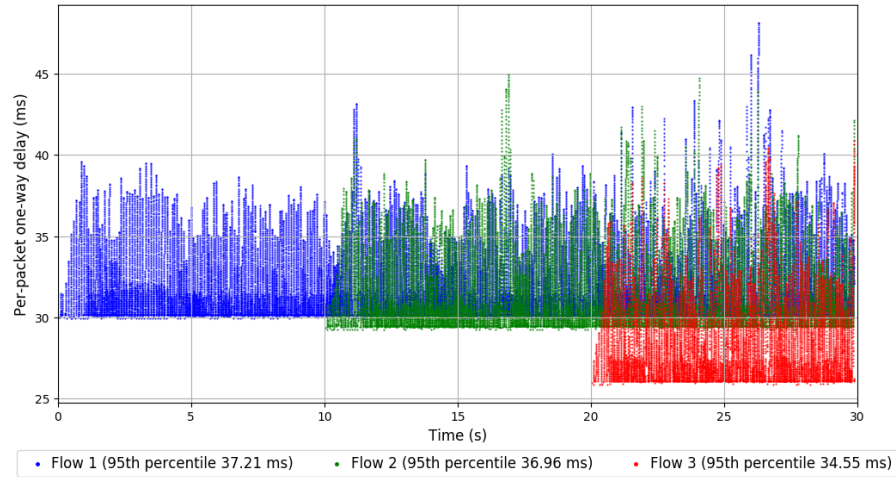
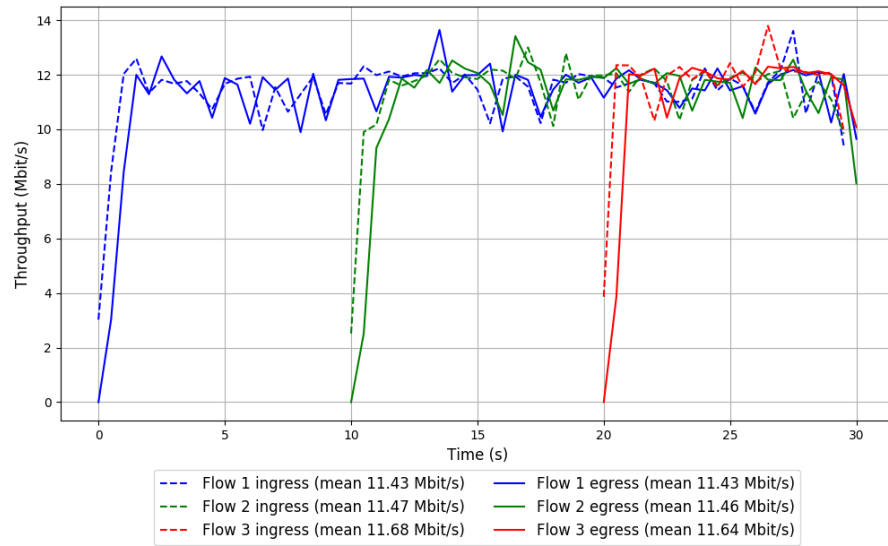
-- Flow 3:

Average throughput: 11.64 Mbit/s

95th percentile per-packet one-way delay: 34.548 ms

Loss rate: 0.80%

Run 5: Report of Sprout — Data Link

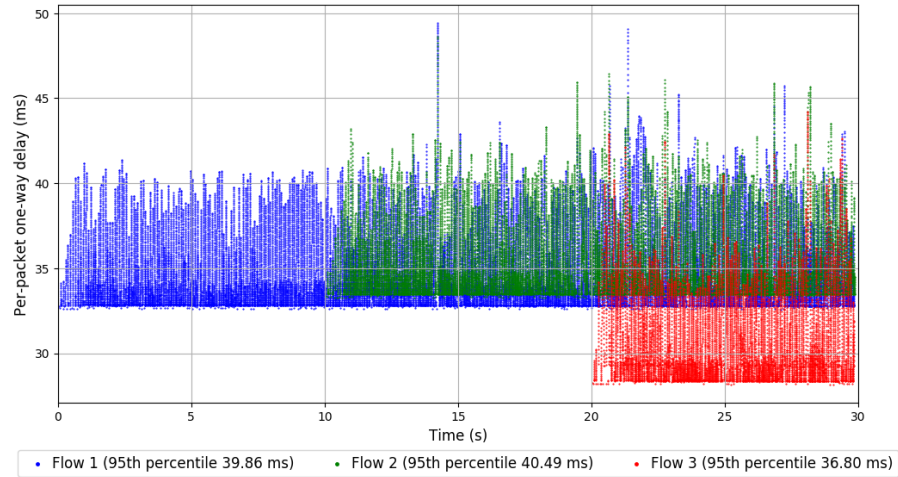
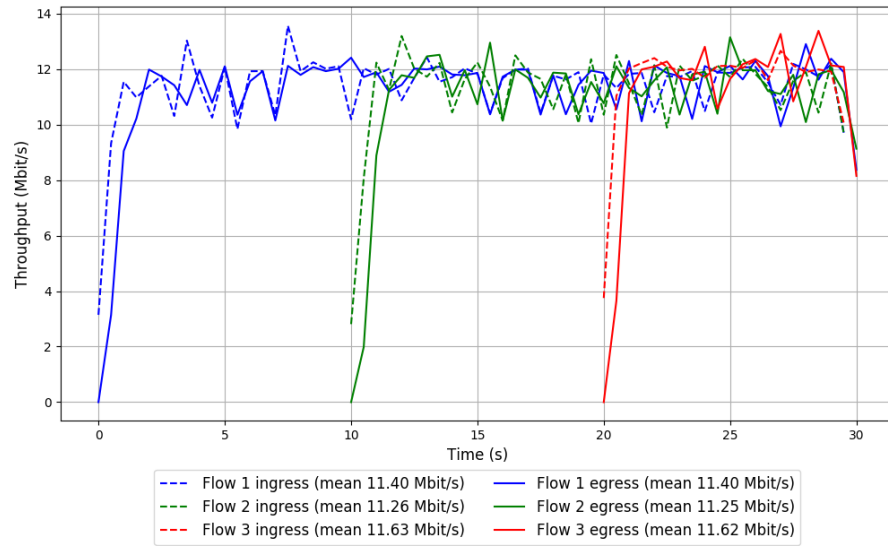


Run 6: Statistics of Sprout

Start at: 2018-06-06 04:40:00
End at: 2018-06-06 04:40:30
Local clock offset: 0.512 ms
Remote clock offset: -2.458 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 39.941 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 39.857 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 40.490 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 36.800 ms
Loss rate: 0.87%

Run 6: Report of Sprout — Data Link

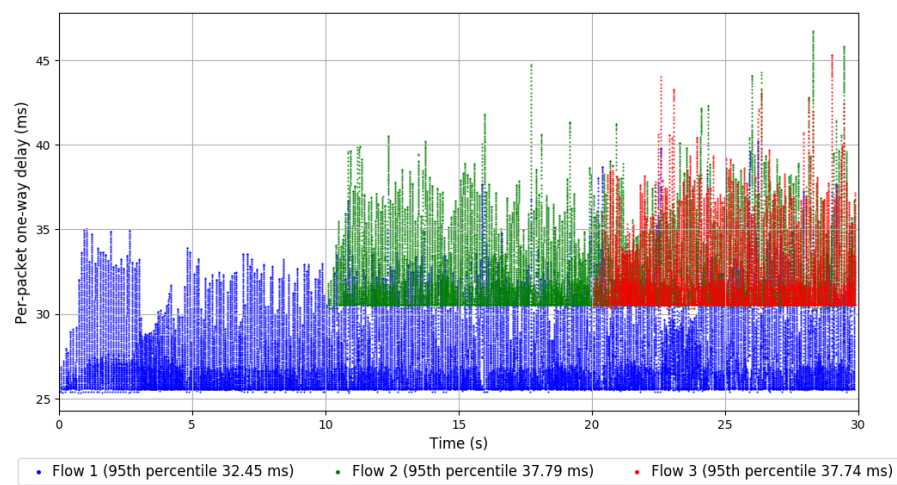
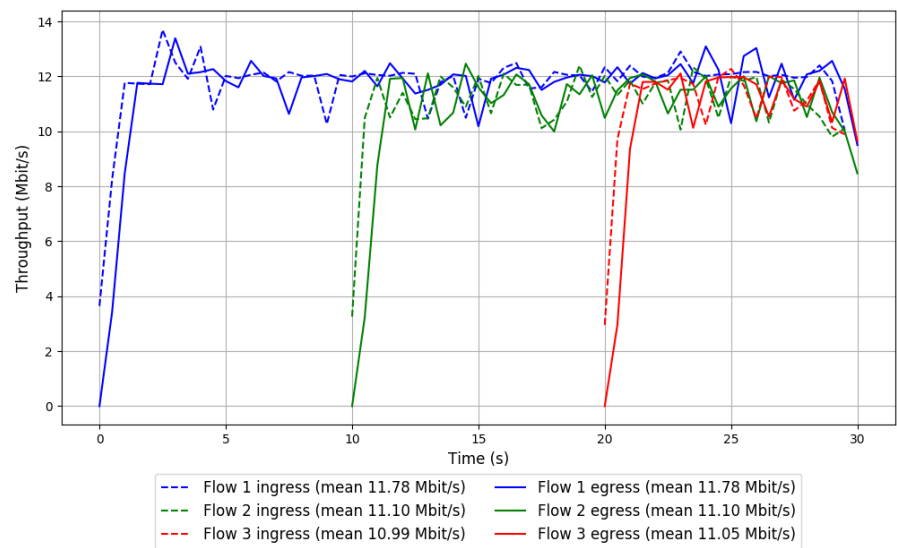


Run 7: Statistics of Sprout

Start at: 2018-06-06 05:01:28
End at: 2018-06-06 05:01:58
Local clock offset: 0.41 ms
Remote clock offset: -1.265 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 36.654 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 32.454 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 37.792 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 37.742 ms
Loss rate: 0.11%

Run 7: Report of Sprout — Data Link

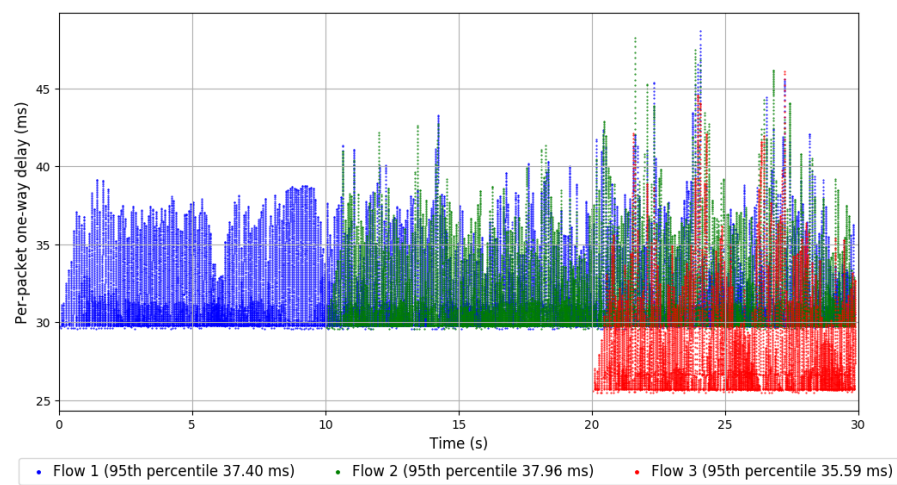
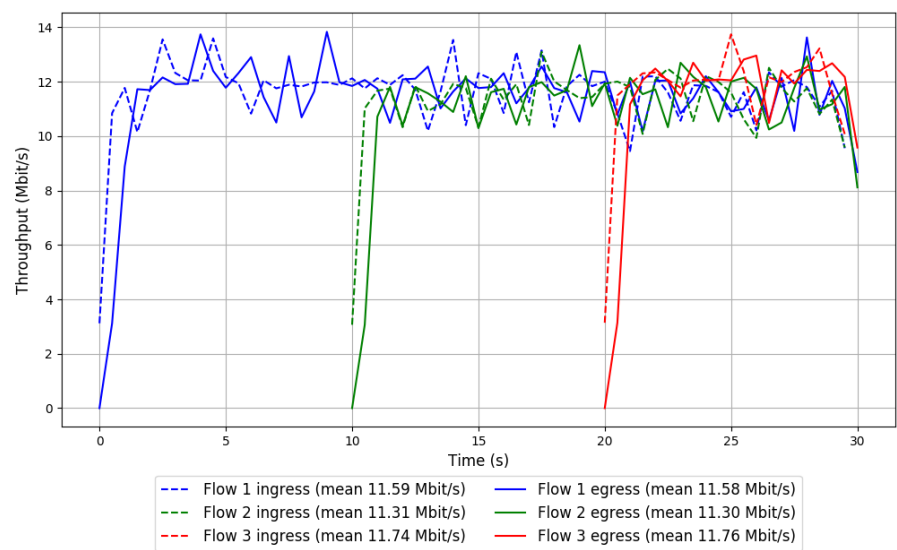


Run 8: Statistics of Sprout

Start at: 2018-06-06 05:23:00
End at: 2018-06-06 05:23:30
Local clock offset: 1.998 ms
Remote clock offset: -1.881 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 37.443 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 37.398 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 37.956 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 35.592 ms
Loss rate: 0.24%

Run 8: Report of Sprout — Data Link

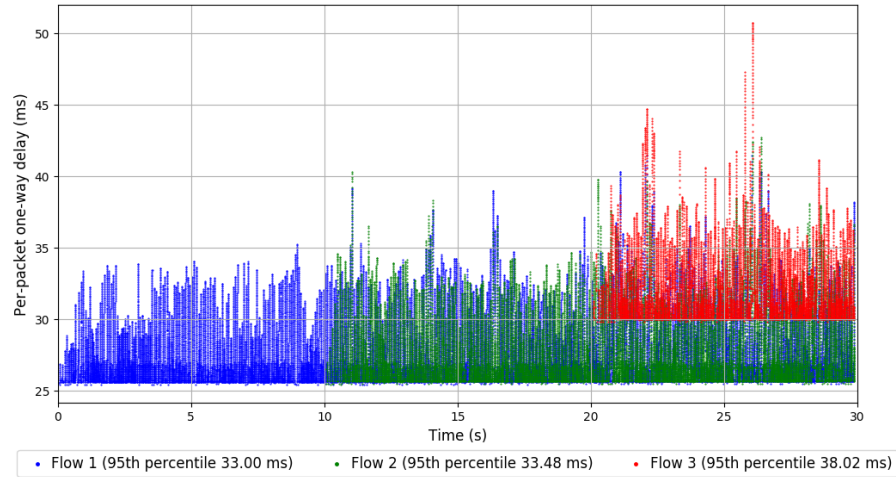
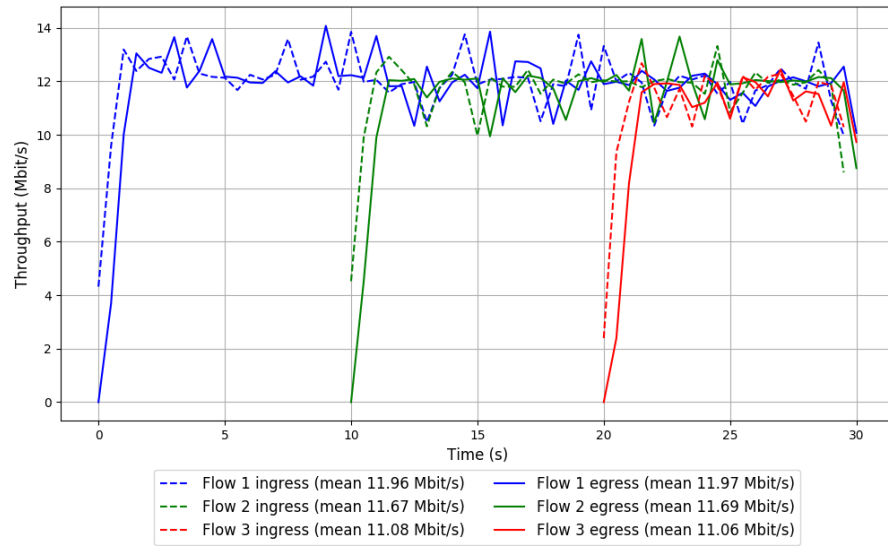


Run 9: Statistics of Sprout

Start at: 2018-06-06 05:44:33
End at: 2018-06-06 05:45:03
Local clock offset: 1.727 ms
Remote clock offset: -2.206 ms

Below is generated by plot.py at 2018-06-06 06:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 34.748 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 32.999 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 33.475 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 38.021 ms
Loss rate: 0.95%

Run 9: Report of Sprout — Data Link

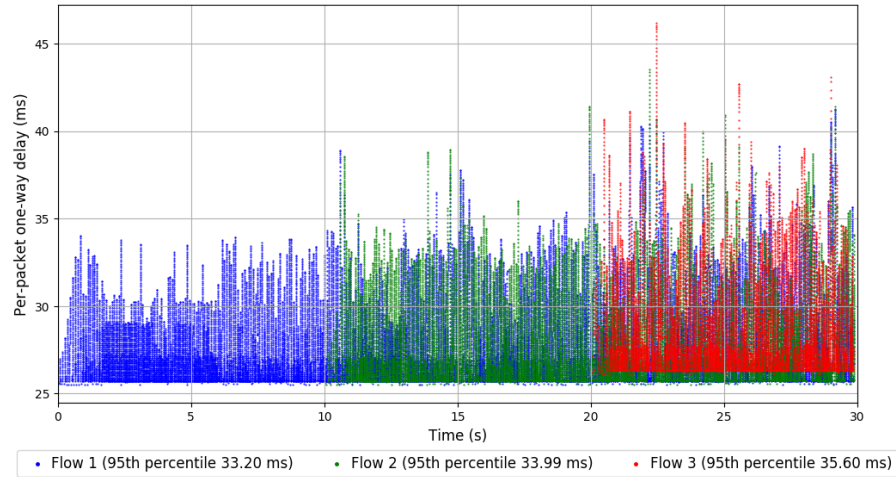
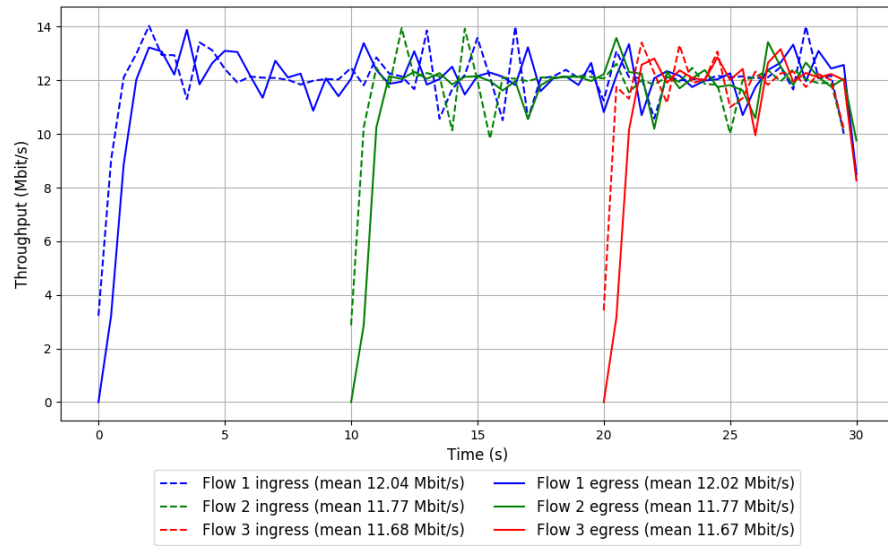


Run 10: Statistics of Sprout

Start at: 2018-06-06 06:06:05
End at: 2018-06-06 06:06:35
Local clock offset: 1.45 ms
Remote clock offset: -1.802 ms

Below is generated by plot.py at 2018-06-06 06:43:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 33.938 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 12.02 Mbit/s
95th percentile per-packet one-way delay: 33.196 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 33.987 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 35.597 ms
Loss rate: 0.84%

Run 10: Report of Sprout — Data Link

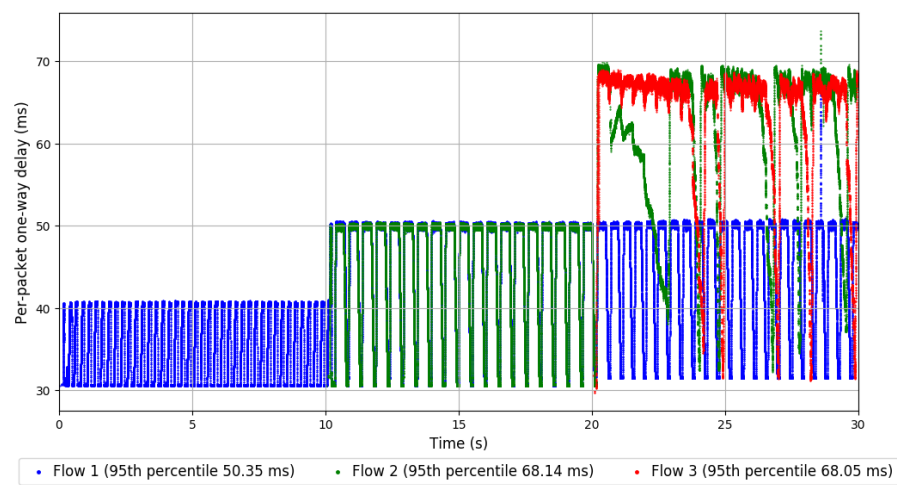
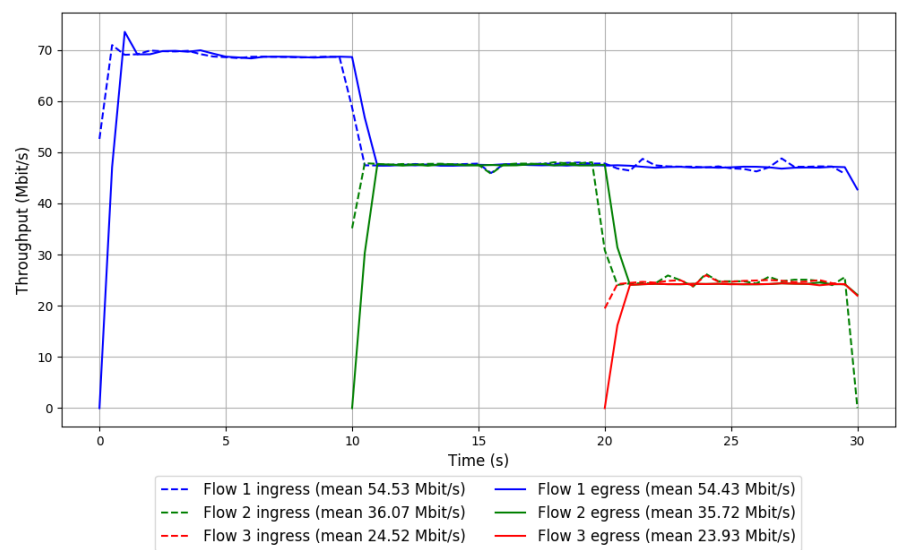


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 02:57:22
End at: 2018-06-06 02:57:52
Local clock offset: 0.494 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-06-06 06:45:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.13 Mbit/s
95th percentile per-packet one-way delay: 67.404 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 50.355 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 68.143 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 23.93 Mbit/s
95th percentile per-packet one-way delay: 68.050 ms
Loss rate: 3.02%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 03:18:54

End at: 2018-06-06 03:19:24

Local clock offset: 0.874 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-06-06 06:45:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.50 Mbit/s

95th percentile per-packet one-way delay: 55.026 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 55.281 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 46.244 ms

Loss rate: 0.58%

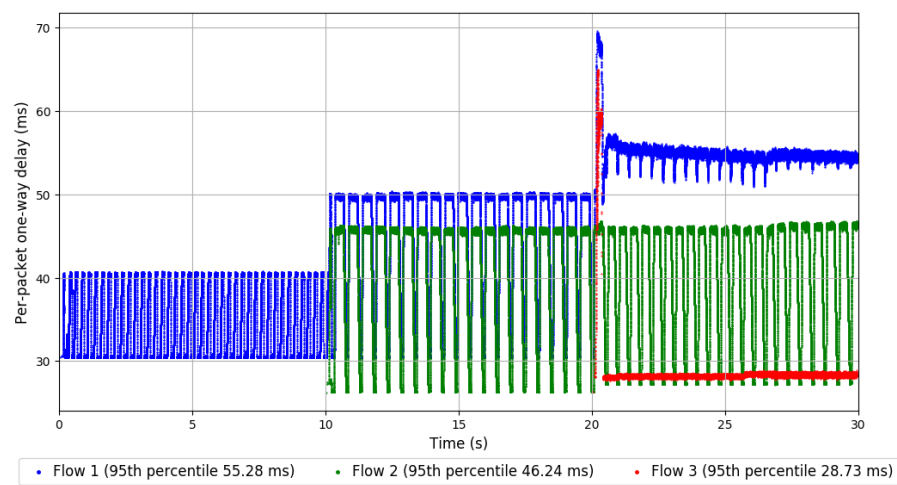
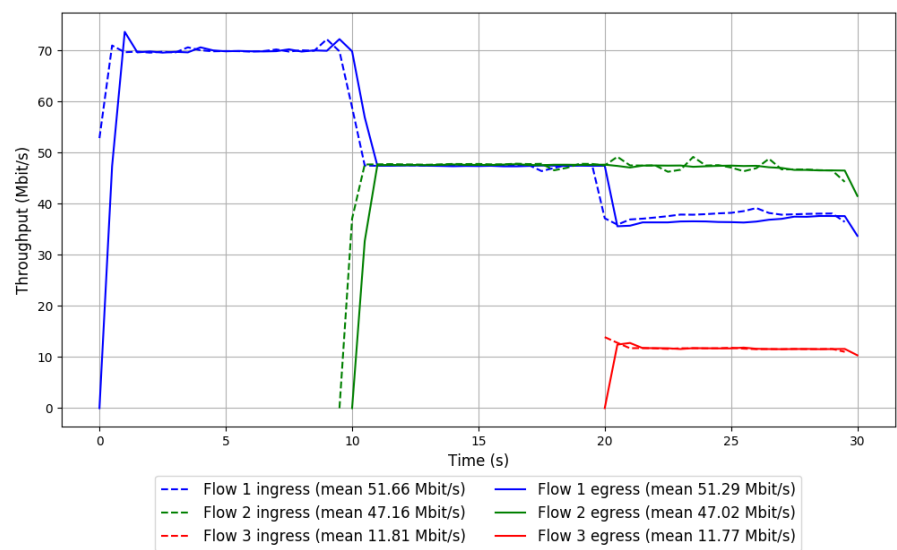
-- Flow 3:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 28.725 ms

Loss rate: 0.91%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 03:40:28

End at: 2018-06-06 03:40:58

Local clock offset: 1.162 ms

Remote clock offset: 0.656 ms

Below is generated by plot.py at 2018-06-06 06:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 68.062 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 67.378 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 46.92 Mbit/s

95th percentile per-packet one-way delay: 49.643 ms

Loss rate: 0.64%

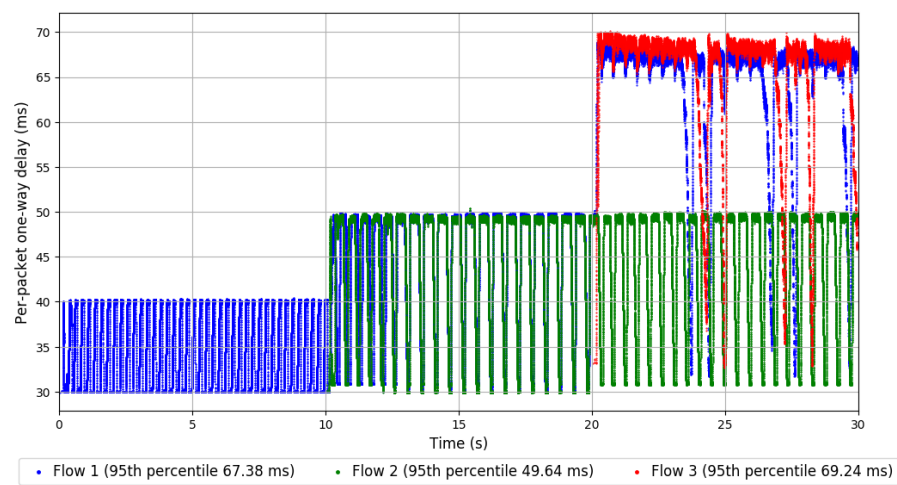
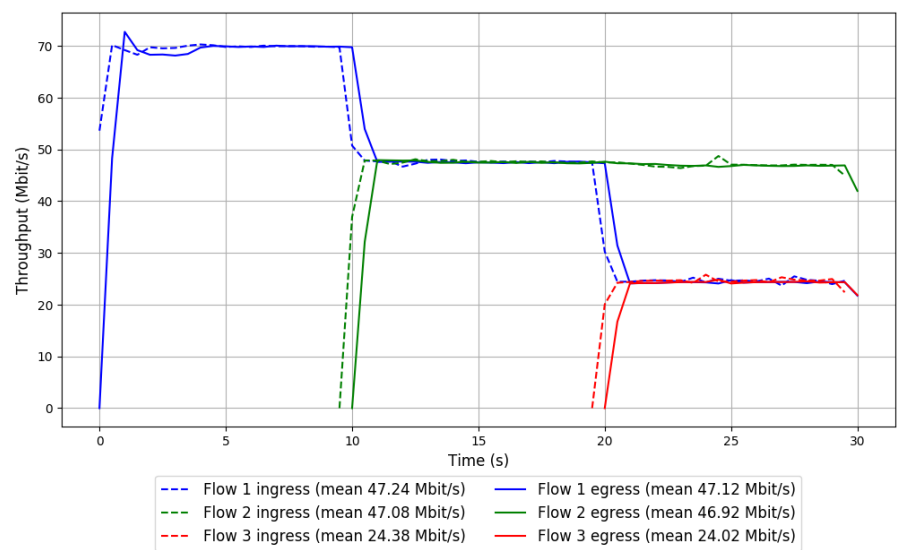
-- Flow 3:

Average throughput: 24.02 Mbit/s

95th percentile per-packet one-way delay: 69.236 ms

Loss rate: 2.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 04:02:15

End at: 2018-06-06 04:02:45

Local clock offset: 1.475 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2018-06-06 06:45:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 67.028 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 47.38 Mbit/s

95th percentile per-packet one-way delay: 62.875 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 67.954 ms

Loss rate: 0.93%

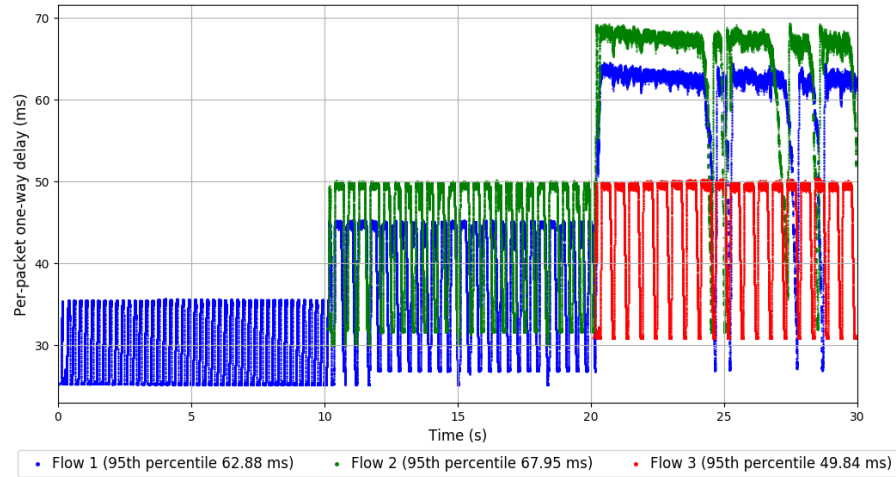
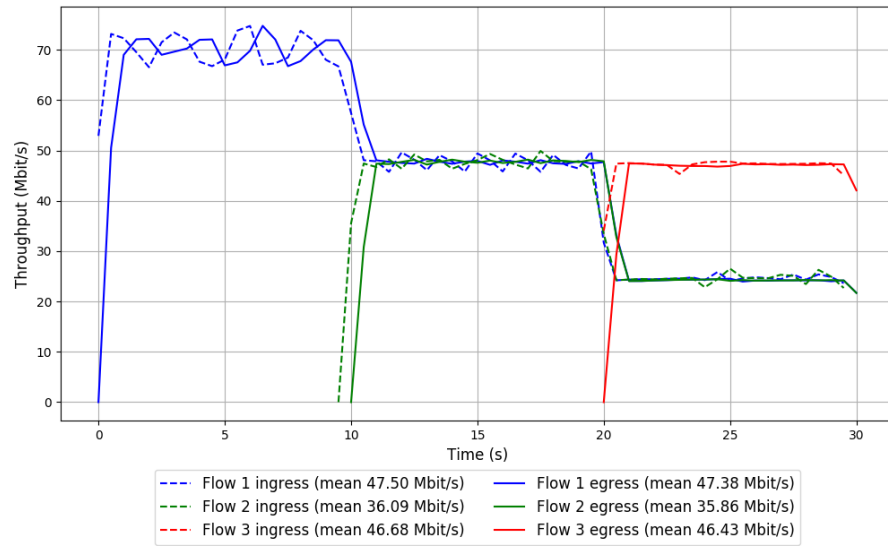
-- Flow 3:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 49.845 ms

Loss rate: 1.14%

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

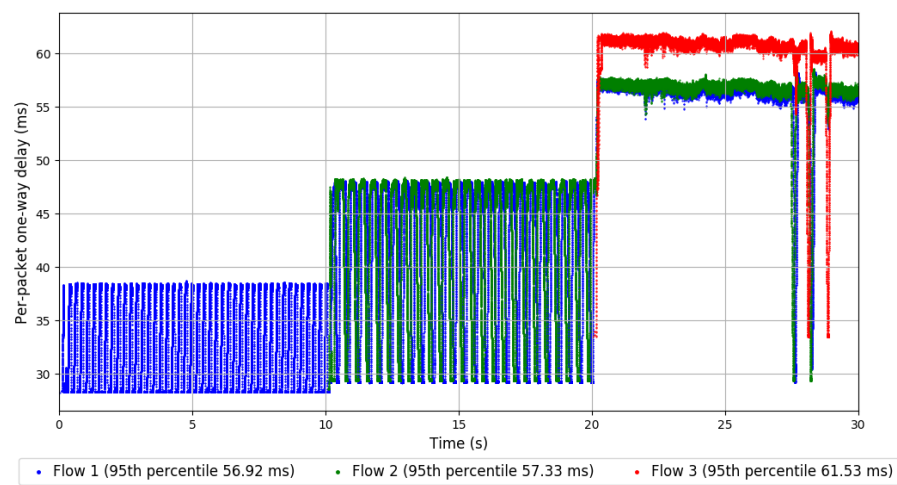
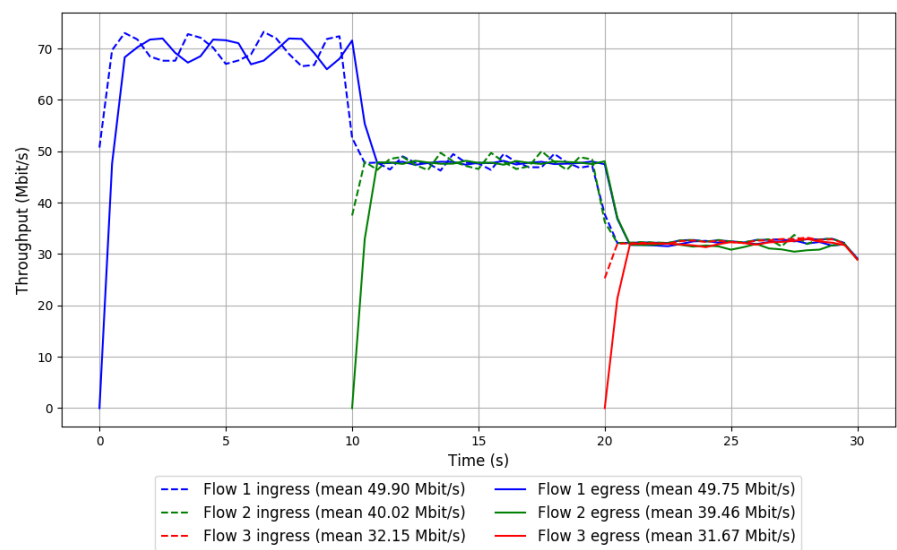


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 04:23:45
End at: 2018-06-06 04:24:15
Local clock offset: 0.645 ms
Remote clock offset: -2.012 ms

Below is generated by plot.py at 2018-06-06 06:45:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 61.034 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 56.924 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 57.327 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 61.526 ms
Loss rate: 2.21%

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

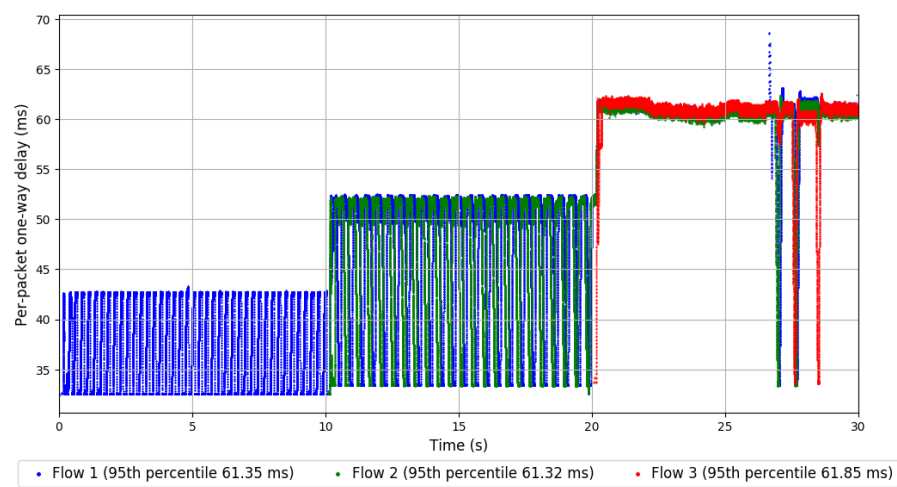
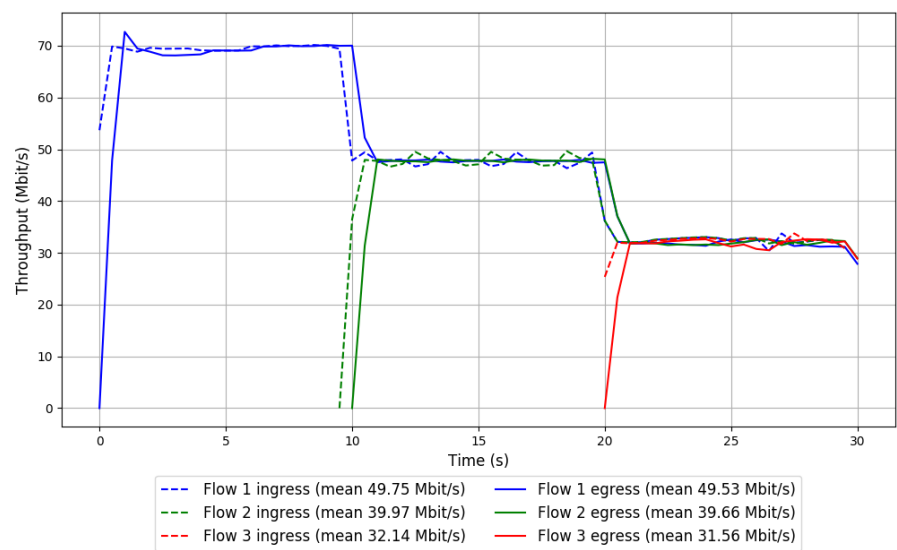


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 04:45:15
End at: 2018-06-06 04:45:45
Local clock offset: 0.494 ms
Remote clock offset: -2.871 ms

Below is generated by plot.py at 2018-06-06 06:45:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 61.472 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 61.353 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 61.318 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 61.852 ms
Loss rate: 2.41%

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

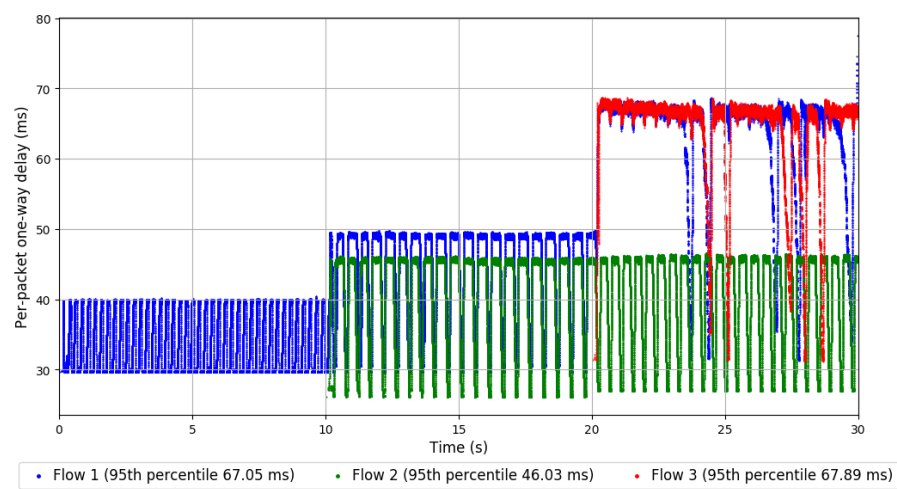
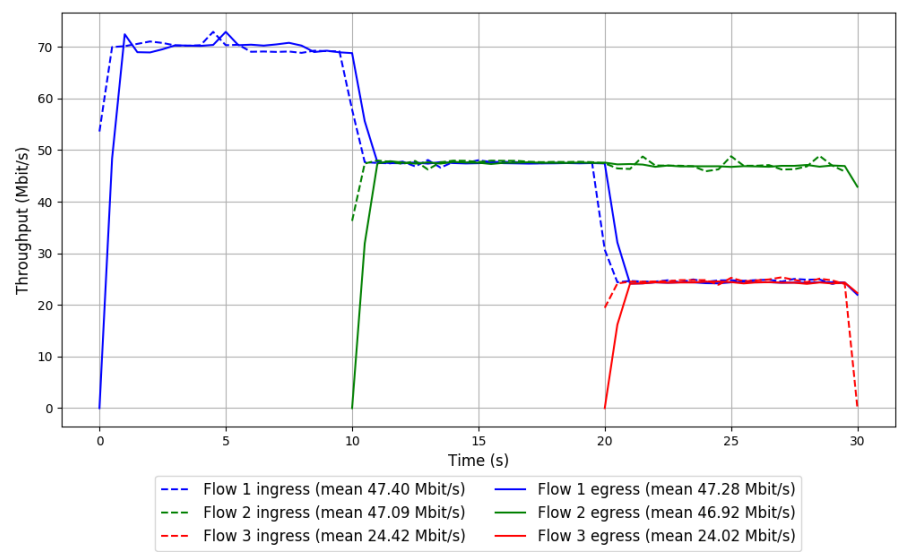


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 05:06:43
End at: 2018-06-06 05:07:13
Local clock offset: 0.835 ms
Remote clock offset: -1.267 ms

Below is generated by plot.py at 2018-06-06 06:45:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.48 Mbit/s
95th percentile per-packet one-way delay: 67.140 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 67.046 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 46.026 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 67.885 ms
Loss rate: 2.45%

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

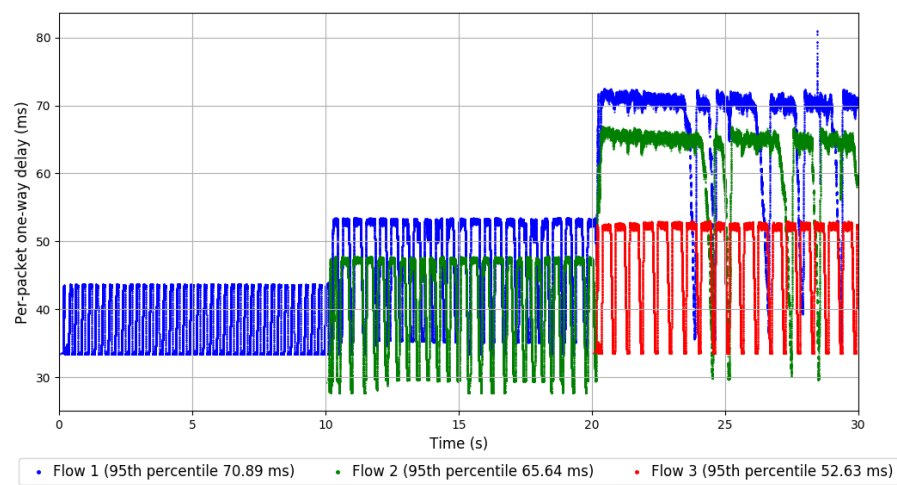
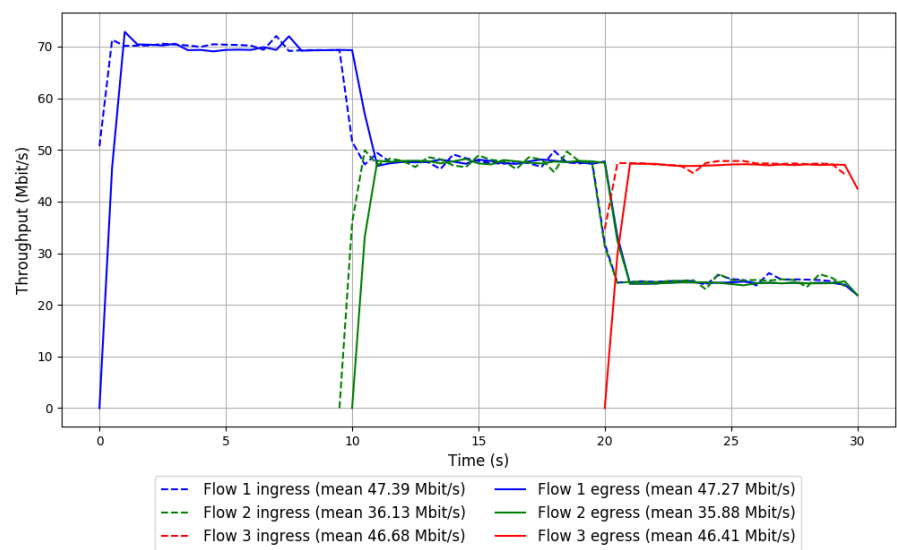


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 05:28:15
End at: 2018-06-06 05:28:45
Local clock offset: 2.18 ms
Remote clock offset: -4.109 ms

Below is generated by plot.py at 2018-06-06 06:45:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 70.269 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 70.891 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 65.640 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 46.41 Mbit/s
95th percentile per-packet one-way delay: 52.631 ms
Loss rate: 1.18%

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

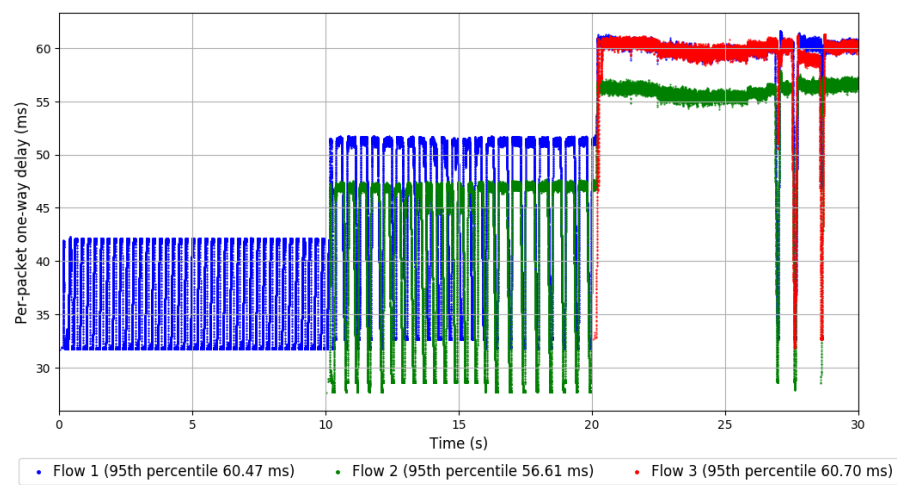
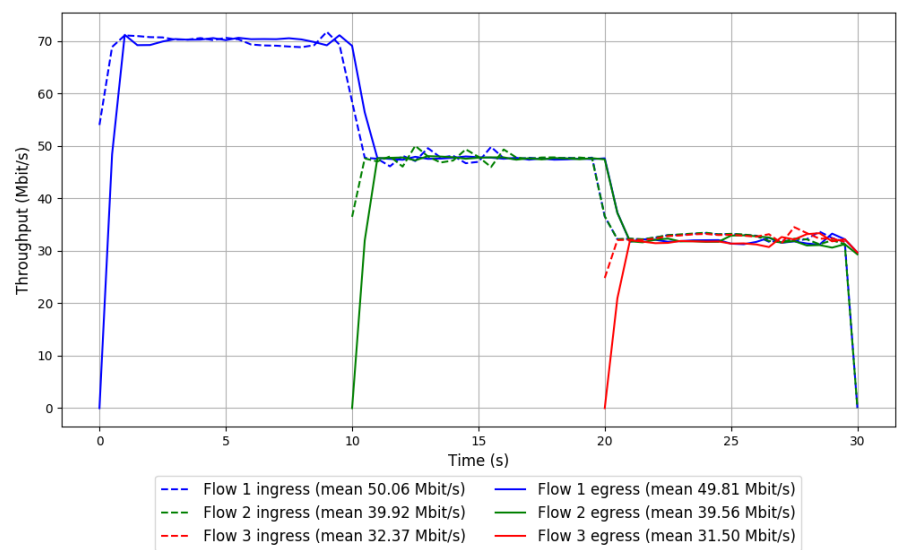


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 05:49:49
End at: 2018-06-06 05:50:19
Local clock offset: 1.561 ms
Remote clock offset: -4.074 ms

Below is generated by plot.py at 2018-06-06 06:47:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 60.465 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 60.470 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 56.607 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 60.702 ms
Loss rate: 3.30%

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



Run 10: Statistics of TaoVA-100x

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

End at: 2018-06-06 06:11:51

Local clock offset: 1.442 ms

Remote clock offset: -1.29 ms

Below is generated by plot.py at 2018-06-06 06:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.41 Mbit/s

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

Loss rate: 0.80%

-- Flow 1:

Average throughput: 54.56 Mbit/s

95th percentile per-packet one-way delay: 49.786 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 35.91 Mbit/s

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

Loss rate: 1.09%

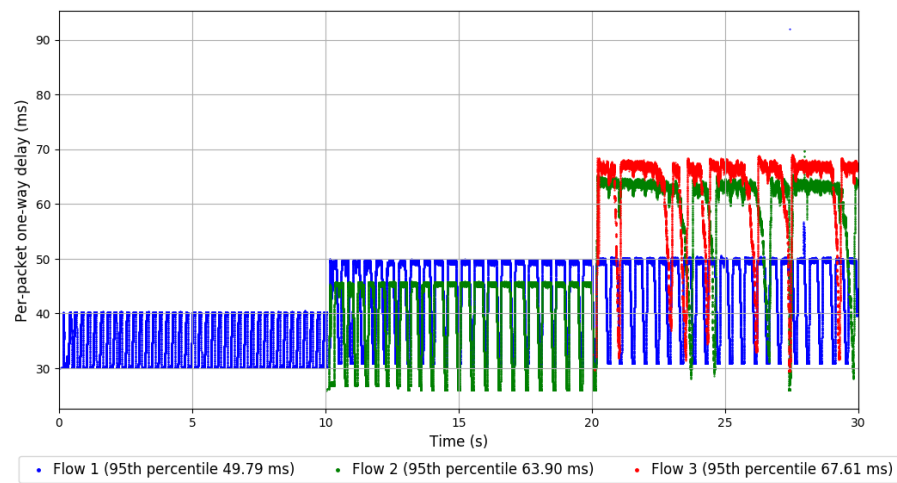
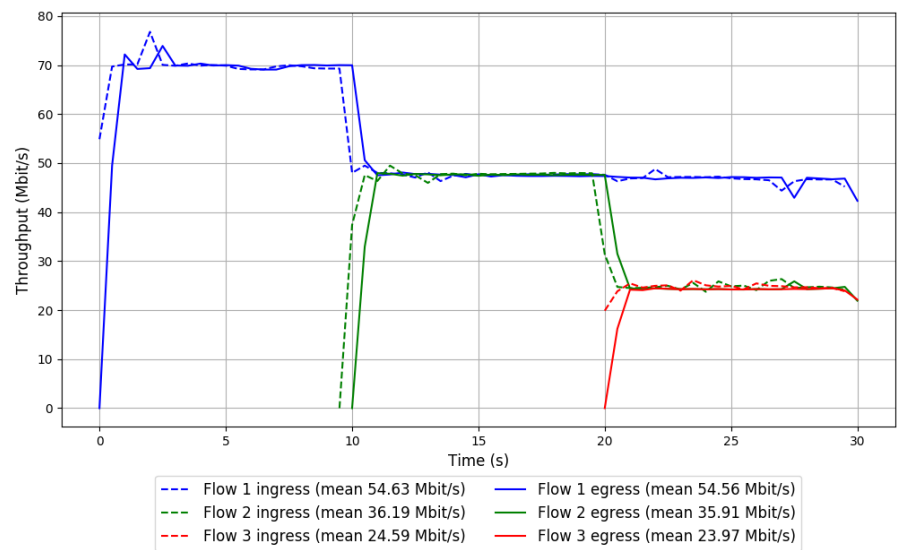
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 67.605 ms

Loss rate: 3.11%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 02:53:25

End at: 2018-06-06 02:53:55

Local clock offset: 0.485 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-06 06:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.06 Mbit/s

95th percentile per-packet one-way delay: 33.796 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 37.078 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 32.693 ms

Loss rate: 0.25%

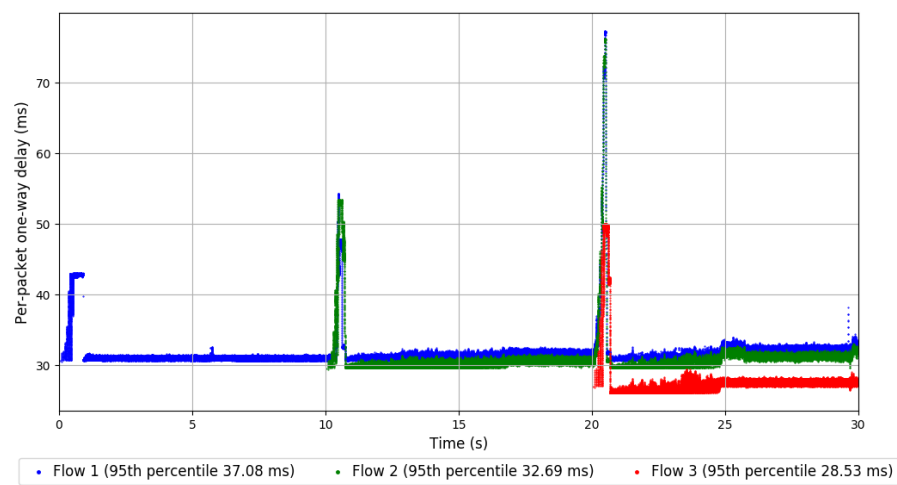
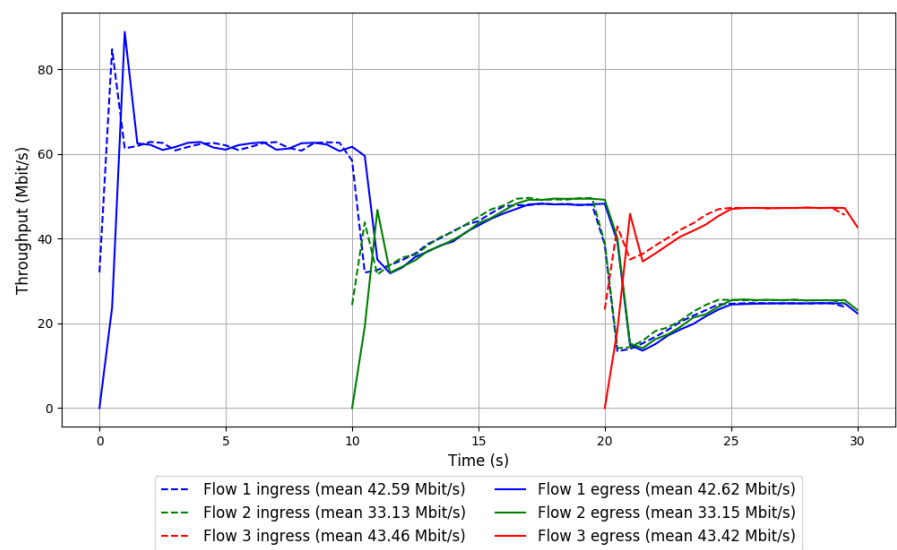
-- Flow 3:

Average throughput: 43.42 Mbit/s

95th percentile per-packet one-way delay: 28.530 ms

Loss rate: 0.64%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 03:14:56

End at: 2018-06-06 03:15:26

Local clock offset: 0.725 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-06 06:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.48 Mbit/s

95th percentile per-packet one-way delay: 28.879 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 29.303 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 29.183 ms

Loss rate: 0.21%

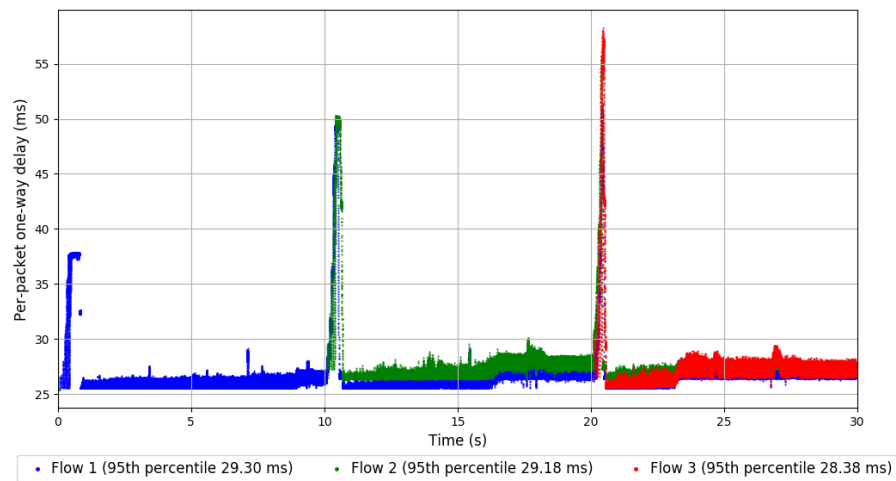
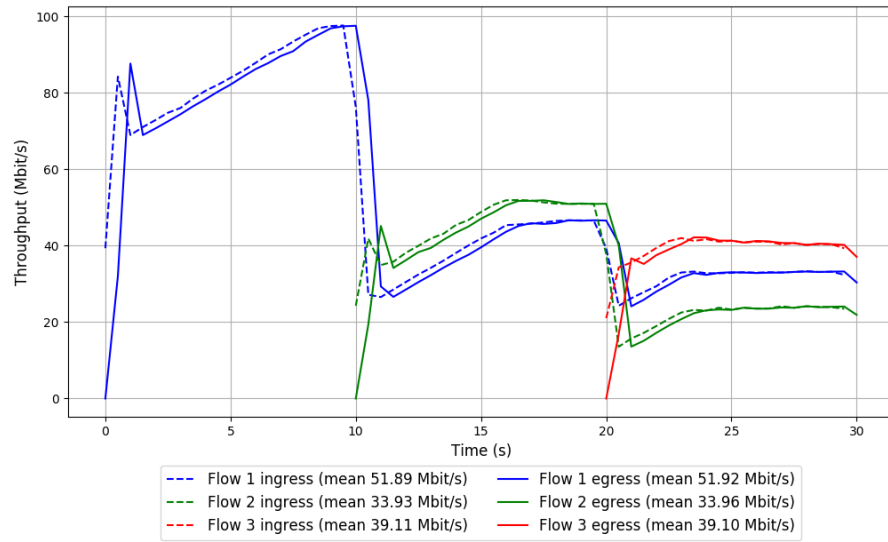
-- Flow 3:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 28.384 ms

Loss rate: 0.59%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 03:36:30

End at: 2018-06-06 03:37:00

Local clock offset: 1.028 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-06-06 06:47:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 33.409 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 34.700 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 43.98 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 0.33%

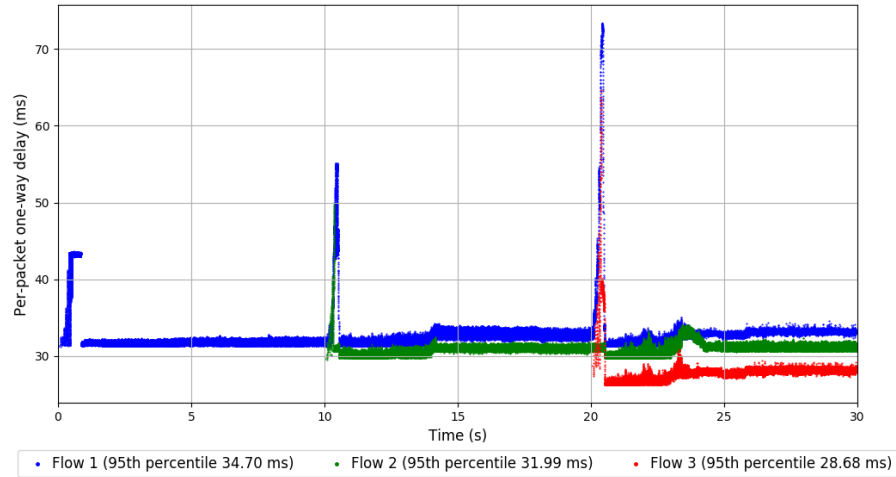
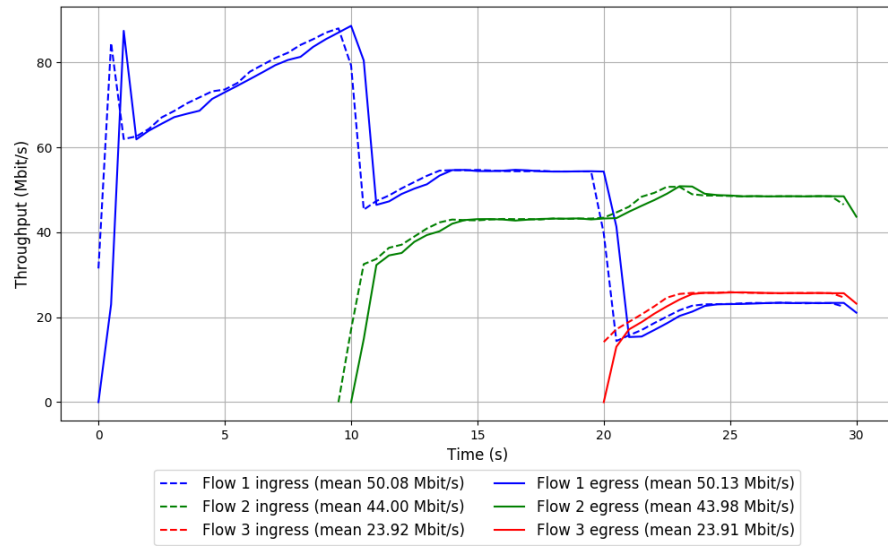
-- Flow 3:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 28.675 ms

Loss rate: 0.62%

Run 3: Report of TCP Vegas — Data Link

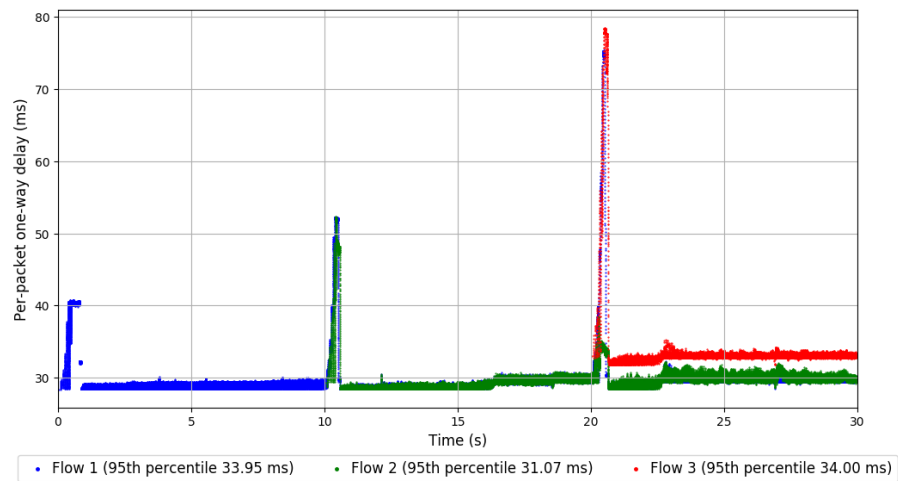
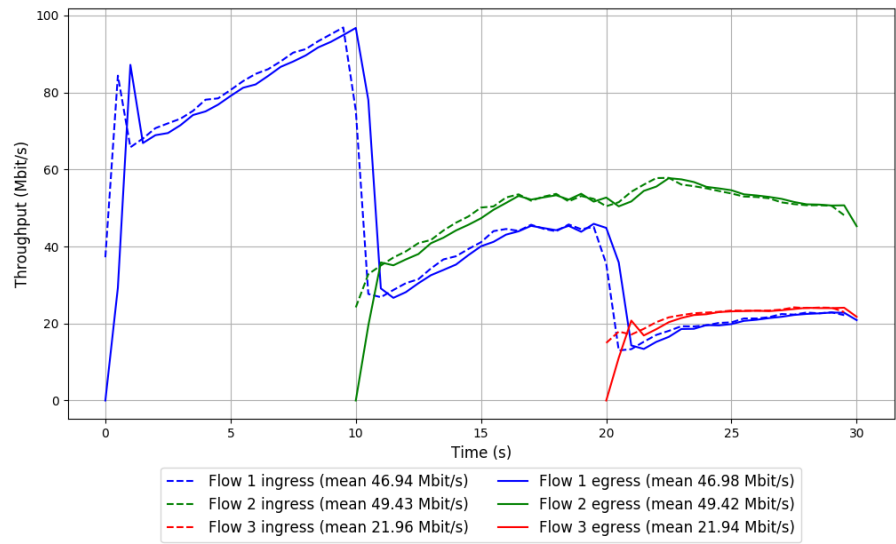


Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 03:58:04
End at: 2018-06-06 03:58:34
Local clock offset: 1.424 ms
Remote clock offset: -1.739 ms

Below is generated by plot.py at 2018-06-06 06:47:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 33.433 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 33.951 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 49.42 Mbit/s
95th percentile per-packet one-way delay: 31.071 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 33.998 ms
Loss rate: 0.69%

Run 4: Report of TCP Vegas — Data Link

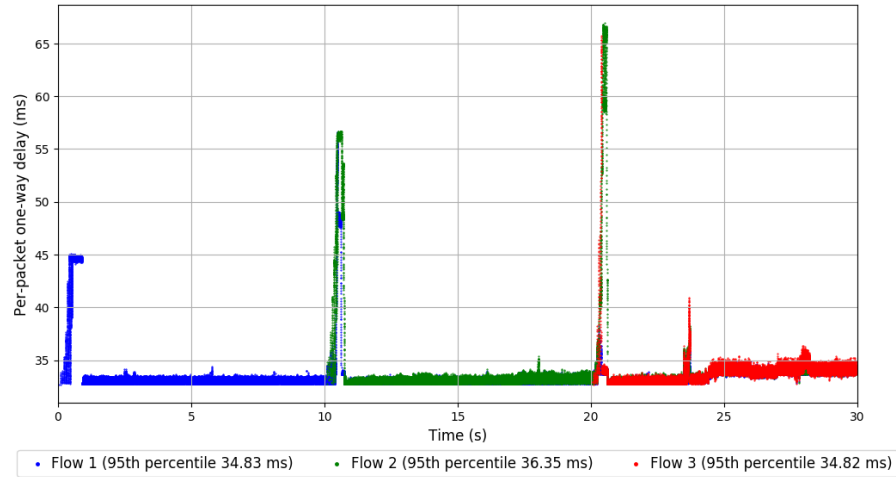
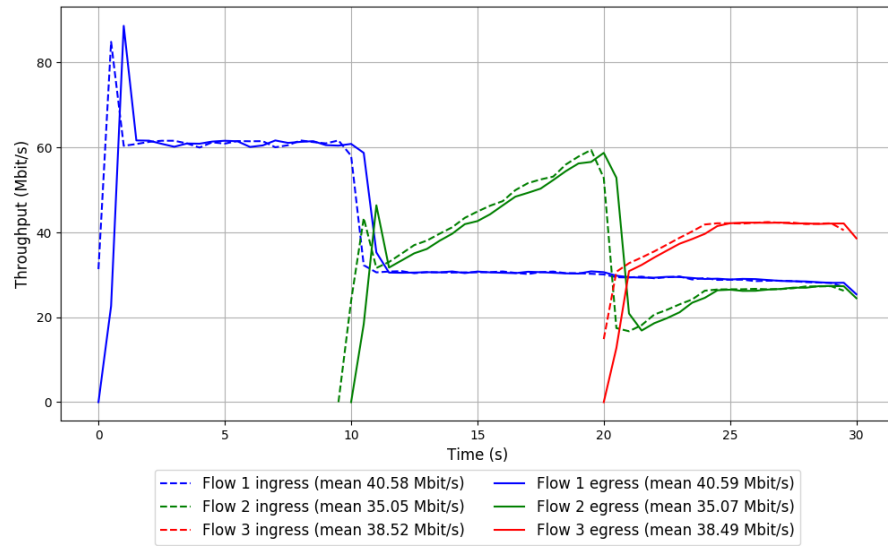


Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 04:19:49
End at: 2018-06-06 04:20:19
Local clock offset: 0.709 ms
Remote clock offset: -2.047 ms

Below is generated by plot.py at 2018-06-06 06:47:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 34.945 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 34.833 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 36.348 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 34.821 ms
Loss rate: 0.68%

Run 5: Report of TCP Vegas — Data Link

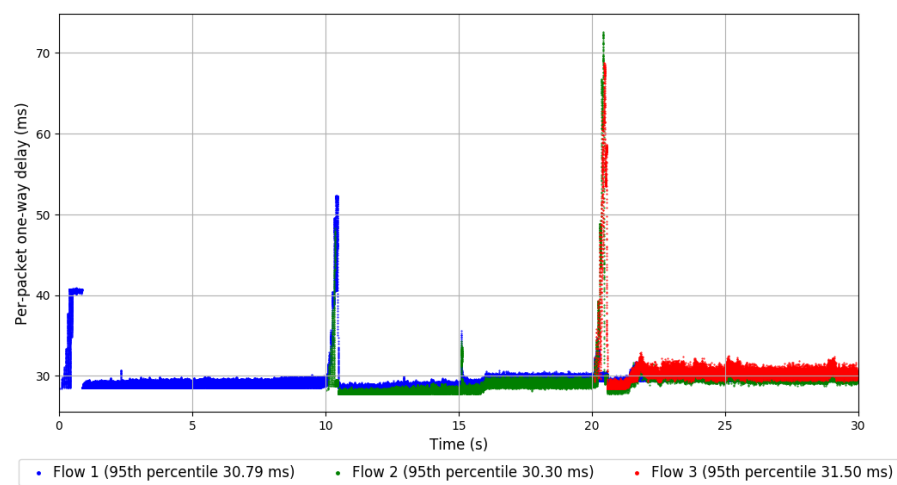
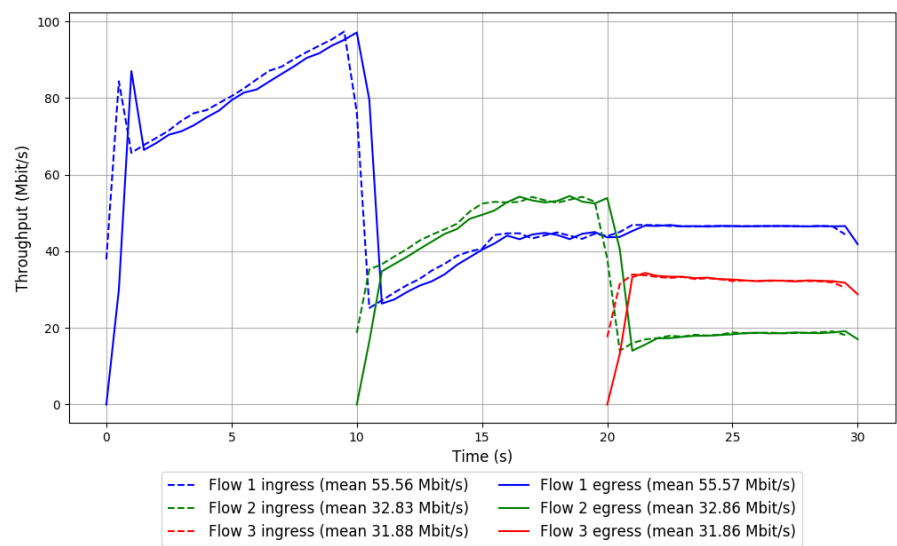


Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 04:41:18
End at: 2018-06-06 04:41:48
Local clock offset: 0.51 ms
Remote clock offset: -2.618 ms

Below is generated by plot.py at 2018-06-06 06:47:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 31.015 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 30.786 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 30.297 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 31.497 ms
Loss rate: 0.61%

Run 6: Report of TCP Vegas — Data Link

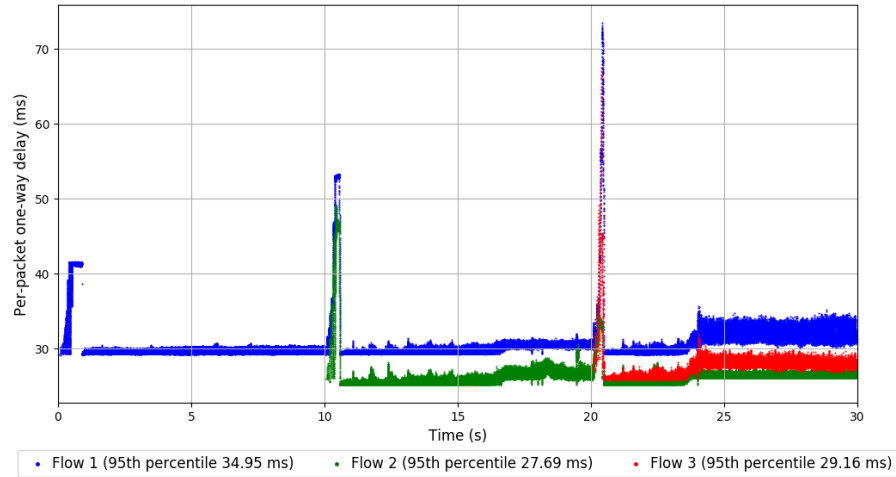
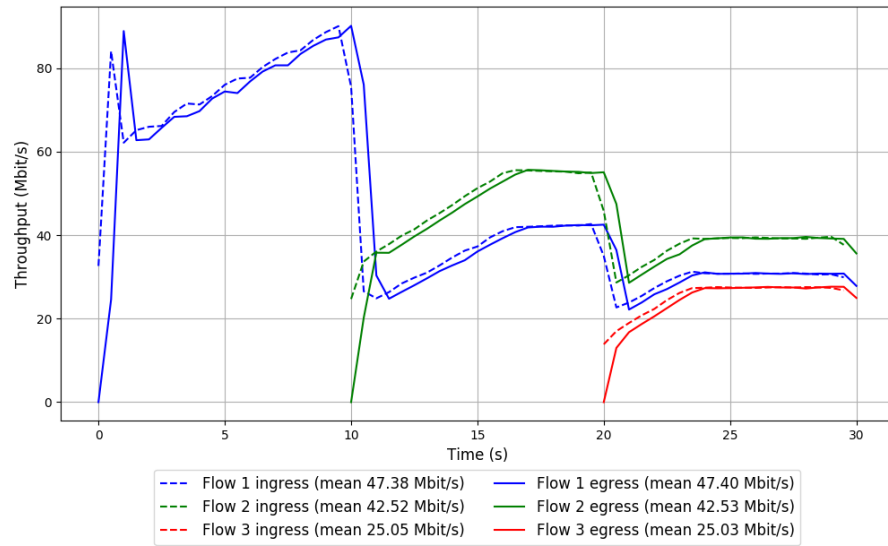


Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 05:02:46
End at: 2018-06-06 05:03:16
Local clock offset: 0.335 ms
Remote clock offset: -0.823 ms

Below is generated by plot.py at 2018-06-06 06:47:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.01 Mbit/s
95th percentile per-packet one-way delay: 33.231 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 34.951 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 27.692 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 29.155 ms
Loss rate: 0.65%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 05:24:17

End at: 2018-06-06 05:24:47

Local clock offset: 2.046 ms

Remote clock offset: -1.45 ms

Below is generated by plot.py at 2018-06-06 06:47:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 33.420 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 34.242 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 33.120 ms

Loss rate: 0.27%

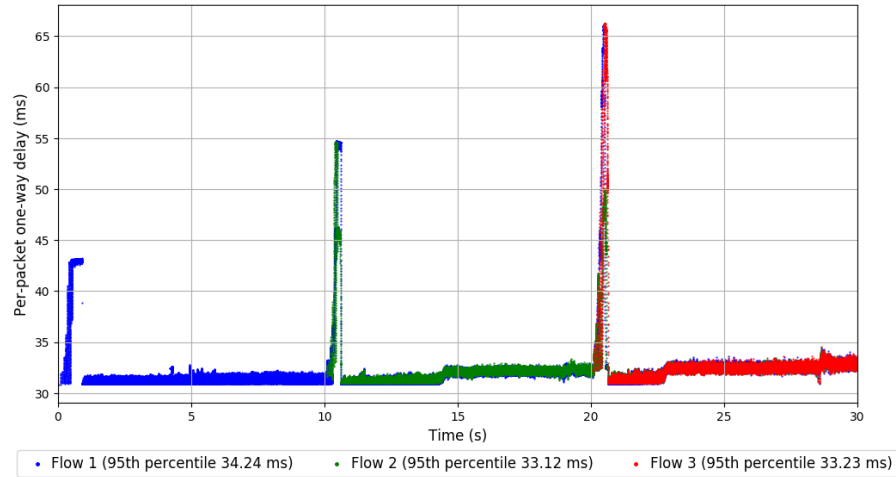
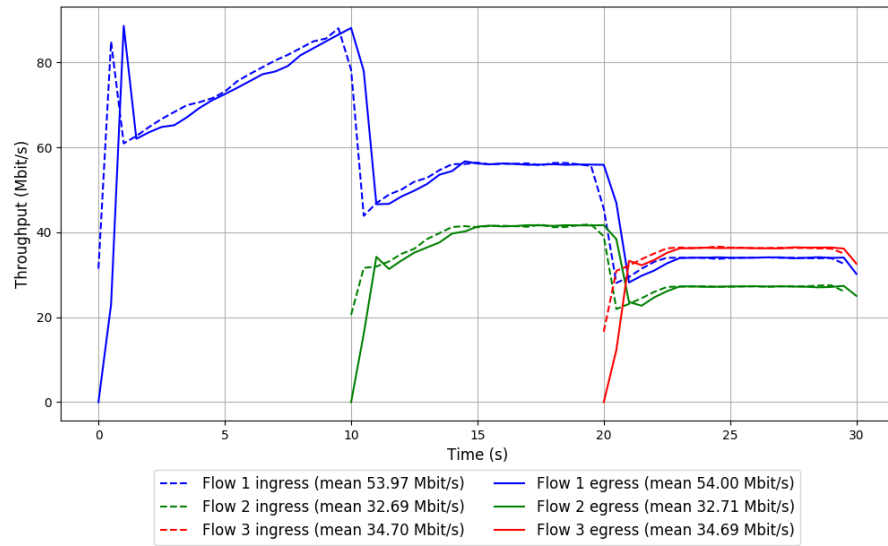
-- Flow 3:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 33.233 ms

Loss rate: 0.66%

Run 8: Report of TCP Vegas — Data Link

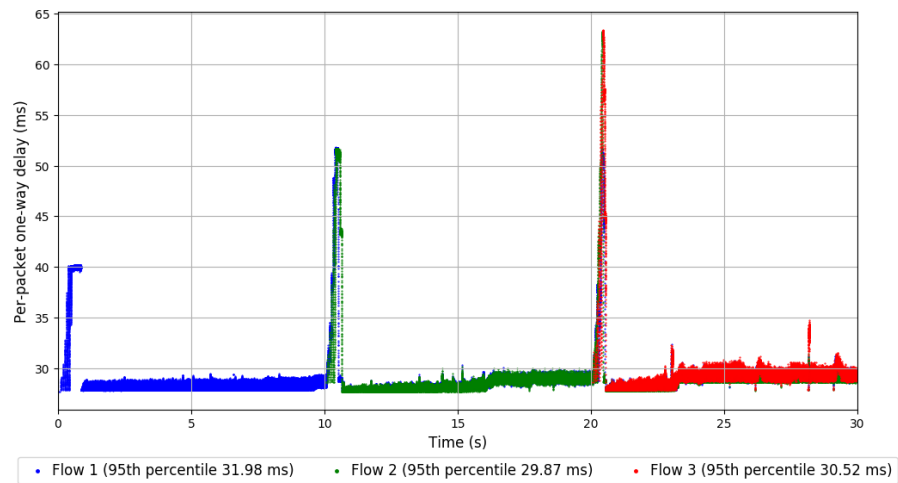
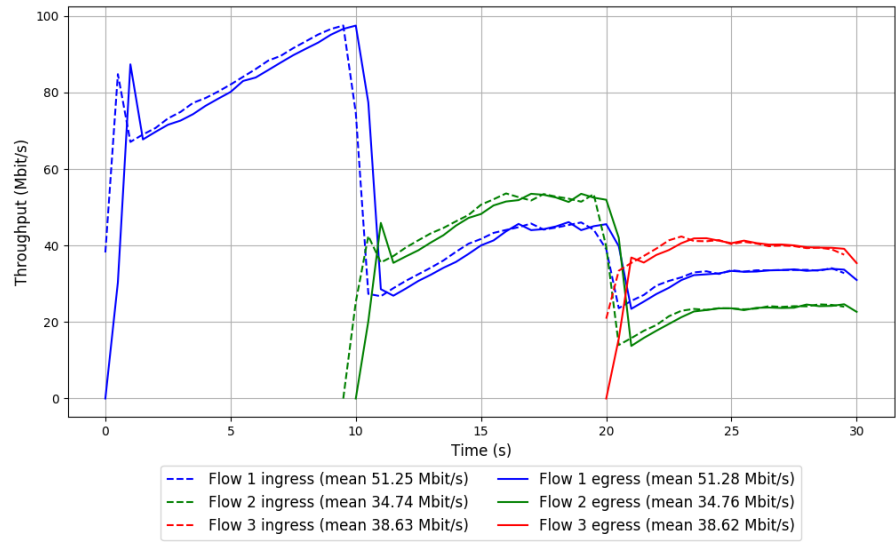


Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 05:45:51
End at: 2018-06-06 05:46:21
Local clock offset: 1.697 ms
Remote clock offset: -4.258 ms

Below is generated by plot.py at 2018-06-06 06:47:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 30.805 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 31.979 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 29.874 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 30.518 ms
Loss rate: 0.58%

Run 9: Report of TCP Vegas — Data Link

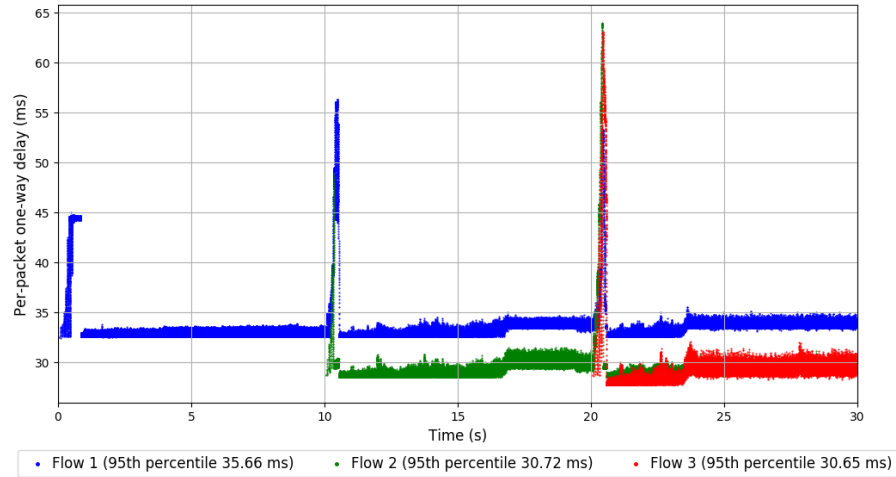
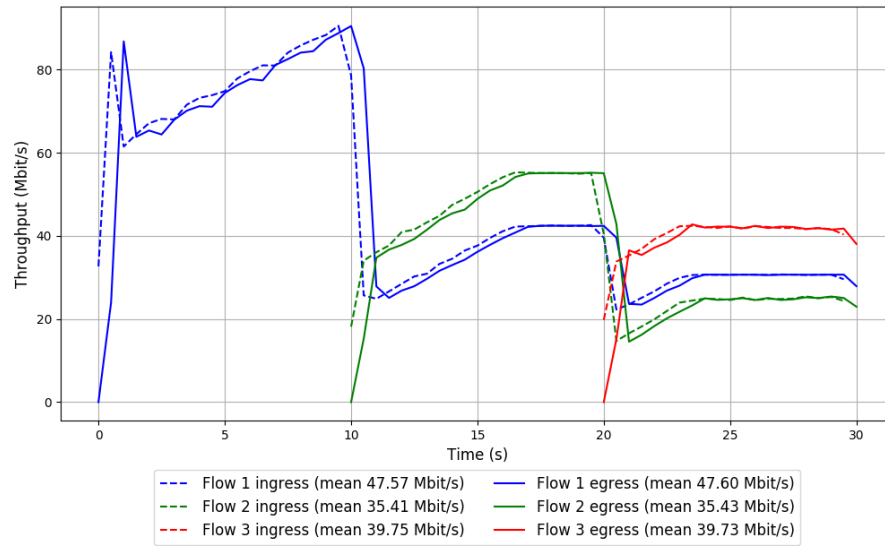


Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 06:07:23
End at: 2018-06-06 06:07:53
Local clock offset: 1.431 ms
Remote clock offset: -3.846 ms

Below is generated by plot.py at 2018-06-06 06:47:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 34.283 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 47.60 Mbit/s
95th percentile per-packet one-way delay: 35.659 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 30.718 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 30.654 ms
Loss rate: 0.60%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-06 03:01:25

End at: 2018-06-06 03:01:55

Local clock offset: 0.638 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-06-06 06:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 60.680 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 48.704 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 34.96 Mbit/s

95th percentile per-packet one-way delay: 73.642 ms

Loss rate: 0.47%

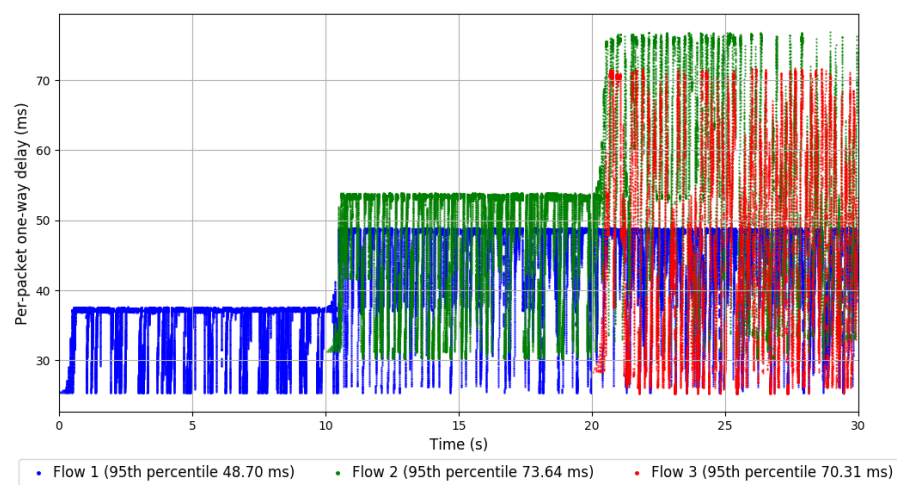
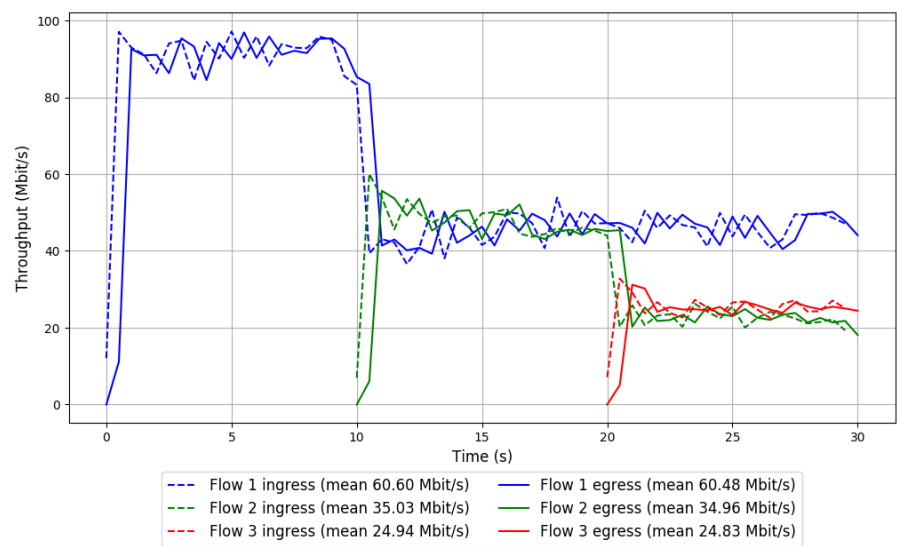
-- Flow 3:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 70.307 ms

Loss rate: 0.98%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-06 03:22:58

End at: 2018-06-06 03:23:28

Local clock offset: 0.94 ms

Remote clock offset: 0.792 ms

Below is generated by plot.py at 2018-06-06 06:47:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 63.912 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 53.790 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 35.28 Mbit/s

95th percentile per-packet one-way delay: 68.787 ms

Loss rate: 0.36%

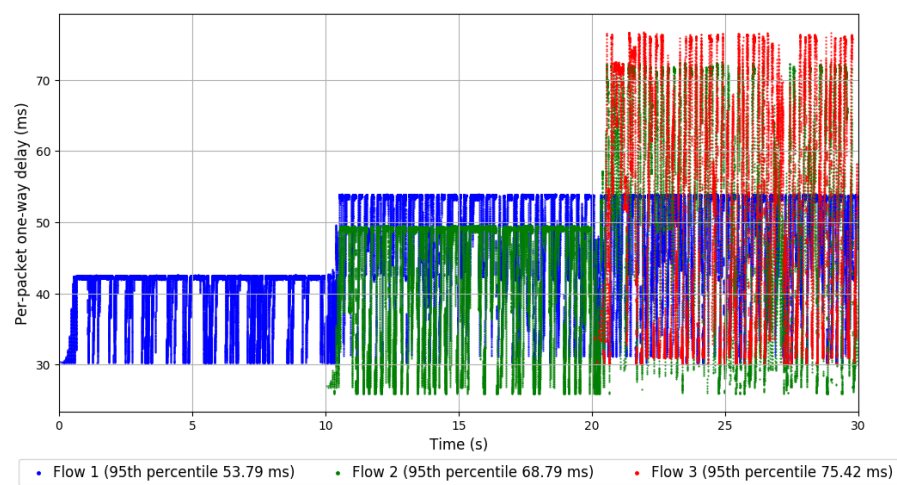
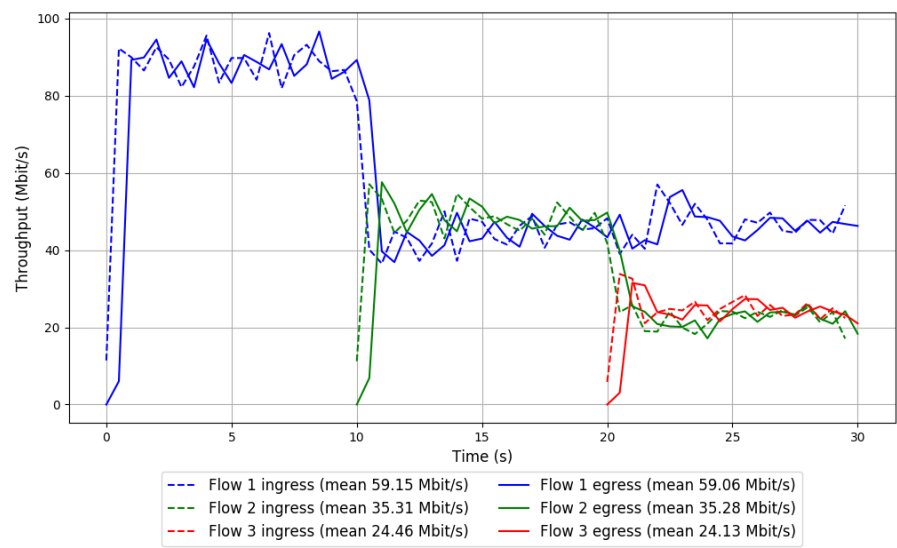
-- Flow 3:

Average throughput: 24.13 Mbit/s

95th percentile per-packet one-way delay: 75.423 ms

Loss rate: 1.73%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-06 03:44:33

End at: 2018-06-06 03:45:03

Local clock offset: 1.25 ms

Remote clock offset: -1.98 ms

Below is generated by plot.py at 2018-06-06 06:48:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 68.178 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 50.53 Mbit/s

95th percentile per-packet one-way delay: 64.873 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 75.798 ms

Loss rate: 0.51%

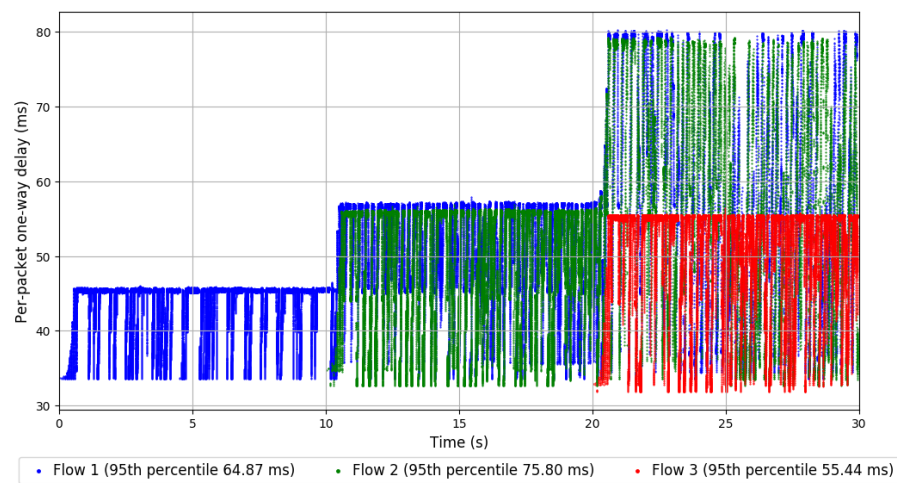
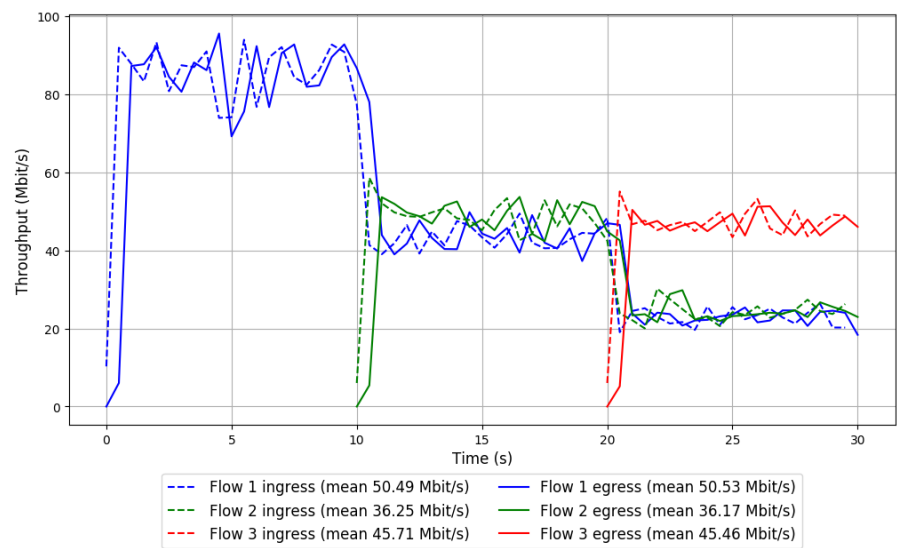
-- Flow 3:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 55.444 ms

Loss rate: 1.14%

Run 3: Report of Verus — Data Link

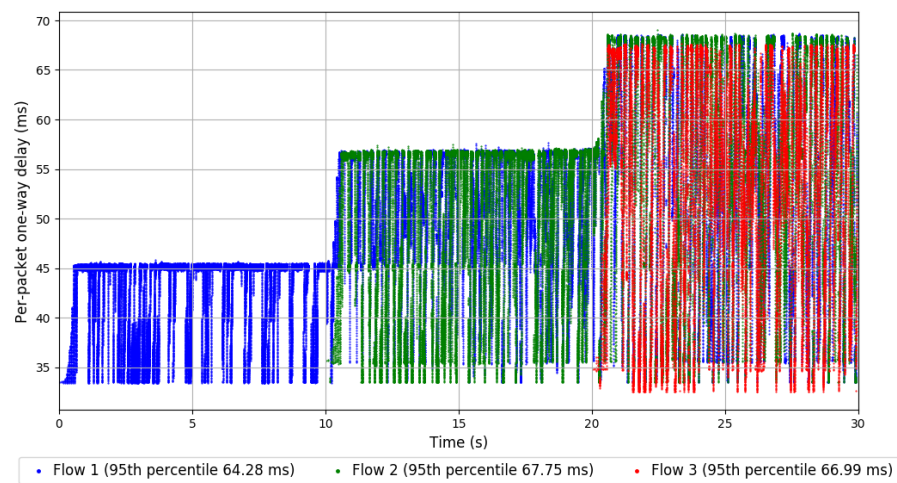
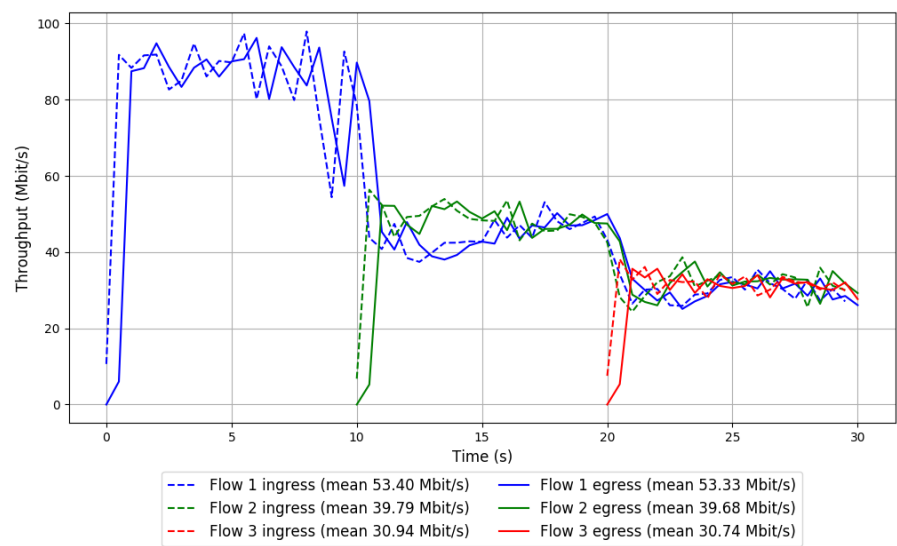


Run 4: Statistics of Verus

Start at: 2018-06-06 04:06:18
End at: 2018-06-06 04:06:48
Local clock offset: 1.203 ms
Remote clock offset: -1.921 ms

Below is generated by plot.py at 2018-06-06 06:48:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 66.939 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 53.33 Mbit/s
95th percentile per-packet one-way delay: 64.278 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 67.749 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 30.74 Mbit/s
95th percentile per-packet one-way delay: 66.991 ms
Loss rate: 1.27%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-06 04:27:48

End at: 2018-06-06 04:28:18

Local clock offset: 0.573 ms

Remote clock offset: -2.05 ms

Below is generated by plot.py at 2018-06-06 06:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 65.688 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 67.991 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 35.30 Mbit/s

95th percentile per-packet one-way delay: 69.667 ms

Loss rate: 0.38%

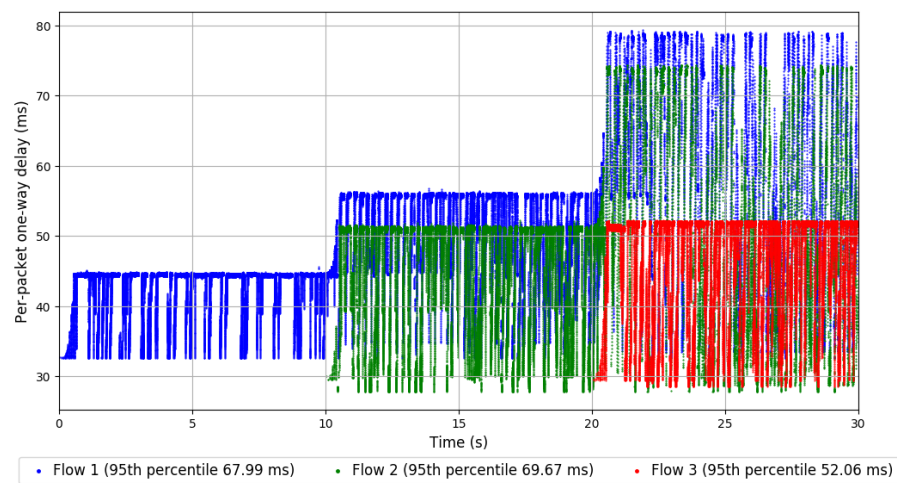
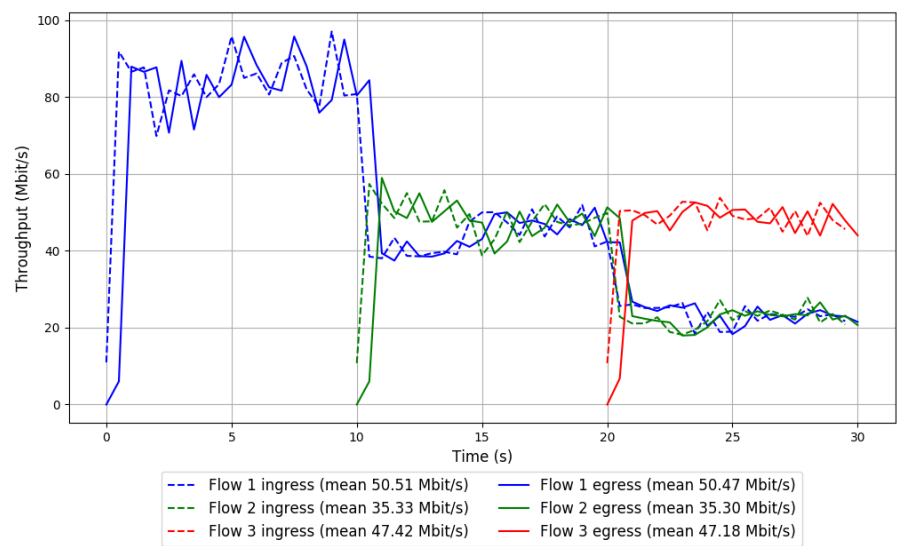
-- Flow 3:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 52.061 ms

Loss rate: 1.07%

Run 5: Report of Verus — Data Link

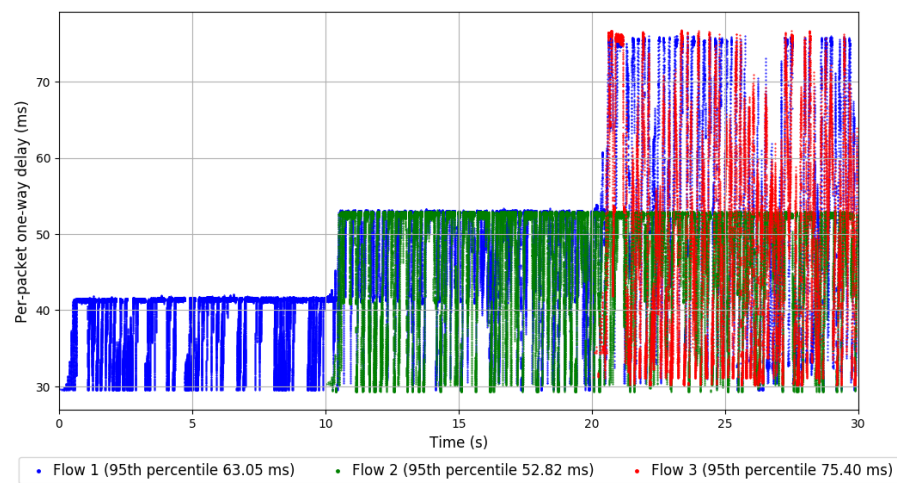
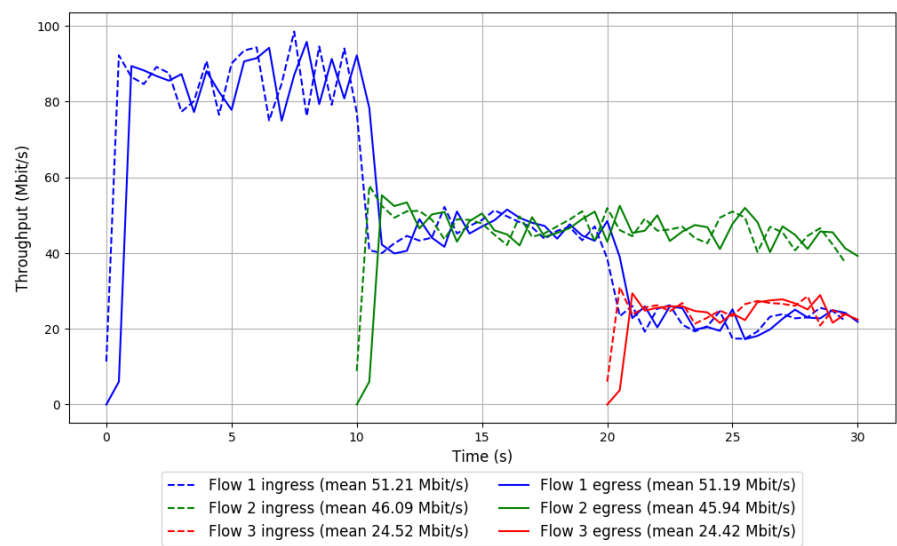


Run 6: Statistics of Verus

Start at: 2018-06-06 04:49:18
End at: 2018-06-06 04:49:48
Local clock offset: 0.472 ms
Remote clock offset: -0.589 ms

Below is generated by plot.py at 2018-06-06 06:48:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.85 Mbit/s
95th percentile per-packet one-way delay: 61.968 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 51.19 Mbit/s
95th percentile per-packet one-way delay: 63.046 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 52.824 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 75.404 ms
Loss rate: 0.98%

Run 6: Report of Verus — Data Link

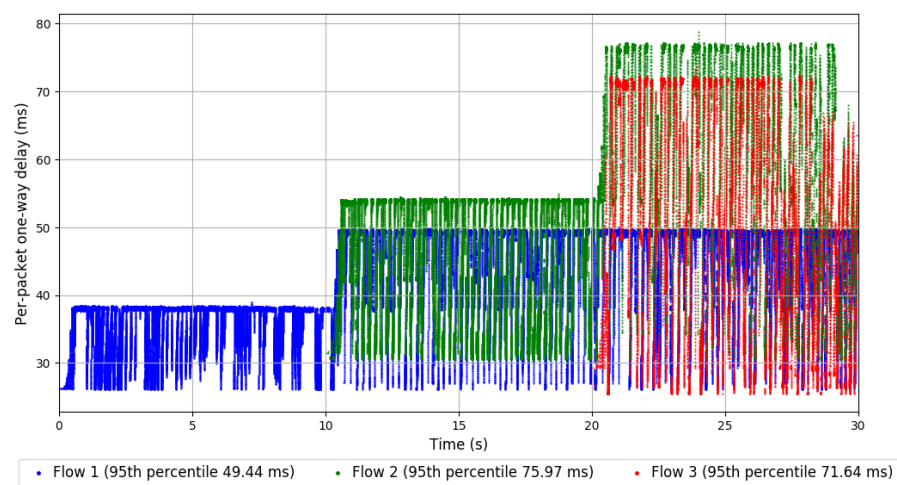
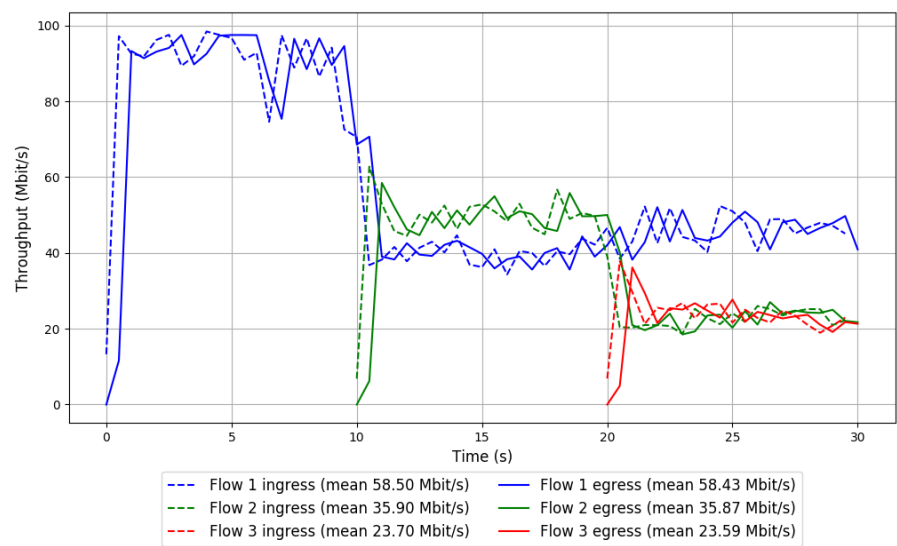


Run 7: Statistics of Verus

Start at: 2018-06-06 05:10:51
End at: 2018-06-06 05:11:21
Local clock offset: 1.208 ms
Remote clock offset: -1.393 ms

Below is generated by plot.py at 2018-06-06 06:48:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 67.553 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 49.442 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 75.966 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 71.636 ms
Loss rate: 0.95%

Run 7: Report of Verus — Data Link

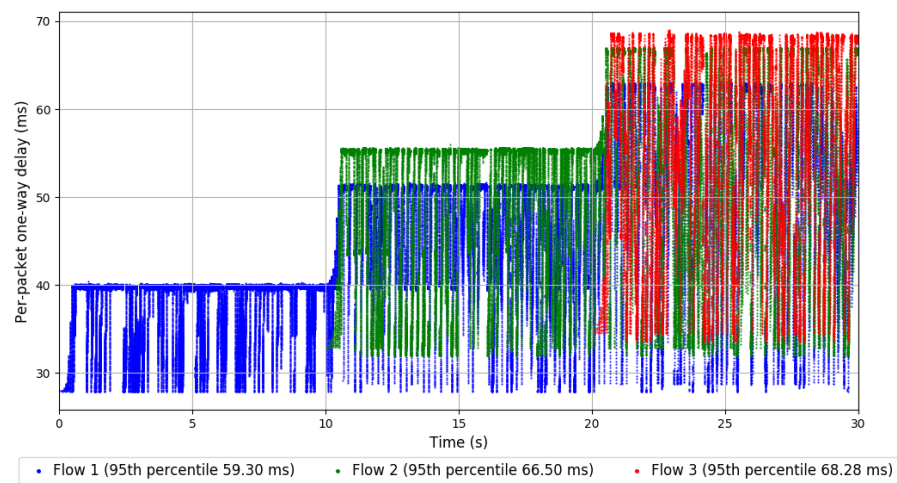
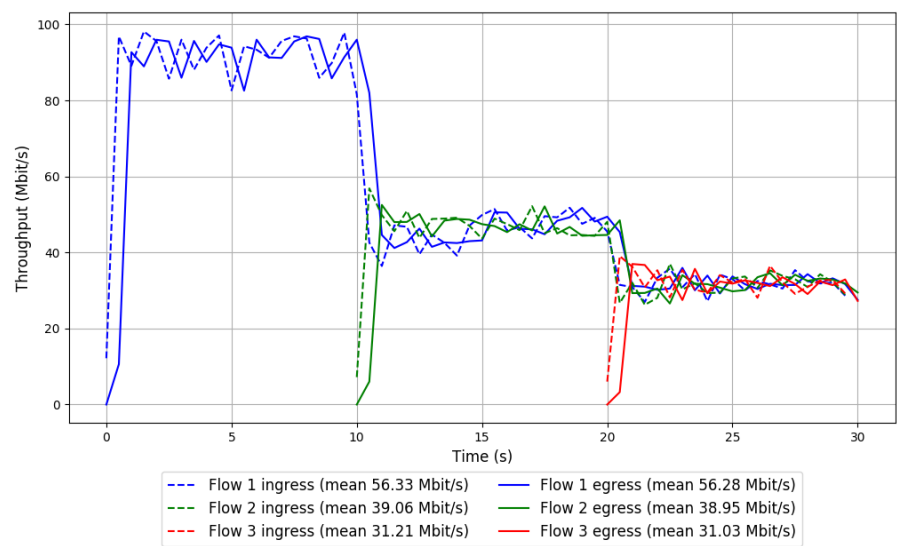


Run 8: Statistics of Verus

Start at: 2018-06-06 05:32:19
End at: 2018-06-06 05:32:49
Local clock offset: 2.321 ms
Remote clock offset: -4.275 ms

Below is generated by plot.py at 2018-06-06 06:48:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 65.468 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 59.295 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 66.498 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 68.284 ms
Loss rate: 1.19%

Run 8: Report of Verus — Data Link

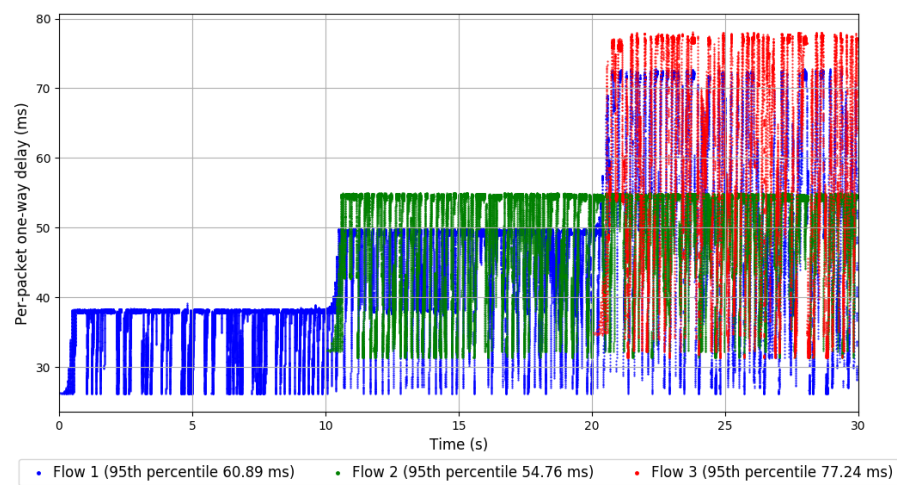
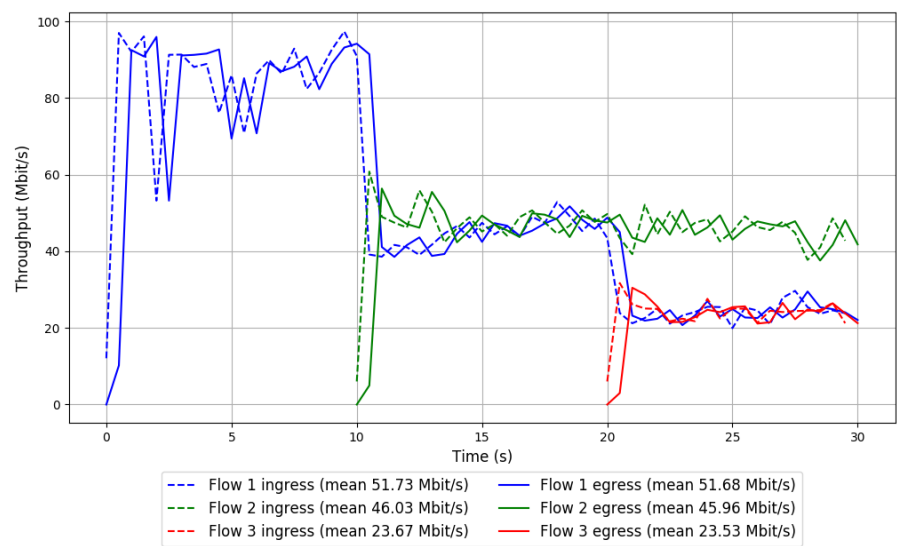


Run 9: Statistics of Verus

Start at: 2018-06-06 05:53:53
End at: 2018-06-06 05:54:23
Local clock offset: 1.638 ms
Remote clock offset: -1.842 ms

Below is generated by plot.py at 2018-06-06 06:48:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 67.310 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 60.888 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 54.759 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 77.238 ms
Loss rate: 1.22%

Run 9: Report of Verus — Data Link

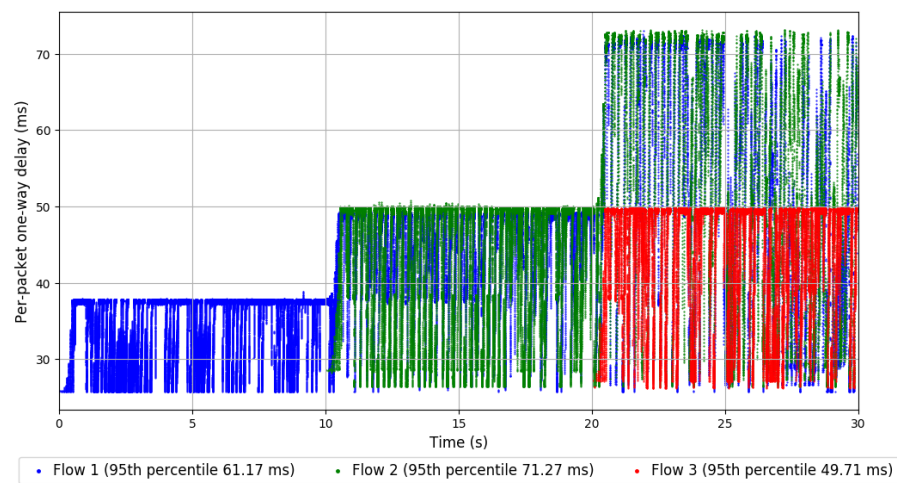
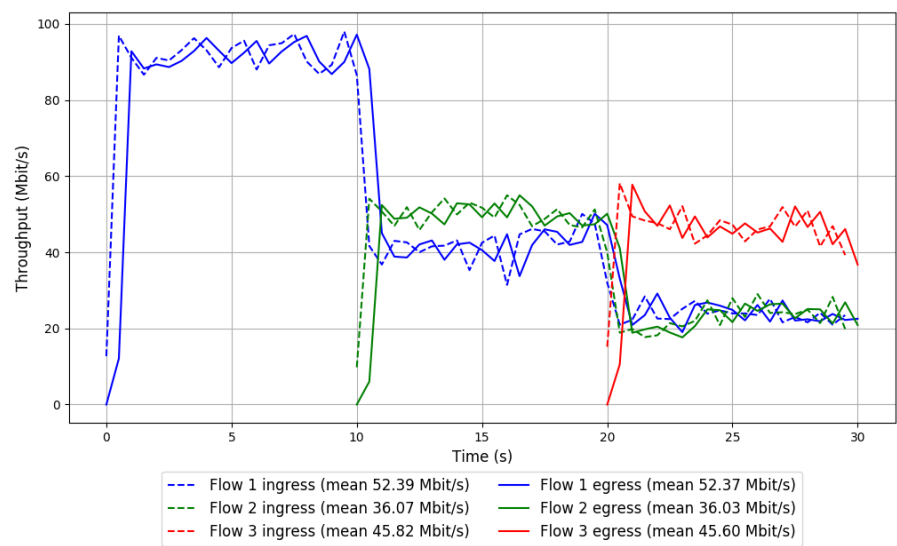


Run 10: Statistics of Verus

Start at: 2018-06-06 06:15:24
End at: 2018-06-06 06:15:54
Local clock offset: 1.425 ms
Remote clock offset: -1.735 ms

Below is generated by plot.py at 2018-06-06 06:48:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 63.938 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 61.170 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 71.266 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 49.714 ms
Loss rate: 1.00%

Run 10: Report of Verus — Data Link

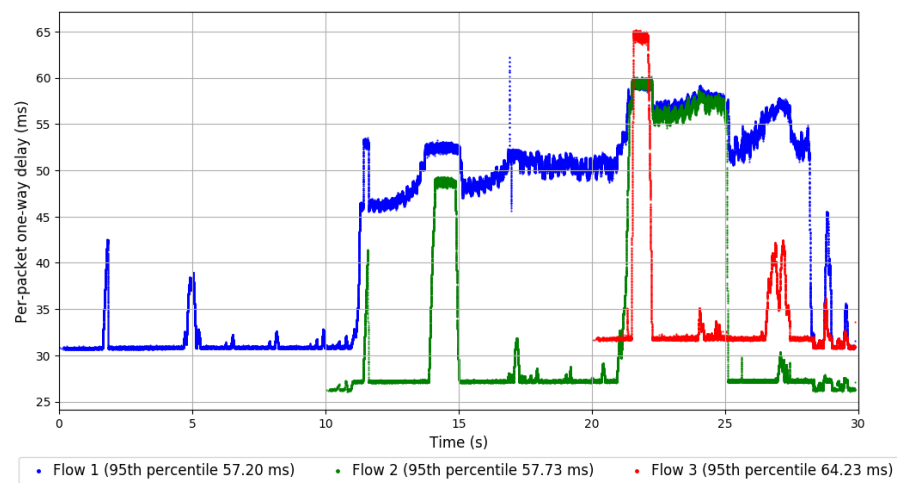
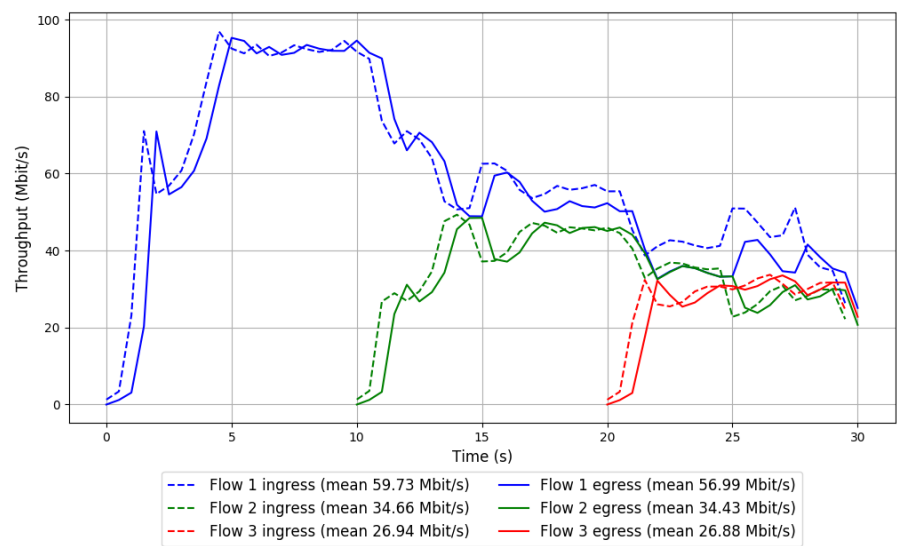


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 03:05:33
End at: 2018-06-06 03:06:03
Local clock offset: 0.71 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-06-06 06:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 57.422 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 57.195 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 57.734 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 64.227 ms
Loss rate: 0.81%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 03:27:06

End at: 2018-06-06 03:27:36

Local clock offset: 1.008 ms

Remote clock offset: 0.531 ms

Below is generated by plot.py at 2018-06-06 06:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.10 Mbit/s

95th percentile per-packet one-way delay: 56.005 ms

Loss rate: 3.24%

-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 56.594 ms

Loss rate: 4.85%

-- Flow 2:

Average throughput: 41.23 Mbit/s

95th percentile per-packet one-way delay: 47.722 ms

Loss rate: 0.39%

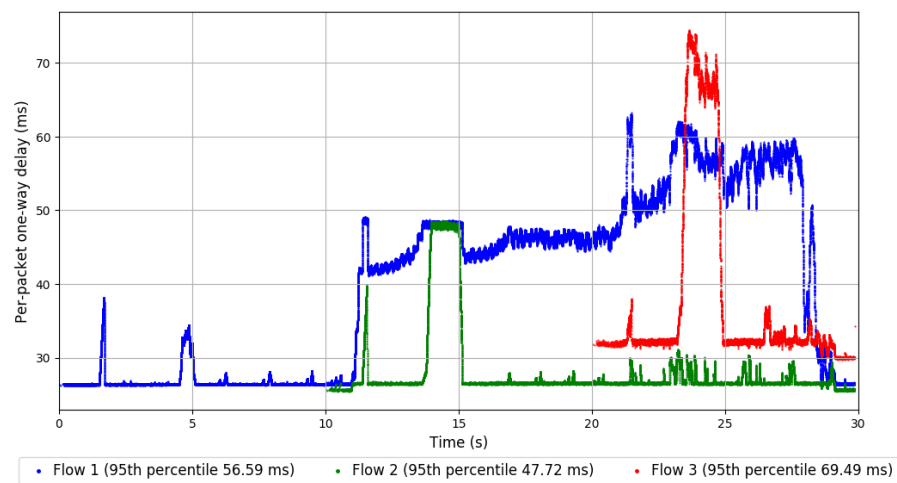
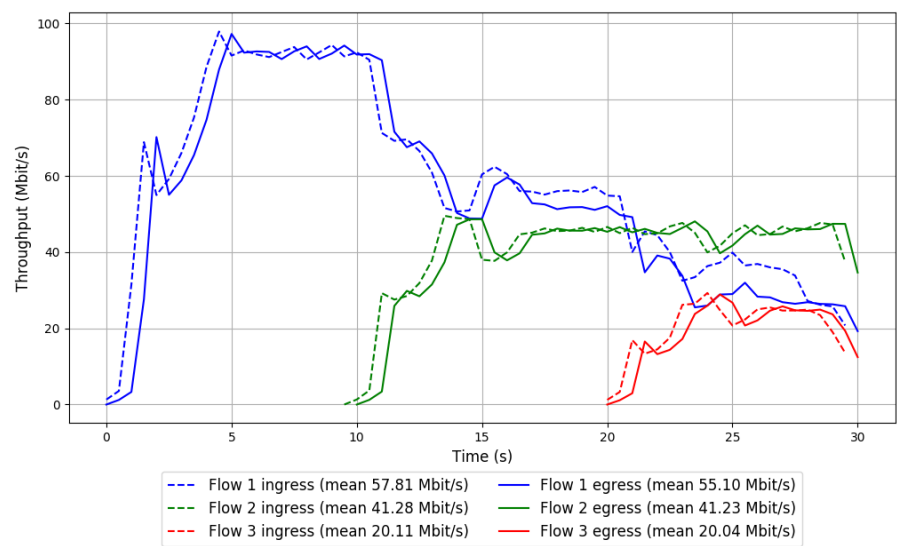
-- Flow 3:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 69.487 ms

Loss rate: 0.89%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 03:48:41

End at: 2018-06-06 03:49:11

Local clock offset: 1.221 ms

Remote clock offset: -1.84 ms

Below is generated by plot.py at 2018-06-06 06:49:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 57.380 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 57.231 ms

Loss rate: 5.34%

-- Flow 2:

Average throughput: 33.86 Mbit/s

95th percentile per-packet one-way delay: 57.647 ms

Loss rate: 0.46%

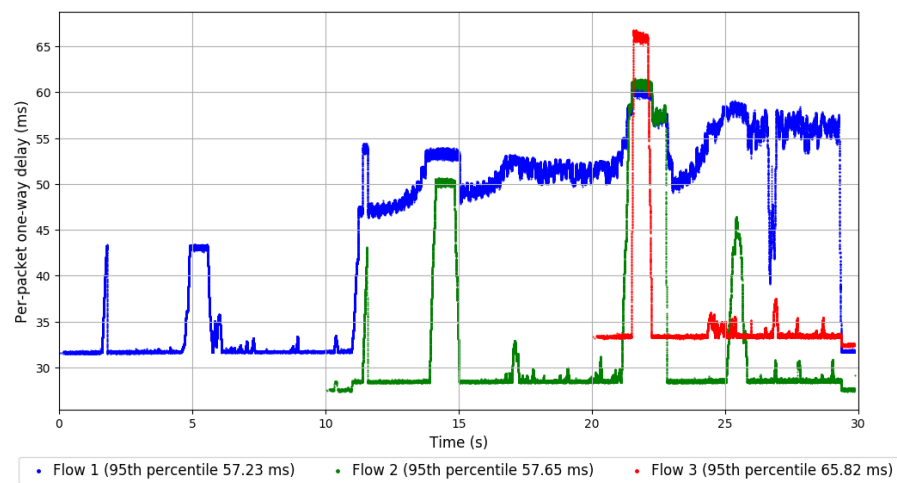
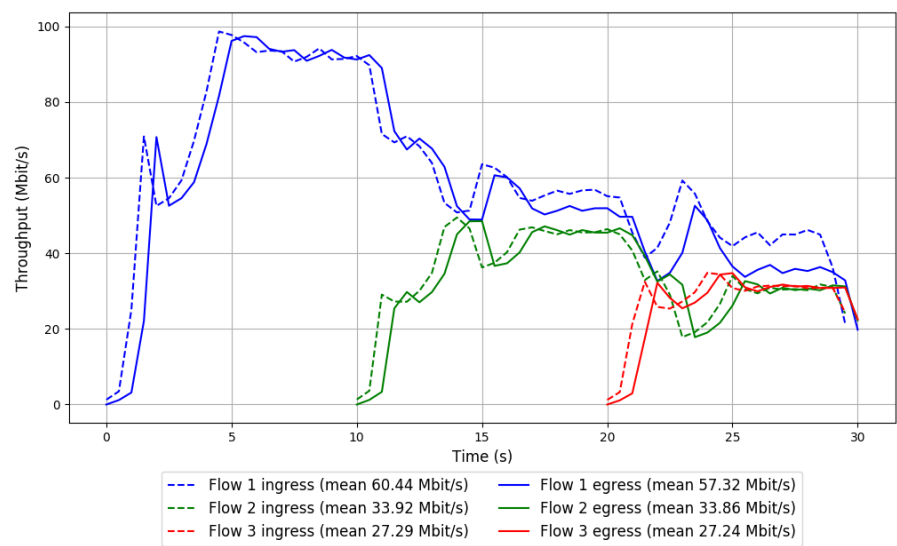
-- Flow 3:

Average throughput: 27.24 Mbit/s

95th percentile per-packet one-way delay: 65.816 ms

Loss rate: 0.80%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 04:10:26

End at: 2018-06-06 04:10:56

Local clock offset: 0.997 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-06 06:49:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 54.580 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 61.29 Mbit/s

95th percentile per-packet one-way delay: 54.518 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 59.187 ms

Loss rate: 0.92%

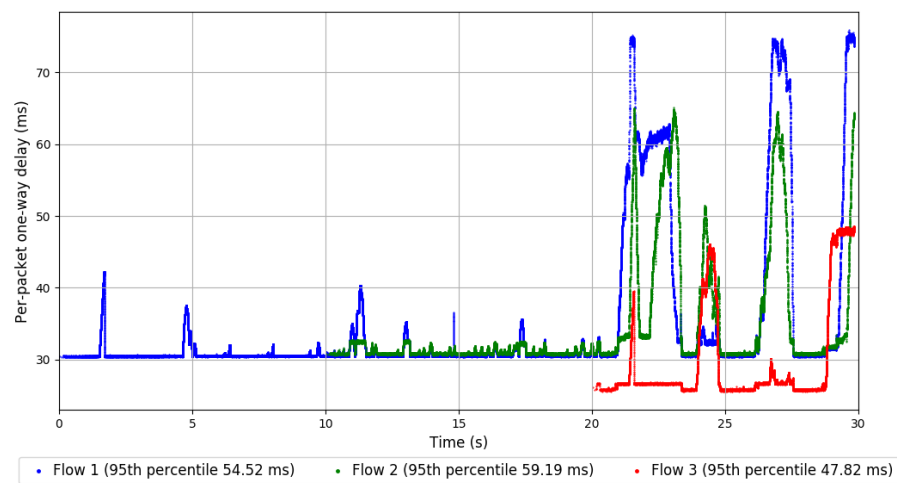
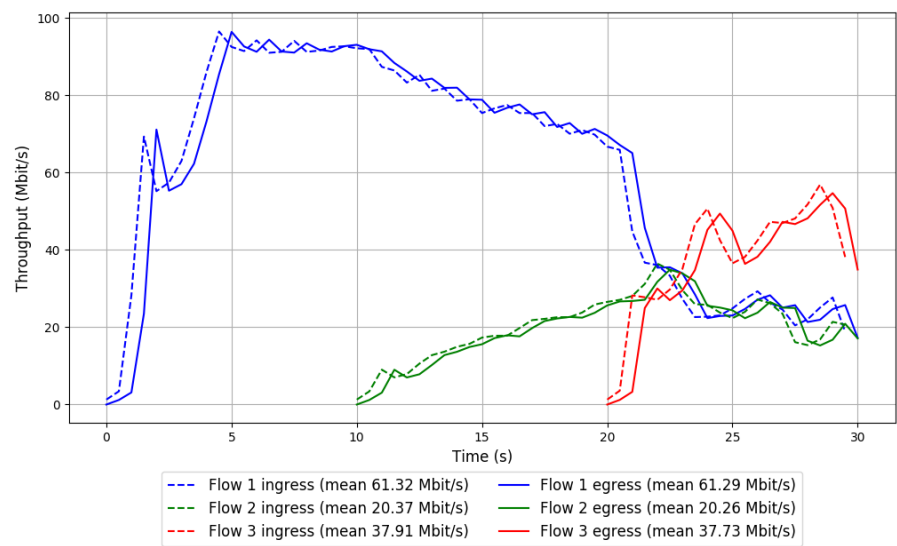
-- Flow 3:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 47.816 ms

Loss rate: 1.16%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 04:31:55

End at: 2018-06-06 04:32:25

Local clock offset: 0.46 ms

Remote clock offset: 0.615 ms

Below is generated by plot.py at 2018-06-06 06:49:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.47 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 57.75 Mbit/s

95th percentile per-packet one-way delay: 63.456 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 27.90 Mbit/s

95th percentile per-packet one-way delay: 70.101 ms

Loss rate: 2.13%

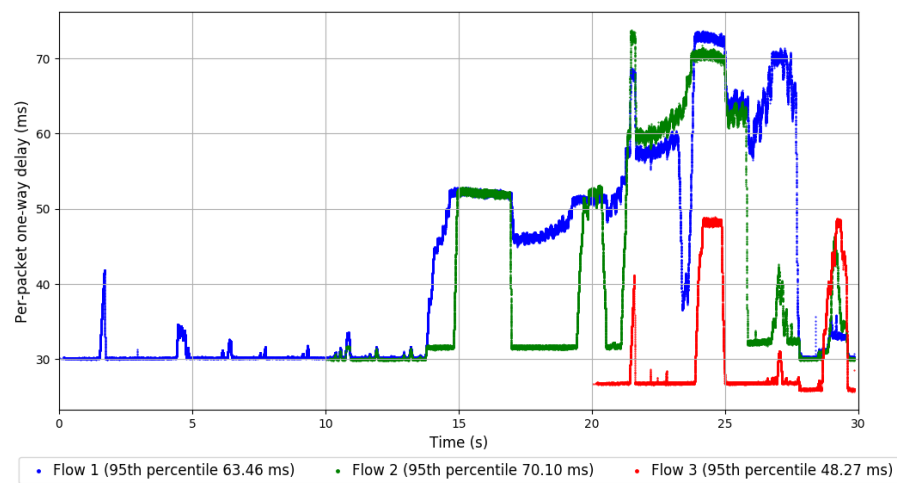
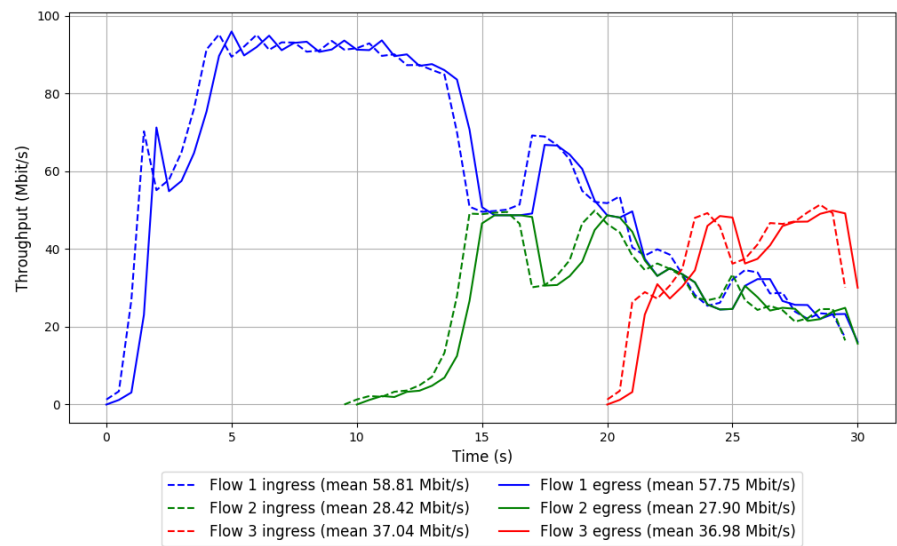
-- Flow 3:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 48.274 ms

Loss rate: 0.71%

Run 5: Report of PCC-Vivace — Data Link

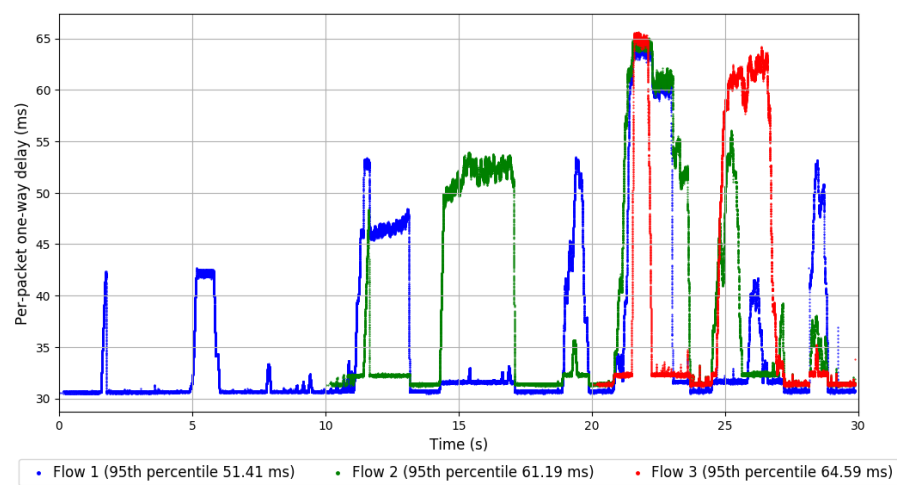
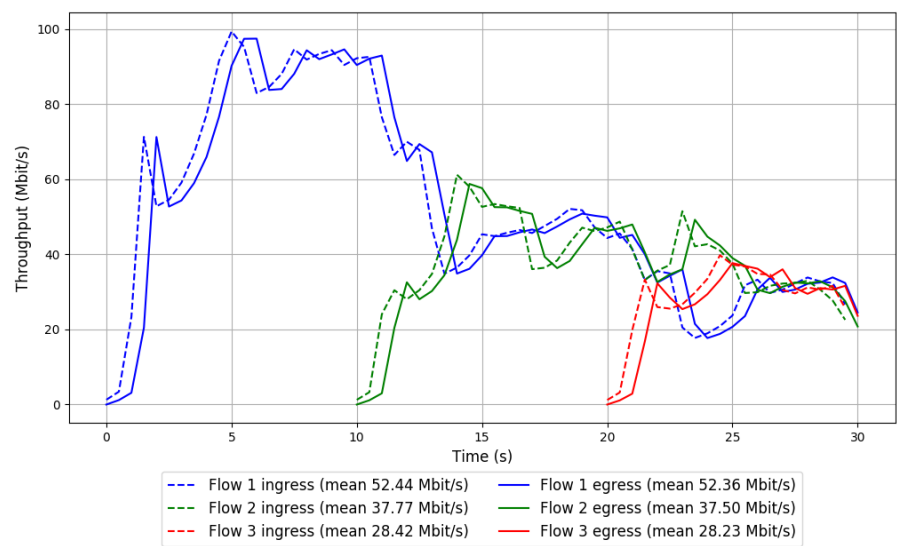


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 04:53:25
End at: 2018-06-06 04:53:55
Local clock offset: 0.456 ms
Remote clock offset: -1.145 ms

Below is generated by plot.py at 2018-06-06 06:49:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 60.839 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 52.36 Mbit/s
95th percentile per-packet one-way delay: 51.414 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 61.189 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 64.593 ms
Loss rate: 1.26%

Run 6: Report of PCC-Vivace — Data Link

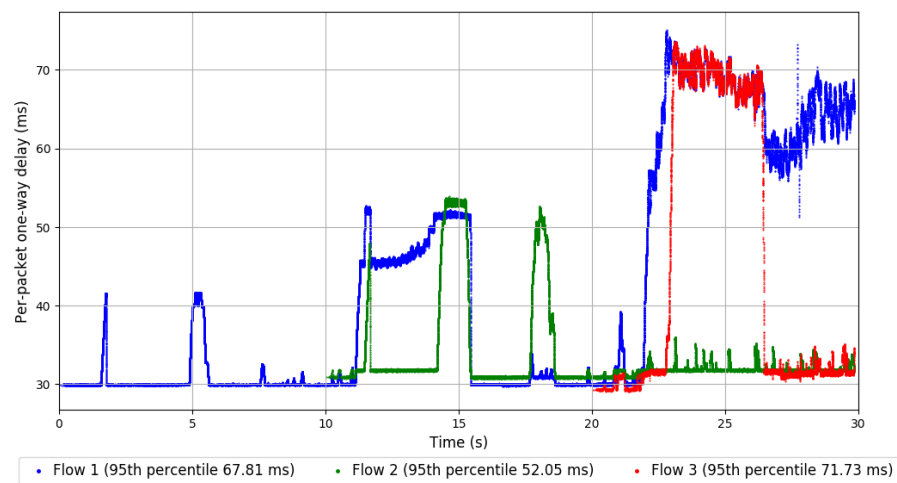
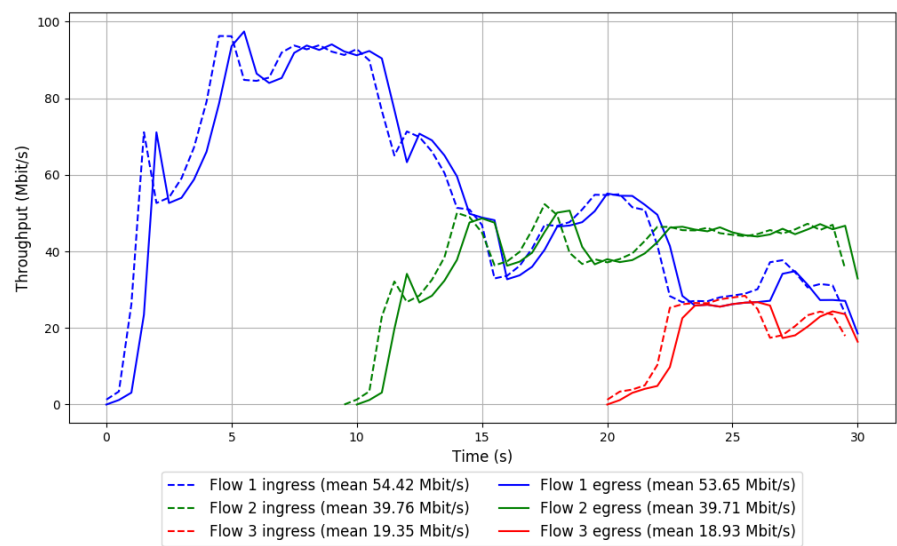


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 05:14:57
End at: 2018-06-06 05:15:27
Local clock offset: 1.6 ms
Remote clock offset: -1.118 ms

Below is generated by plot.py at 2018-06-06 06:49:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 68.254 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 67.814 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 52.047 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 71.727 ms
Loss rate: 2.78%

Run 7: Report of PCC-Vivace — Data Link

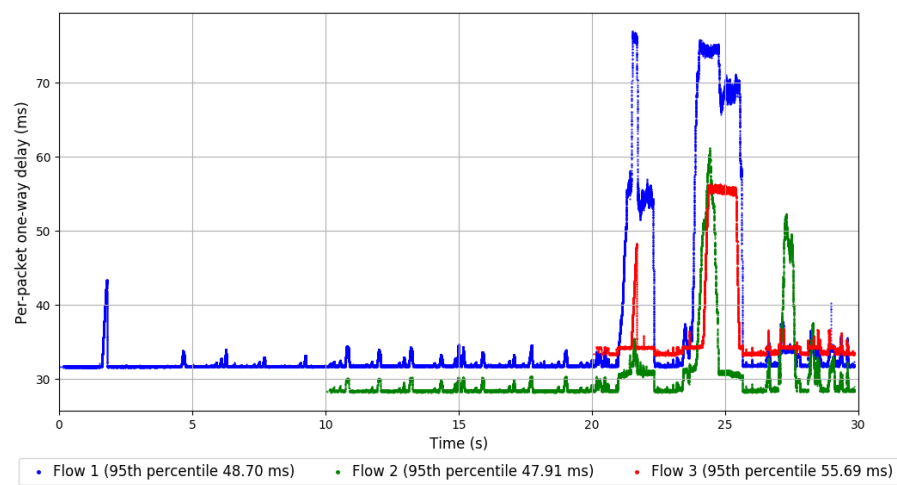
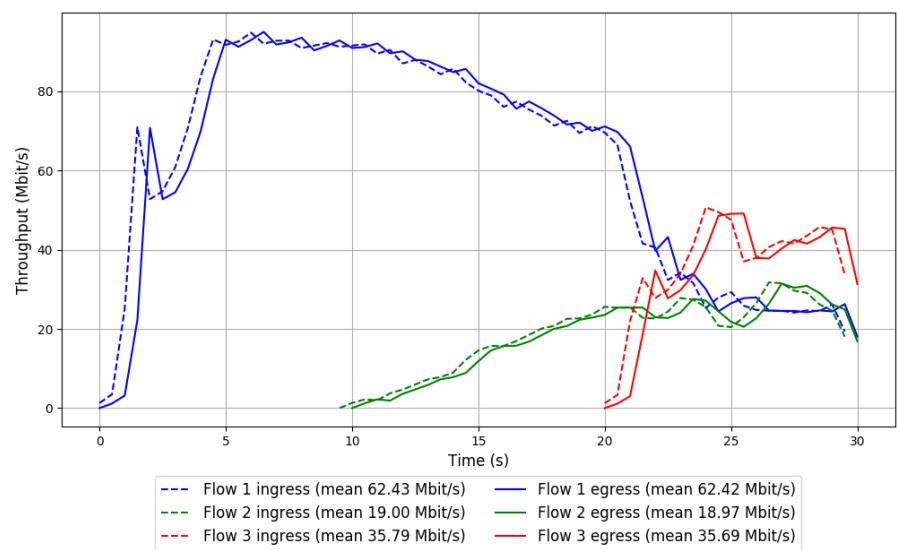


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 05:36:27
End at: 2018-06-06 05:36:57
Local clock offset: 2.033 ms
Remote clock offset: -4.194 ms

Below is generated by plot.py at 2018-06-06 06:50:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.78 Mbit/s
95th percentile per-packet one-way delay: 54.259 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 48.701 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 47.906 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 55.694 ms
Loss rate: 0.91%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 05:58:00

End at: 2018-06-06 05:58:30

Local clock offset: 1.619 ms

Remote clock offset: -1.86 ms

Below is generated by plot.py at 2018-06-06 06:50:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 60.052 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 55.379 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 27.44 Mbit/s

95th percentile per-packet one-way delay: 63.222 ms

Loss rate: 1.15%

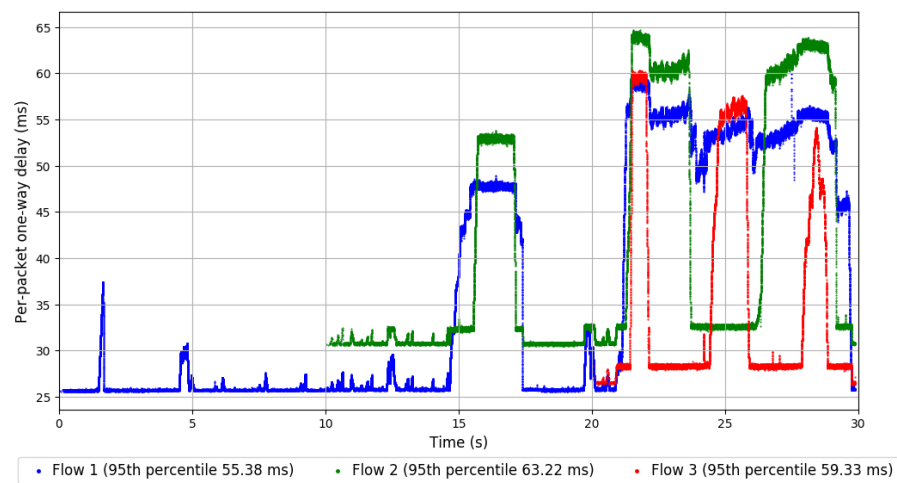
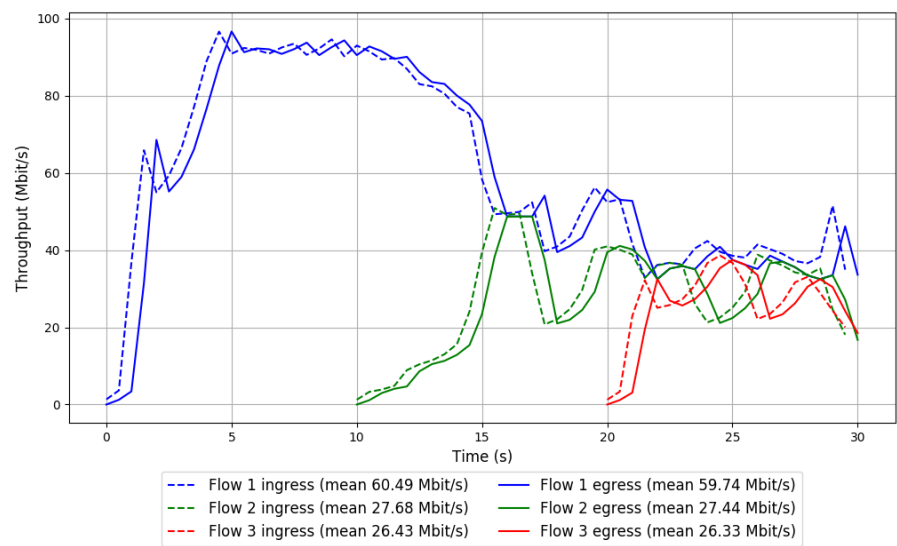
-- Flow 3:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 59.331 ms

Loss rate: 0.95%

Run 9: Report of PCC-Vivace — Data Link

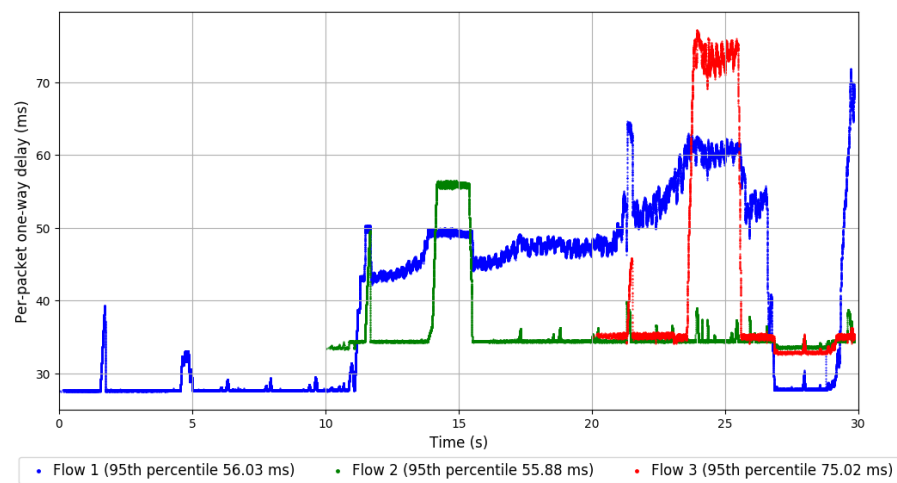
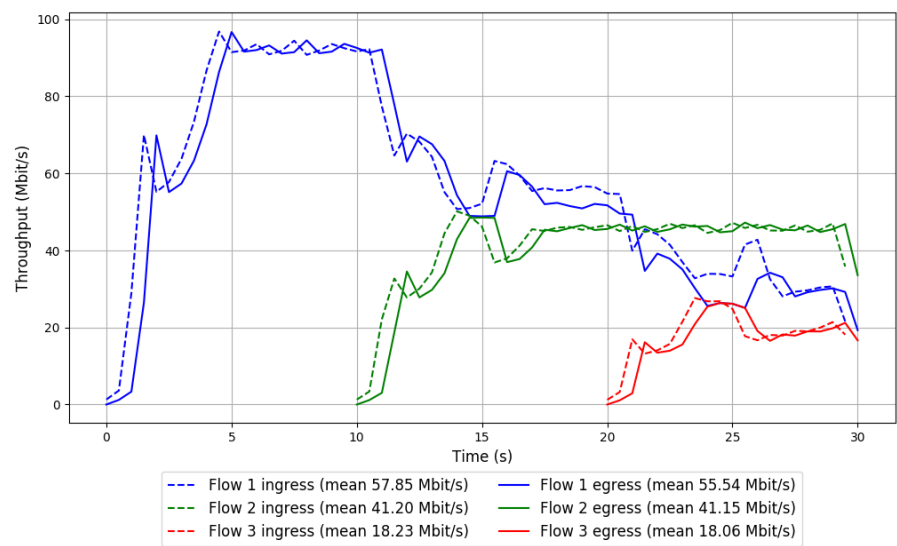


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 06:19:31
End at: 2018-06-06 06:20:02
Local clock offset: 1.397 ms
Remote clock offset: -3.491 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 56.219 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 56.031 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 41.15 Mbit/s
95th percentile per-packet one-way delay: 55.885 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 75.015 ms
Loss rate: 1.55%

Run 10: Report of PCC-Vivace — Data Link

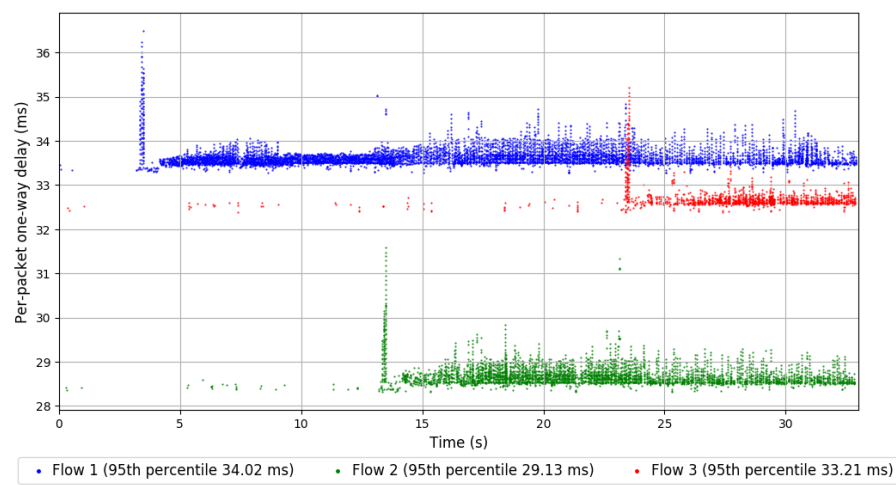
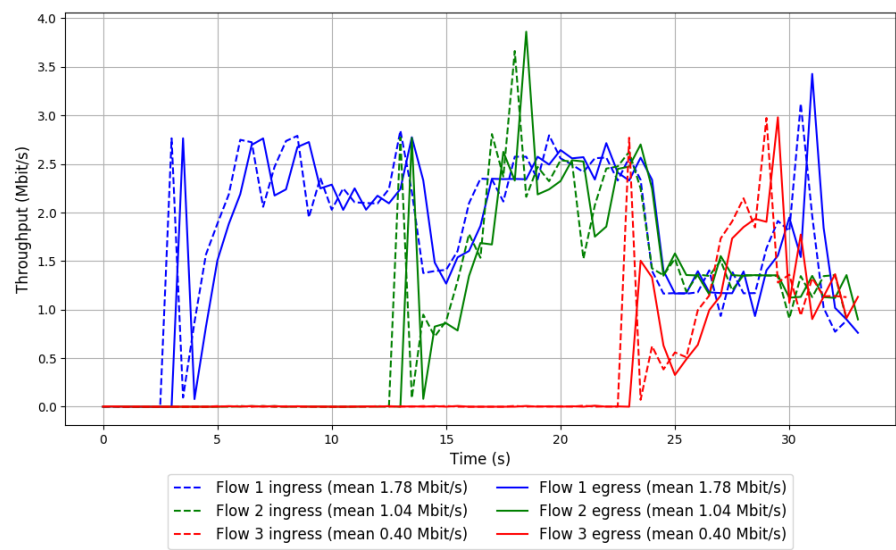


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 02:50:50
End at: 2018-06-06 02:51:20
Local clock offset: 0.558 ms
Remote clock offset: -2.137 ms

# Below is generated by plot.py at 2018-06-06 06:50:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 33.926 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 34.025 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 29.133 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 33.213 ms
Loss rate: 0.86%
```

Run 1: Report of WebRTC media — Data Link

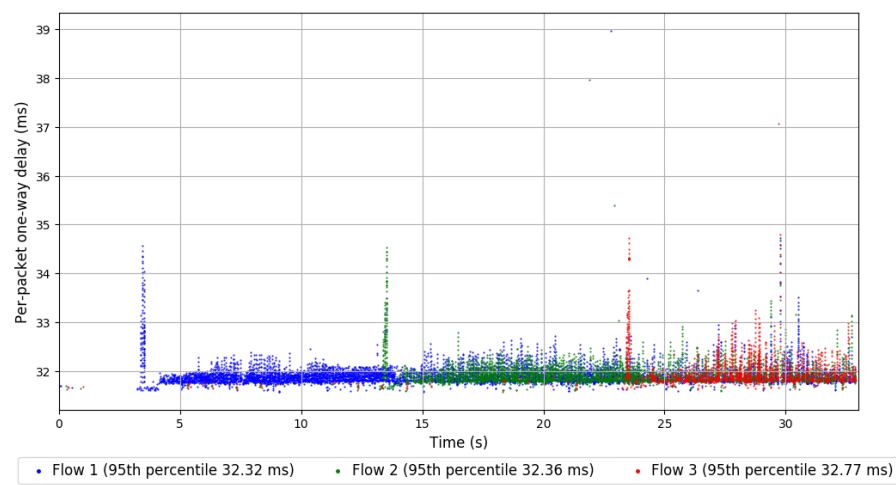
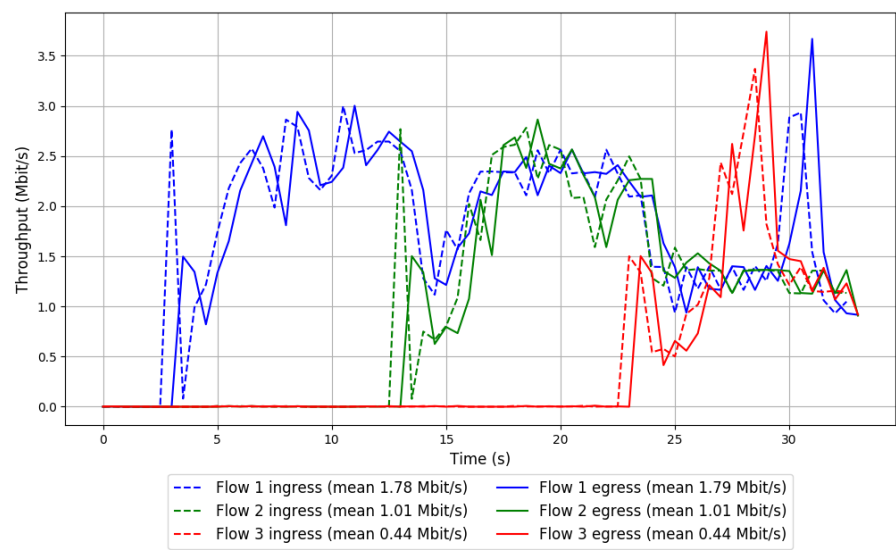


Run 2: Statistics of WebRTC media

Start at: 2018-06-06 03:12:22
End at: 2018-06-06 03:12:52
Local clock offset: 0.691 ms
Remote clock offset: -1.996 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 32.397 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 32.316 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 32.362 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 32.773 ms
Loss rate: 0.79%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-06 03:33:55

End at: 2018-06-06 03:34:25

Local clock offset: 1.102 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-06-06 06:50:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 31.197 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 30.545 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 31.422 ms

Loss rate: 0.00%

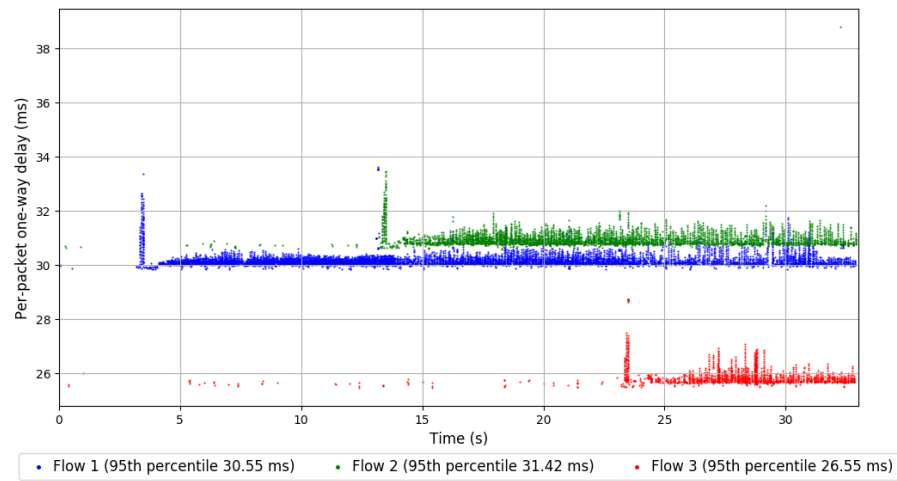
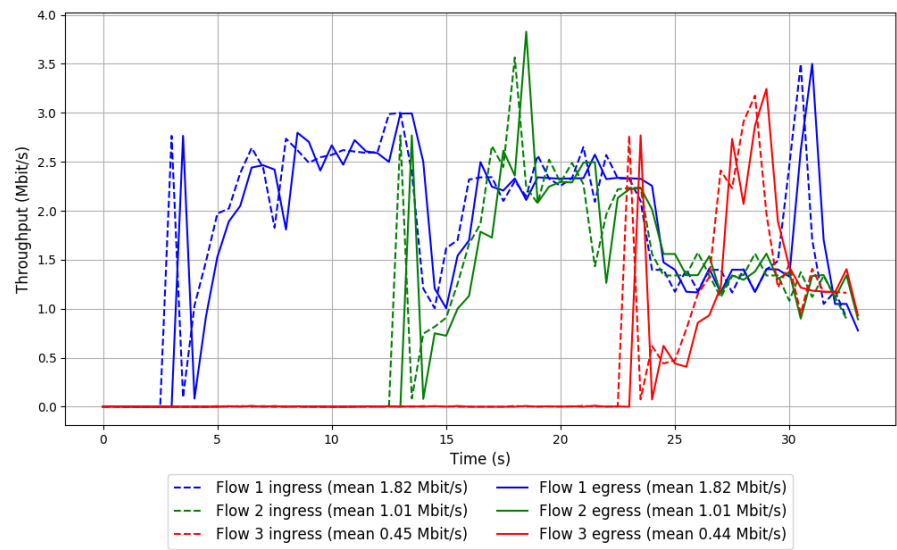
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 26.549 ms

Loss rate: 0.80%

Run 3: Report of WebRTC media — Data Link

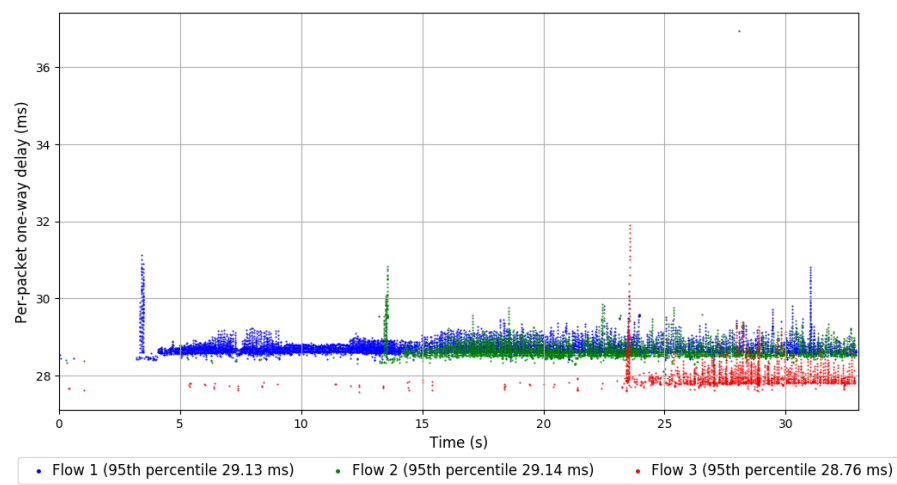
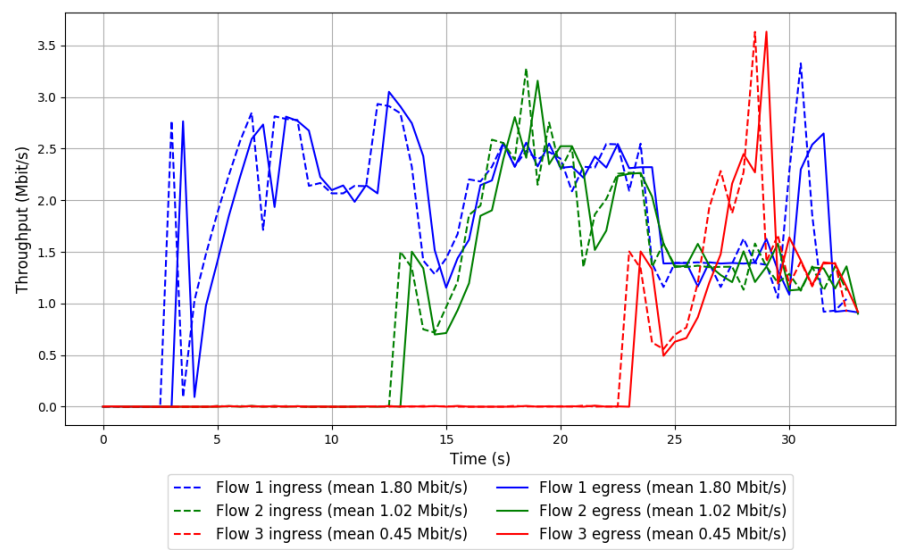


Run 4: Statistics of WebRTC media

Start at: 2018-06-06 03:55:30
End at: 2018-06-06 03:56:00
Local clock offset: 1.391 ms
Remote clock offset: -1.882 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 29.112 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 29.132 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 29.140 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 28.759 ms
Loss rate: 0.79%

Run 4: Report of WebRTC media — Data Link

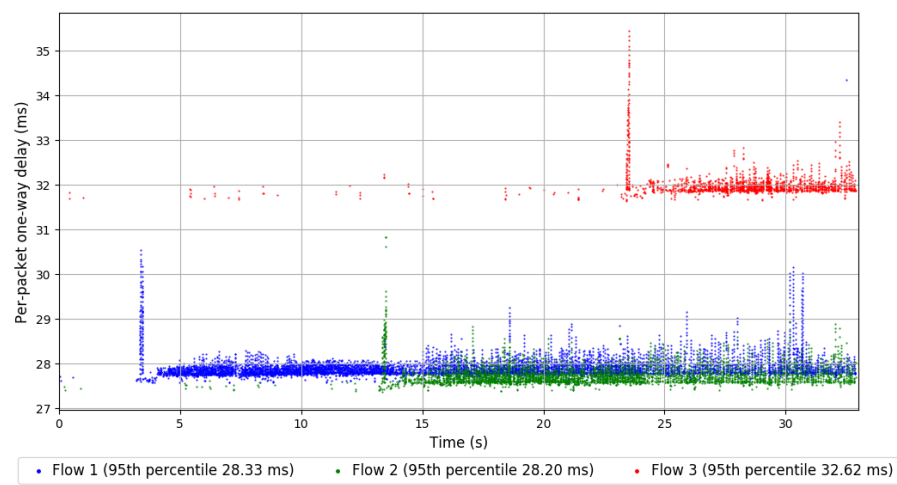
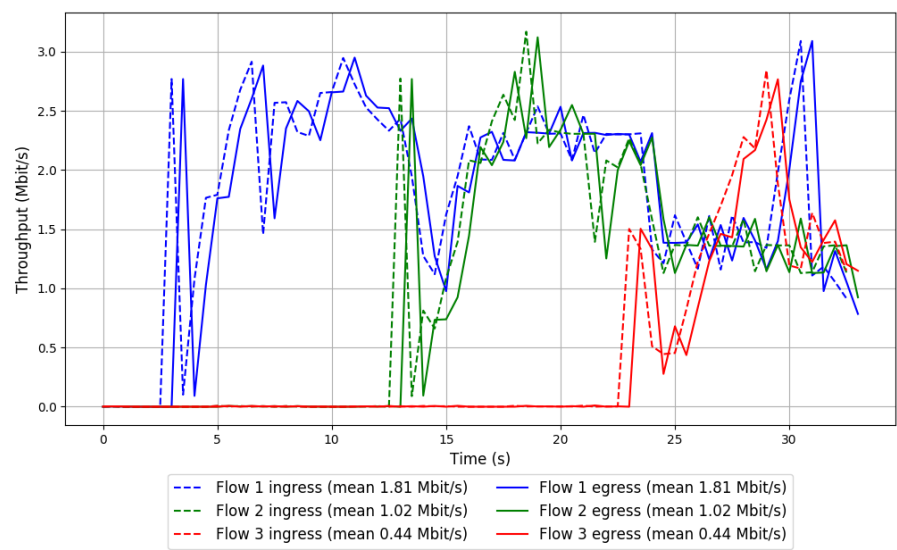


Run 5: Statistics of WebRTC media

Start at: 2018-06-06 04:17:14
End at: 2018-06-06 04:17:44
Local clock offset: 0.676 ms
Remote clock offset: -2.087 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 31.980 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 28.328 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 28.199 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 32.621 ms
Loss rate: 0.80%

Run 5: Report of WebRTC media — Data Link

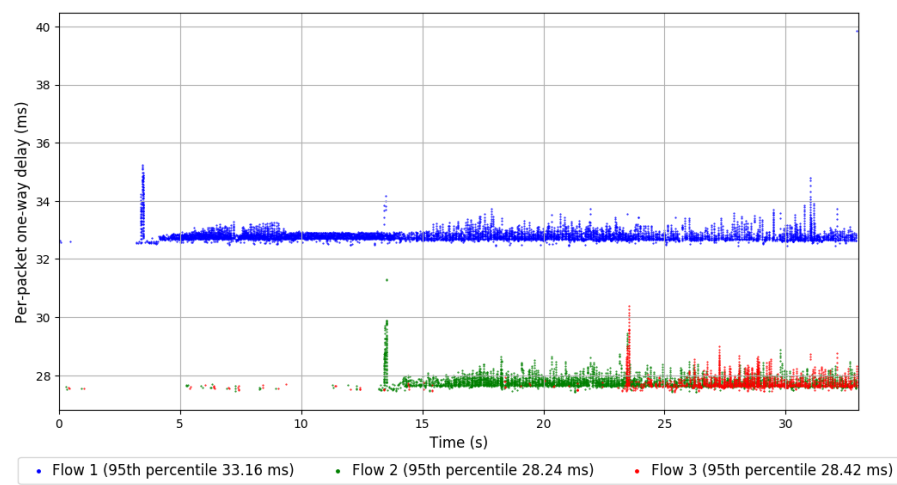
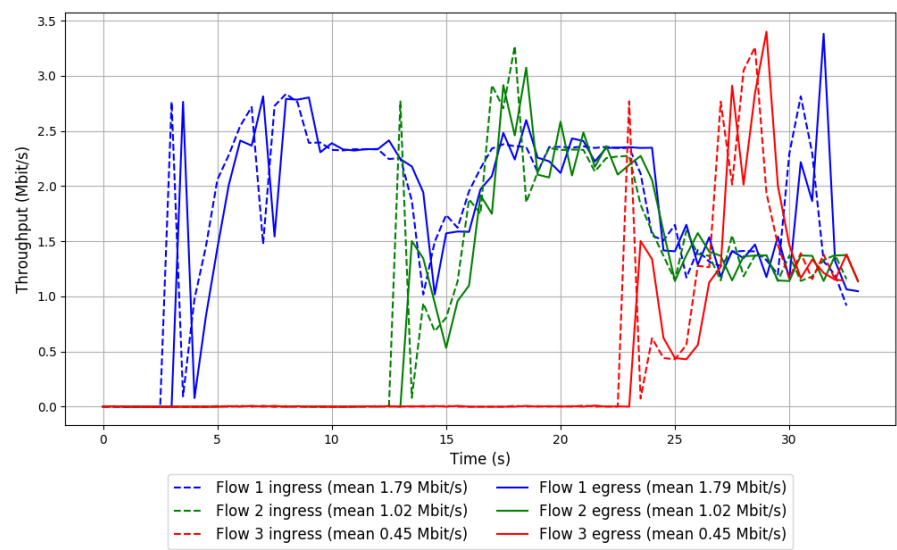


Run 6: Statistics of WebRTC media

Start at: 2018-06-06 04:38:43
End at: 2018-06-06 04:39:13
Local clock offset: 0.43 ms
Remote clock offset: -2.279 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 33.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 33.164 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 28.237 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 28.421 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

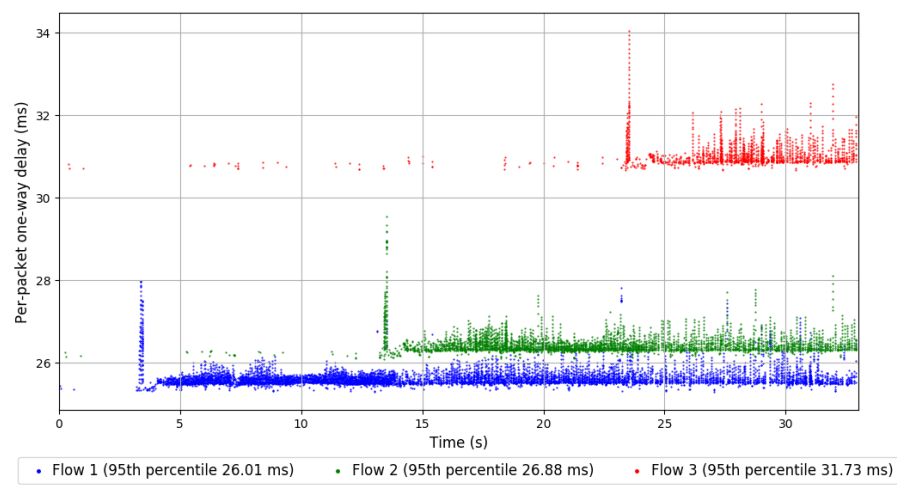
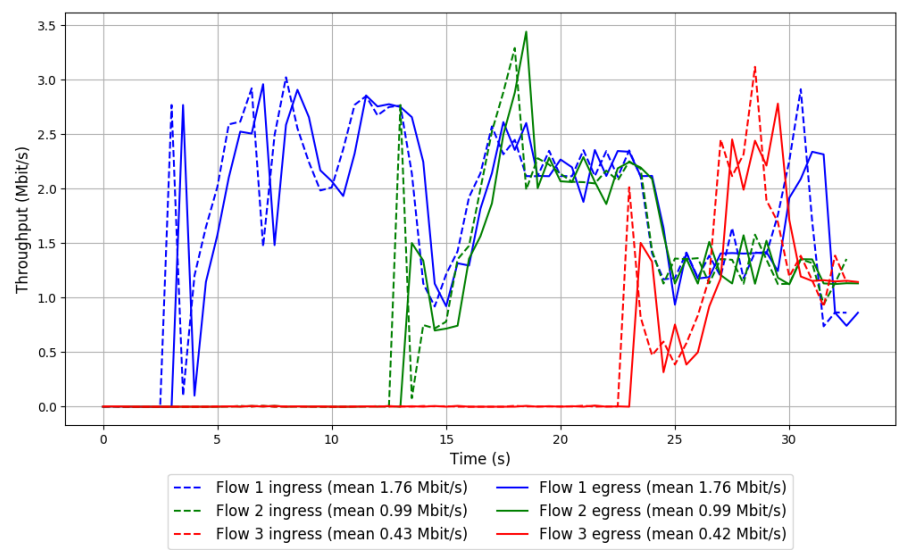


Run 7: Statistics of WebRTC media

Start at: 2018-06-06 05:00:12
End at: 2018-06-06 05:00:42
Local clock offset: 0.343 ms
Remote clock offset: -1.281 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 31.046 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 26.014 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 26.876 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 31.731 ms
Loss rate: 0.83%

Run 7: Report of WebRTC media — Data Link

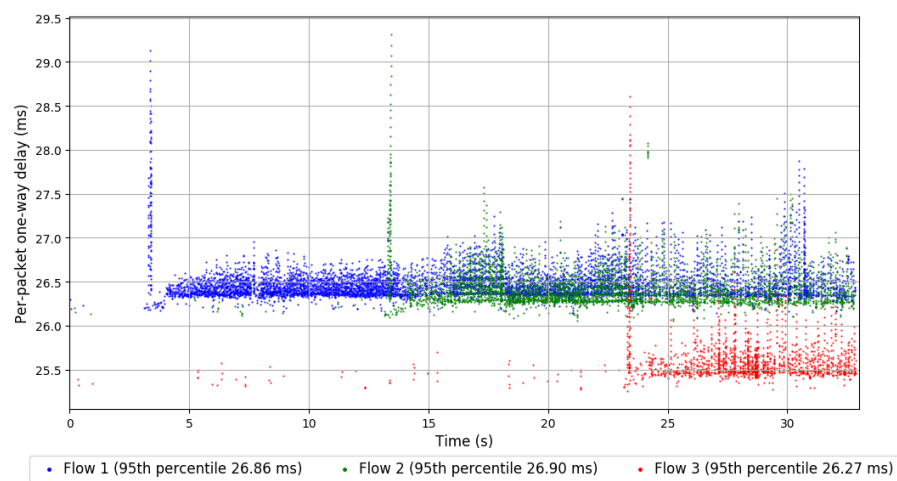
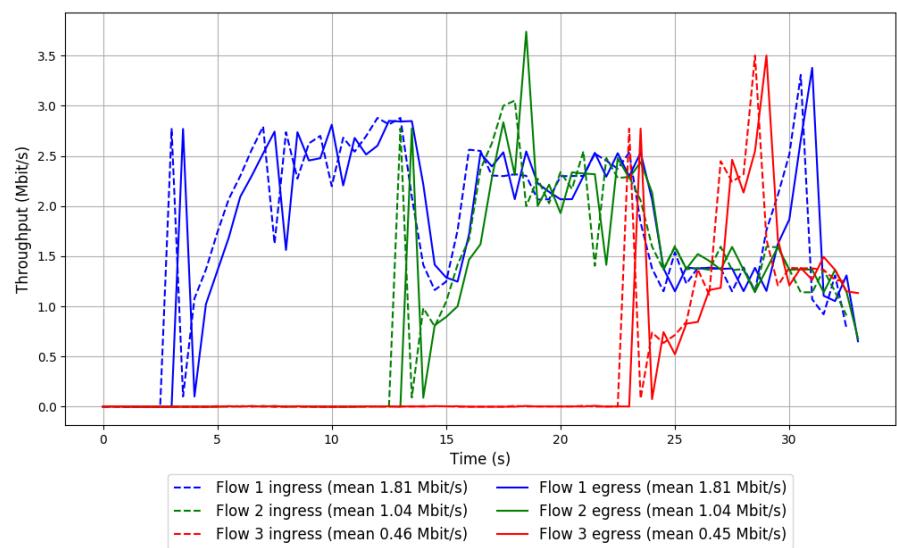


Run 8: Statistics of WebRTC media

Start at: 2018-06-06 05:21:44
End at: 2018-06-06 05:22:14
Local clock offset: 1.88 ms
Remote clock offset: -1.872 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 26.850 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 26.859 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 26.902 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 26.272 ms
Loss rate: 0.77%

Run 8: Report of WebRTC media — Data Link

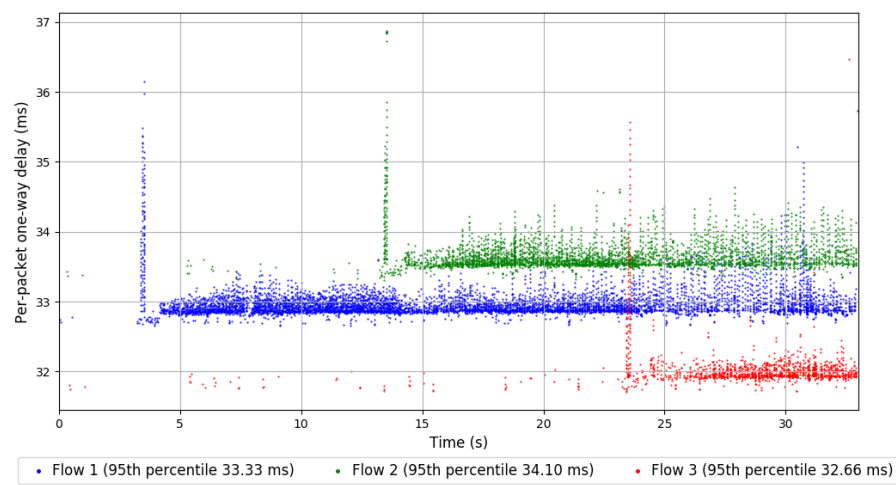
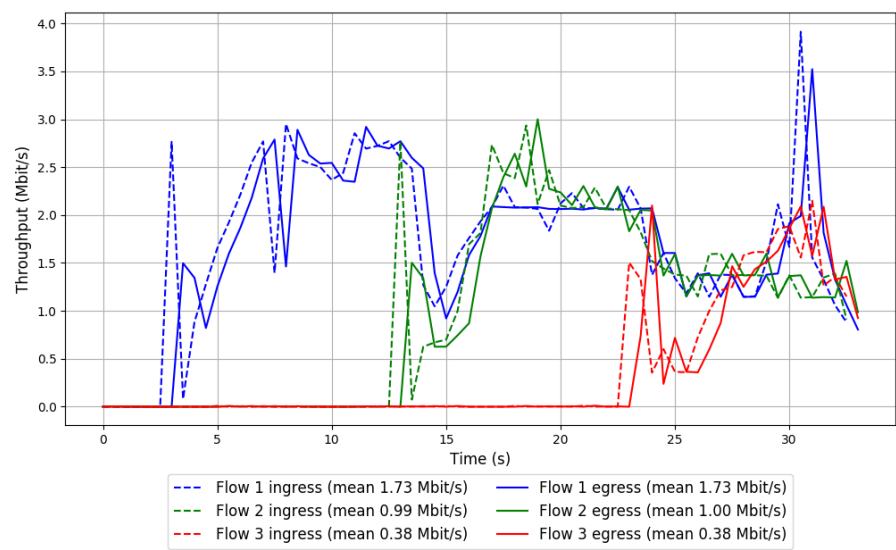


Run 9: Statistics of WebRTC media

Start at: 2018-06-06 05:43:16
End at: 2018-06-06 05:43:46
Local clock offset: 1.766 ms
Remote clock offset: -4.401 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 33.870 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 33.327 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 34.100 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.90%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 06:04:49
End at: 2018-06-06 06:05:19
Local clock offset: 1.496 ms
Remote clock offset: -1.769 ms

Below is generated by plot.py at 2018-06-06 06:50:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 30.286 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 30.255 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 30.372 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 26.293 ms
Loss rate: 0.75%

Run 10: Report of WebRTC media — Data Link

