

Pantheon Report

Generated at 2018-06-01 04:55:09 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

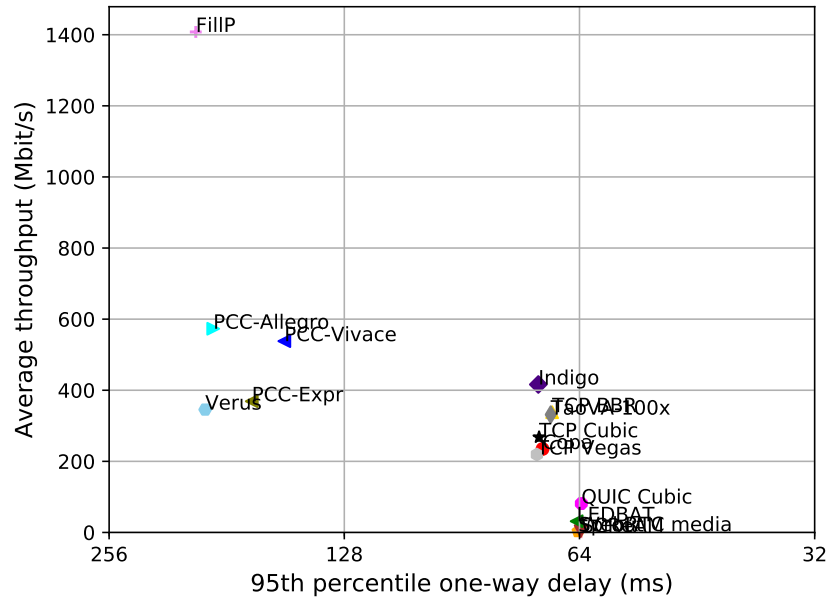
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

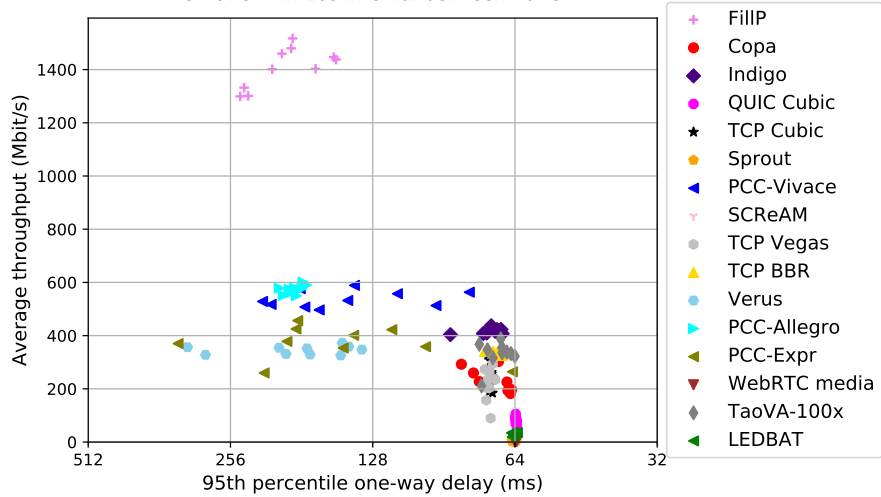
Git summary:

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

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



test from GCE Tokyo to GCE Iowa, 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	172.04	168.99	163.55	68.55	69.36	70.82	0.46	0.68	1.41
Copa	10	125.80	118.81	93.01	69.36	72.85	69.67	0.29	0.72	1.83
TCP Cubic	10	140.28	135.19	114.98	71.73	71.34	70.18	0.42	0.85	2.06
FillP	10	785.60	659.56	560.62	184.29	201.53	204.77	3.80	6.09	6.83
Indigo	10	215.83	209.44	183.79	70.48	72.12	75.40	0.42	0.63	1.45
LEDBAT	10	19.87	14.11	7.08	64.56	64.55	64.20	0.82	1.24	2.53
PCC-Allegro	10	550.52	20.49	27.24	188.64	185.69	175.26	2.36	3.00	4.64
PCC-Expr	10	232.12	165.99	81.52	163.79	118.91	89.99	2.06	1.81	2.33
QUIC Cubic	10	46.51	42.03	19.65	63.61	63.42	63.32	0.58	0.88	2.13
SCReAM	10	0.22	0.22	0.22	63.46	63.58	63.24	0.38	0.61	1.19
Sprout	10	1.32	1.54	1.51	64.15	64.09	64.14	0.21	0.94	1.15
TaoVA-100x	10	168.84	163.30	164.87	67.62	67.80	71.78	0.39	0.44	1.09
TCP Vegas	10	111.58	116.60	91.74	70.46	71.68	71.37	0.33	0.67	1.64
Verus	10	211.76	148.11	108.27	184.36	198.62	205.16	3.80	5.30	4.90
PCC-Vivace	10	317.40	263.87	139.34	140.68	125.30	107.27	0.61	0.82	2.52
WebRTC media	10	1.92	1.28	0.53	63.74	63.52	63.75	0.51	0.88	1.76

Run 1: Statistics of TCP BBR

Start at: 2018-05-31 22:24:52

End at: 2018-05-31 22:25:22

Local clock offset: -0.033 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-06-01 02:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.33 Mbit/s

95th percentile per-packet one-way delay: 67.423 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 177.91 Mbit/s

95th percentile per-packet one-way delay: 67.024 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 170.50 Mbit/s

95th percentile per-packet one-way delay: 67.344 ms

Loss rate: 0.66%

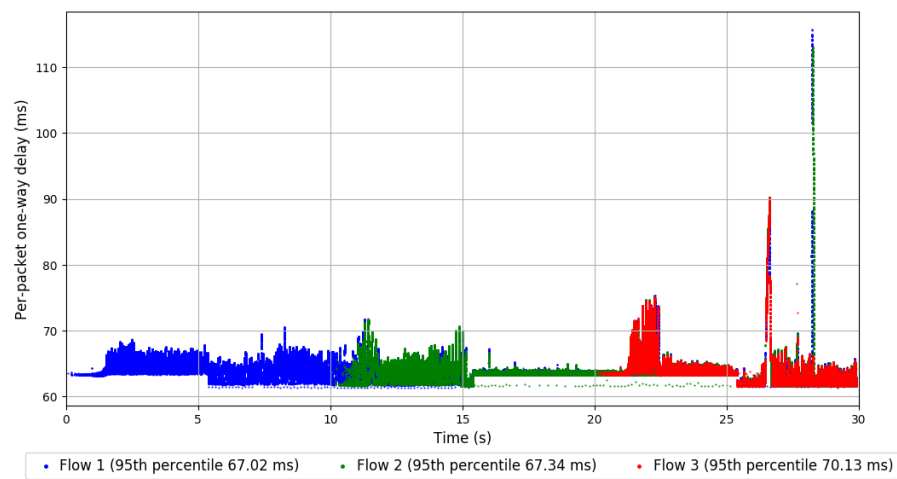
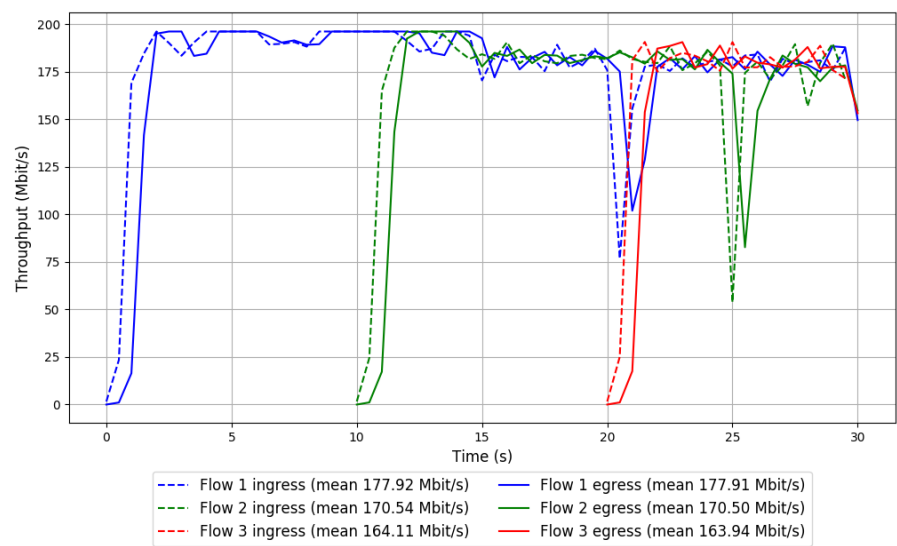
-- Flow 3:

Average throughput: 163.94 Mbit/s

95th percentile per-packet one-way delay: 70.128 ms

Loss rate: 1.39%

Run 1: Report of TCP BBR — Data Link

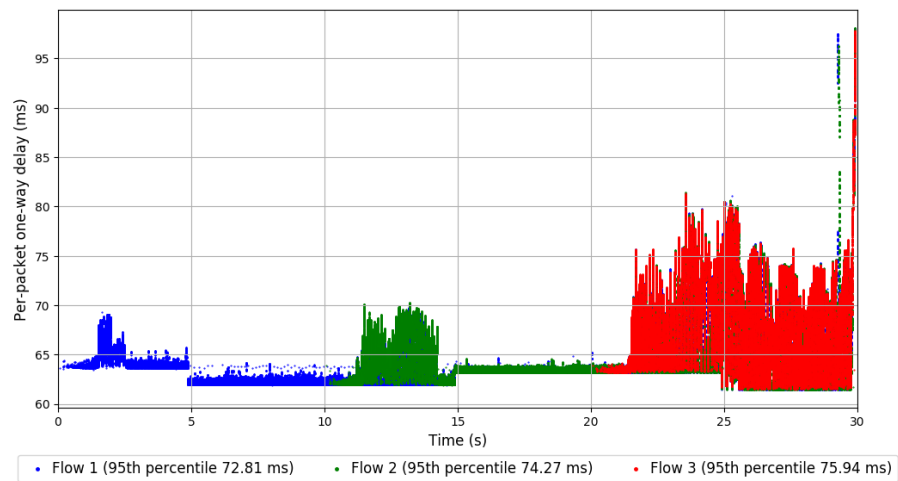
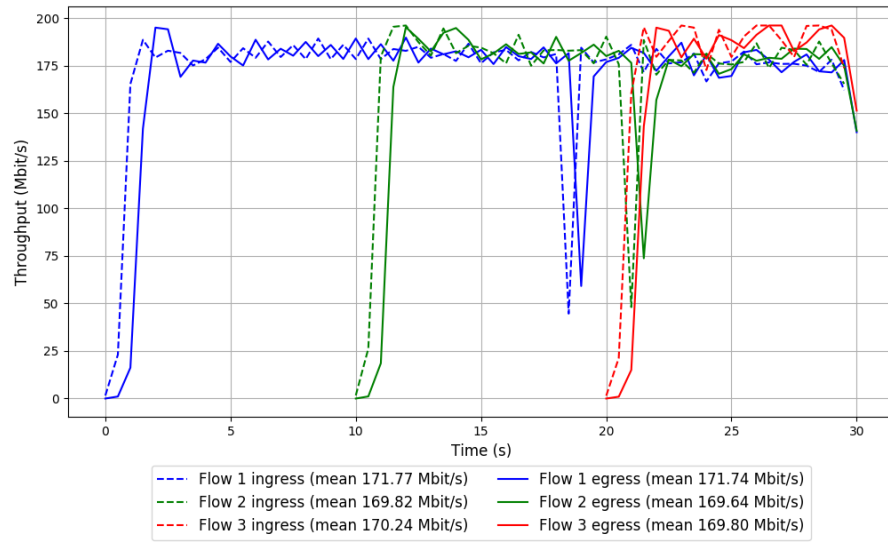


Run 2: Statistics of TCP BBR

Start at: 2018-05-31 22:48:33
End at: 2018-05-31 22:49:03
Local clock offset: -0.022 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-01 02:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.50 Mbit/s
95th percentile per-packet one-way delay: 74.212 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 171.74 Mbit/s
95th percentile per-packet one-way delay: 72.811 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 169.64 Mbit/s
95th percentile per-packet one-way delay: 74.267 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 169.80 Mbit/s
95th percentile per-packet one-way delay: 75.935 ms
Loss rate: 1.51%

Run 2: Report of TCP BBR — Data Link

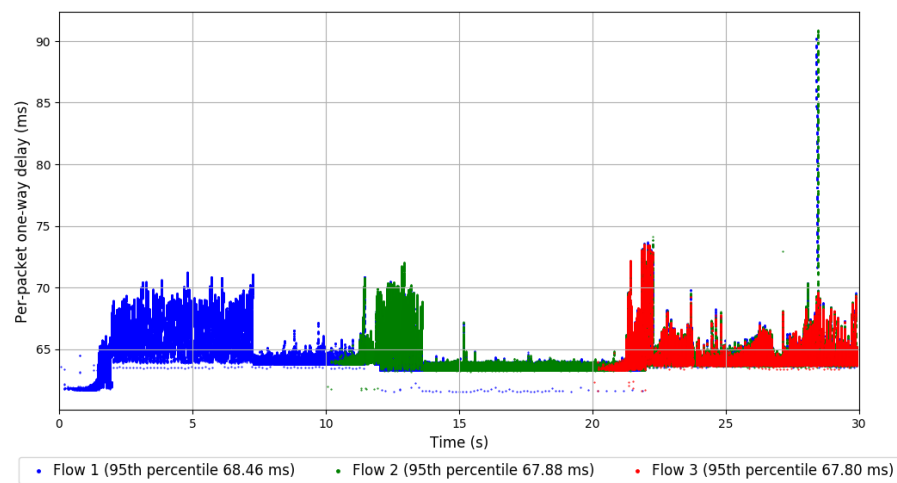
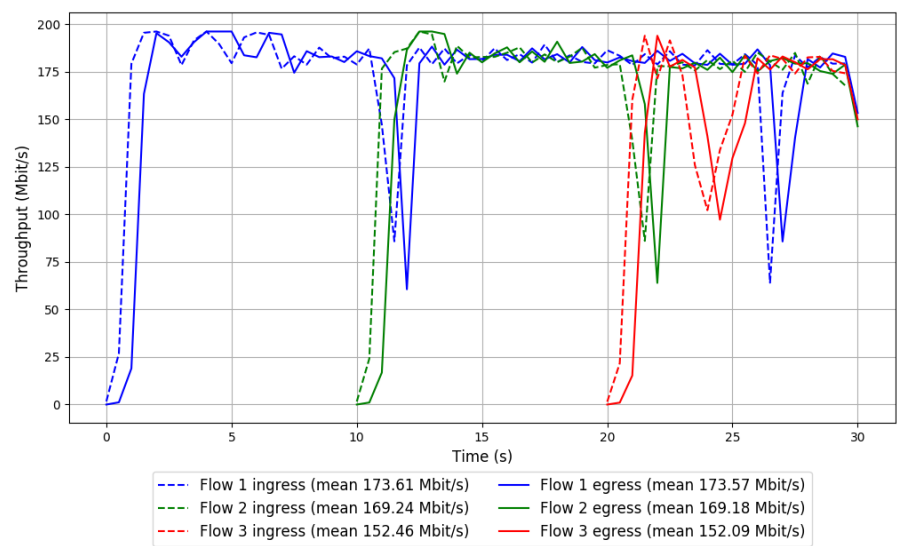


Run 3: Statistics of TCP BBR

Start at: 2018-05-31 23:12:05
End at: 2018-05-31 23:12:35
Local clock offset: -0.051 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-01 02:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.17 Mbit/s
95th percentile per-packet one-way delay: 68.272 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 173.57 Mbit/s
95th percentile per-packet one-way delay: 68.461 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 169.18 Mbit/s
95th percentile per-packet one-way delay: 67.879 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 152.09 Mbit/s
95th percentile per-packet one-way delay: 67.801 ms
Loss rate: 1.50%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-31 23:35:30

End at: 2018-05-31 23:36:00

Local clock offset: 0.004 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-06-01 02:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.58 Mbit/s

95th percentile per-packet one-way delay: 67.646 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 167.43 Mbit/s

95th percentile per-packet one-way delay: 67.484 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 162.64 Mbit/s

95th percentile per-packet one-way delay: 67.810 ms

Loss rate: 0.71%

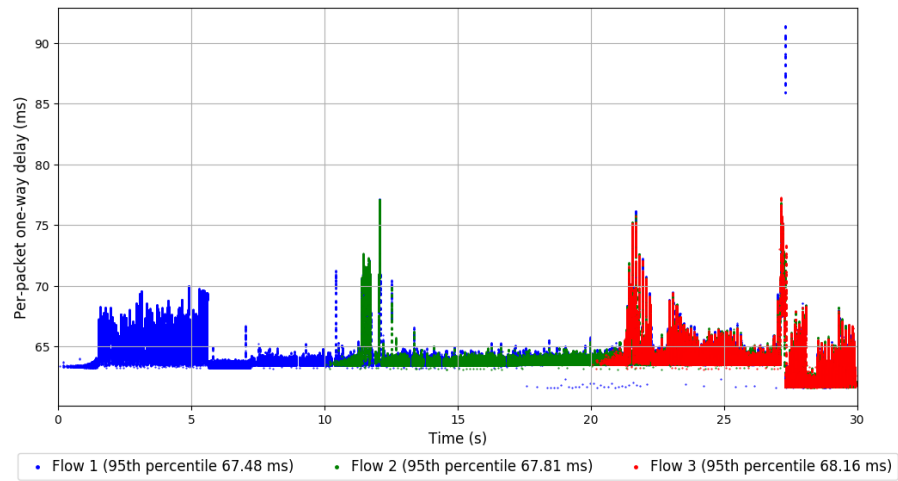
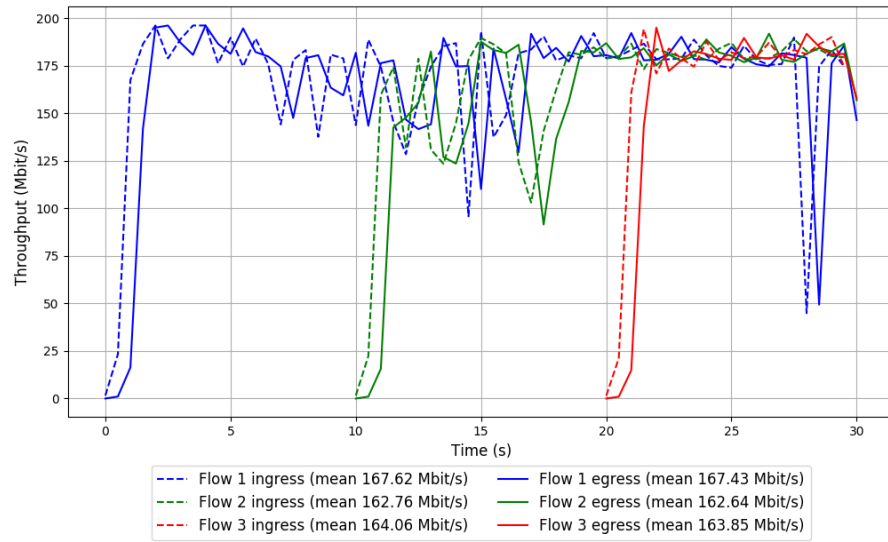
-- Flow 3:

Average throughput: 163.85 Mbit/s

95th percentile per-packet one-way delay: 68.161 ms

Loss rate: 1.40%

Run 4: Report of TCP BBR — Data Link

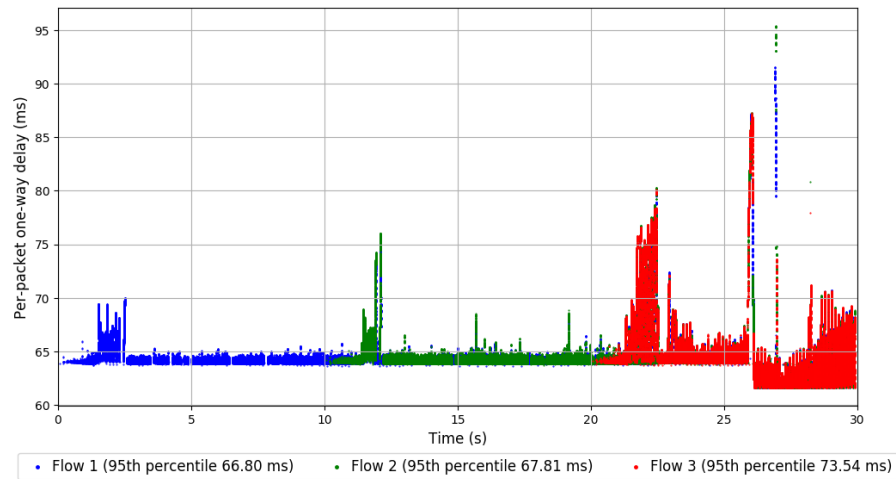
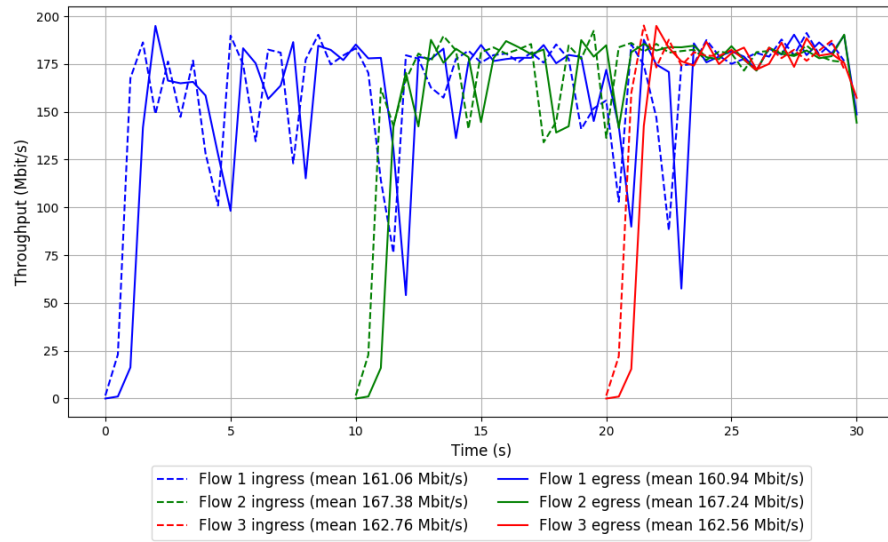


Run 5: Statistics of TCP BBR

Start at: 2018-05-31 23:58:41
End at: 2018-05-31 23:59:11
Local clock offset: 0.008 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-06-01 02:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.56 Mbit/s
95th percentile per-packet one-way delay: 68.173 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 160.94 Mbit/s
95th percentile per-packet one-way delay: 66.795 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 167.24 Mbit/s
95th percentile per-packet one-way delay: 67.813 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 162.56 Mbit/s
95th percentile per-packet one-way delay: 73.539 ms
Loss rate: 1.39%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-01 00:21:50

End at: 2018-06-01 00:22:20

Local clock offset: 0.012 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-01 02:39:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.76 Mbit/s

95th percentile per-packet one-way delay: 67.726 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 176.70 Mbit/s

95th percentile per-packet one-way delay: 67.905 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 173.80 Mbit/s

95th percentile per-packet one-way delay: 67.094 ms

Loss rate: 0.65%

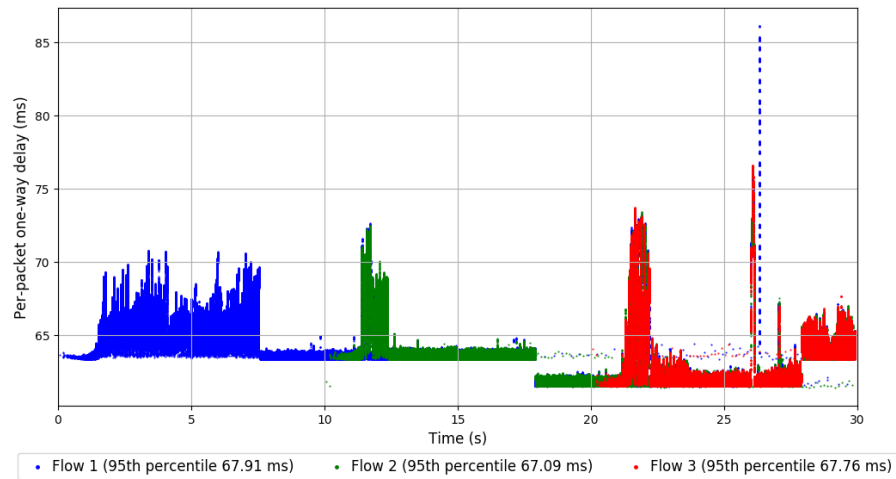
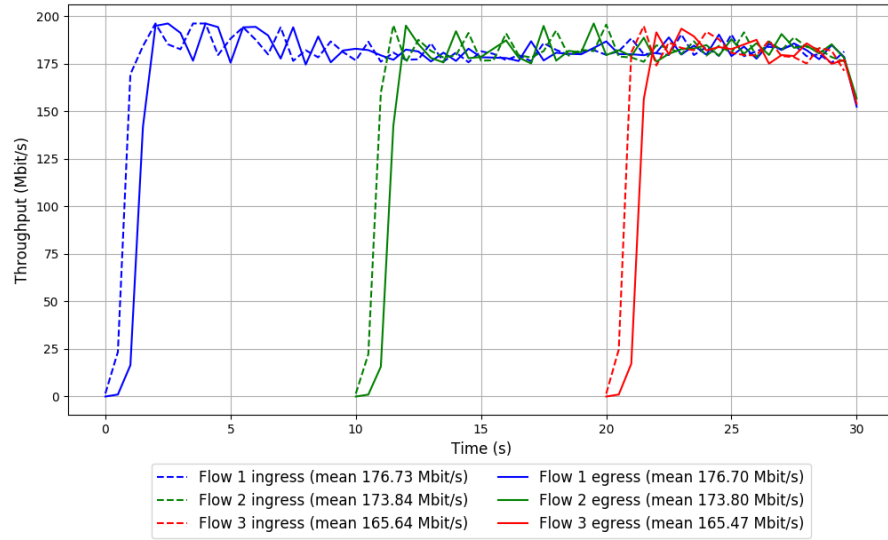
-- Flow 3:

Average throughput: 165.47 Mbit/s

95th percentile per-packet one-way delay: 67.763 ms

Loss rate: 1.39%

Run 6: Report of TCP BBR — Data Link

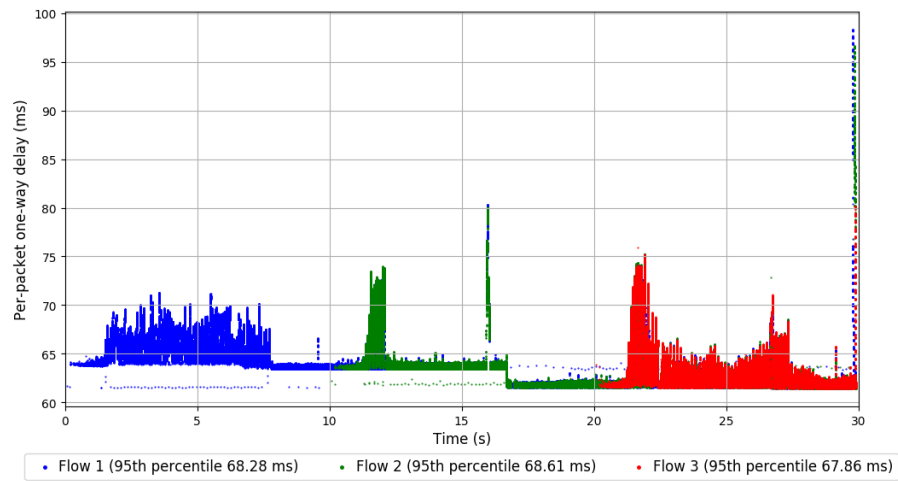
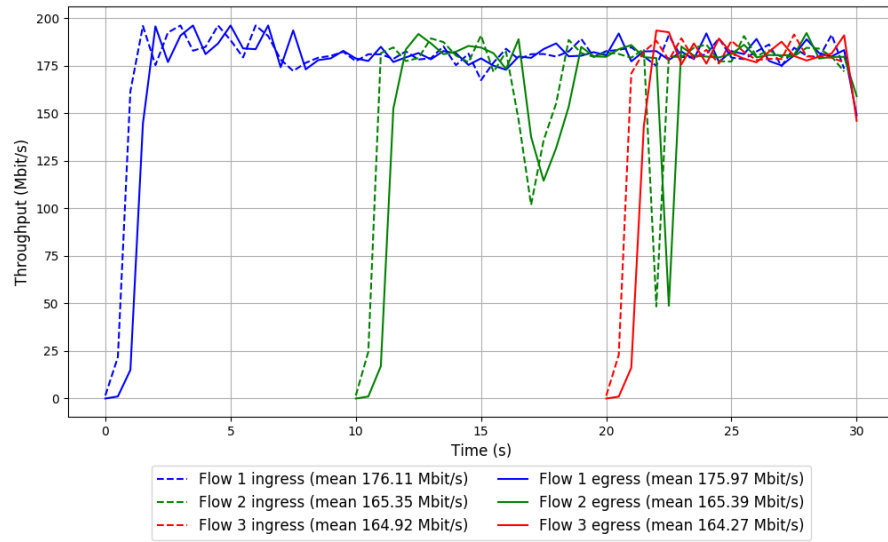


Run 7: Statistics of TCP BBR

Start at: 2018-06-01 00:45:11
End at: 2018-06-01 00:45:41
Local clock offset: -0.046 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-01 02:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.09 Mbit/s
95th percentile per-packet one-way delay: 68.274 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 175.97 Mbit/s
95th percentile per-packet one-way delay: 68.280 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 165.39 Mbit/s
95th percentile per-packet one-way delay: 68.607 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 164.27 Mbit/s
95th percentile per-packet one-way delay: 67.858 ms
Loss rate: 1.41%

Run 7: Report of TCP BBR — Data Link

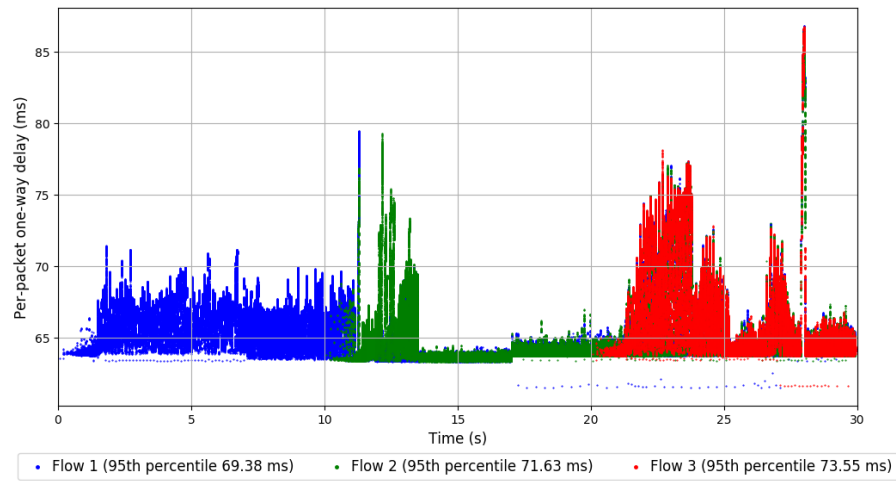
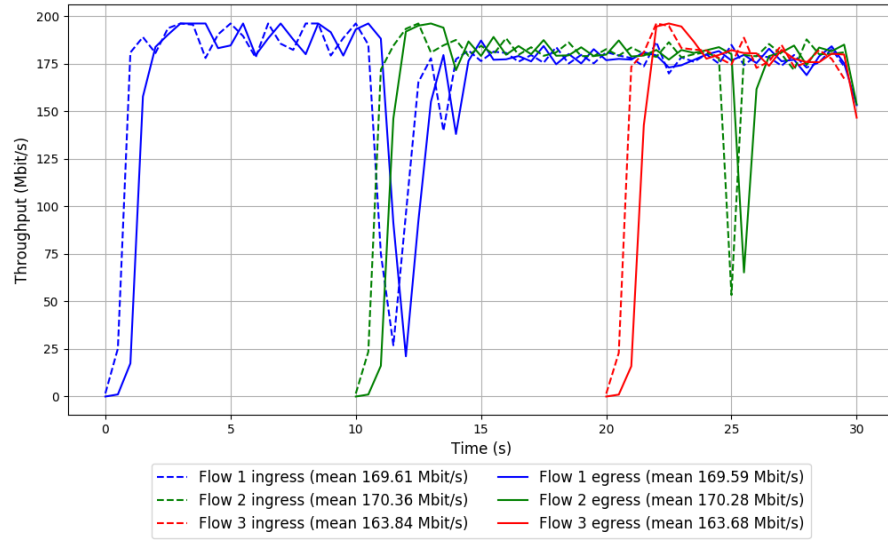


Run 8: Statistics of TCP BBR

Start at: 2018-06-01 01:08:40
End at: 2018-06-01 01:09:10
Local clock offset: 0.051 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-01 02:39:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.73 Mbit/s
95th percentile per-packet one-way delay: 71.259 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 169.59 Mbit/s
95th percentile per-packet one-way delay: 69.378 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 170.28 Mbit/s
95th percentile per-packet one-way delay: 71.626 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 163.68 Mbit/s
95th percentile per-packet one-way delay: 73.550 ms
Loss rate: 1.35%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-01 01:32:02

End at: 2018-06-01 01:32:32

Local clock offset: 0.192 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2018-06-01 02:44:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.95 Mbit/s

95th percentile per-packet one-way delay: 71.161 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 173.03 Mbit/s

95th percentile per-packet one-way delay: 69.104 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 171.06 Mbit/s

95th percentile per-packet one-way delay: 70.714 ms

Loss rate: 0.69%

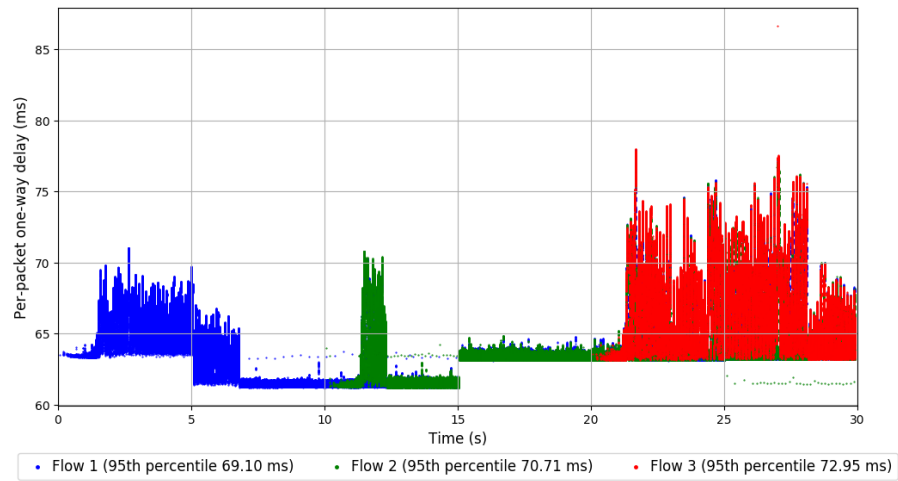
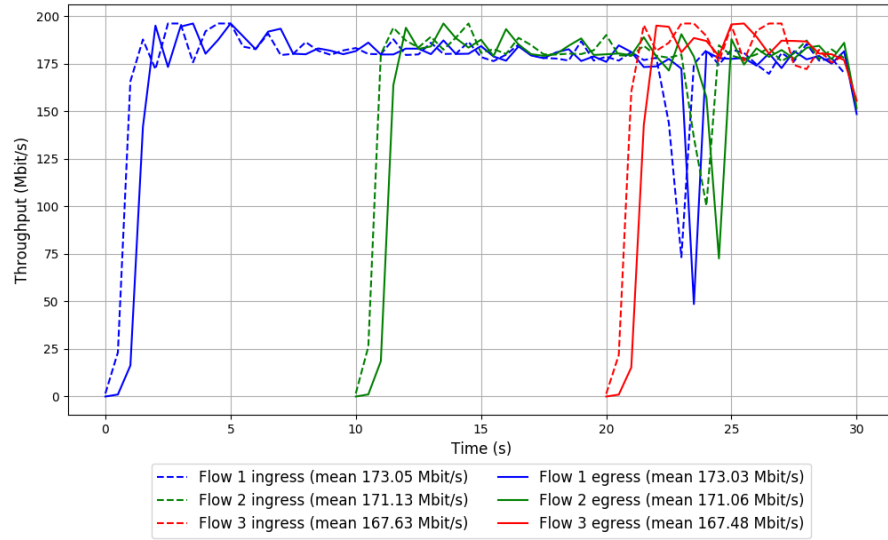
-- Flow 3:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 72.948 ms

Loss rate: 1.36%

Run 9: Report of TCP BBR — Data Link

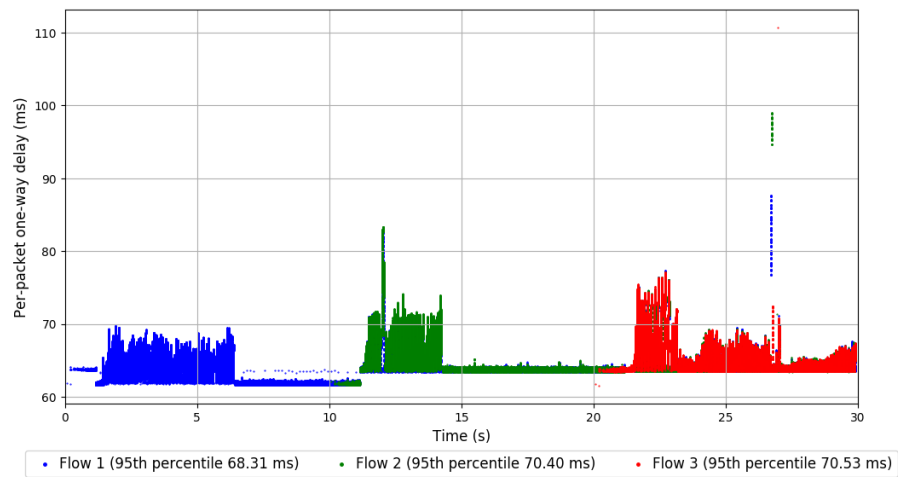
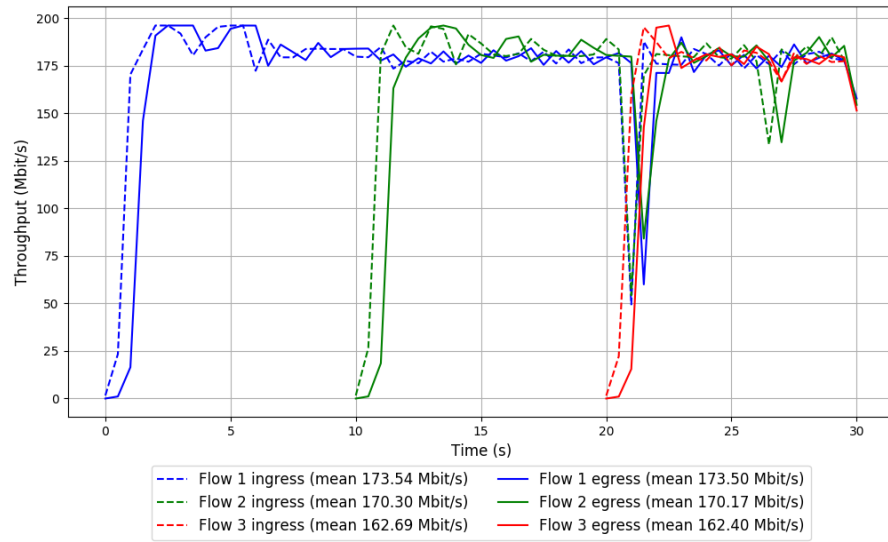


Run 10: Statistics of TCP BBR

Start at: 2018-06-01 01:55:16
End at: 2018-06-01 01:55:46
Local clock offset: 0.071 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-01 02:44:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.13 Mbit/s
95th percentile per-packet one-way delay: 69.593 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 173.50 Mbit/s
95th percentile per-packet one-way delay: 68.307 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 170.17 Mbit/s
95th percentile per-packet one-way delay: 70.399 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 162.40 Mbit/s
95th percentile per-packet one-way delay: 70.530 ms
Loss rate: 1.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-31 22:38:59

End at: 2018-05-31 22:39:29

Local clock offset: -0.047 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-01 02:48:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.57 Mbit/s

95th percentile per-packet one-way delay: 69.357 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 155.27 Mbit/s

95th percentile per-packet one-way delay: 65.926 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 149.78 Mbit/s

95th percentile per-packet one-way delay: 73.485 ms

Loss rate: 0.41%

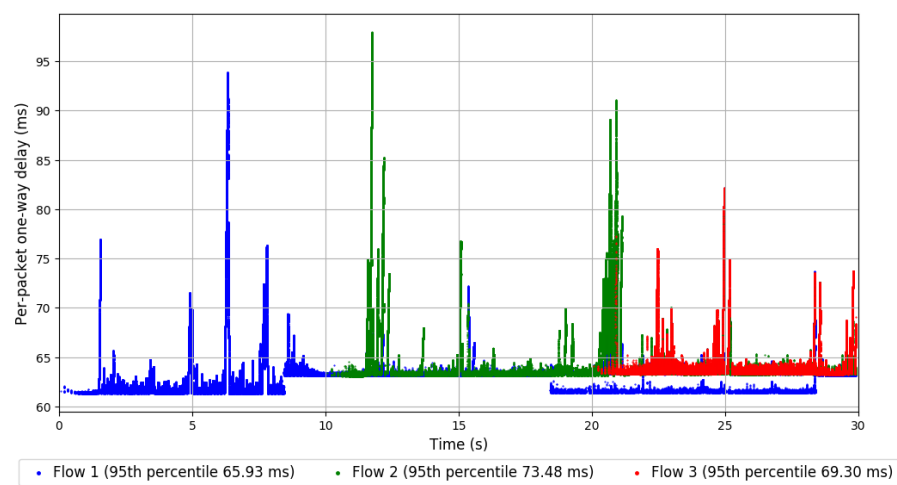
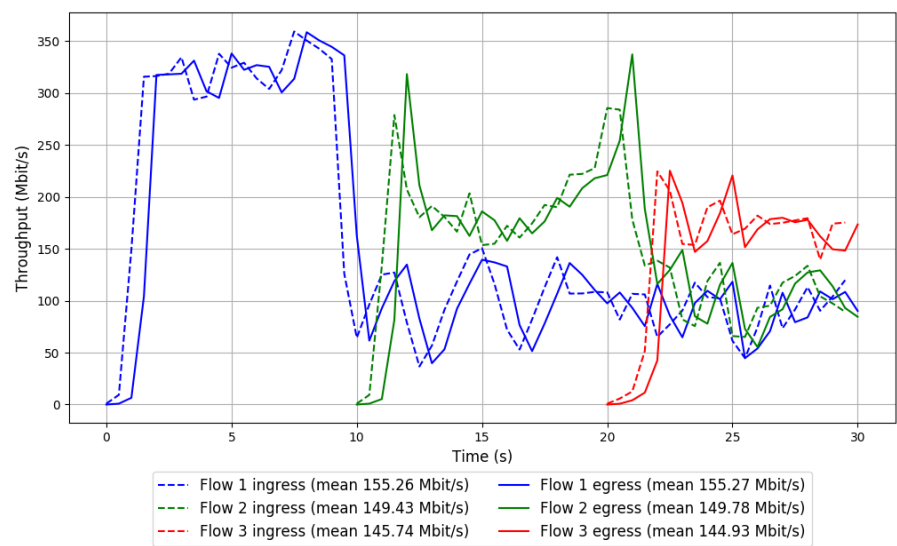
-- Flow 3:

Average throughput: 144.93 Mbit/s

95th percentile per-packet one-way delay: 69.295 ms

Loss rate: 1.82%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-31 23:02:39

End at: 2018-05-31 23:03:09

Local clock offset: -0.009 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-06-01 02:48:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.59 Mbit/s

95th percentile per-packet one-way delay: 78.331 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 156.37 Mbit/s

95th percentile per-packet one-way delay: 79.147 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 111.96 Mbit/s

95th percentile per-packet one-way delay: 76.948 ms

Loss rate: 0.45%

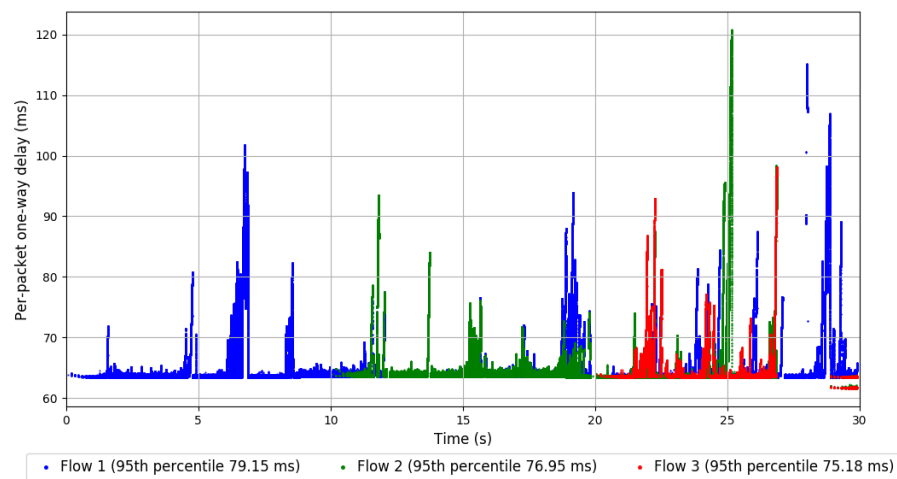
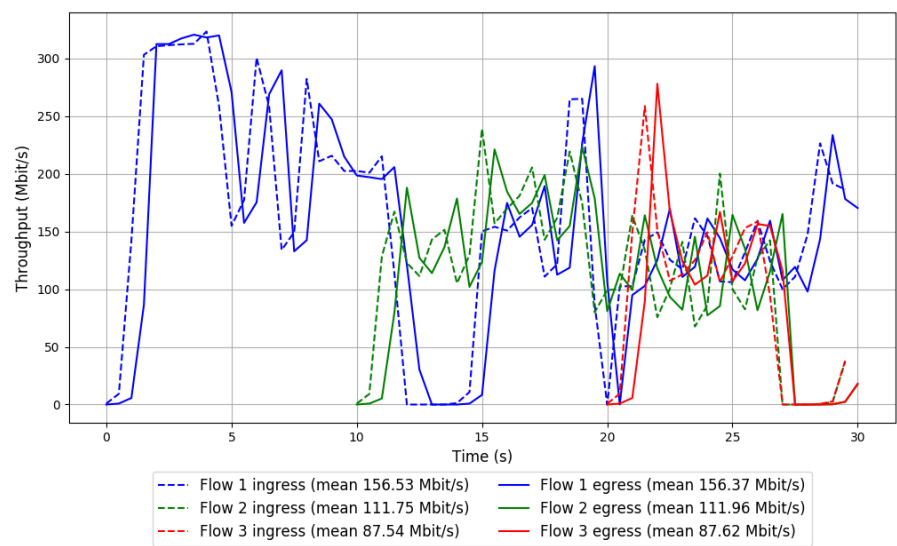
-- Flow 3:

Average throughput: 87.62 Mbit/s

95th percentile per-packet one-way delay: 75.176 ms

Loss rate: 1.17%

Run 2: Report of Copa — Data Link

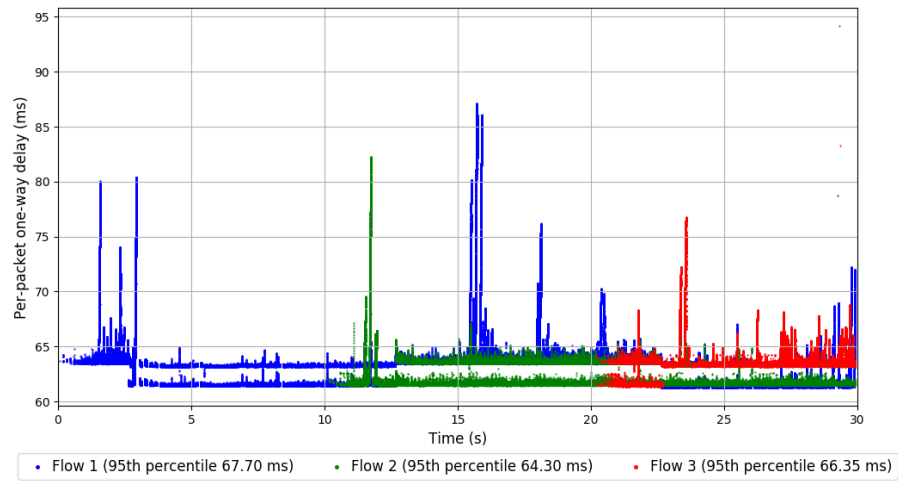
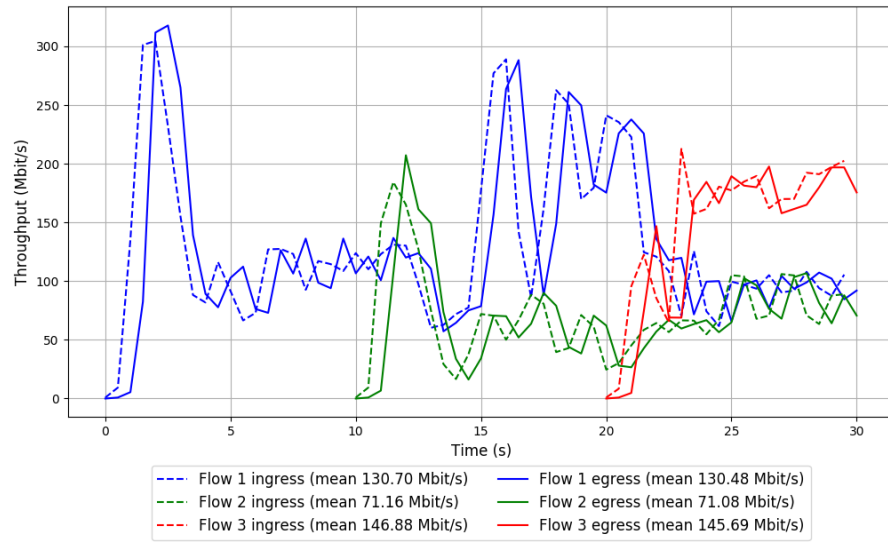


Run 3: Statistics of Copa

Start at: 2018-05-31 23:26:05
End at: 2018-05-31 23:26:35
Local clock offset: -0.026 ms
Remote clock offset: 0.143 ms

Below is generated by plot.py at 2018-06-01 02:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.75 Mbit/s
95th percentile per-packet one-way delay: 66.553 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 130.48 Mbit/s
95th percentile per-packet one-way delay: 67.698 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 71.08 Mbit/s
95th percentile per-packet one-way delay: 64.296 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 145.69 Mbit/s
95th percentile per-packet one-way delay: 66.350 ms
Loss rate: 2.04%

Run 3: Report of Copa — Data Link

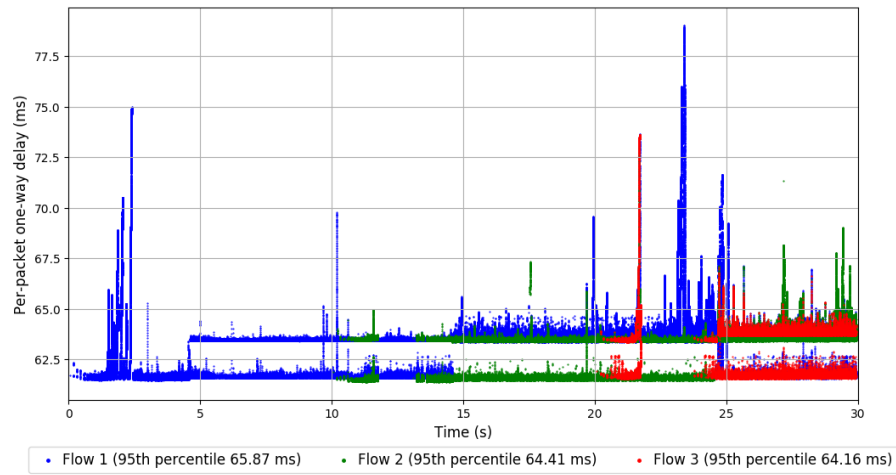
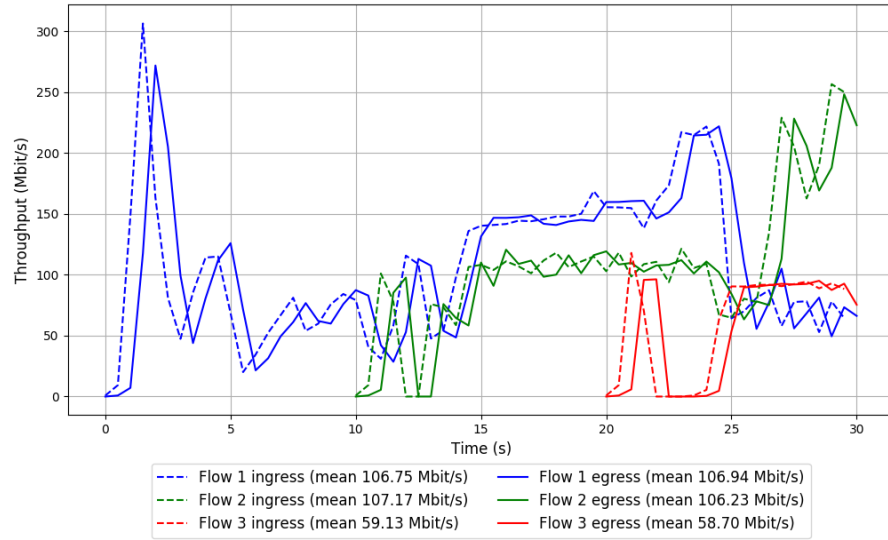


Run 4: Statistics of Copa

Start at: 2018-05-31 23:49:33
End at: 2018-05-31 23:50:03
Local clock offset: 0.023 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-01 02:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 196.92 Mbit/s
95th percentile per-packet one-way delay: 65.042 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 106.94 Mbit/s
95th percentile per-packet one-way delay: 65.869 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 106.23 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 58.70 Mbit/s
95th percentile per-packet one-way delay: 64.159 ms
Loss rate: 1.95%

Run 4: Report of Copa — Data Link

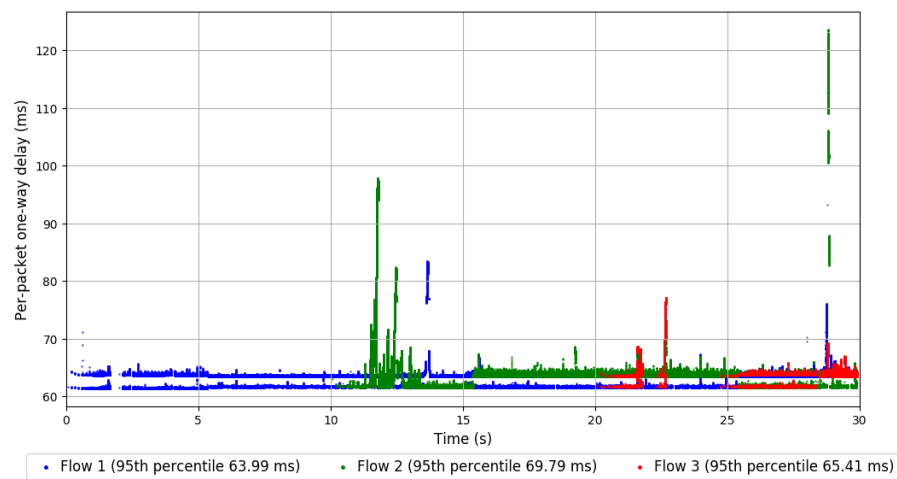
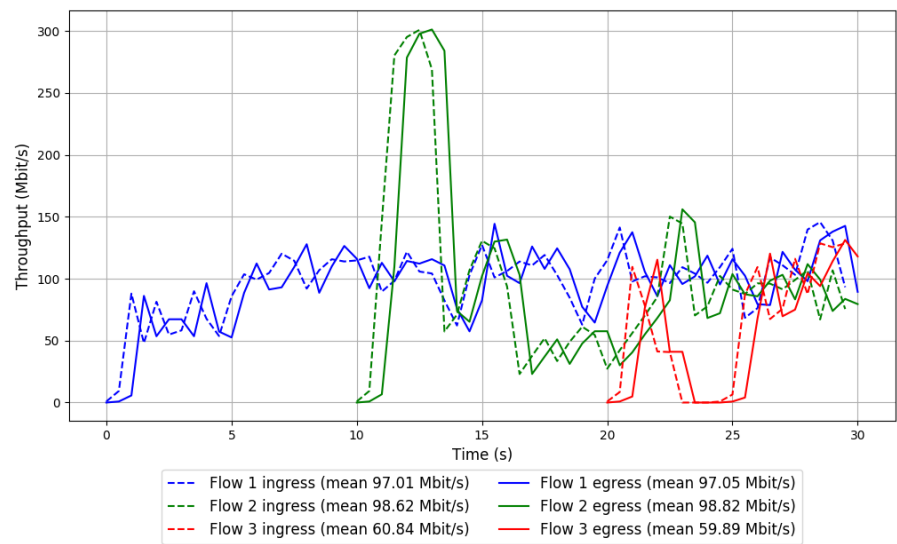


Run 5: Statistics of Copa

Start at: 2018-06-01 00:12:42
End at: 2018-06-01 00:13:12
Local clock offset: -0.014 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 02:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 182.37 Mbit/s
95th percentile per-packet one-way delay: 65.387 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 98.82 Mbit/s
95th percentile per-packet one-way delay: 69.789 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 65.411 ms
Loss rate: 2.81%

Run 5: Report of Copa — Data Link

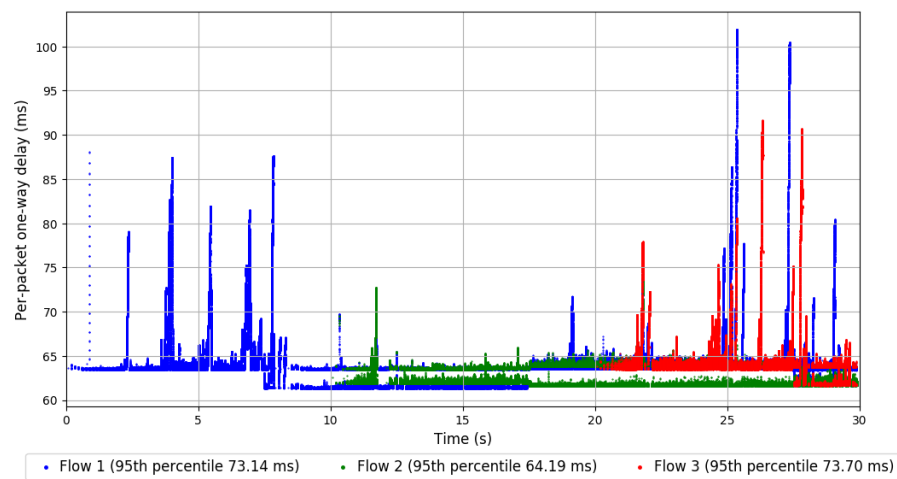
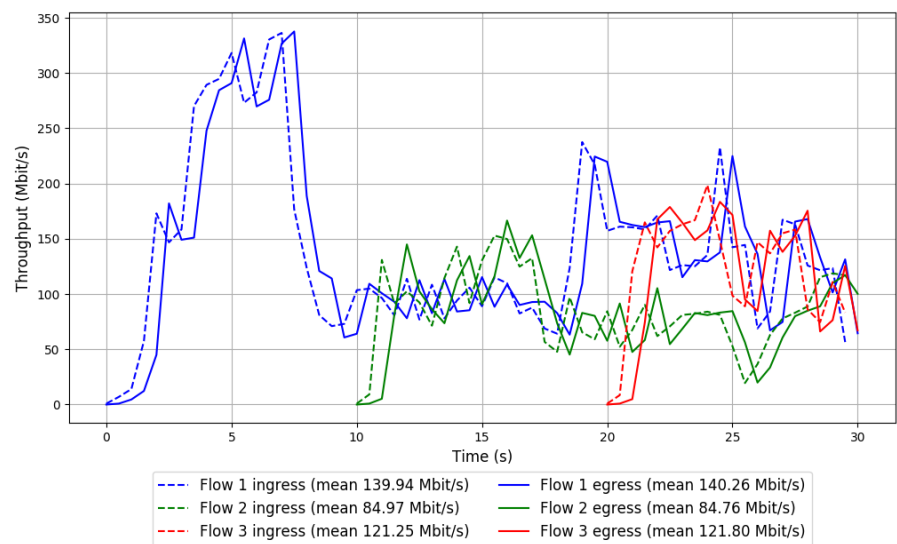


Run 6: Statistics of Copa

Start at: 2018-06-01 00:36:00
End at: 2018-06-01 00:36:30
Local clock offset: -0.013 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-01 02:48:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.60 Mbit/s
95th percentile per-packet one-way delay: 70.926 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 140.26 Mbit/s
95th percentile per-packet one-way delay: 73.139 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 84.76 Mbit/s
95th percentile per-packet one-way delay: 64.188 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 121.80 Mbit/s
95th percentile per-packet one-way delay: 73.702 ms
Loss rate: 0.81%

Run 6: Report of Copa — Data Link

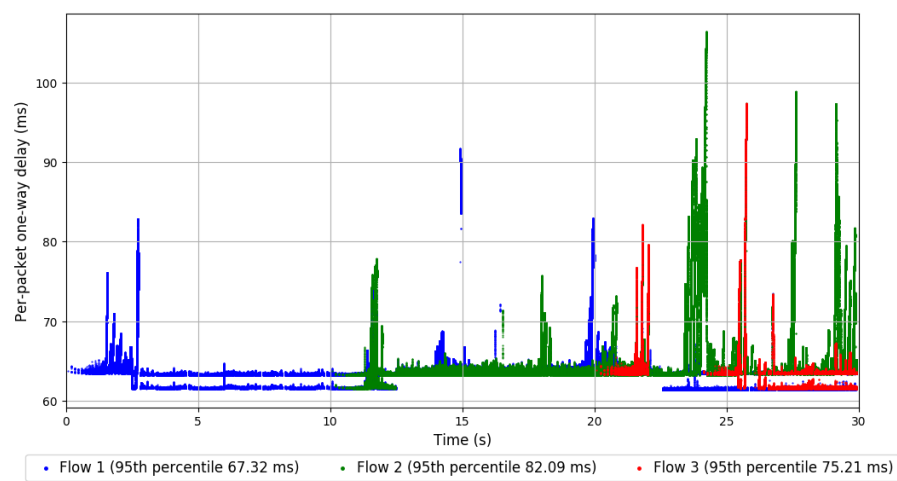
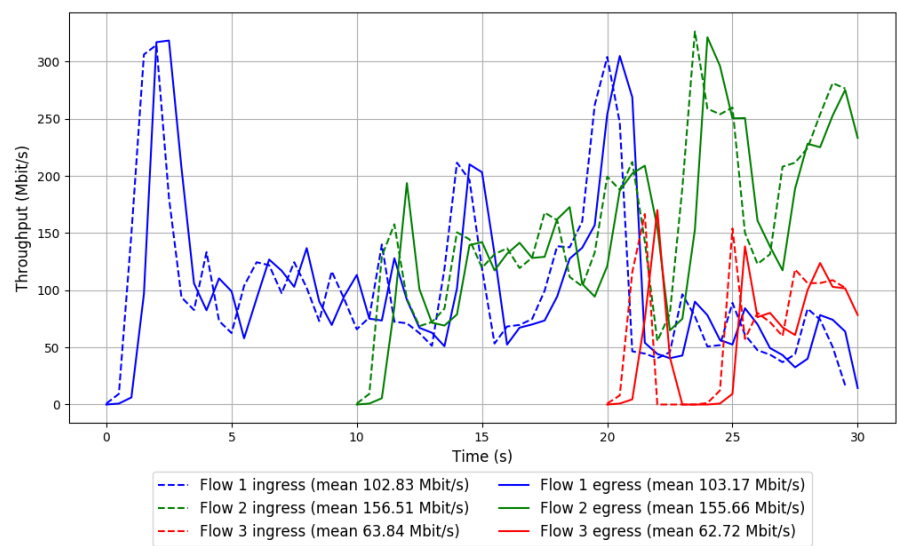


Run 7: Statistics of Copa

Start at: 2018-06-01 00:59:25
End at: 2018-06-01 00:59:55
Local clock offset: -0.034 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-01 02:52:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 227.27 Mbit/s
95th percentile per-packet one-way delay: 76.150 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 103.17 Mbit/s
95th percentile per-packet one-way delay: 67.323 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 155.66 Mbit/s
95th percentile per-packet one-way delay: 82.091 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 62.72 Mbit/s
95th percentile per-packet one-way delay: 75.209 ms
Loss rate: 3.02%

Run 7: Report of Copa — Data Link

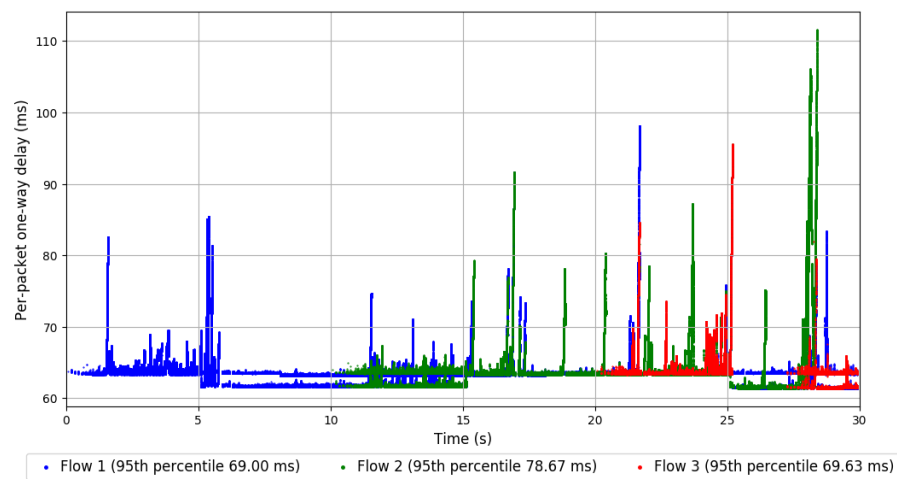
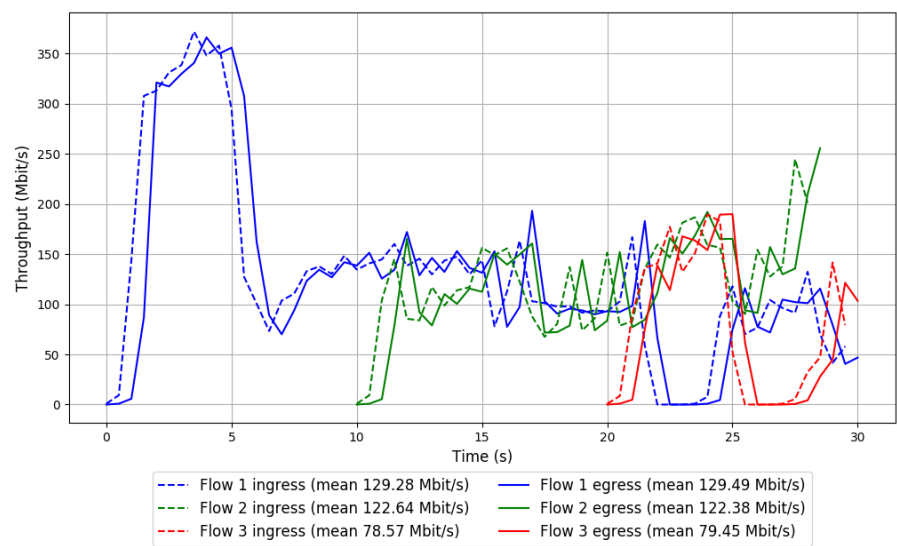


Run 8: Statistics of Copa

Start at: 2018-06-01 01:22:42
End at: 2018-06-01 01:23:12
Local clock offset: 0.127 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-01 02:52:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 230.79 Mbit/s
95th percentile per-packet one-way delay: 72.624 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 129.49 Mbit/s
95th percentile per-packet one-way delay: 68.997 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 122.38 Mbit/s
95th percentile per-packet one-way delay: 78.668 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 79.45 Mbit/s
95th percentile per-packet one-way delay: 69.633 ms
Loss rate: 0.28%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-01 01:46:00

End at: 2018-06-01 01:46:30

Local clock offset: 0.062 ms

Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-06-01 02:52:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.42 Mbit/s

95th percentile per-packet one-way delay: 66.216 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 99.85 Mbit/s

95th percentile per-packet one-way delay: 67.280 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 64.508 ms

Loss rate: 0.62%

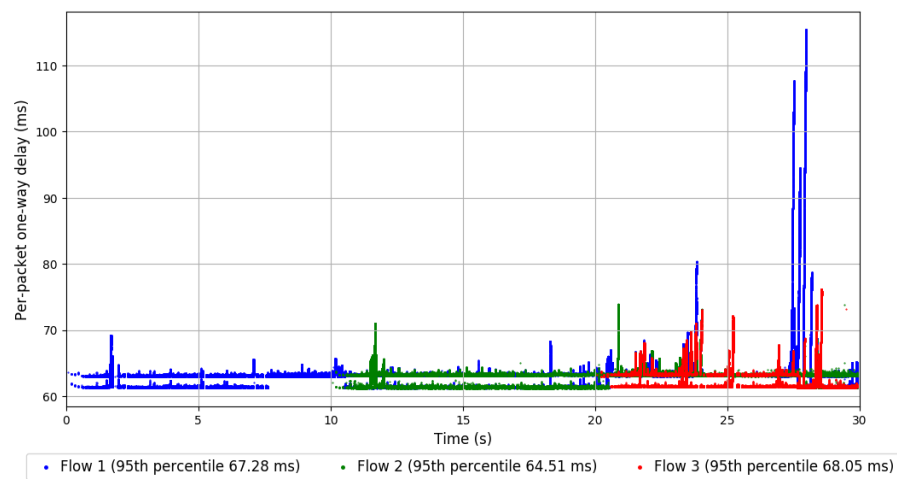
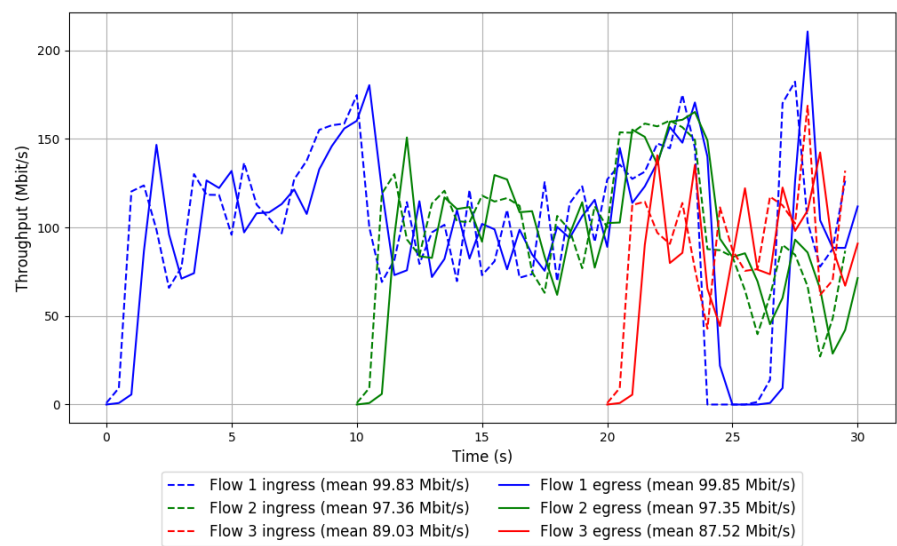
-- Flow 3:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 68.047 ms

Loss rate: 2.92%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-01 02:09:22

End at: 2018-06-01 02:09:52

Local clock offset: -0.026 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-06-01 02:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.45 Mbit/s

95th percentile per-packet one-way delay: 83.087 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 139.10 Mbit/s

95th percentile per-packet one-way delay: 74.202 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 190.11 Mbit/s

95th percentile per-packet one-way delay: 90.119 ms

Loss rate: 0.83%

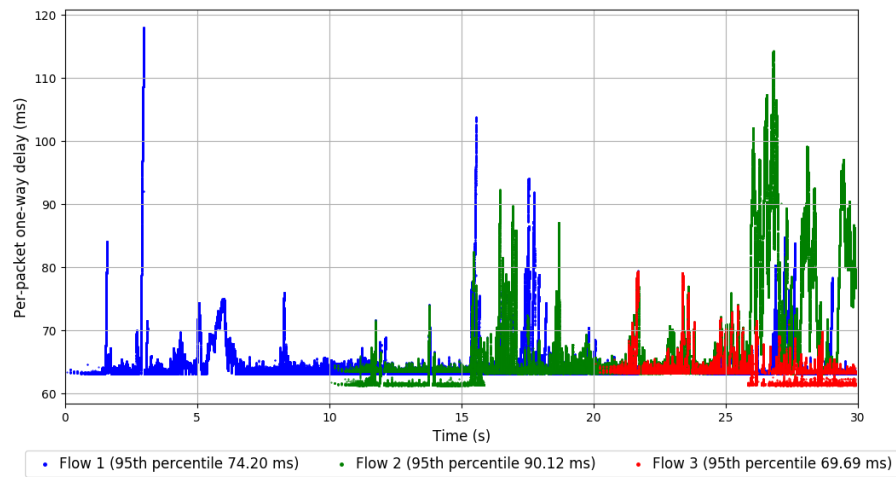
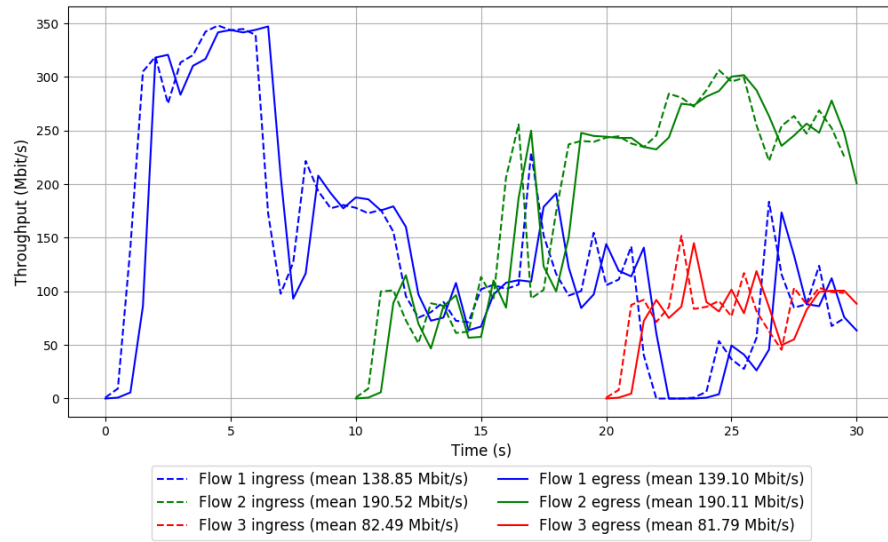
-- Flow 3:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 69.687 ms

Loss rate: 1.47%

Run 10: Report of Copa — Data Link

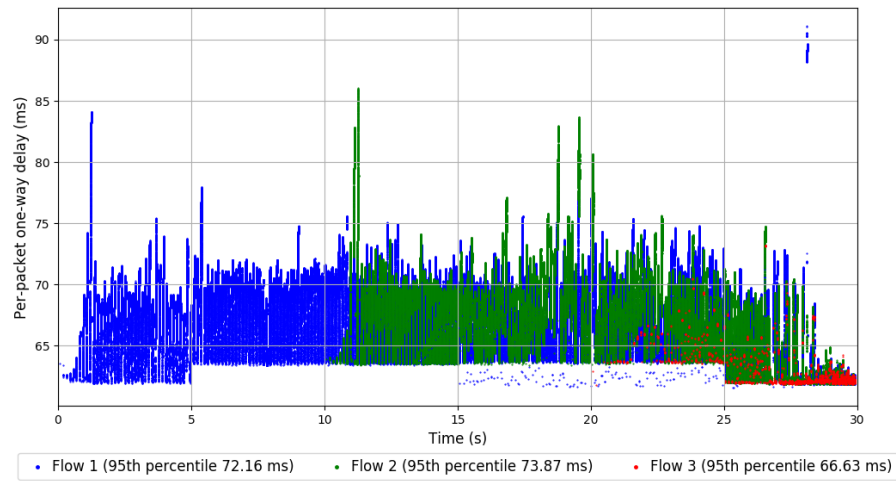
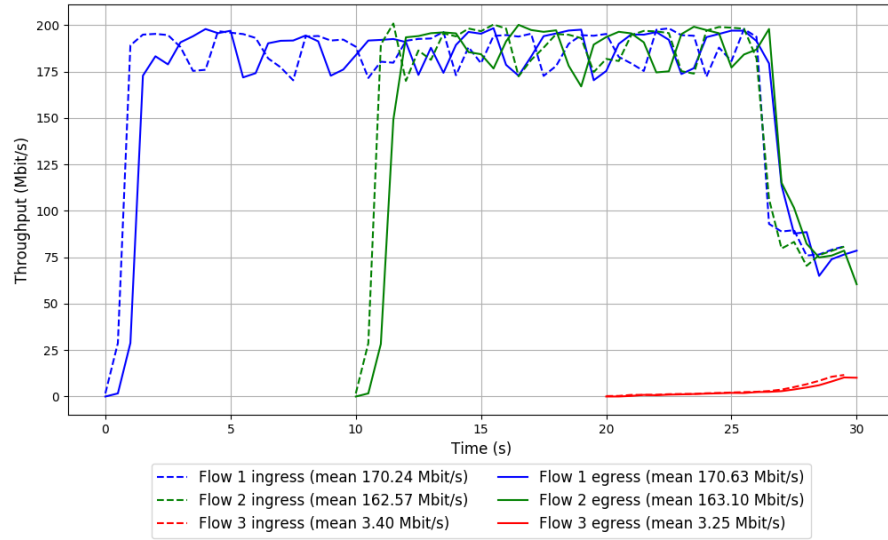


Run 1: Statistics of TCP Cubic

Start at: 2018-05-31 22:27:32
End at: 2018-05-31 22:28:02
Local clock offset: -0.028 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-01 02:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.06 Mbit/s
95th percentile per-packet one-way delay: 72.718 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 170.63 Mbit/s
95th percentile per-packet one-way delay: 72.164 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 163.10 Mbit/s
95th percentile per-packet one-way delay: 73.872 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 66.628 ms
Loss rate: 5.54%

Run 1: Report of TCP Cubic — Data Link

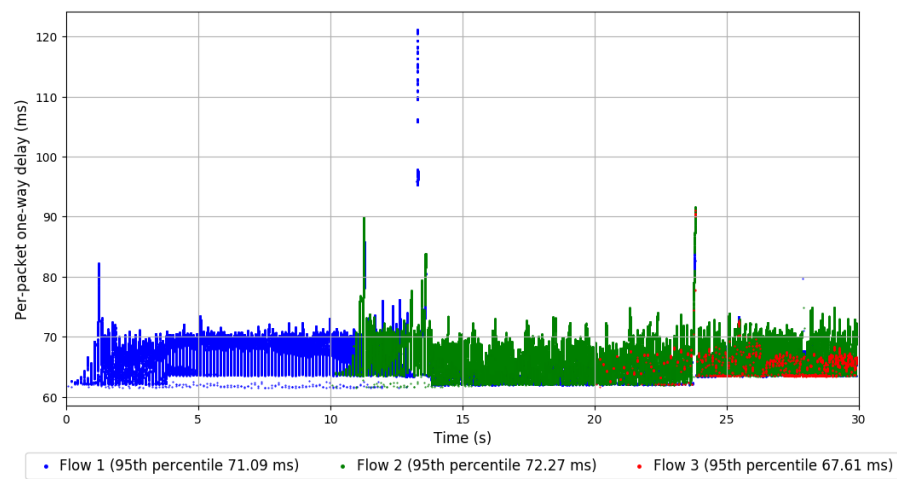
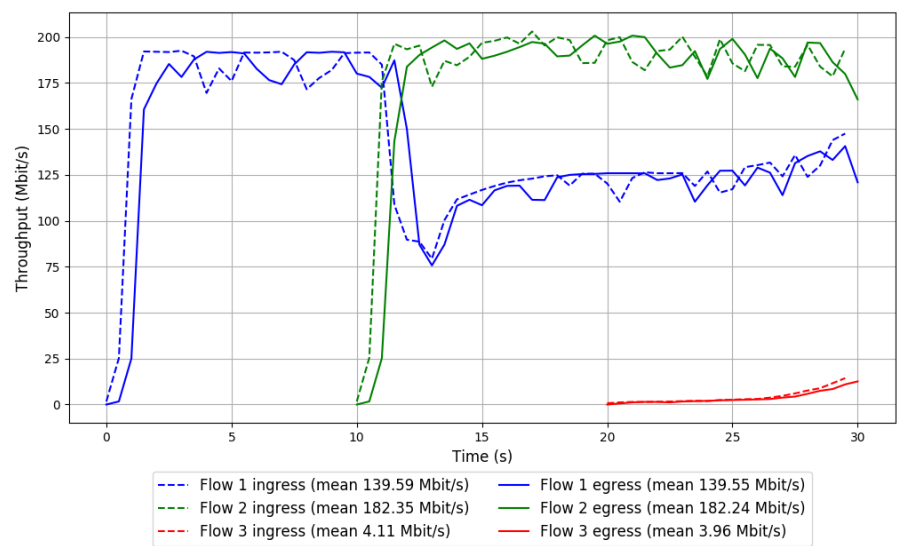


Run 2: Statistics of TCP Cubic

Start at: 2018-05-31 22:51:14
End at: 2018-05-31 22:51:44
Local clock offset: -0.019 ms
Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-01 02:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.93 Mbit/s
95th percentile per-packet one-way delay: 71.826 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 139.55 Mbit/s
95th percentile per-packet one-way delay: 71.088 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 182.24 Mbit/s
95th percentile per-packet one-way delay: 72.265 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 67.612 ms
Loss rate: 4.84%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-31 23:14:45

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

Local clock offset: -0.007 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-06-01 02:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.43 Mbit/s

95th percentile per-packet one-way delay: 71.796 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 69.360 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 179.36 Mbit/s

95th percentile per-packet one-way delay: 72.119 ms

Loss rate: 0.69%

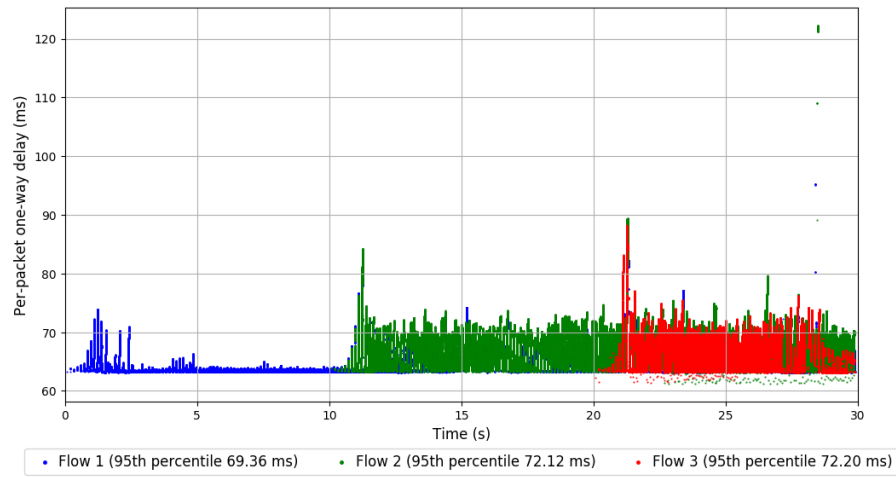
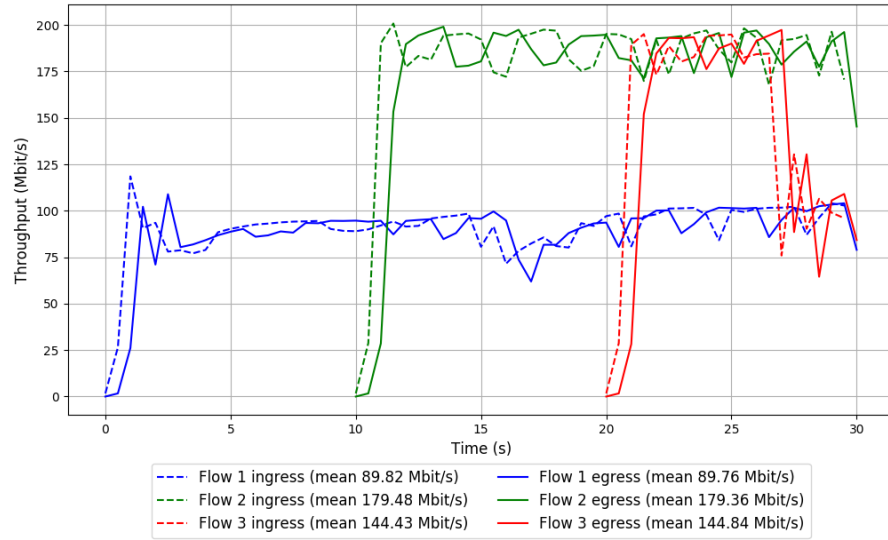
-- Flow 3:

Average throughput: 144.84 Mbit/s

95th percentile per-packet one-way delay: 72.203 ms

Loss rate: 0.99%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-31 23:38:11

End at: 2018-05-31 23:38:41

Local clock offset: -0.003 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-01 02:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.63 Mbit/s

95th percentile per-packet one-way delay: 71.439 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 87.81 Mbit/s

95th percentile per-packet one-way delay: 71.073 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 72.072 ms

Loss rate: 0.40%

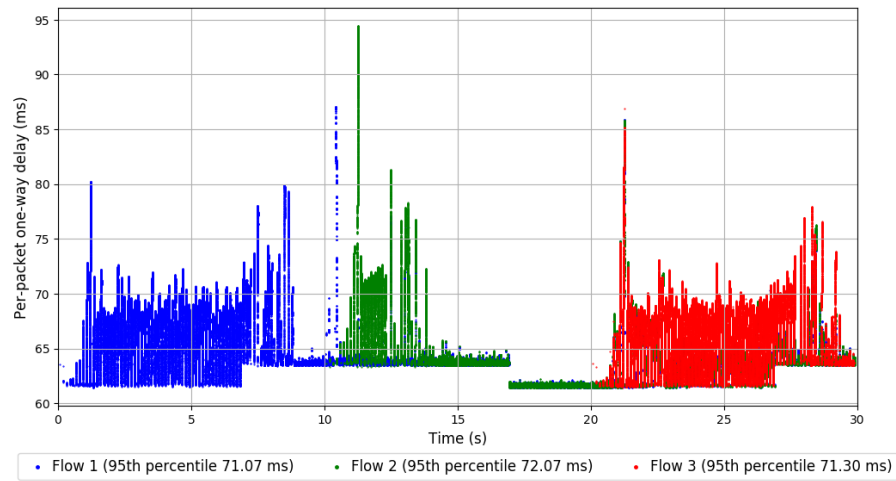
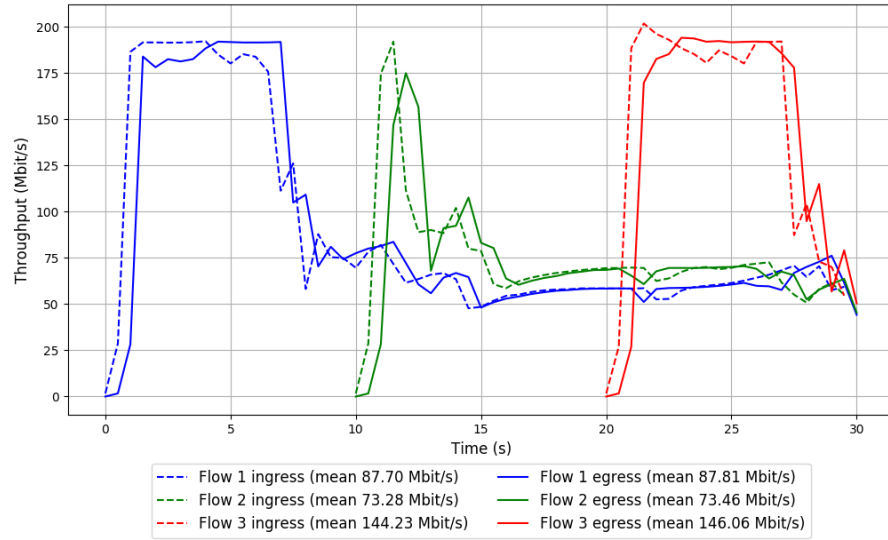
-- Flow 3:

Average throughput: 146.06 Mbit/s

95th percentile per-packet one-way delay: 71.297 ms

Loss rate: 0.47%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-01 00:01:21

End at: 2018-06-01 00:01:51

Local clock offset: 0.005 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-01 02:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.02 Mbit/s

95th percentile per-packet one-way delay: 72.687 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 180.74 Mbit/s

95th percentile per-packet one-way delay: 73.005 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 39.36 Mbit/s

95th percentile per-packet one-way delay: 69.130 ms

Loss rate: 2.95%

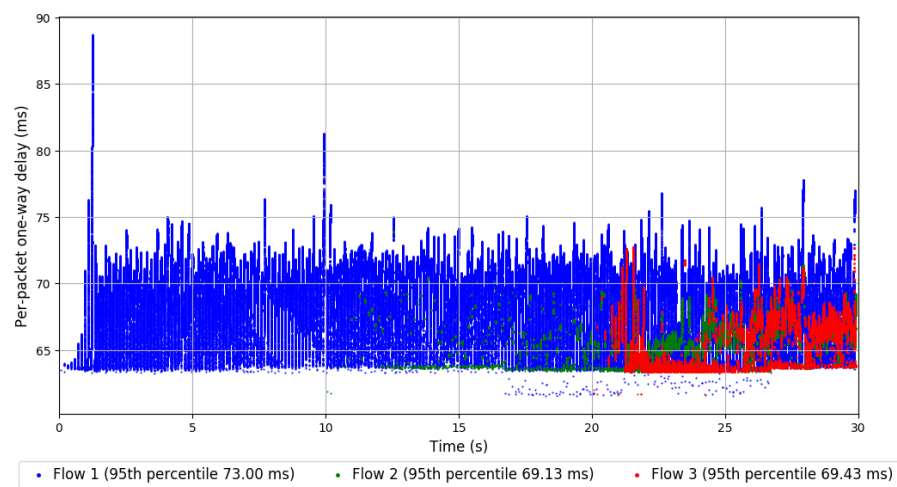
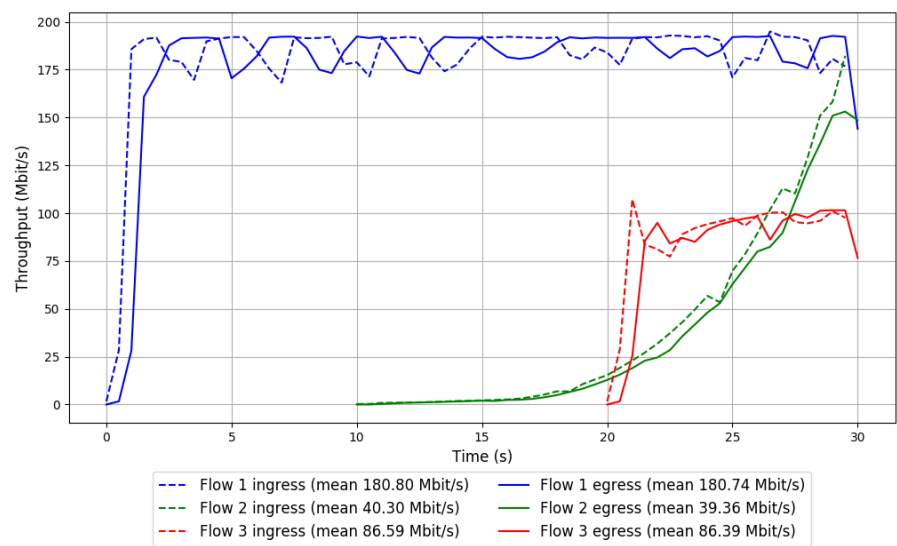
-- Flow 3:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 69.428 ms

Loss rate: 1.47%

Run 5: Report of TCP Cubic — Data Link

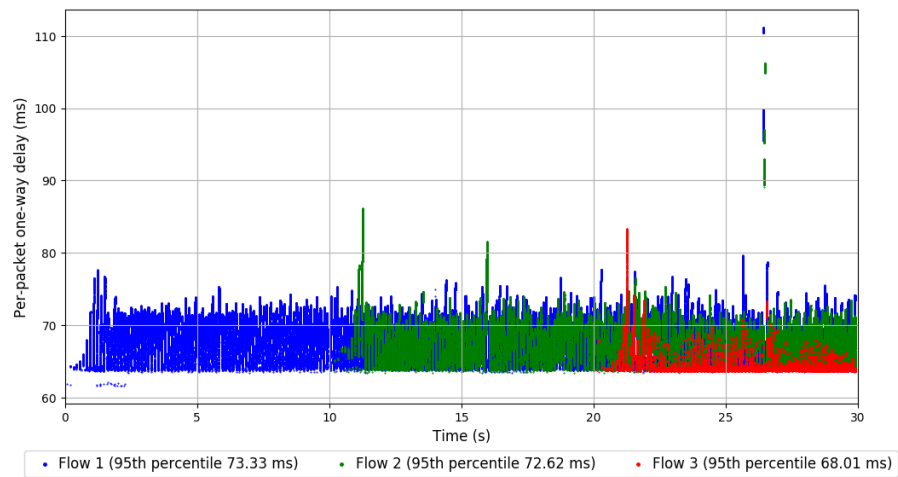
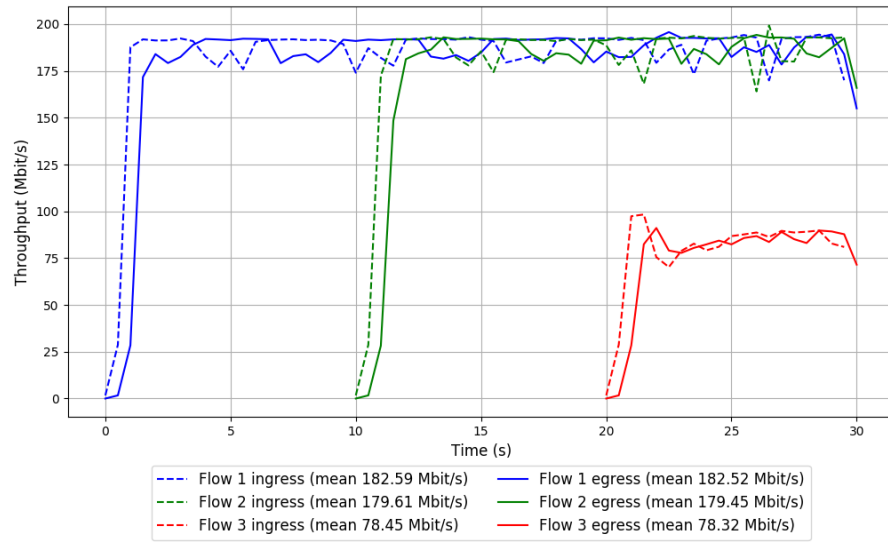


Run 6: Statistics of TCP Cubic

Start at: 2018-06-01 00:24:29
End at: 2018-06-01 00:24:59
Local clock offset: -0.03 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-01 02:57:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.47 Mbit/s
95th percentile per-packet one-way delay: 73.047 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 182.52 Mbit/s
95th percentile per-packet one-way delay: 73.326 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 179.45 Mbit/s
95th percentile per-packet one-way delay: 72.616 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 68.010 ms
Loss rate: 1.44%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-01 00:47:51

End at: 2018-06-01 00:48:21

Local clock offset: -0.031 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-01 02:57:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.94 Mbit/s

95th percentile per-packet one-way delay: 71.377 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 139.61 Mbit/s

95th percentile per-packet one-way delay: 71.821 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 184.17 Mbit/s

95th percentile per-packet one-way delay: 70.504 ms

Loss rate: 0.66%

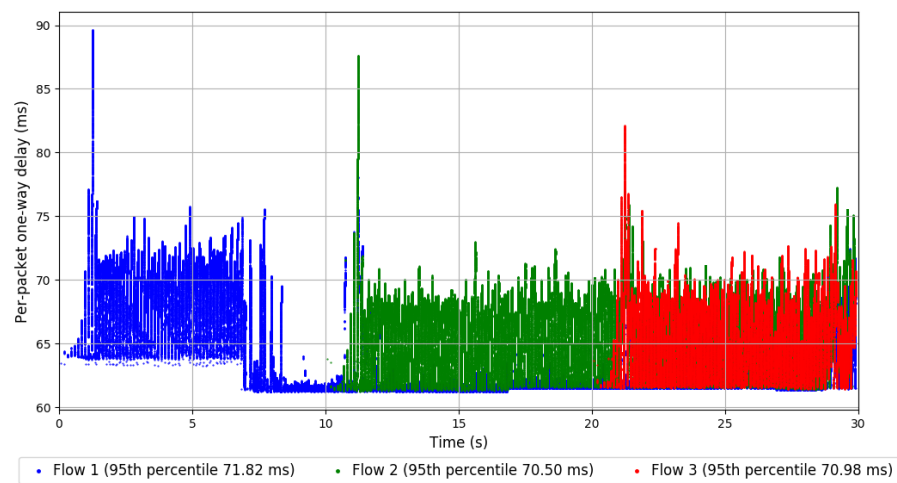
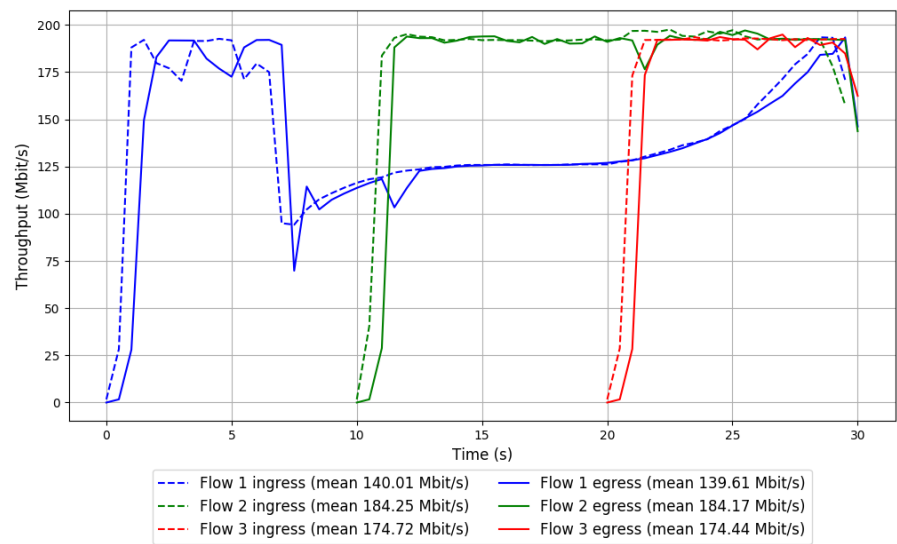
-- Flow 3:

Average throughput: 174.44 Mbit/s

95th percentile per-packet one-way delay: 70.978 ms

Loss rate: 1.39%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-01 01:11:19

End at: 2018-06-01 01:11:49

Local clock offset: 0.069 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-01 02:57:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.33 Mbit/s

95th percentile per-packet one-way delay: 72.492 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 97.54 Mbit/s

95th percentile per-packet one-way delay: 72.542 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 55.53 Mbit/s

95th percentile per-packet one-way delay: 70.338 ms

Loss rate: 0.61%

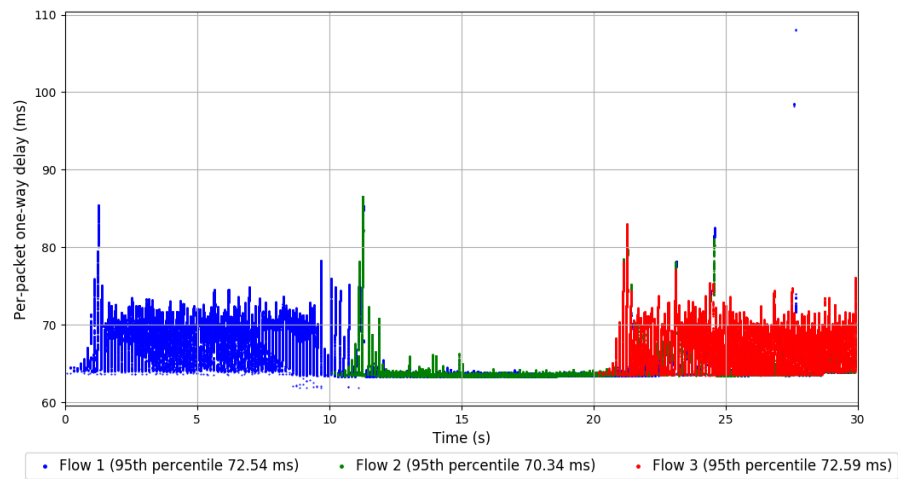
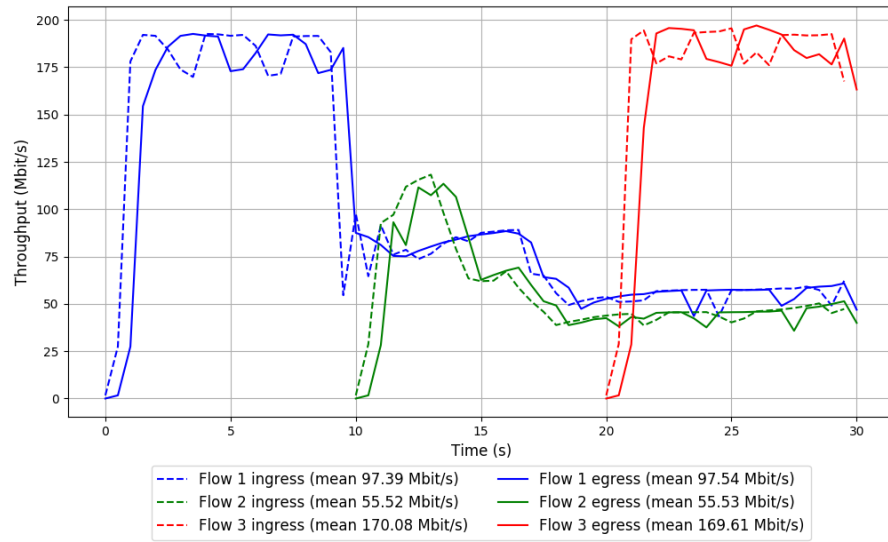
-- Flow 3:

Average throughput: 169.61 Mbit/s

95th percentile per-packet one-way delay: 72.593 ms

Loss rate: 1.54%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-01 01:34:42

End at: 2018-06-01 01:35:12

Local clock offset: 0.132 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-06-01 02:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.31 Mbit/s

95th percentile per-packet one-way delay: 71.989 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 70.946 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 178.82 Mbit/s

95th percentile per-packet one-way delay: 72.239 ms

Loss rate: 0.74%

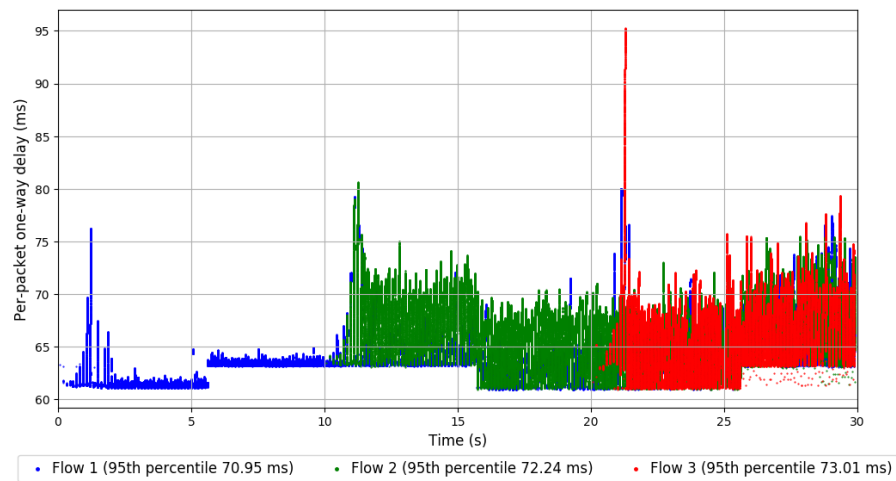
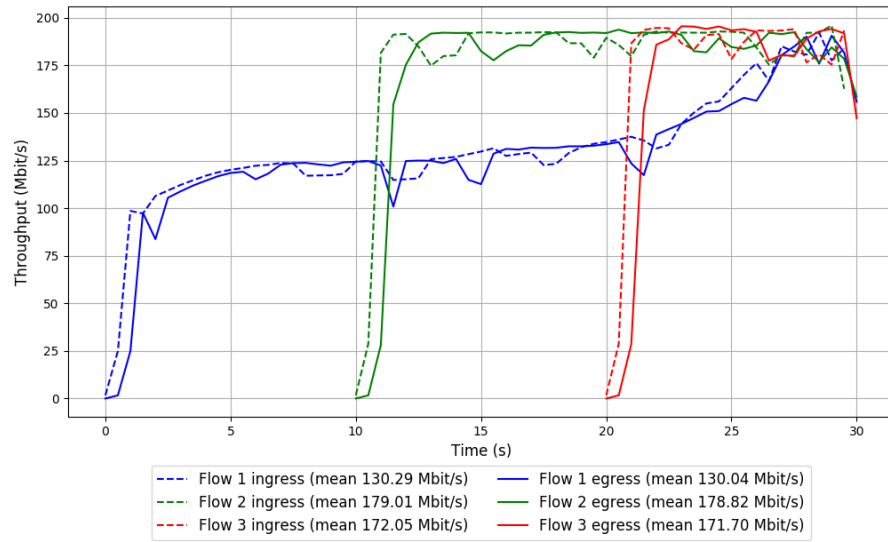
-- Flow 3:

Average throughput: 171.70 Mbit/s

95th percentile per-packet one-way delay: 73.009 ms

Loss rate: 1.41%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-01 01:57:57

End at: 2018-06-01 01:58:27

Local clock offset: -0.058 ms

Remote clock offset: 0.066 ms

Below is generated by plot.py at 2018-06-01 02:57:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.06 Mbit/s

95th percentile per-packet one-way delay: 71.570 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 184.59 Mbit/s

95th percentile per-packet one-way delay: 71.928 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 116.37 Mbit/s

95th percentile per-packet one-way delay: 68.211 ms

Loss rate: 0.74%

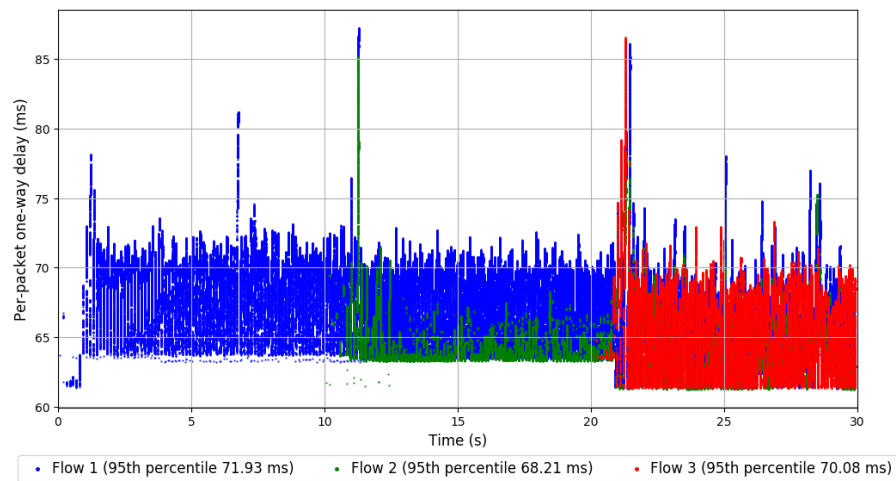
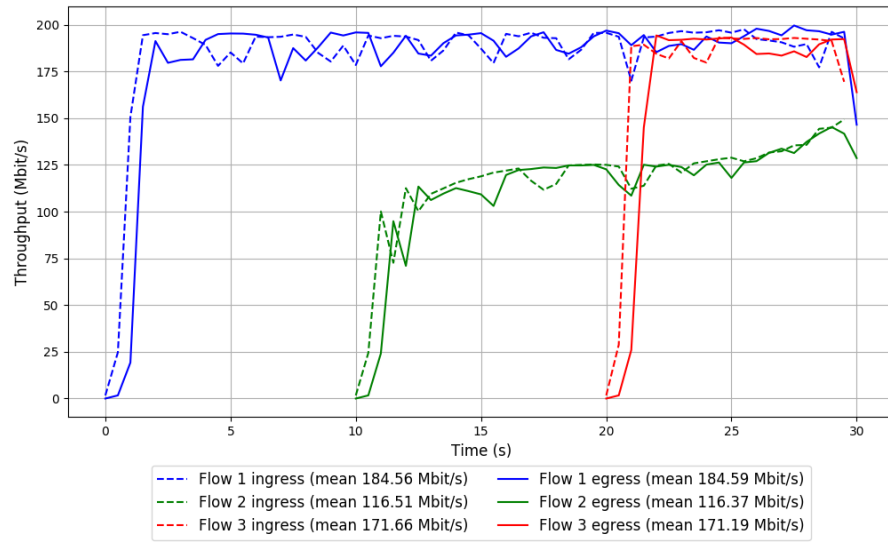
-- Flow 3:

Average throughput: 171.19 Mbit/s

95th percentile per-packet one-way delay: 70.080 ms

Loss rate: 1.54%

Run 10: Report of TCP Cubic — Data Link

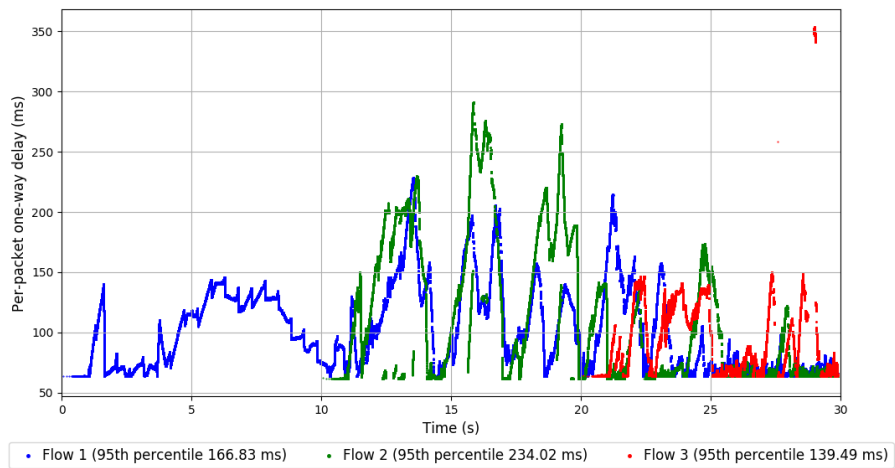
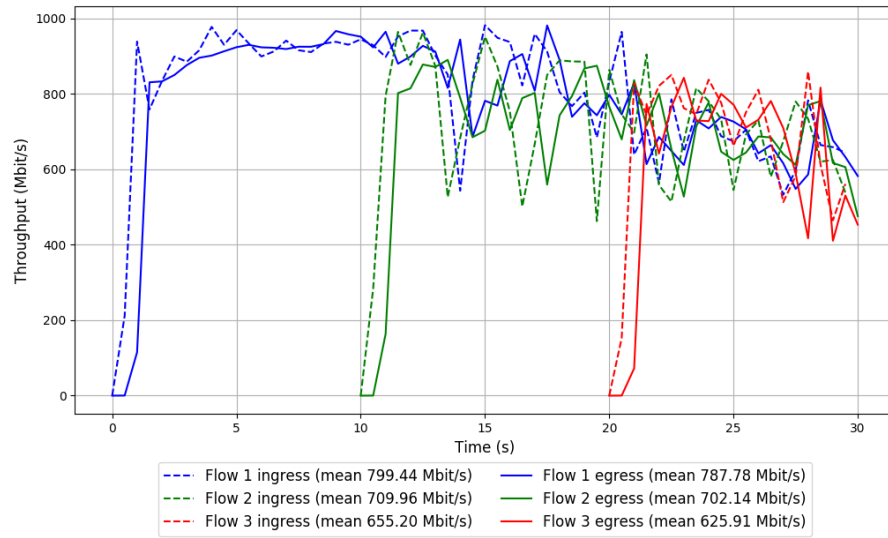


Run 1: Statistics of FillP

Start at: 2018-05-31 22:40:35
End at: 2018-05-31 22:41:05
Local clock offset: -0.028 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-01 03:23:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 1459.92 Mbit/s
95th percentile per-packet one-way delay: 199.220 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 787.78 Mbit/s
95th percentile per-packet one-way delay: 166.828 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 702.14 Mbit/s
95th percentile per-packet one-way delay: 234.023 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 625.91 Mbit/s
95th percentile per-packet one-way delay: 139.485 ms
Loss rate: 5.70%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-31 23:04:11

End at: 2018-05-31 23:04:41

Local clock offset: -0.041 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-01 03:26:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 1517.10 Mbit/s

95th percentile per-packet one-way delay: 189.099 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 807.35 Mbit/s

95th percentile per-packet one-way delay: 188.847 ms

Loss rate: 3.14%

-- Flow 2:

Average throughput: 761.09 Mbit/s

95th percentile per-packet one-way delay: 177.556 ms

Loss rate: 4.68%

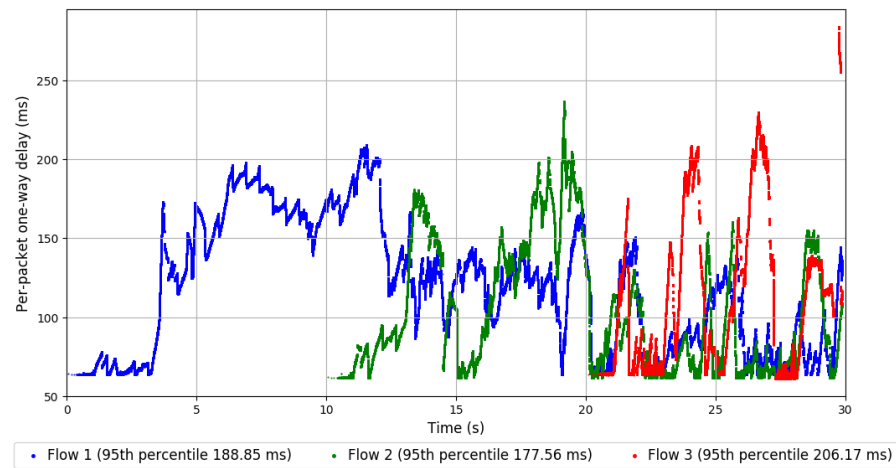
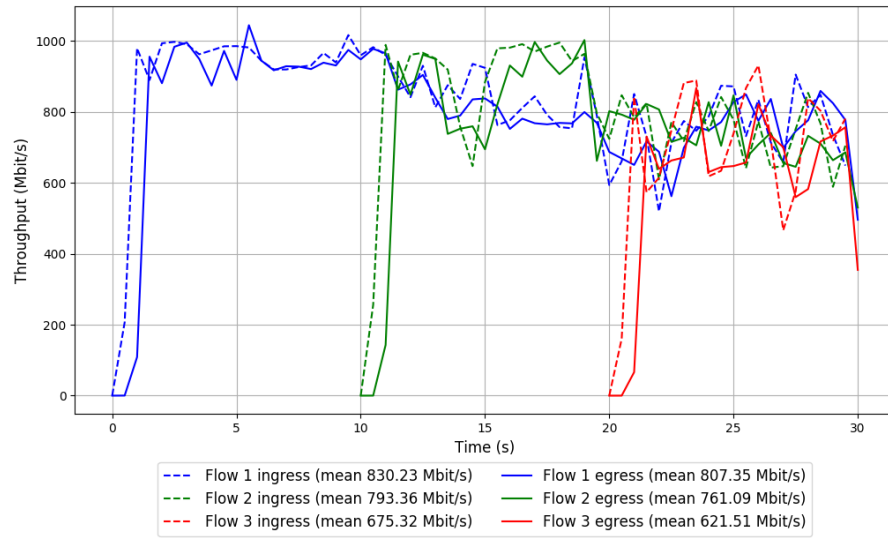
-- Flow 3:

Average throughput: 621.51 Mbit/s

95th percentile per-packet one-way delay: 206.169 ms

Loss rate: 9.16%

Run 2: Report of FillP — Data Link

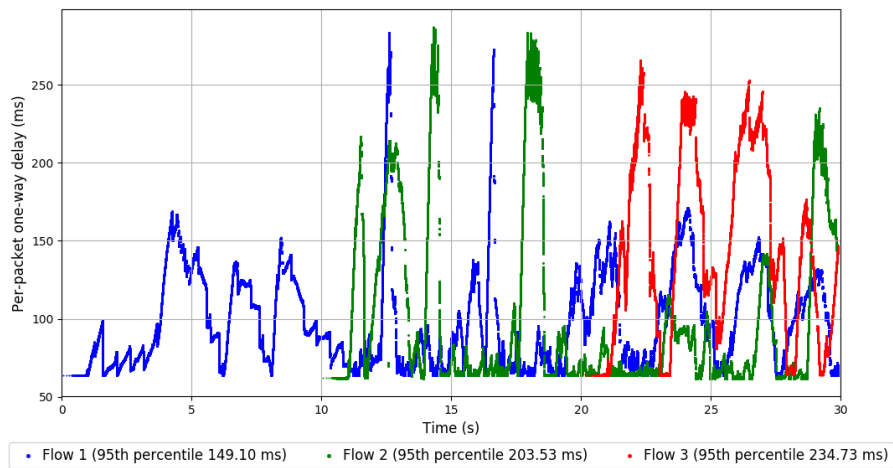
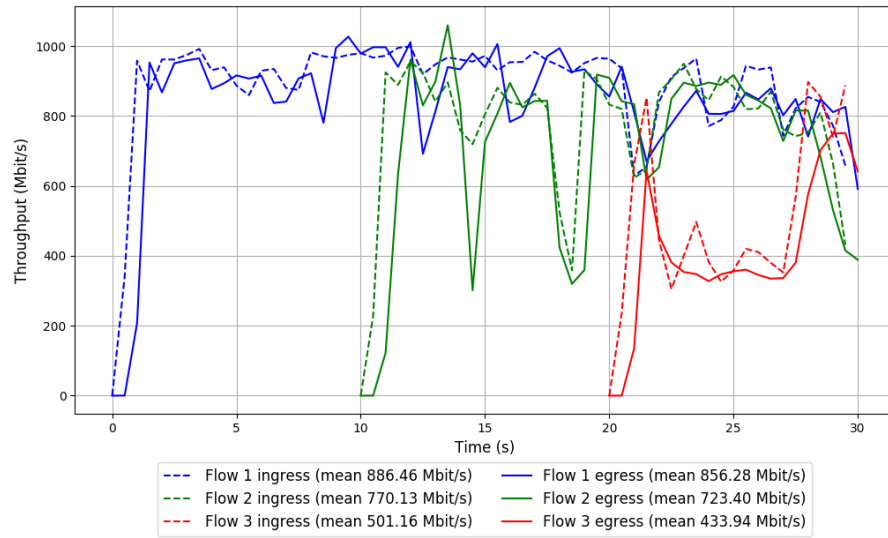


Run 3: Statistics of FillP

Start at: 2018-05-31 23:27:33
End at: 2018-05-31 23:28:03
Local clock offset: 0.004 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2018-06-01 03:27:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 1479.90 Mbit/s
95th percentile per-packet one-way delay: 190.448 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 856.28 Mbit/s
95th percentile per-packet one-way delay: 149.104 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 723.40 Mbit/s
95th percentile per-packet one-way delay: 203.527 ms
Loss rate: 6.65%
-- Flow 3:
Average throughput: 433.94 Mbit/s
95th percentile per-packet one-way delay: 234.729 ms
Loss rate: 14.51%

Run 3: Report of FillP — Data Link

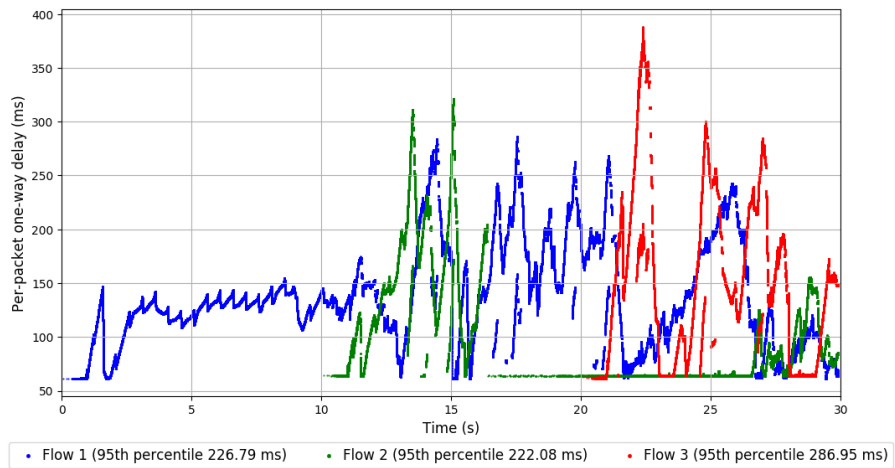
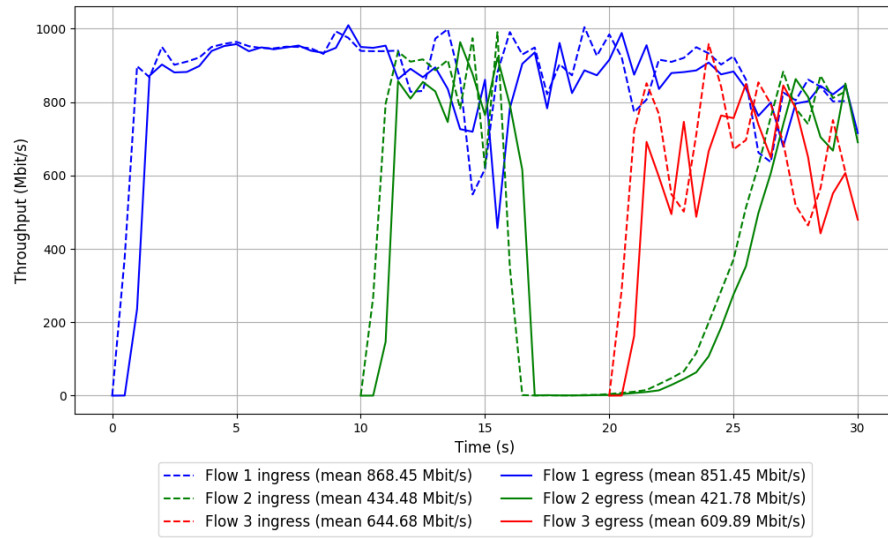


Run 4: Statistics of FillP

Start at: 2018-05-31 23:50:59
End at: 2018-05-31 23:51:29
Local clock offset: -0.018 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-01 03:27:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 1332.12 Mbit/s
95th percentile per-packet one-way delay: 239.509 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 851.45 Mbit/s
95th percentile per-packet one-way delay: 226.791 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 421.78 Mbit/s
95th percentile per-packet one-way delay: 222.078 ms
Loss rate: 3.55%
-- Flow 3:
Average throughput: 609.89 Mbit/s
95th percentile per-packet one-way delay: 286.953 ms
Loss rate: 6.60%

Run 4: Report of FillP — Data Link

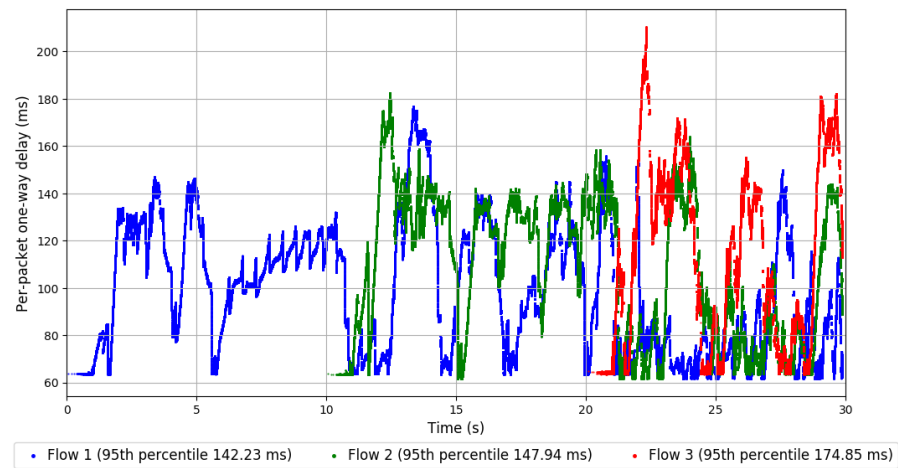
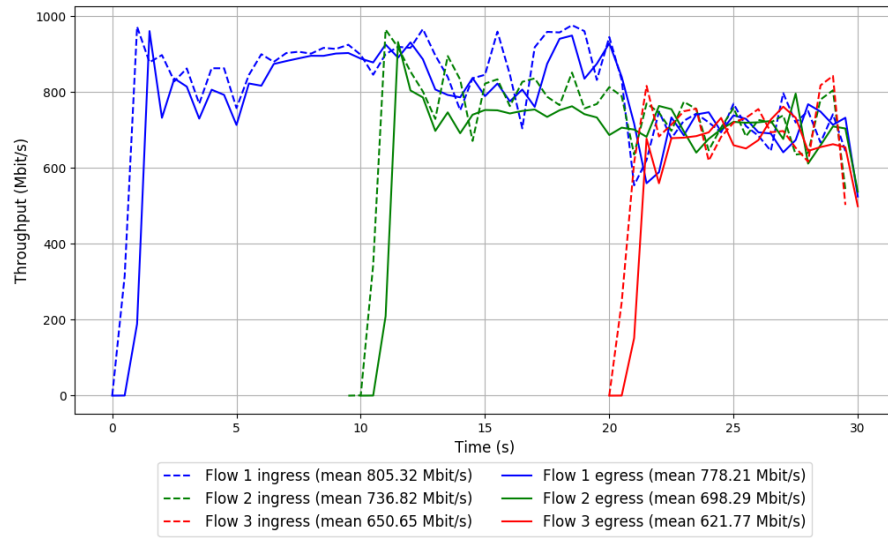


Run 5: Statistics of FillP

Start at: 2018-06-01 00:14:07
End at: 2018-06-01 00:14:37
Local clock offset: -0.015 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-01 03:28:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 1446.68 Mbit/s
95th percentile per-packet one-way delay: 154.766 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 778.21 Mbit/s
95th percentile per-packet one-way delay: 142.233 ms
Loss rate: 3.77%
-- Flow 2:
Average throughput: 698.29 Mbit/s
95th percentile per-packet one-way delay: 147.943 ms
Loss rate: 5.83%
-- Flow 3:
Average throughput: 621.77 Mbit/s
95th percentile per-packet one-way delay: 174.853 ms
Loss rate: 5.68%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-01 00:37:29

End at: 2018-06-01 00:37:59

Local clock offset: -0.005 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-06-01 03:28:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 1301.15 Mbit/s

95th percentile per-packet one-way delay: 234.828 ms

Loss rate: 4.68%

-- Flow 1:

Average throughput: 747.96 Mbit/s

95th percentile per-packet one-way delay: 227.078 ms

Loss rate: 4.12%

-- Flow 2:

Average throughput: 604.26 Mbit/s

95th percentile per-packet one-way delay: 215.102 ms

Loss rate: 6.47%

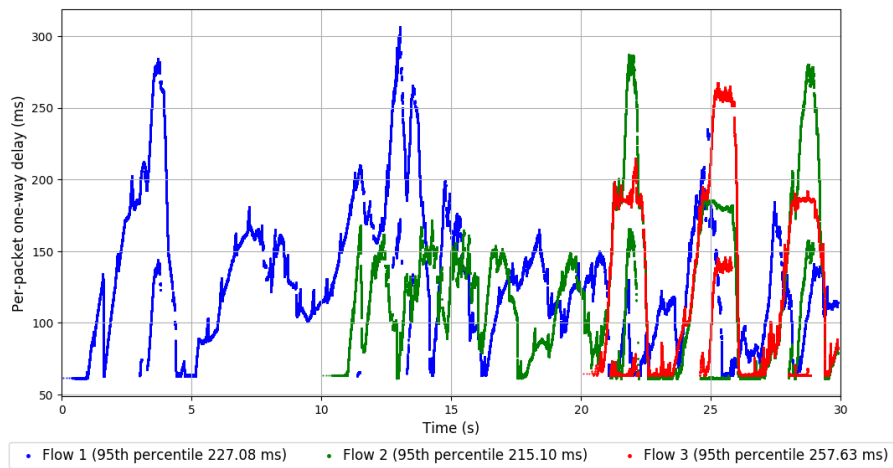
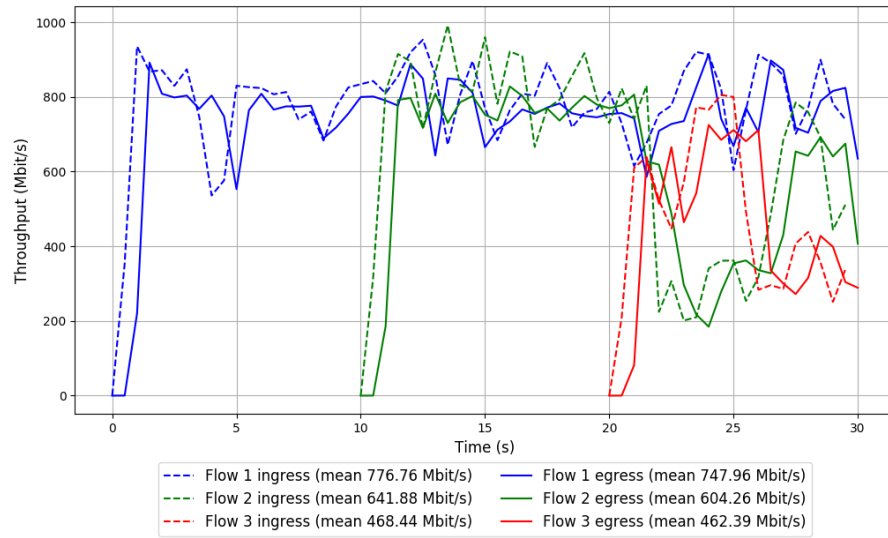
-- Flow 3:

Average throughput: 462.39 Mbit/s

95th percentile per-packet one-way delay: 257.630 ms

Loss rate: 2.56%

Run 6: Report of FillP — Data Link

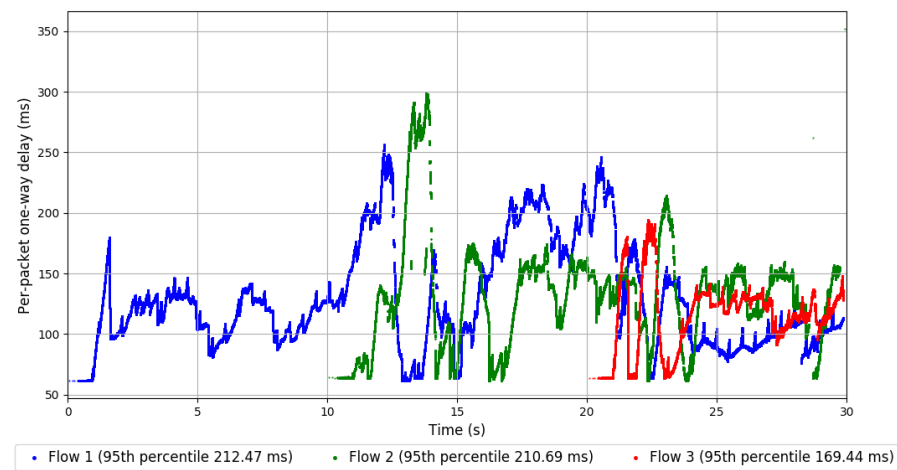
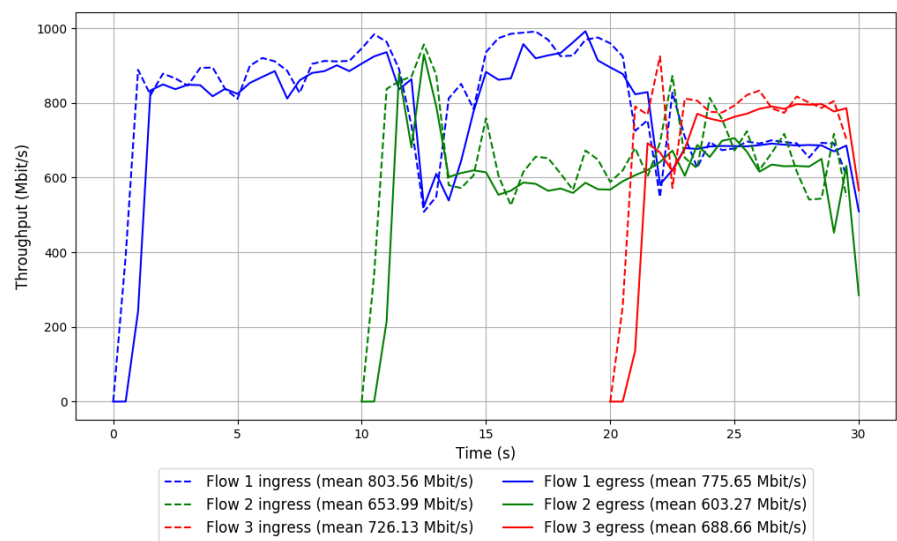


Run 7: Statistics of FillP

Start at: 2018-06-01 01:00:54
End at: 2018-06-01 01:01:24
Local clock offset: -0.047 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-01 03:28:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 1401.33 Mbit/s
95th percentile per-packet one-way delay: 208.857 ms
Loss rate: 5.54%
-- Flow 1:
Average throughput: 775.65 Mbit/s
95th percentile per-packet one-way delay: 212.470 ms
Loss rate: 3.88%
-- Flow 2:
Average throughput: 603.27 Mbit/s
95th percentile per-packet one-way delay: 210.695 ms
Loss rate: 8.13%
-- Flow 3:
Average throughput: 688.66 Mbit/s
95th percentile per-packet one-way delay: 169.445 ms
Loss rate: 6.38%

Run 7: Report of FillP — Data Link

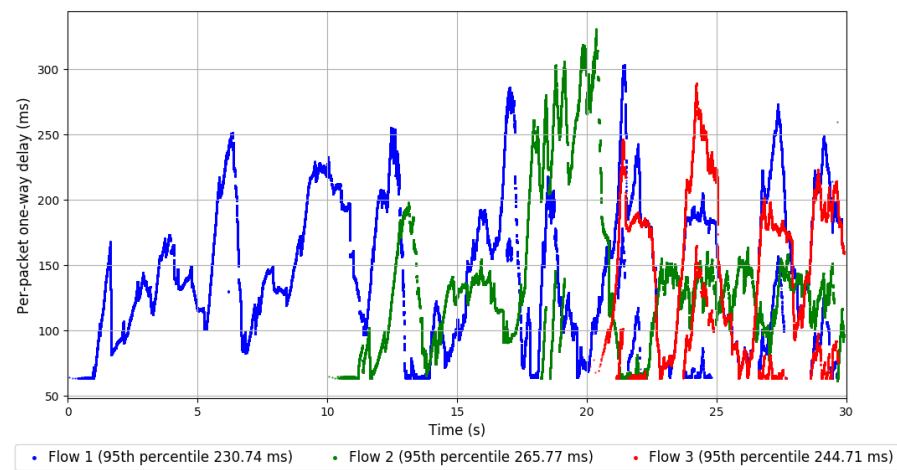
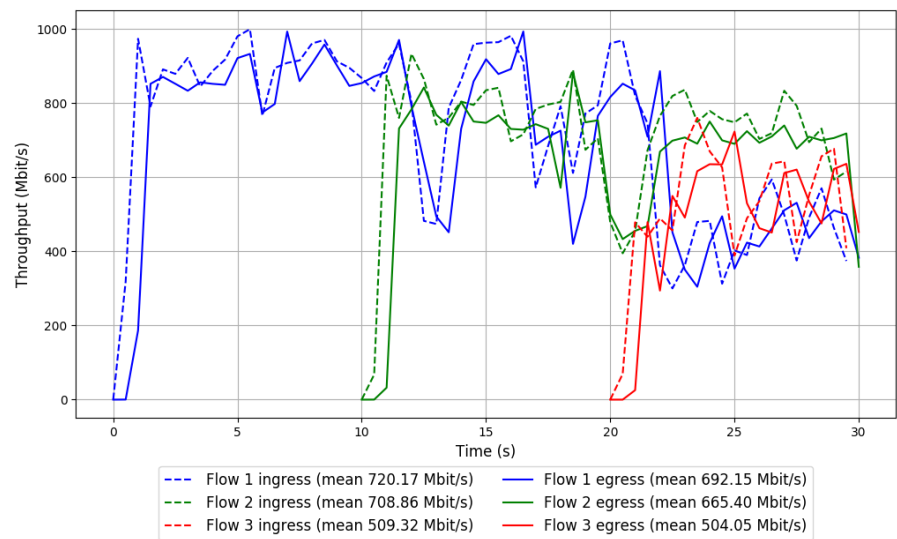


Run 8: Statistics of FillP

Start at: 2018-06-01 01:24:11
End at: 2018-06-01 01:24:41
Local clock offset: 0.165 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-06-01 03:28:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 1299.33 Mbit/s
95th percentile per-packet one-way delay: 244.149 ms
Loss rate: 4.91%
-- Flow 1:
Average throughput: 692.15 Mbit/s
95th percentile per-packet one-way delay: 230.736 ms
Loss rate: 4.30%
-- Flow 2:
Average throughput: 665.40 Mbit/s
95th percentile per-packet one-way delay: 265.771 ms
Loss rate: 6.74%
-- Flow 3:
Average throughput: 504.05 Mbit/s
95th percentile per-packet one-way delay: 244.707 ms
Loss rate: 2.41%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-01 01:47:25

End at: 2018-06-01 01:47:55

Local clock offset: 0.076 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1437.78 Mbit/s

95th percentile per-packet one-way delay: 153.000 ms

Loss rate: 6.54%

-- Flow 1:

Average throughput: 773.41 Mbit/s

95th percentile per-packet one-way delay: 151.130 ms

Loss rate: 5.11%

-- Flow 2:

Average throughput: 730.70 Mbit/s

95th percentile per-packet one-way delay: 142.418 ms

Loss rate: 8.73%

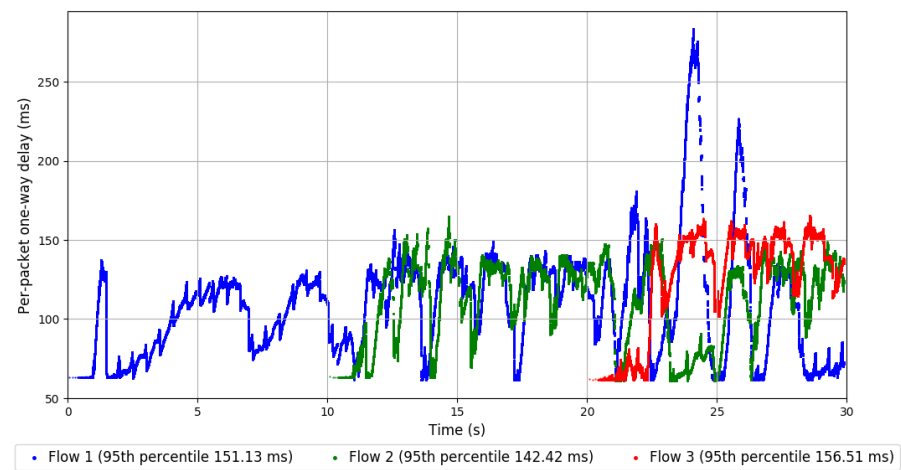
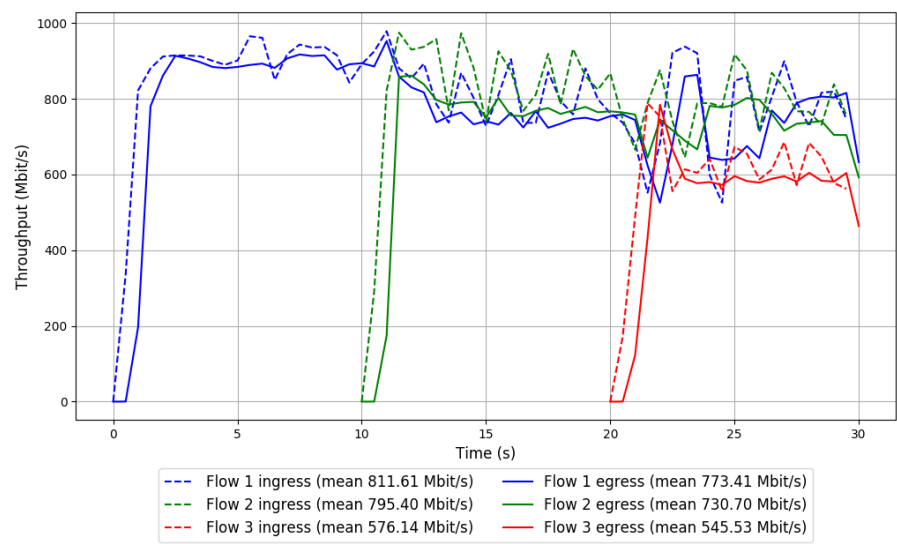
-- Flow 3:

Average throughput: 545.53 Mbit/s

95th percentile per-packet one-way delay: 156.513 ms

Loss rate: 6.51%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-01 02:10:57

End at: 2018-06-01 02:11:27

Local clock offset: -0.002 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1402.92 Mbit/s

95th percentile per-packet one-way delay: 169.103 ms

Loss rate: 6.90%

-- Flow 1:

Average throughput: 785.71 Mbit/s

95th percentile per-packet one-way delay: 147.657 ms

Loss rate: 5.63%

-- Flow 2:

Average throughput: 685.26 Mbit/s

95th percentile per-packet one-way delay: 196.199 ms

Loss rate: 8.37%

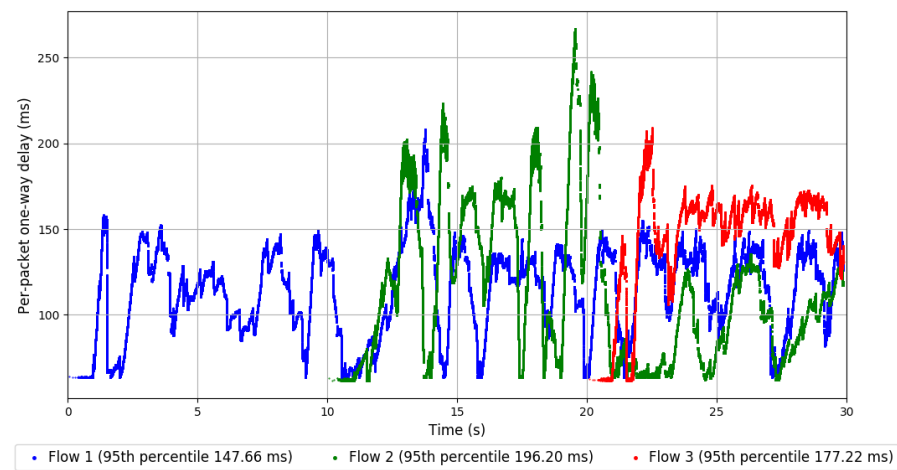
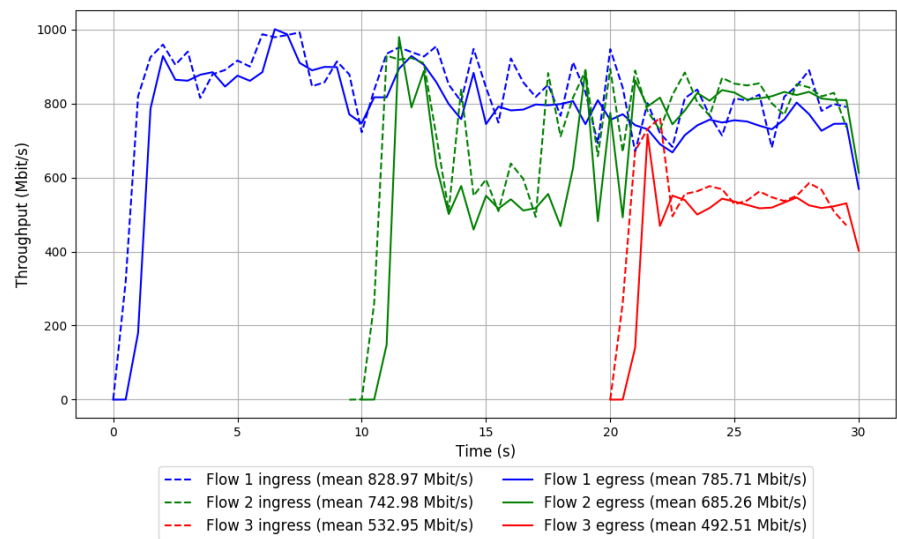
-- Flow 3:

Average throughput: 492.51 Mbit/s

95th percentile per-packet one-way delay: 177.225 ms

Loss rate: 8.77%

Run 10: Report of FillP — Data Link

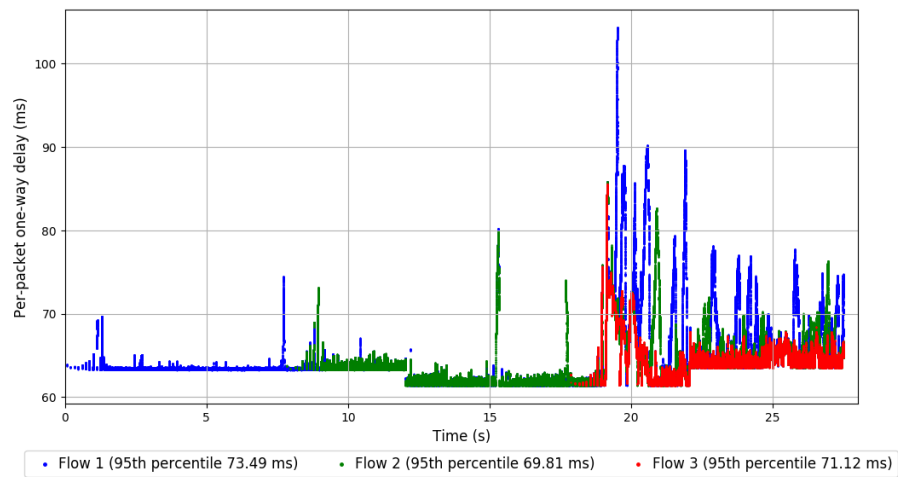
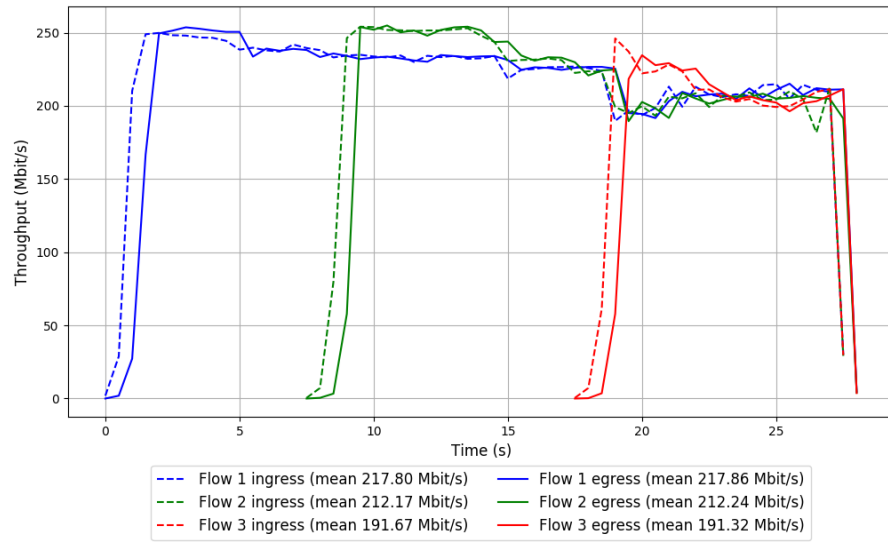


```
Run 1: Statistics of Indigo

Start at: 2018-05-31 22:31:43
End at: 2018-05-31 22:32:13
Local clock offset: -0.055 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-01 03:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 437.07 Mbit/s
95th percentile per-packet one-way delay: 71.847 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 217.86 Mbit/s
95th percentile per-packet one-way delay: 73.489 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 212.24 Mbit/s
95th percentile per-packet one-way delay: 69.811 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 191.32 Mbit/s
95th percentile per-packet one-way delay: 71.119 ms
Loss rate: 1.45%
```


Run 1: Report of Indigo — Data Link

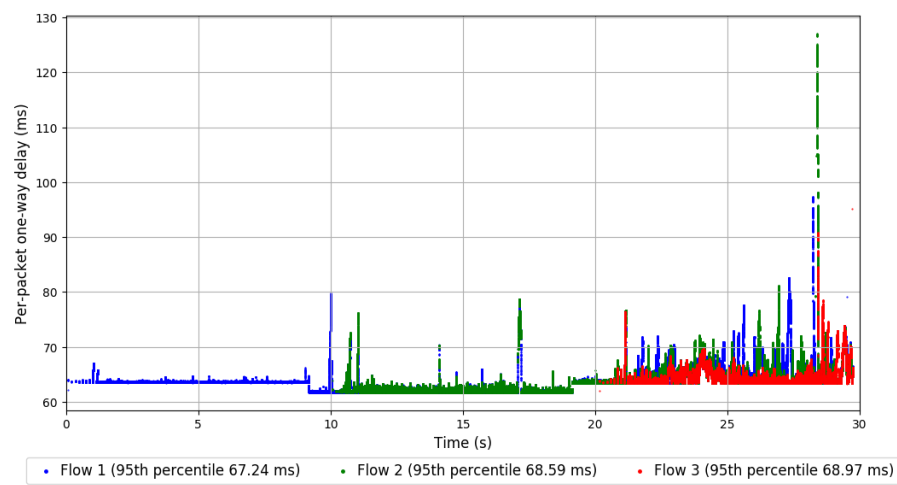
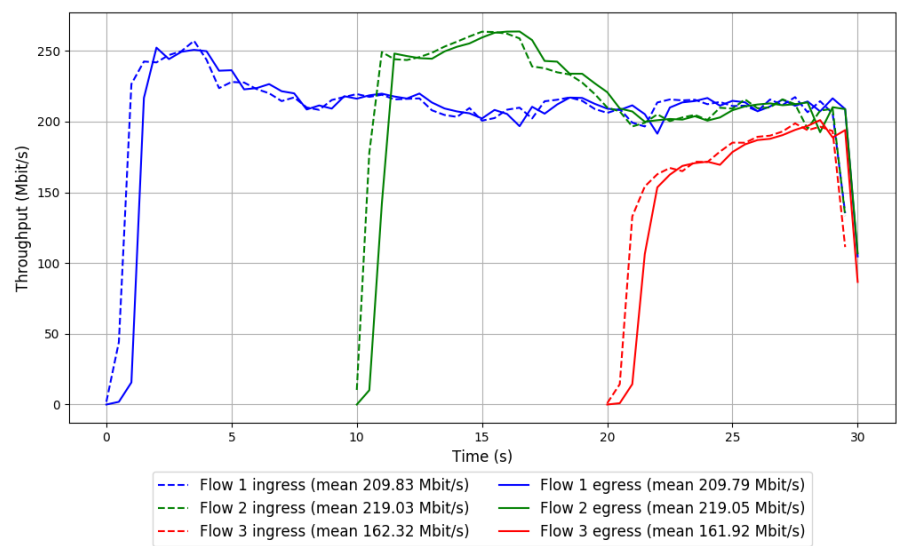


Run 2: Statistics of Indigo

Start at: 2018-05-31 22:55:28
End at: 2018-05-31 22:55:58
Local clock offset: -0.015 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.37 Mbit/s
95th percentile per-packet one-way delay: 68.098 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 209.79 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 219.05 Mbit/s
95th percentile per-packet one-way delay: 68.595 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 161.92 Mbit/s
95th percentile per-packet one-way delay: 68.973 ms
Loss rate: 1.52%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-31 23:18:54

End at: 2018-05-31 23:19:24

Local clock offset: -0.008 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 409.80 Mbit/s

95th percentile per-packet one-way delay: 73.422 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 70.842 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 211.75 Mbit/s

95th percentile per-packet one-way delay: 73.258 ms

Loss rate: 0.68%

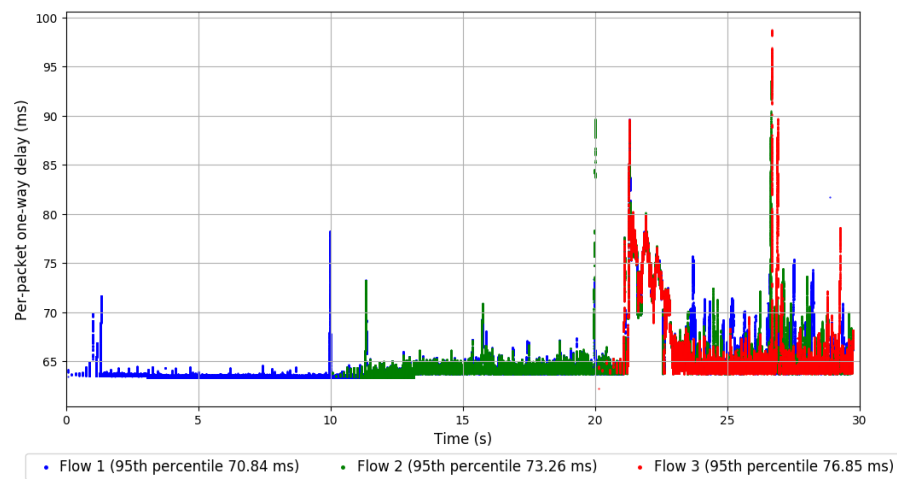
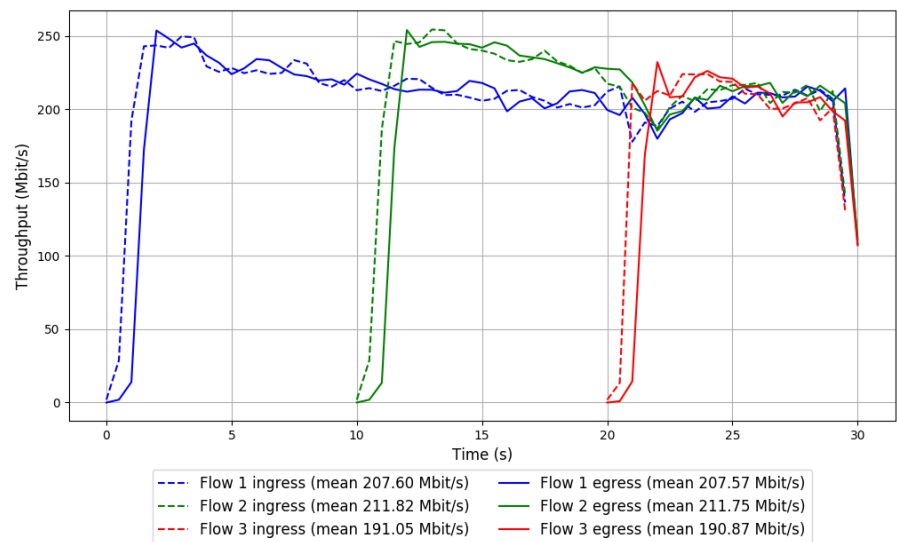
-- Flow 3:

Average throughput: 190.87 Mbit/s

95th percentile per-packet one-way delay: 76.852 ms

Loss rate: 1.39%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-31 23:42:19

End at: 2018-05-31 23:42:49

Local clock offset: 0.008 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.99 Mbit/s

95th percentile per-packet one-way delay: 69.895 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 218.79 Mbit/s

95th percentile per-packet one-way delay: 67.198 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 210.94 Mbit/s

95th percentile per-packet one-way delay: 69.657 ms

Loss rate: 0.58%

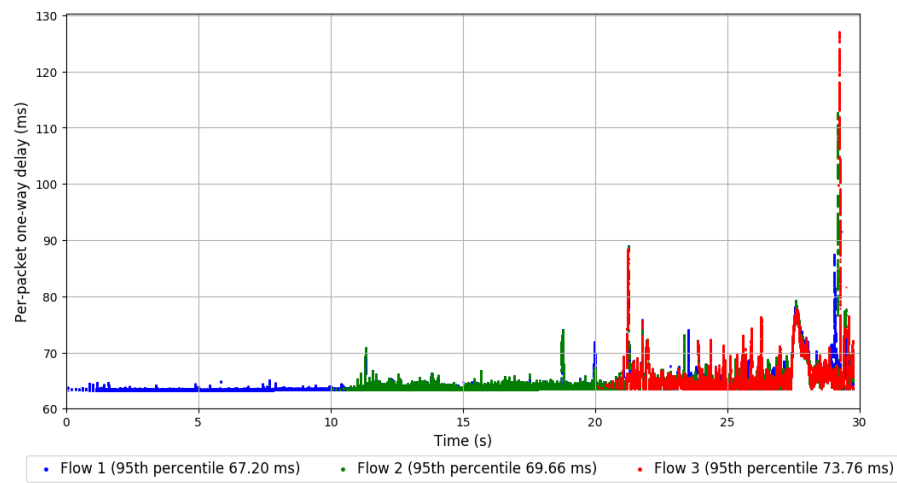
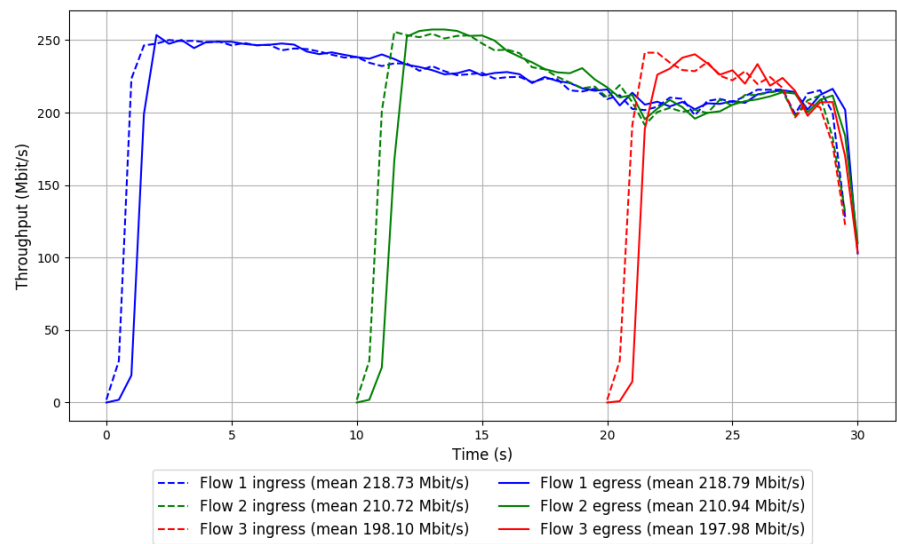
-- Flow 3:

Average throughput: 197.98 Mbit/s

95th percentile per-packet one-way delay: 73.758 ms

Loss rate: 1.35%

Run 4: Report of Indigo — Data Link

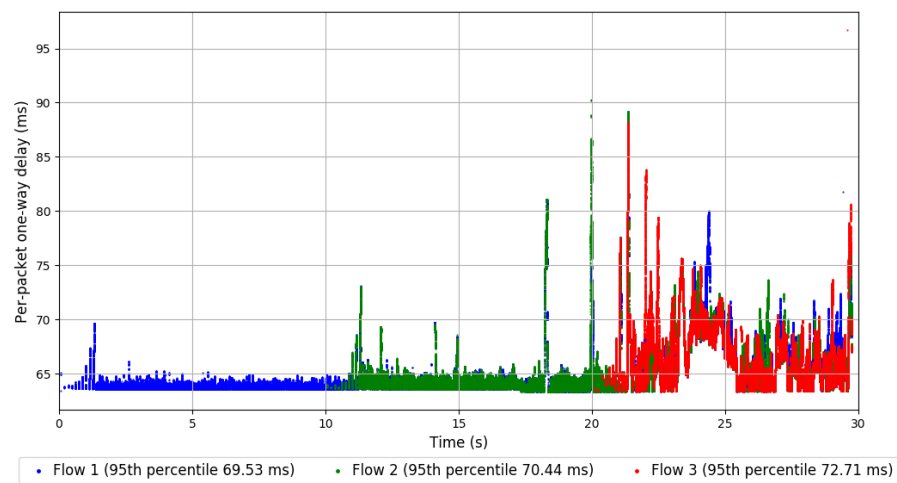
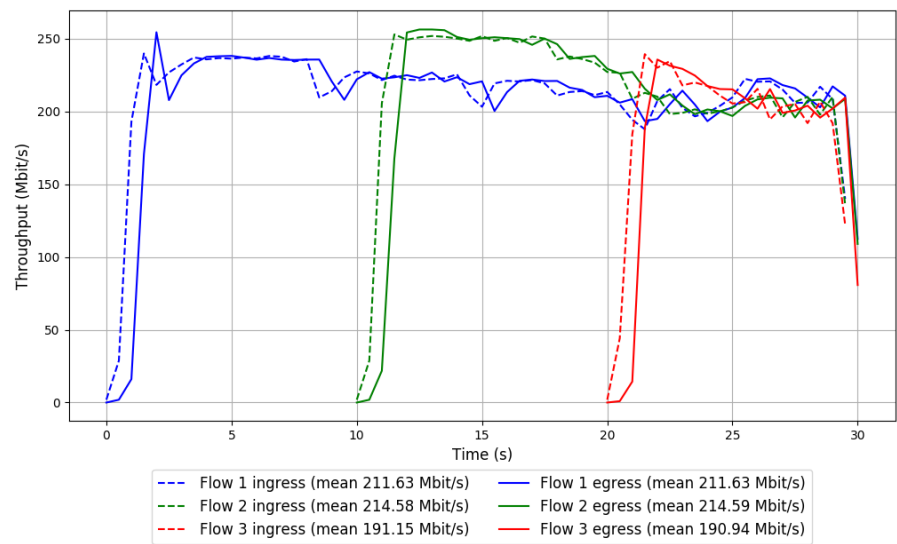


Run 5: Statistics of Indigo

Start at: 2018-06-01 00:05:30
End at: 2018-06-01 00:06:00
Local clock offset: 0.006 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 416.05 Mbit/s
95th percentile per-packet one-way delay: 70.432 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 211.63 Mbit/s
95th percentile per-packet one-way delay: 69.530 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 214.59 Mbit/s
95th percentile per-packet one-way delay: 70.437 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 190.94 Mbit/s
95th percentile per-packet one-way delay: 72.707 ms
Loss rate: 1.41%

Run 5: Report of Indigo — Data Link

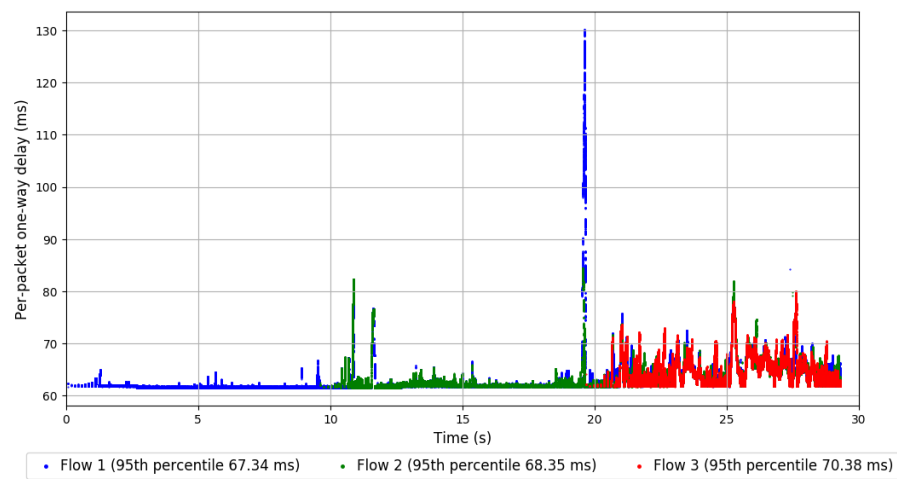
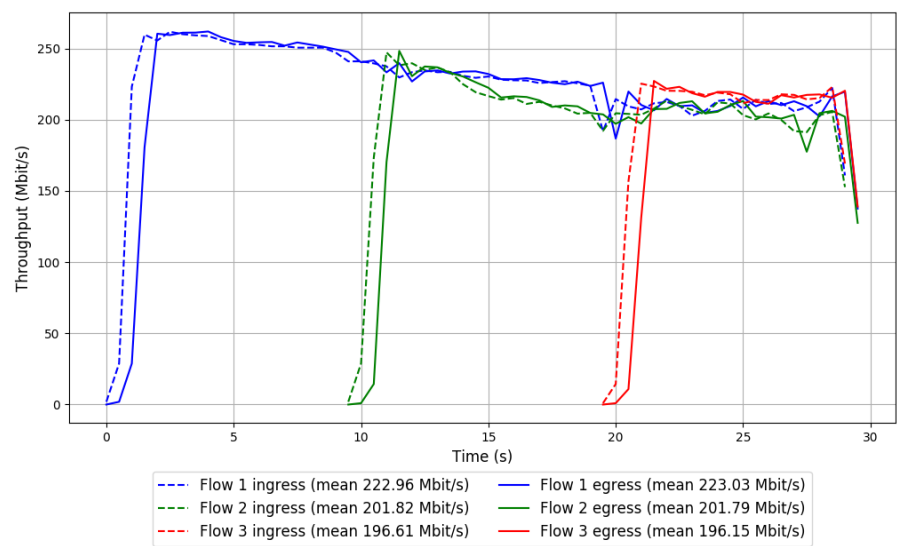


Run 6: Statistics of Indigo

Start at: 2018-06-01 00:28:44
End at: 2018-06-01 00:29:14
Local clock offset: -0.02 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 423.32 Mbit/s
95th percentile per-packet one-way delay: 68.491 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 223.03 Mbit/s
95th percentile per-packet one-way delay: 67.343 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 201.79 Mbit/s
95th percentile per-packet one-way delay: 68.352 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 196.15 Mbit/s
95th percentile per-packet one-way delay: 70.381 ms
Loss rate: 1.53%

Run 6: Report of Indigo — Data Link

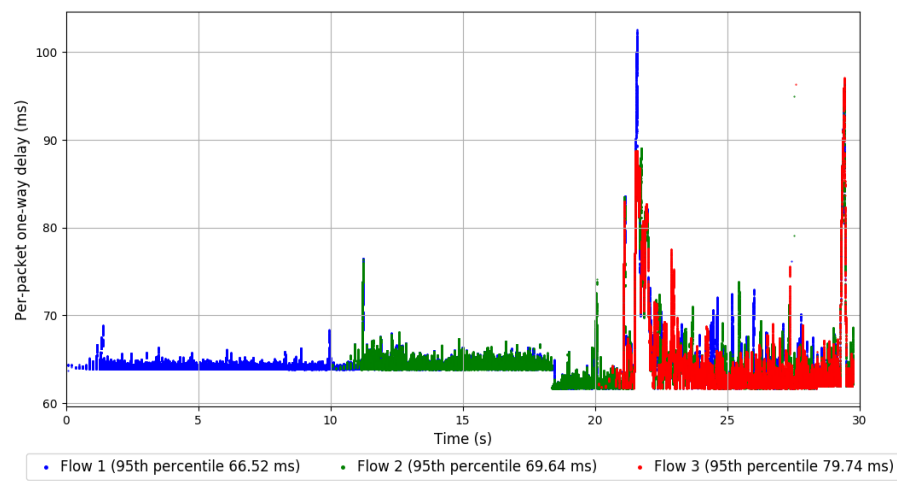
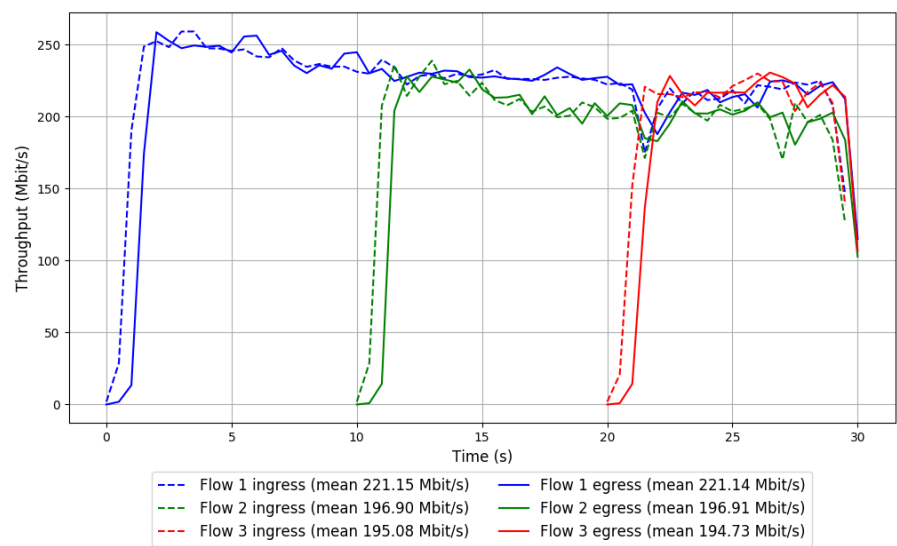


Run 7: Statistics of Indigo

Start at: 2018-06-01 00:52:09
End at: 2018-06-01 00:52:39
Local clock offset: -0.013 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.75 Mbit/s
95th percentile per-packet one-way delay: 69.044 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 221.14 Mbit/s
95th percentile per-packet one-way delay: 66.524 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 196.91 Mbit/s
95th percentile per-packet one-way delay: 69.638 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 194.73 Mbit/s
95th percentile per-packet one-way delay: 79.740 ms
Loss rate: 1.47%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-01 01:15:27

End at: 2018-06-01 01:15:57

Local clock offset: 0.085 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.09 Mbit/s

95th percentile per-packet one-way delay: 69.037 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 224.31 Mbit/s

95th percentile per-packet one-way delay: 69.010 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 215.93 Mbit/s

95th percentile per-packet one-way delay: 68.898 ms

Loss rate: 0.64%

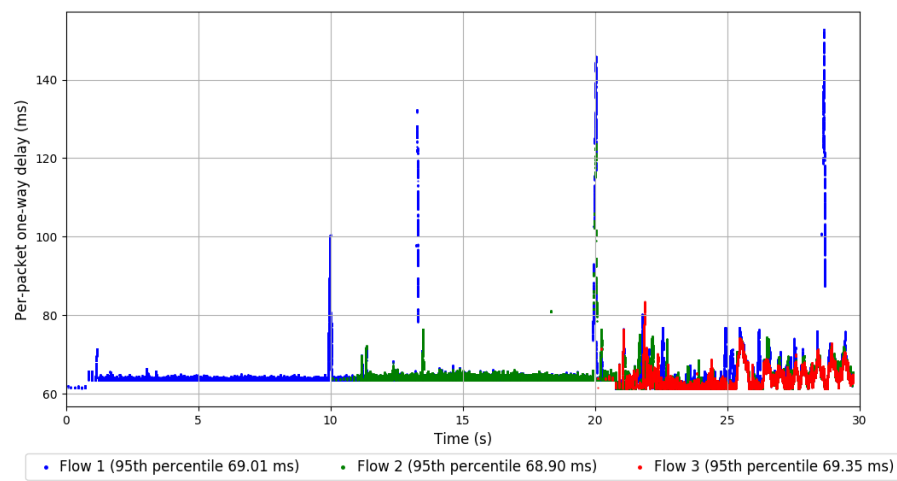
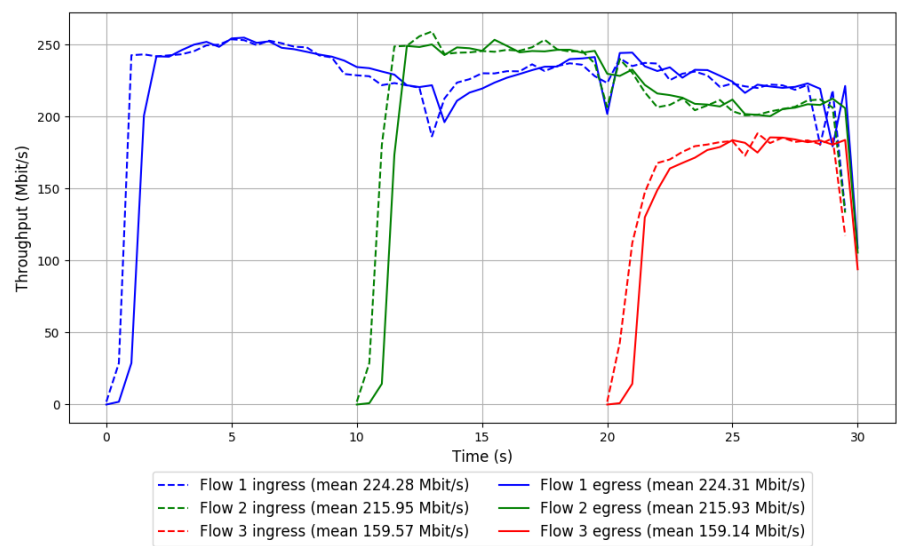
-- Flow 3:

Average throughput: 159.14 Mbit/s

95th percentile per-packet one-way delay: 69.354 ms

Loss rate: 1.53%

Run 8: Report of Indigo — Data Link

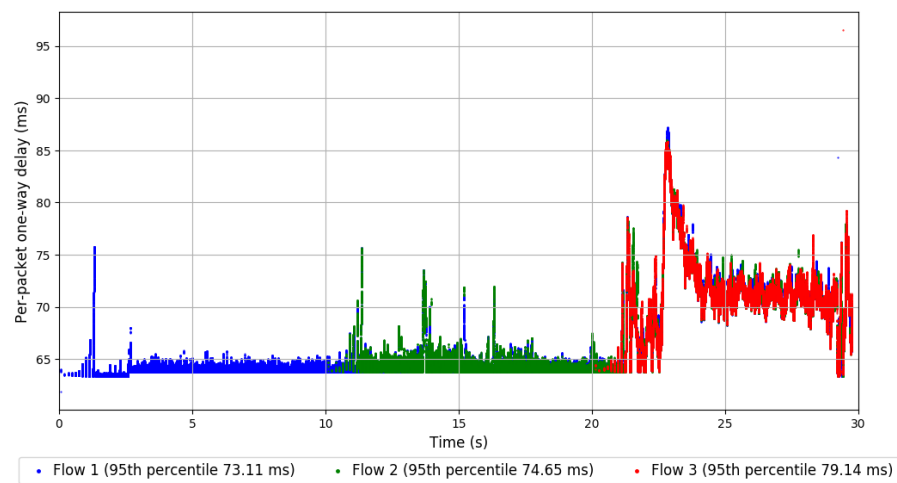
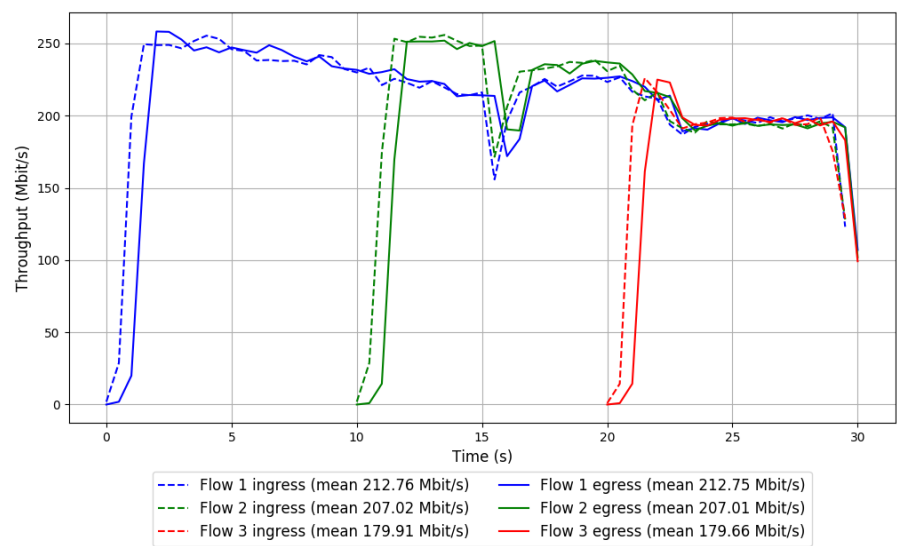


Run 9: Statistics of Indigo

Start at: 2018-06-01 01:38:45
End at: 2018-06-01 01:39:15
Local clock offset: 0.188 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.90 Mbit/s
95th percentile per-packet one-way delay: 74.669 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 212.75 Mbit/s
95th percentile per-packet one-way delay: 73.108 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 207.01 Mbit/s
95th percentile per-packet one-way delay: 74.650 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 179.66 Mbit/s
95th percentile per-packet one-way delay: 79.138 ms
Loss rate: 1.46%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-01 02:02:10

End at: 2018-06-01 02:02:40

Local clock offset: 0.001 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.87 Mbit/s

95th percentile per-packet one-way delay: 87.655 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 211.39 Mbit/s

95th percentile per-packet one-way delay: 80.494 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 204.23 Mbit/s

95th percentile per-packet one-way delay: 87.945 ms

Loss rate: 0.62%

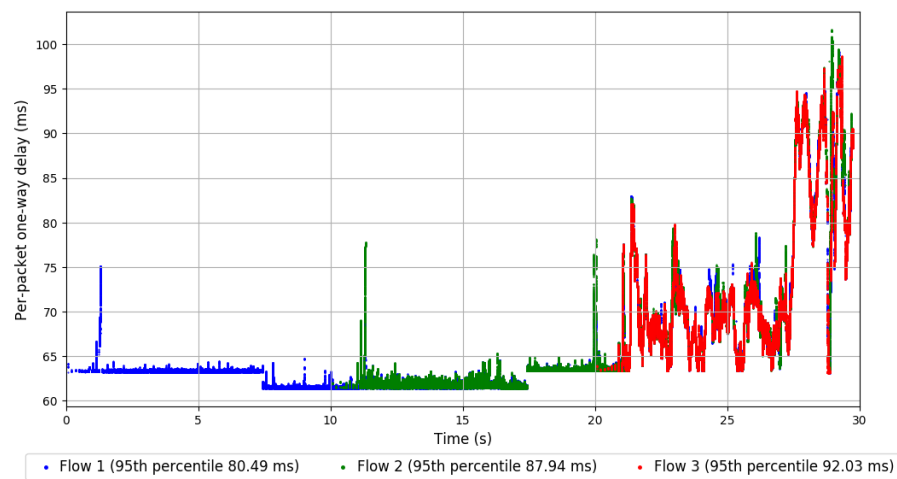
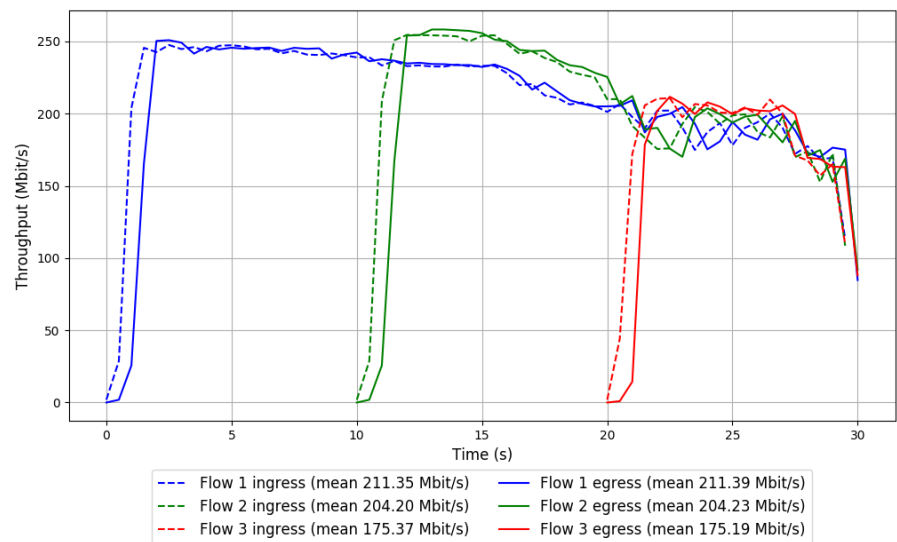
-- Flow 3:

Average throughput: 175.19 Mbit/s

95th percentile per-packet one-way delay: 92.026 ms

Loss rate: 1.39%

Run 10: Report of Indigo — Data Link

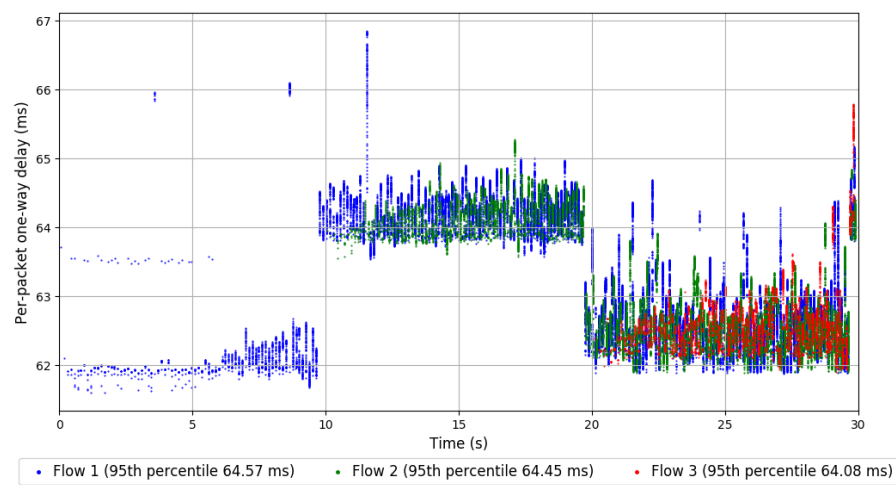
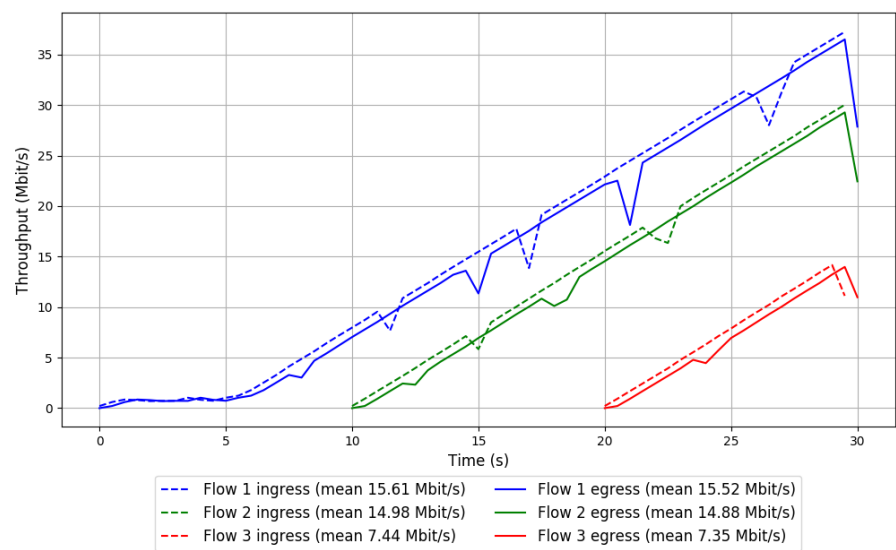


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-31 22:21:58
End at: 2018-05-31 22:22:28
Local clock offset: 0.003 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-01 03:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 64.511 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 64.566 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 64.446 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 64.079 ms
Loss rate: 2.56%
```

Run 1: Report of LEDBAT — Data Link

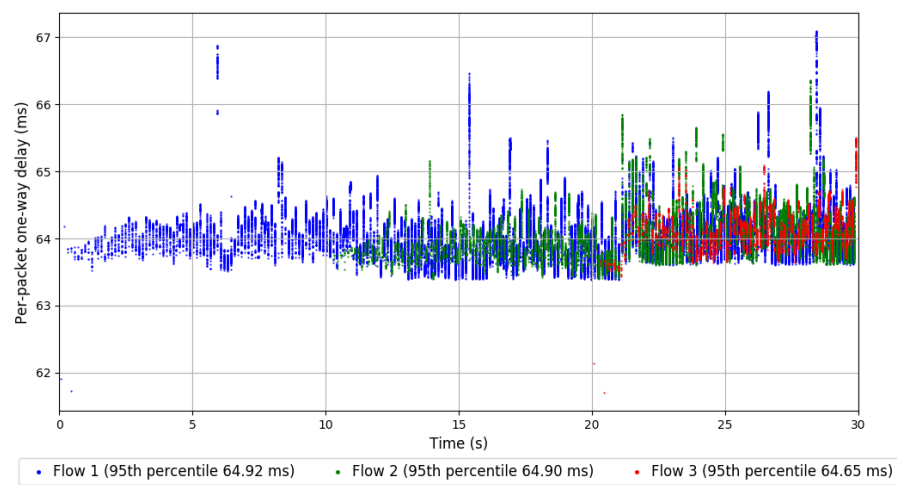
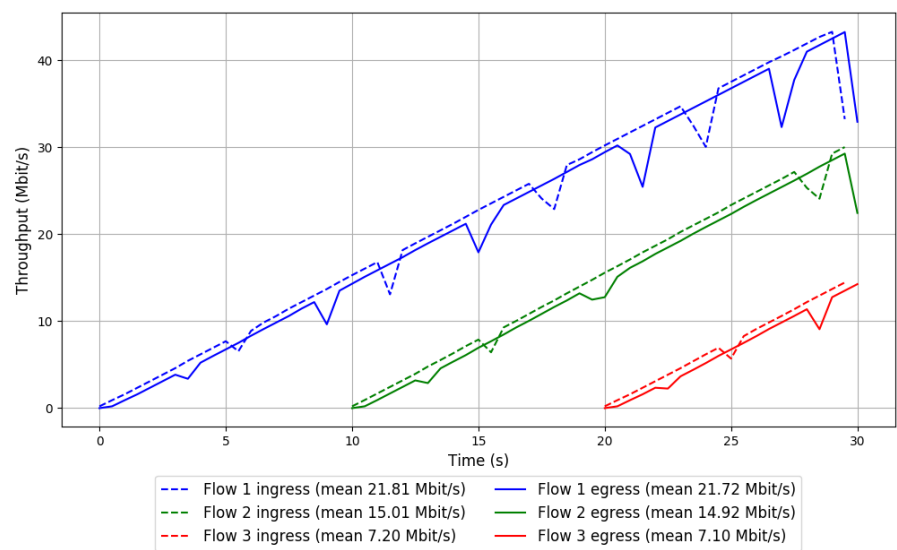


Run 2: Statistics of LEDBAT

Start at: 2018-05-31 22:45:36
End at: 2018-05-31 22:46:06
Local clock offset: -0.045 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 64.898 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 21.72 Mbit/s
95th percentile per-packet one-way delay: 64.919 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 64.900 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 64.652 ms
Loss rate: 2.57%

Run 2: Report of LEDBAT — Data Link

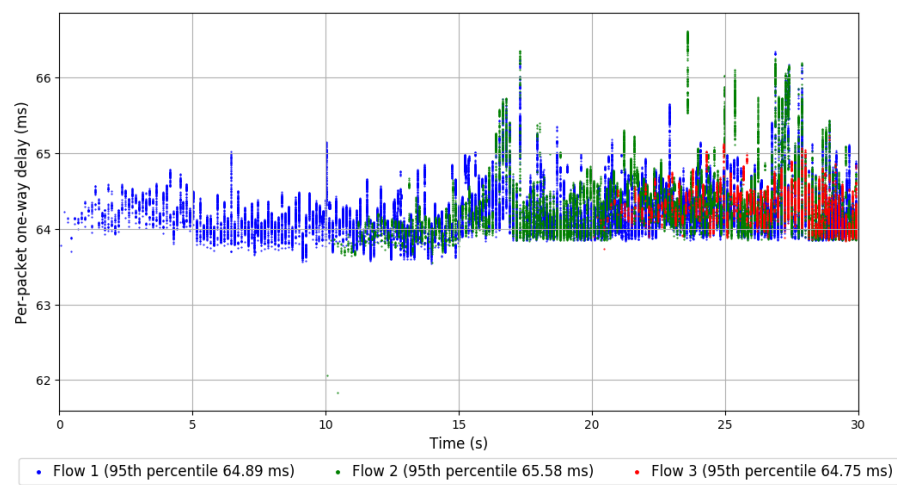
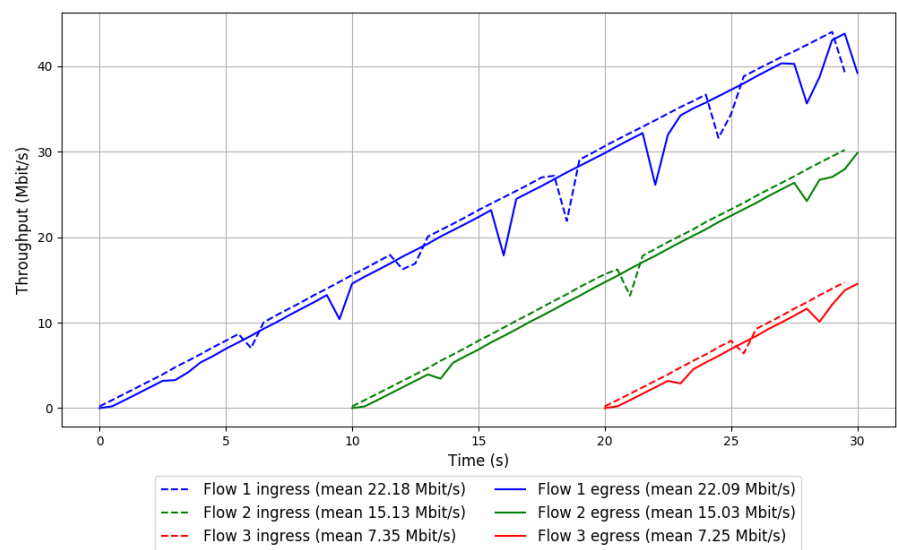


Run 3: Statistics of LEDBAT

Start at: 2018-05-31 23:09:12
End at: 2018-05-31 23:09:42
Local clock offset: -0.022 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 65.065 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.09 Mbit/s
95th percentile per-packet one-way delay: 64.888 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 65.581 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 64.755 ms
Loss rate: 2.56%

Run 3: Report of LEDBAT — Data Link

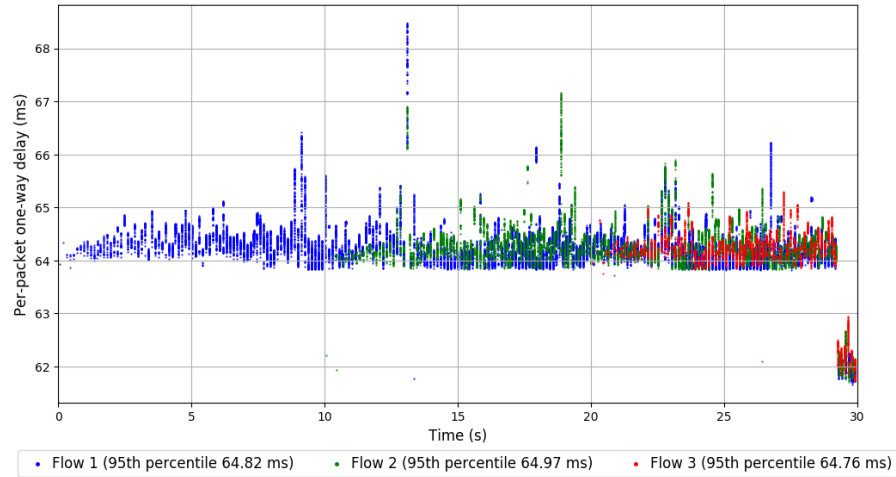
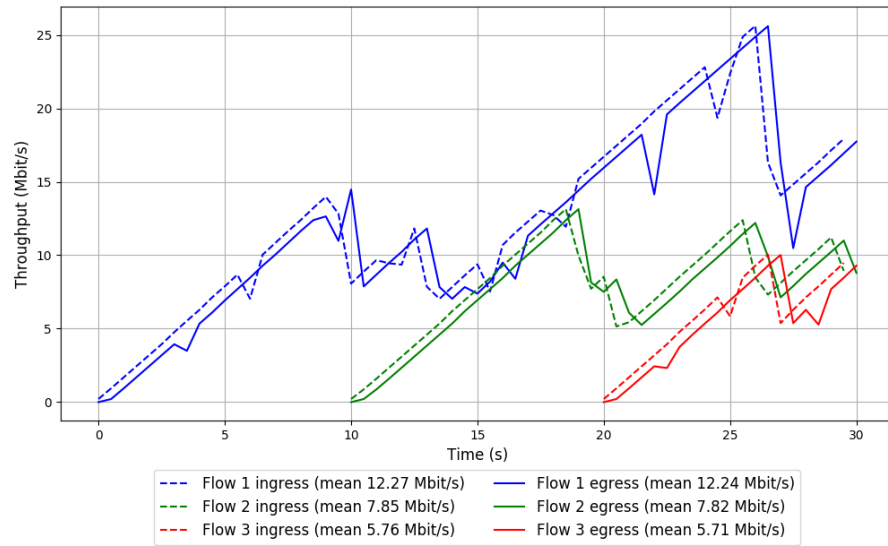


Run 4: Statistics of LEDBAT

Start at: 2018-05-31 23:32:38
End at: 2018-05-31 23:33:08
Local clock offset: 0.018 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.29 Mbit/s
95th percentile per-packet one-way delay: 64.858 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 64.817 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 64.968 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 64.756 ms
Loss rate: 2.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-31 23:55:48

End at: 2018-05-31 23:56:18

Local clock offset: 0.016 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.27 Mbit/s

95th percentile per-packet one-way delay: 64.391 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 14.79 Mbit/s

95th percentile per-packet one-way delay: 64.473 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 15.30 Mbit/s

95th percentile per-packet one-way delay: 64.347 ms

Loss rate: 1.25%

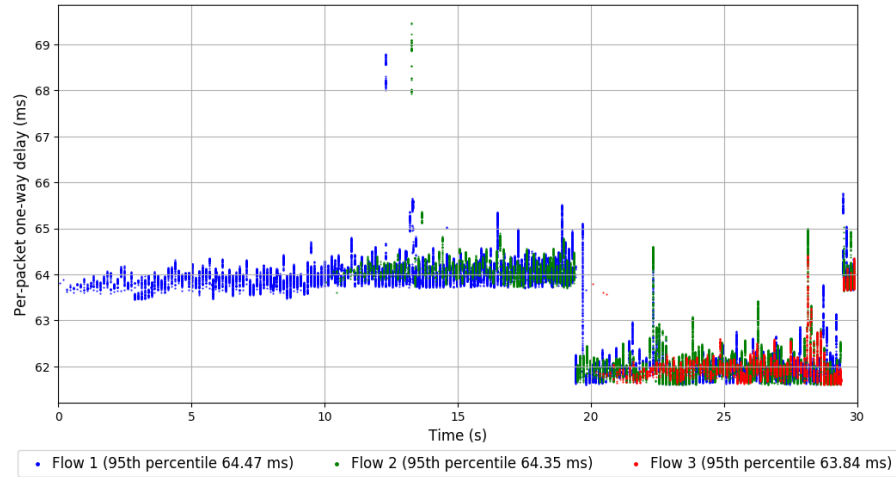
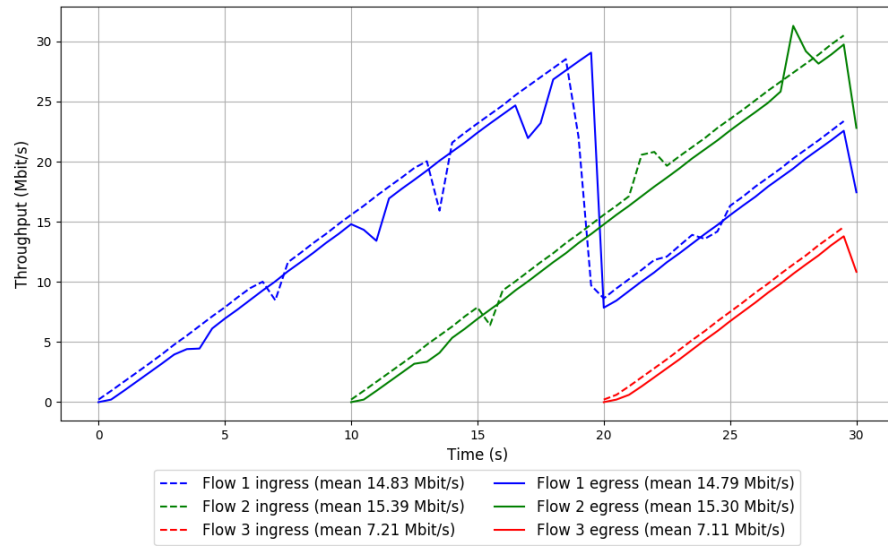
-- Flow 3:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 63.836 ms

Loss rate: 2.60%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-01 00:19:05

End at: 2018-06-01 00:19:35

Local clock offset: -0.014 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-01 03:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 64.496 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 64.503 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 1.30%

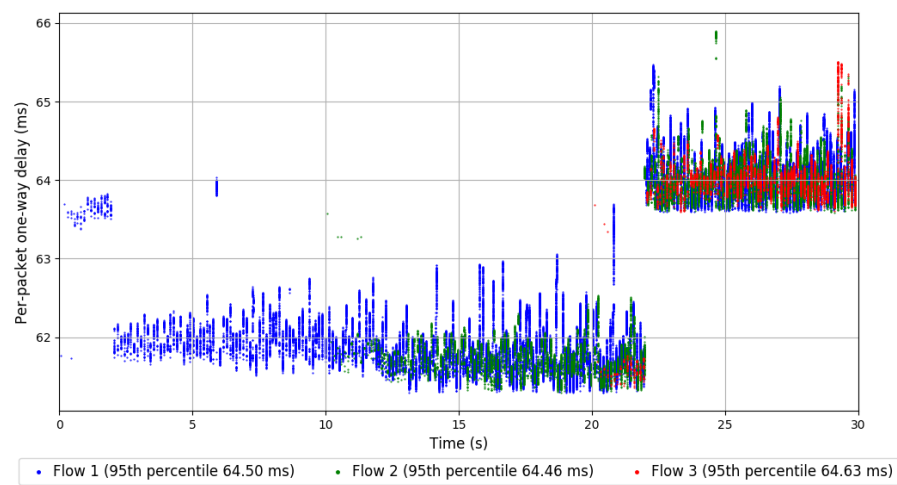
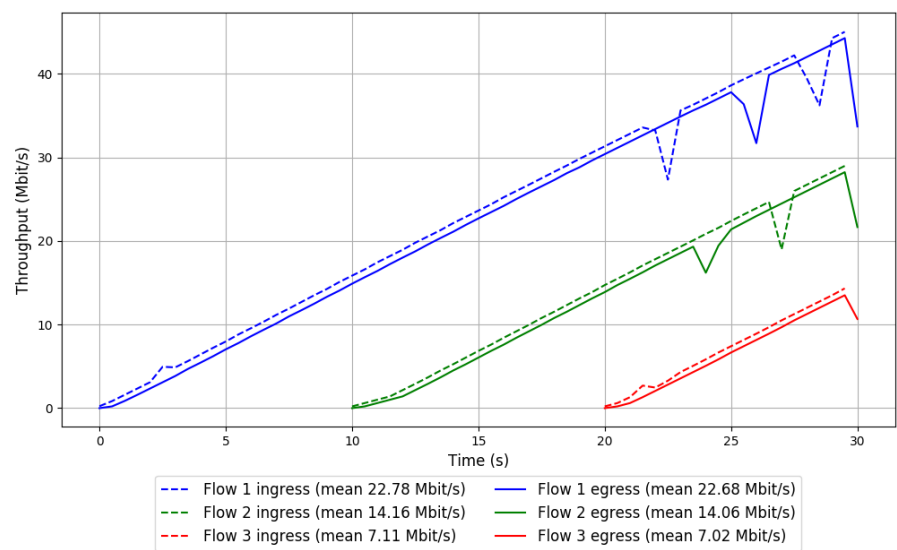
-- Flow 3:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 64.633 ms

Loss rate: 2.59%

Run 6: Report of LEDBAT — Data Link

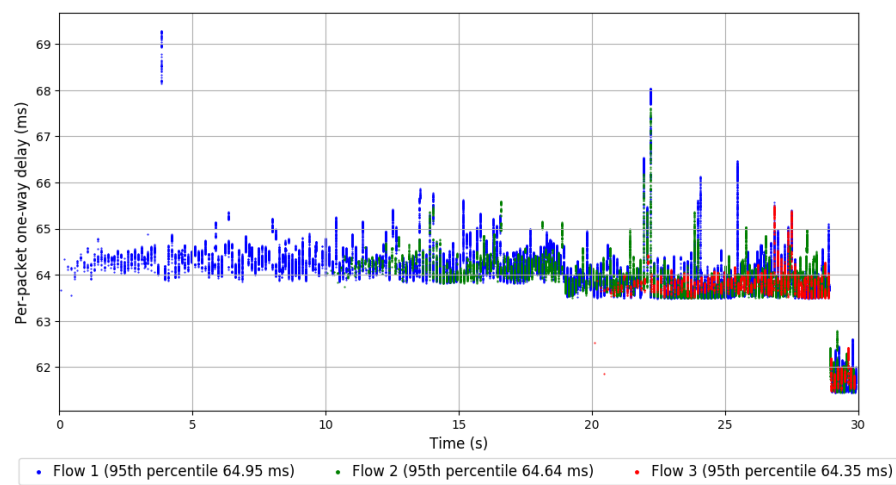
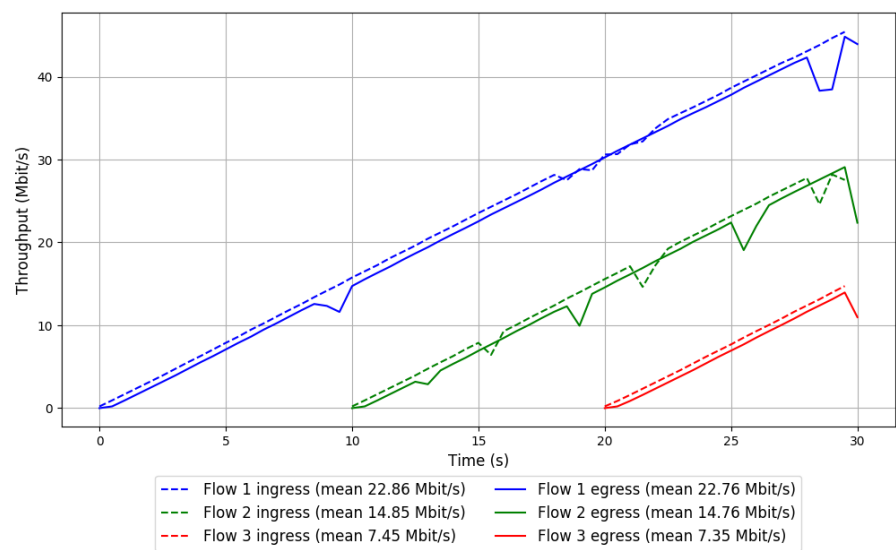


Run 7: Statistics of LEDBAT

Start at: 2018-06-01 00:42:19
End at: 2018-06-01 00:42:49
Local clock offset: 0.008 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-01 03:55:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 64.857 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 64.950 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 64.639 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 2.55%

Run 7: Report of LEDBAT — Data Link

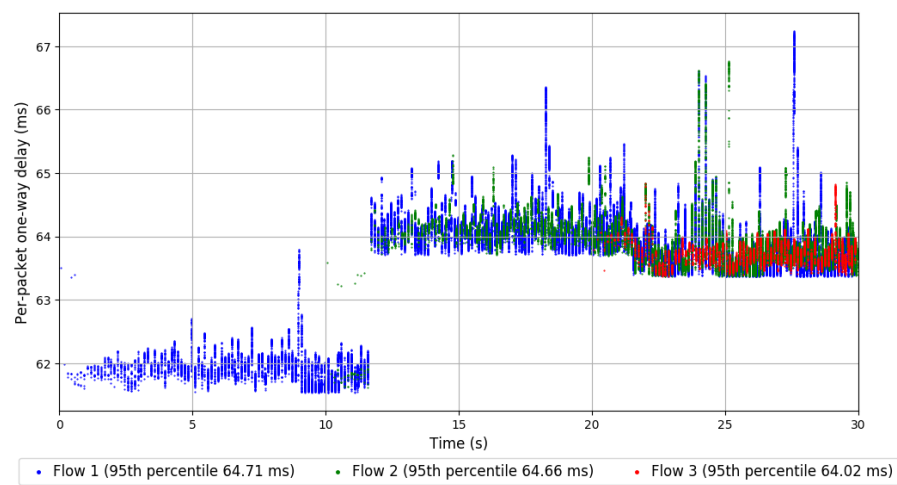
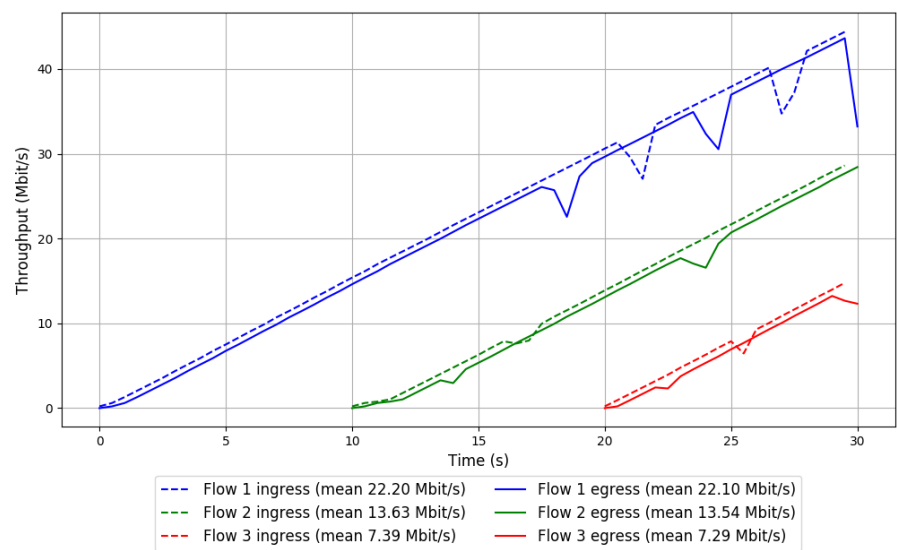


Run 8: Statistics of LEDBAT

Start at: 2018-06-01 01:05:56
End at: 2018-06-01 01:06:26
Local clock offset: -0.052 ms
Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-01 03:55:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 64.657 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 64.713 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 13.54 Mbit/s
95th percentile per-packet one-way delay: 64.659 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 64.021 ms
Loss rate: 2.57%

Run 8: Report of LEDBAT — Data Link

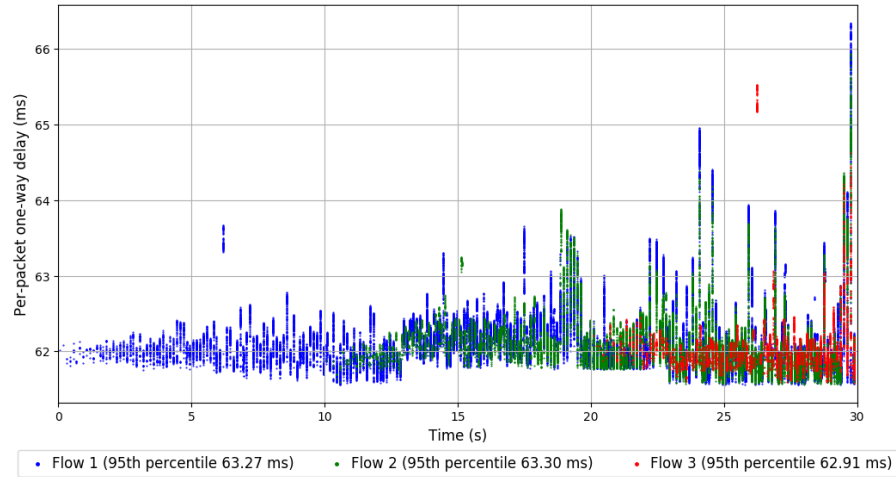
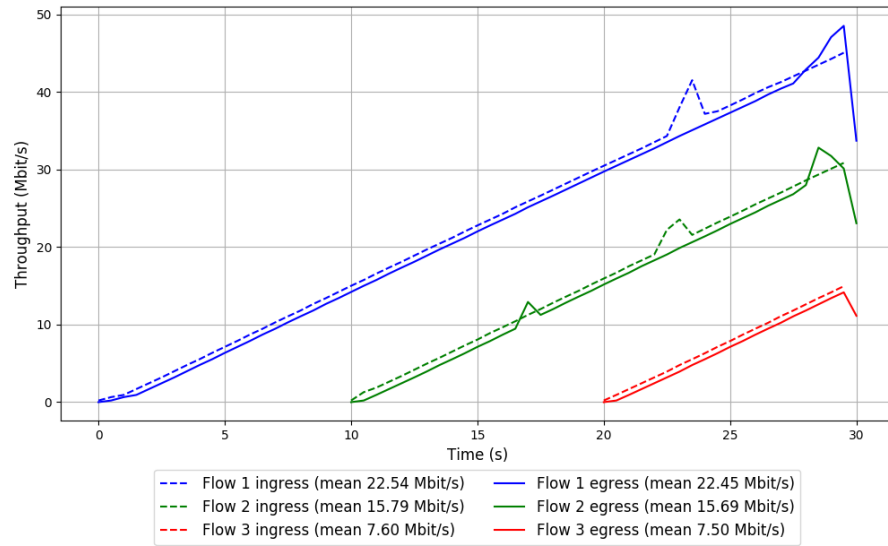


Run 9: Statistics of LEDBAT

Start at: 2018-06-01 01:29:05
End at: 2018-06-01 01:29:35
Local clock offset: 0.193 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2018-06-01 03:55:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 63.257 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 63.269 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 63.300 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 62.909 ms
Loss rate: 2.54%

Run 9: Report of LEDBAT — Data Link

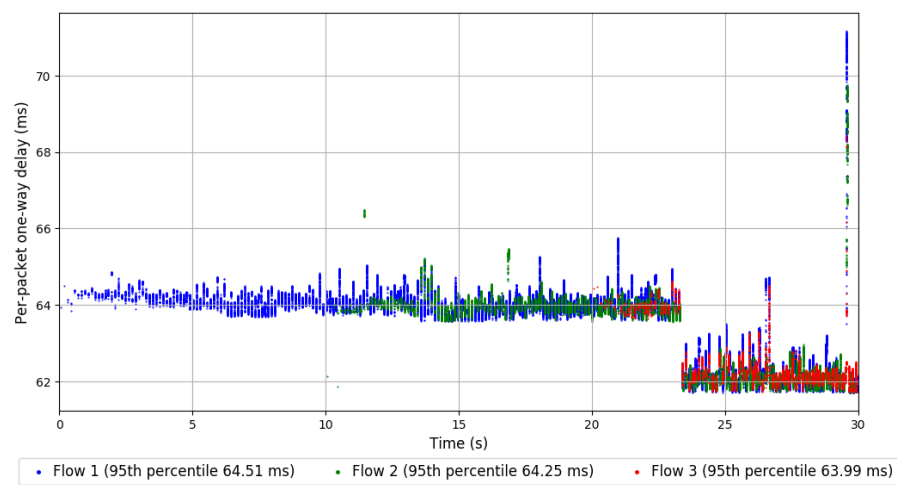
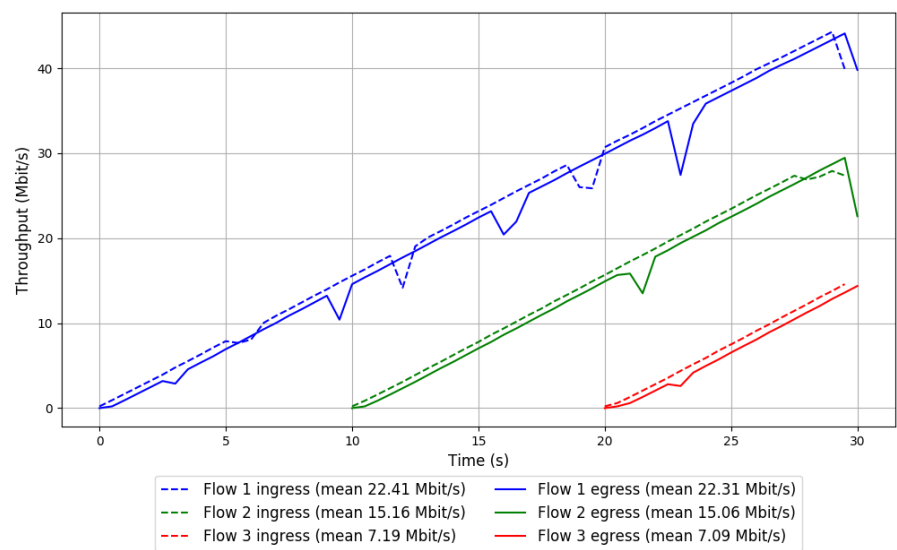


Run 10: Statistics of LEDBAT

Start at: 2018-06-01 01:52:24
End at: 2018-06-01 01:52:54
Local clock offset: 0.036 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-06-01 03:55:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 64.445 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 22.31 Mbit/s
95th percentile per-packet one-way delay: 64.509 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 64.247 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 63.995 ms
Loss rate: 2.60%

Run 10: Report of LEDBAT — Data Link

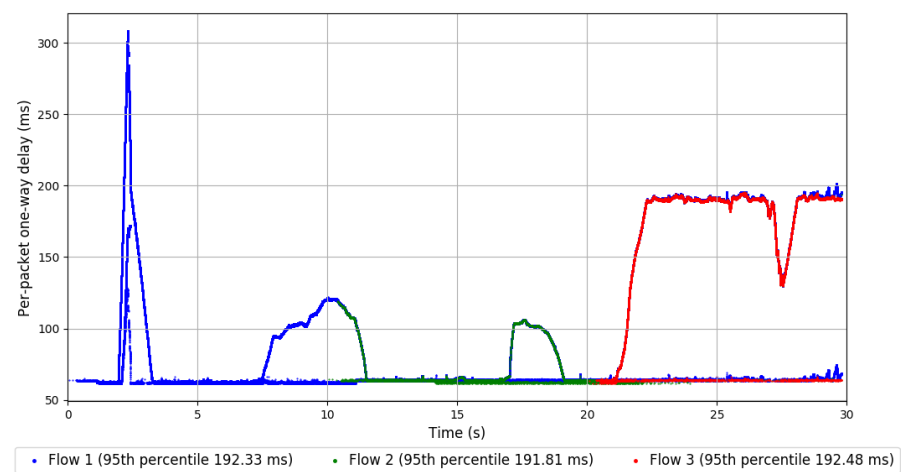
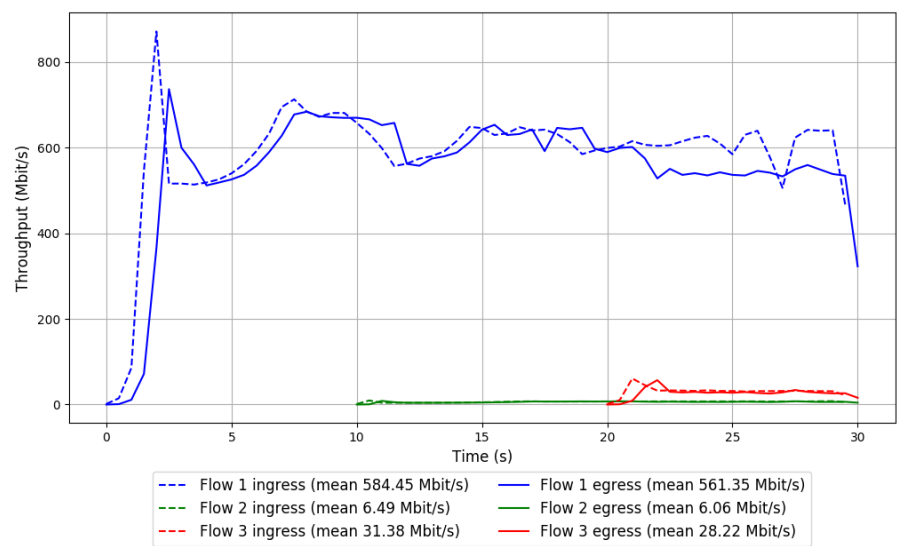


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-31 22:44:06
End at: 2018-05-31 22:44:36
Local clock offset: 0.005 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-01 03:55:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.52 Mbit/s
95th percentile per-packet one-way delay: 192.333 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 561.35 Mbit/s
95th percentile per-packet one-way delay: 192.334 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 191.810 ms
Loss rate: 7.28%
-- Flow 3:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 192.476 ms
Loss rate: 11.20%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-31 23:07:43

End at: 2018-05-31 23:08:13

Local clock offset: -0.052 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-01 03:55:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 549.54 Mbit/s

95th percentile per-packet one-way delay: 185.693 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 515.76 Mbit/s

95th percentile per-packet one-way delay: 186.104 ms

Loss rate: 2.19%

-- Flow 2:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 186.871 ms

Loss rate: 2.49%

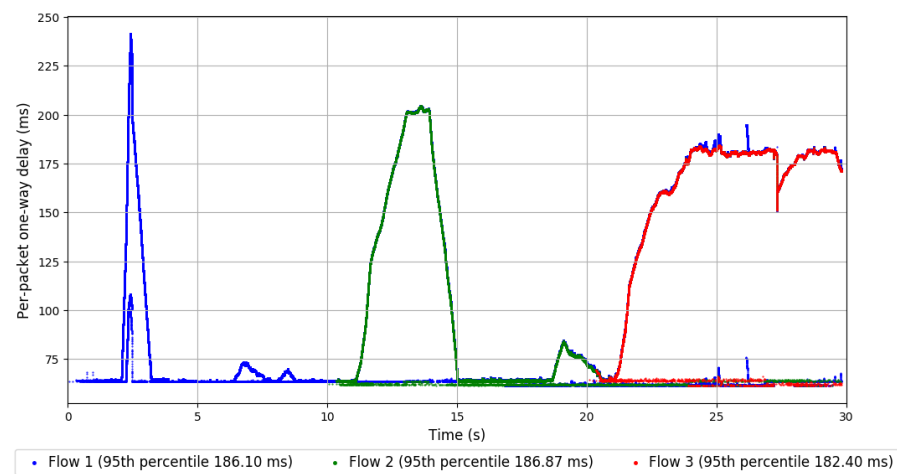
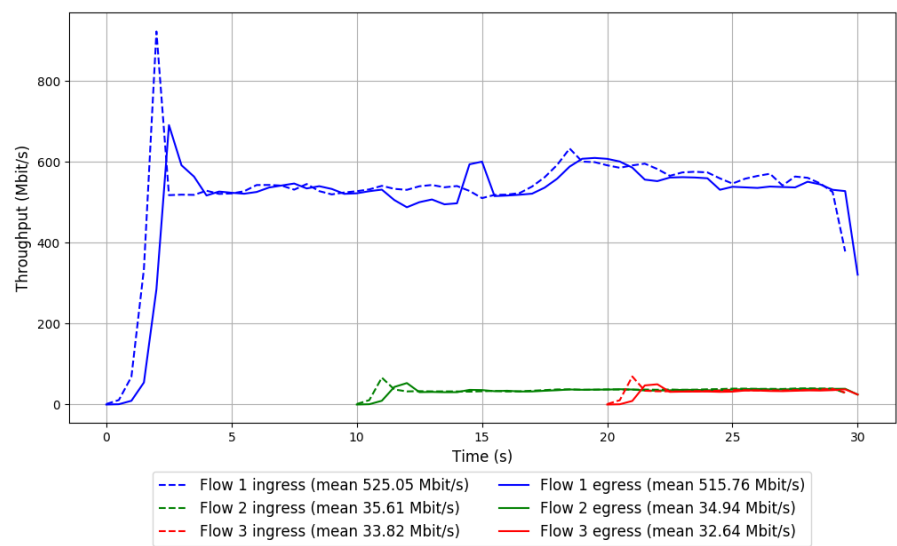
-- Flow 3:

Average throughput: 32.64 Mbit/s

95th percentile per-packet one-way delay: 182.402 ms

Loss rate: 4.72%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-31 23:31:08

End at: 2018-05-31 23:31:38

Local clock offset: 0.007 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-01 03:55:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 589.66 Mbit/s

95th percentile per-packet one-way delay: 176.832 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 529.10 Mbit/s

95th percentile per-packet one-way delay: 176.846 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 176.493 ms

Loss rate: 1.13%

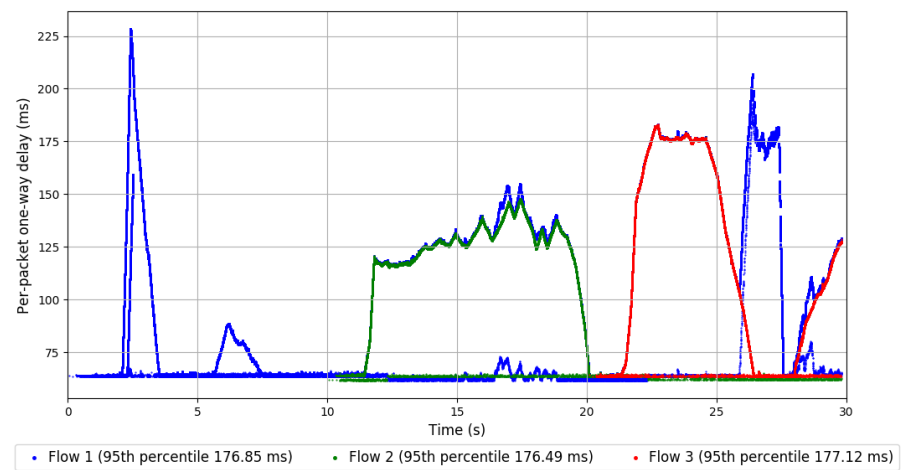
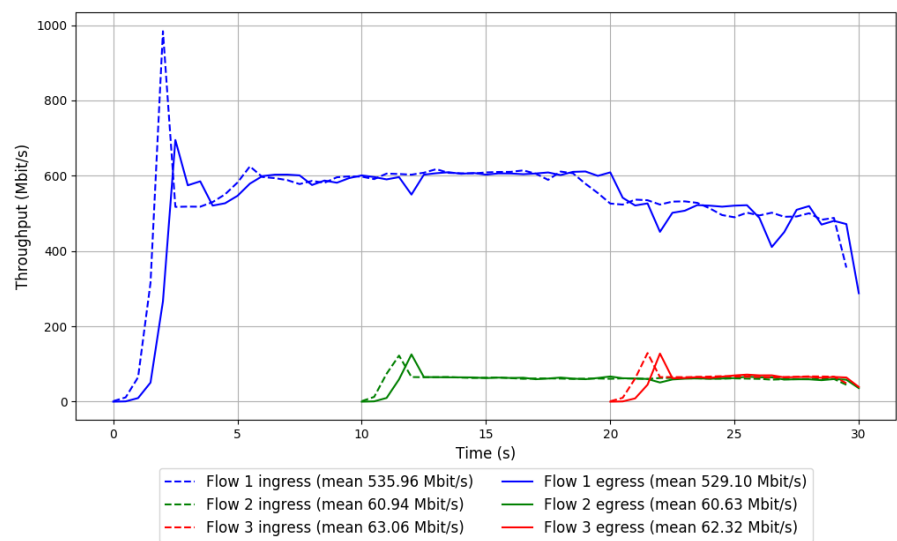
-- Flow 3:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 177.119 ms

Loss rate: 2.45%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-31 23:54:17

End at: 2018-05-31 23:54:47

Local clock offset: 0.046 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-06-01 03:55:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 600.60 Mbit/s

95th percentile per-packet one-way delay: 179.646 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 569.99 Mbit/s

95th percentile per-packet one-way delay: 179.591 ms

Loss rate: 1.53%

-- Flow 2:

Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 179.131 ms

Loss rate: 1.93%

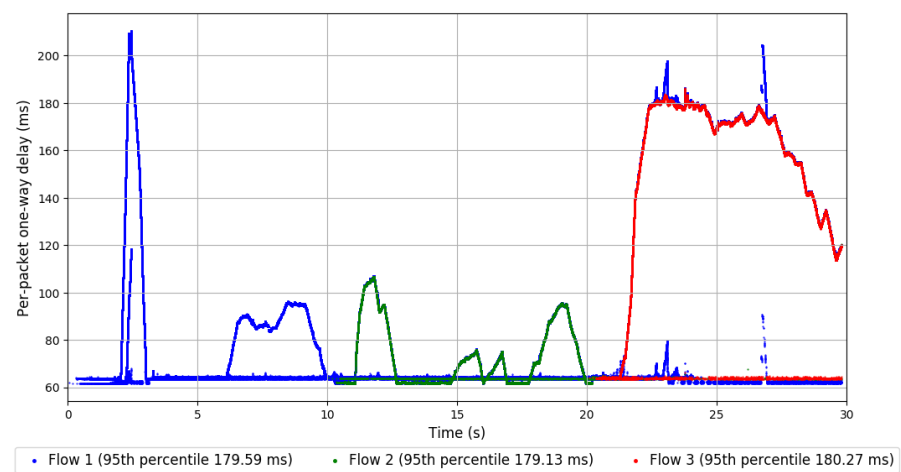
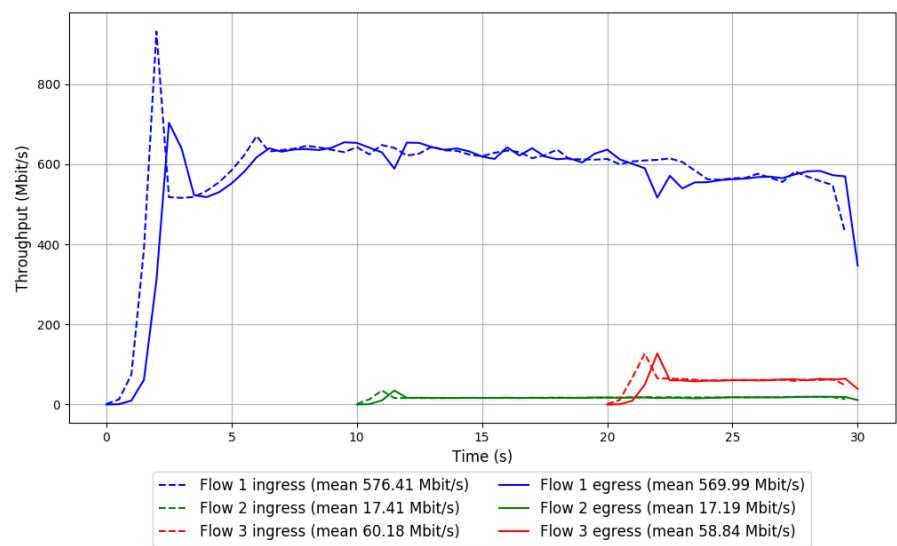
-- Flow 3:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 180.268 ms

Loss rate: 3.49%

Run 4: Report of PCC-Allegro — Data Link

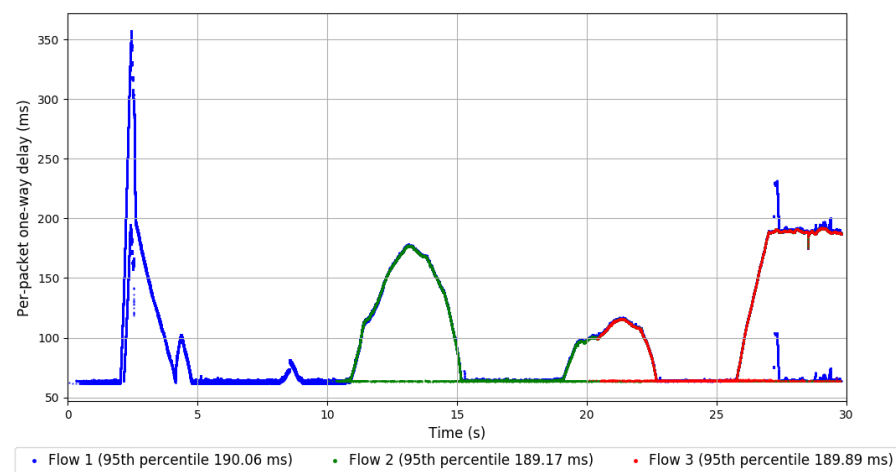
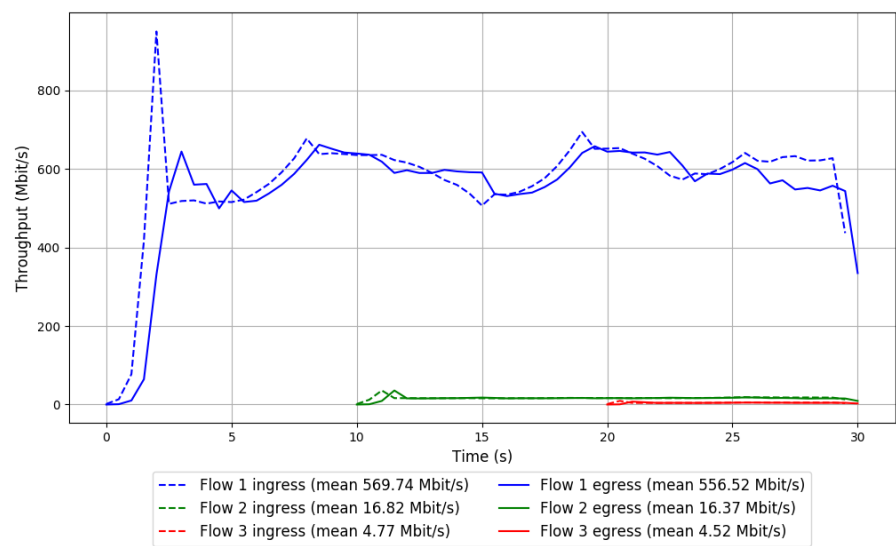


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-01 00:17:35
End at: 2018-06-01 00:18:05
Local clock offset: -0.027 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-01 03:55:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.85 Mbit/s
95th percentile per-packet one-way delay: 190.029 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 556.52 Mbit/s
95th percentile per-packet one-way delay: 190.062 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 16.37 Mbit/s
95th percentile per-packet one-way delay: 189.166 ms
Loss rate: 3.29%
-- Flow 3:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 189.887 ms
Loss rate: 6.50%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-01 00:40:49

End at: 2018-06-01 00:41:19

Local clock offset: -0.006 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-01 03:55:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.20 Mbit/s

95th percentile per-packet one-way delay: 191.153 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 549.17 Mbit/s

95th percentile per-packet one-way delay: 191.152 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 191.120 ms

Loss rate: 2.13%

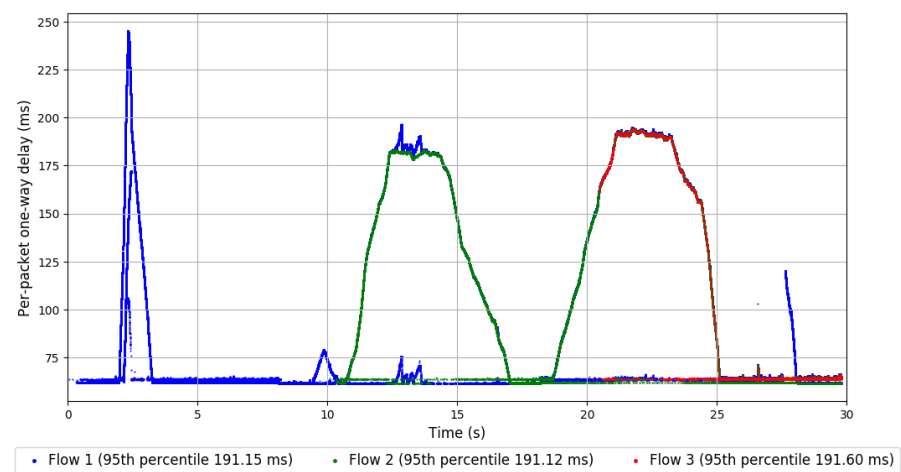
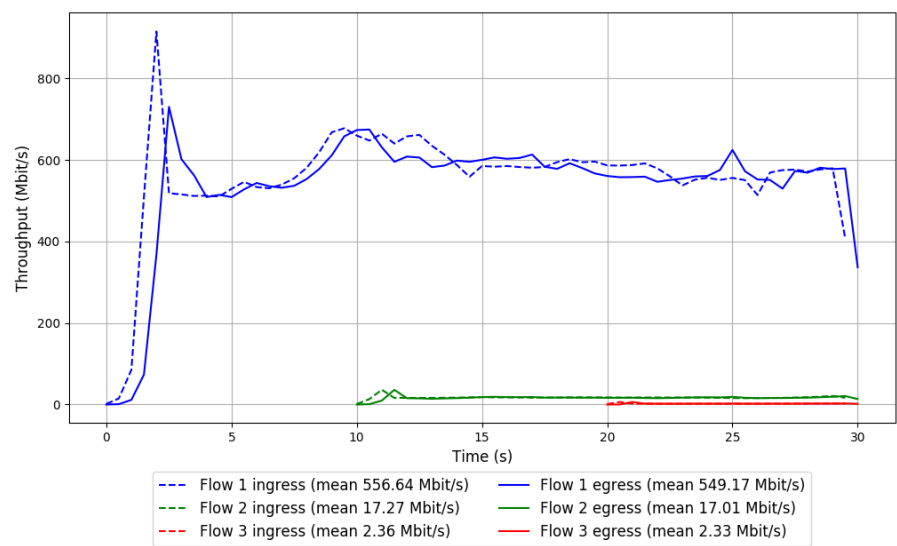
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 191.597 ms

Loss rate: 2.53%

Run 6: Report of PCC-Allegro — Data Link

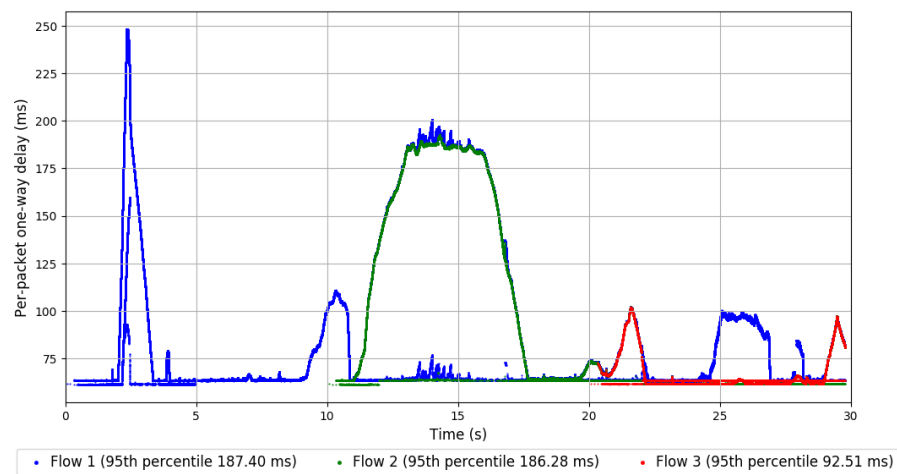
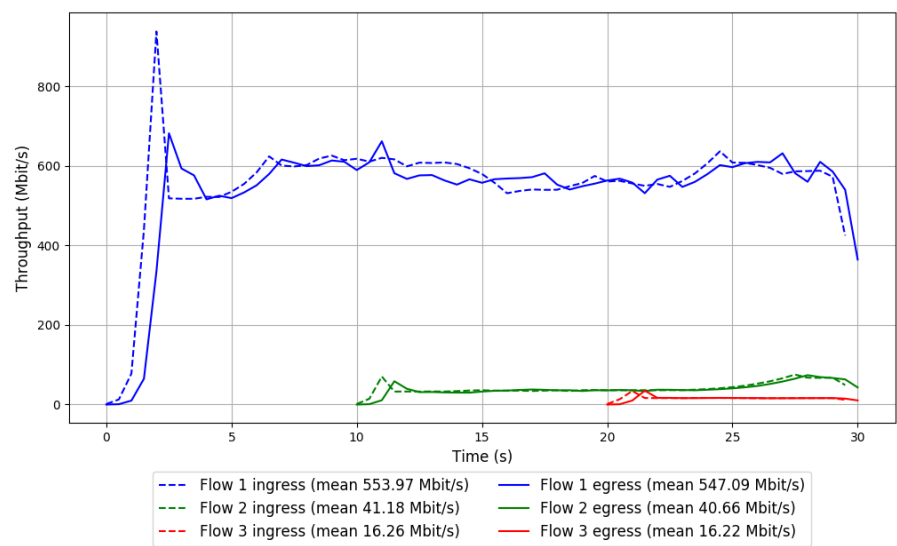


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-01 01:04:25
End at: 2018-06-01 01:04:55
Local clock offset: -0.037 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-01 03:59:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.37 Mbit/s
95th percentile per-packet one-way delay: 187.265 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 547.09 Mbit/s
95th percentile per-packet one-way delay: 187.397 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 186.275 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 92.506 ms
Loss rate: 1.48%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-01 01:27:35

End at: 2018-06-01 01:28:05

Local clock offset: 0.148 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-01 03:59:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 551.26 Mbit/s

95th percentile per-packet one-way delay: 197.914 ms

Loss rate: 3.75%

-- Flow 1:

Average throughput: 547.85 Mbit/s

95th percentile per-packet one-way delay: 197.933 ms

Loss rate: 3.74%

-- Flow 2:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 195.534 ms

Loss rate: 5.48%

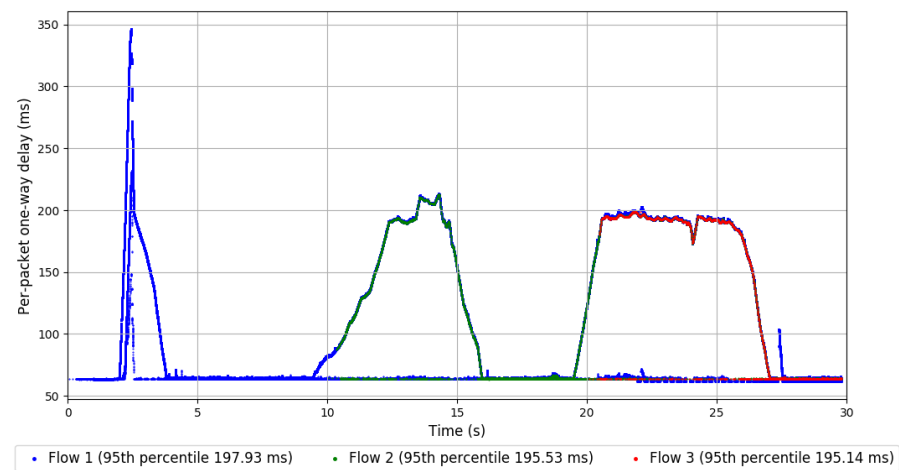
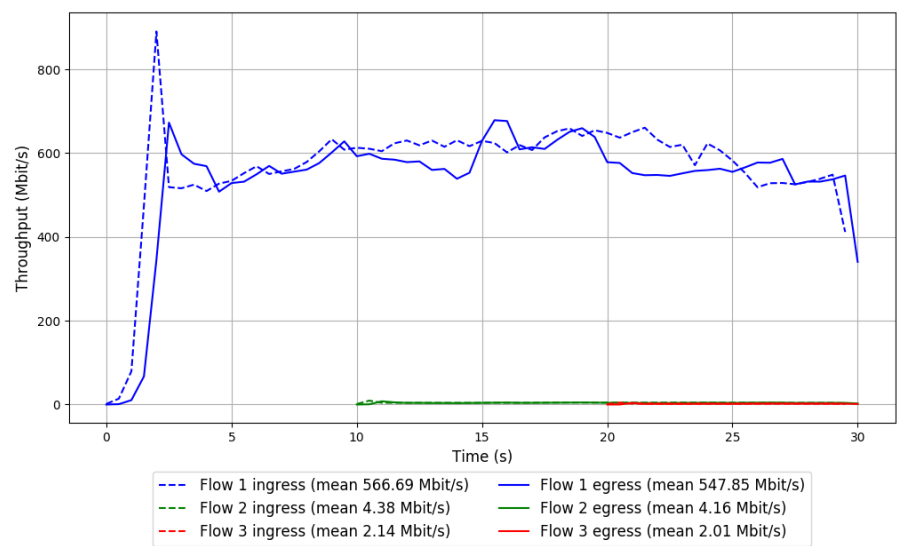
-- Flow 3:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 195.144 ms

Loss rate: 7.38%

Run 8: Report of PCC-Allegro — Data Link

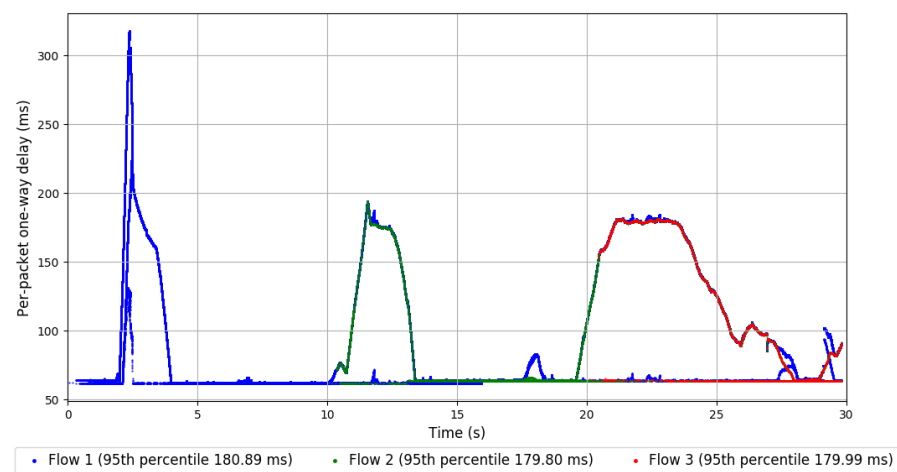
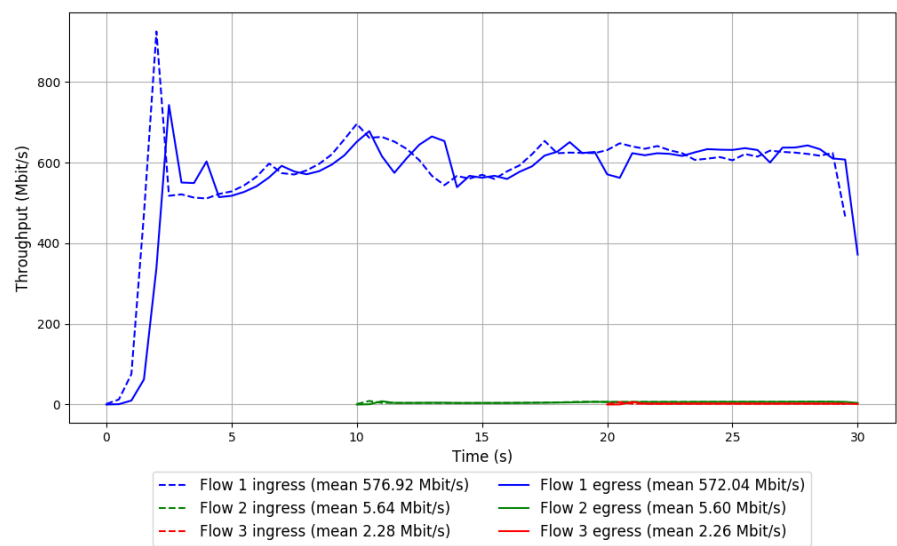


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-01 01:50:54
End at: 2018-06-01 01:51:24
Local clock offset: 0.042 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-06-01 04:01:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 576.45 Mbit/s
95th percentile per-packet one-way delay: 180.877 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 572.04 Mbit/s
95th percentile per-packet one-way delay: 180.894 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 179.802 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 179.987 ms
Loss rate: 1.80%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-01 02:14:27

End at: 2018-06-01 02:14:57

Local clock offset: -0.013 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-01 04:01:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 578.44 Mbit/s

95th percentile per-packet one-way delay: 201.814 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 556.30 Mbit/s

95th percentile per-packet one-way delay: 204.070 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 180.721 ms

Loss rate: 2.98%

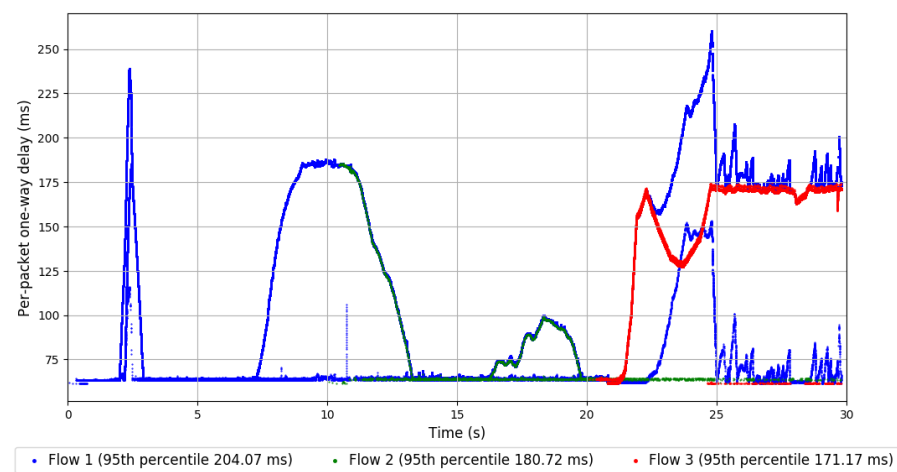
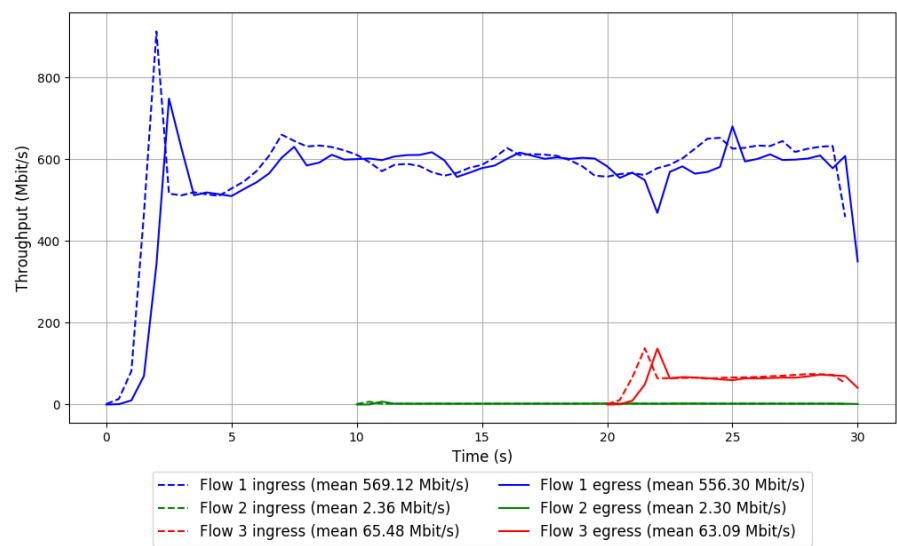
-- Flow 3:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 171.168 ms

Loss rate: 4.90%

Run 10: Report of PCC-Allegro — Data Link

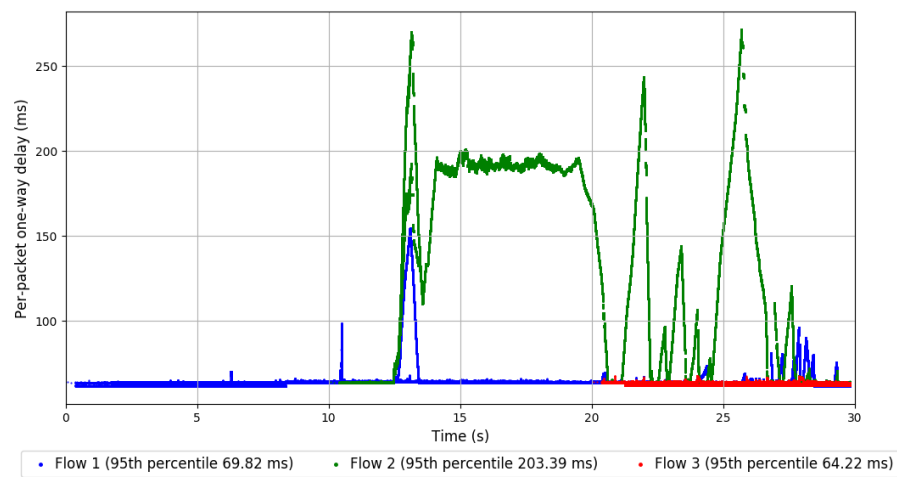
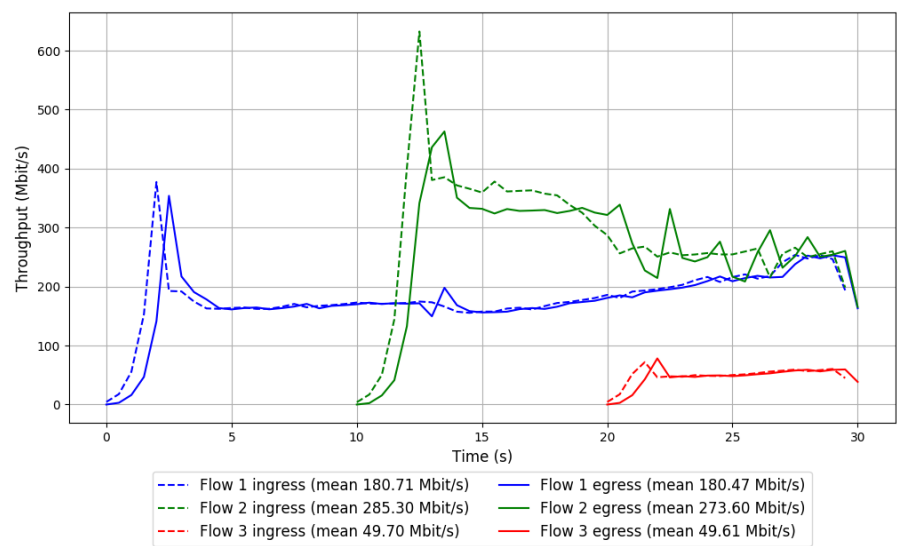


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-31 22:23:09
End at: 2018-05-31 22:23:39
Local clock offset: -0.055 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-06-01 04:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.25 Mbit/s
95th percentile per-packet one-way delay: 194.434 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 180.47 Mbit/s
95th percentile per-packet one-way delay: 69.818 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 273.60 Mbit/s
95th percentile per-packet one-way delay: 203.391 ms
Loss rate: 4.72%
-- Flow 3:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 64.222 ms
Loss rate: 1.47%
```

Run 1: Report of PCC-Expr — Data Link

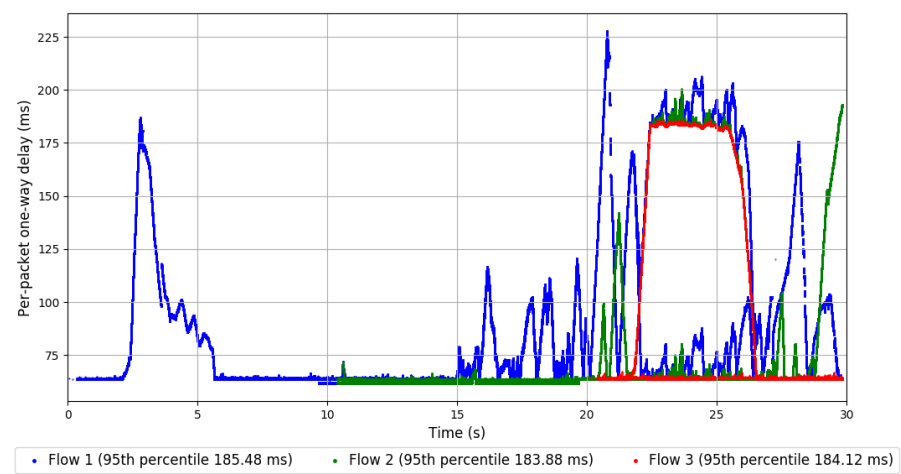
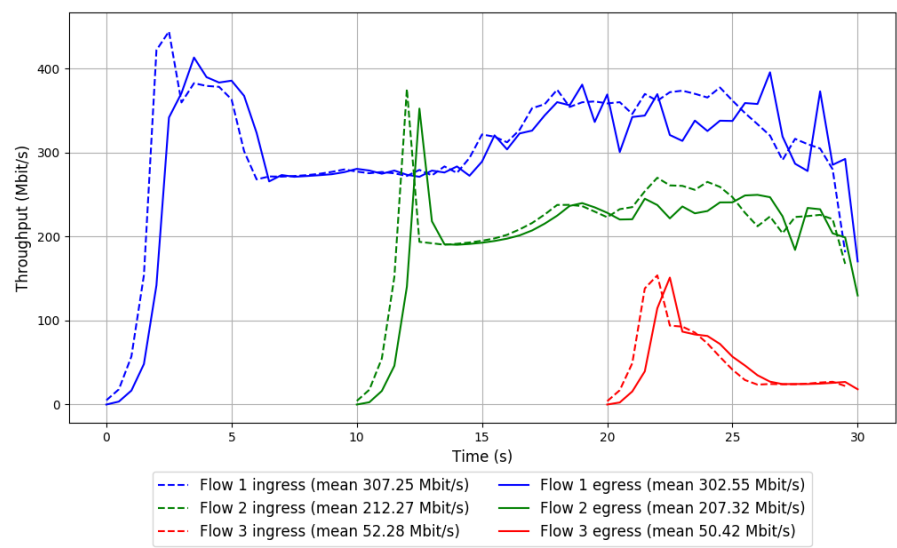


Run 2: Statistics of PCC-Expr

Start at: 2018-05-31 22:46:48
End at: 2018-05-31 22:47:18
Local clock offset: -0.03 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-01 04:07:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.64 Mbit/s
95th percentile per-packet one-way delay: 184.502 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 302.55 Mbit/s
95th percentile per-packet one-way delay: 185.484 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 207.32 Mbit/s
95th percentile per-packet one-way delay: 183.878 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 50.42 Mbit/s
95th percentile per-packet one-way delay: 184.117 ms
Loss rate: 4.81%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-31 23:10:24

End at: 2018-05-31 23:10:54

Local clock offset: -0.034 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-01 04:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.49 Mbit/s

95th percentile per-packet one-way delay: 116.635 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 255.29 Mbit/s

95th percentile per-packet one-way delay: 121.177 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 207.14 Mbit/s

95th percentile per-packet one-way delay: 106.888 ms

Loss rate: 1.27%

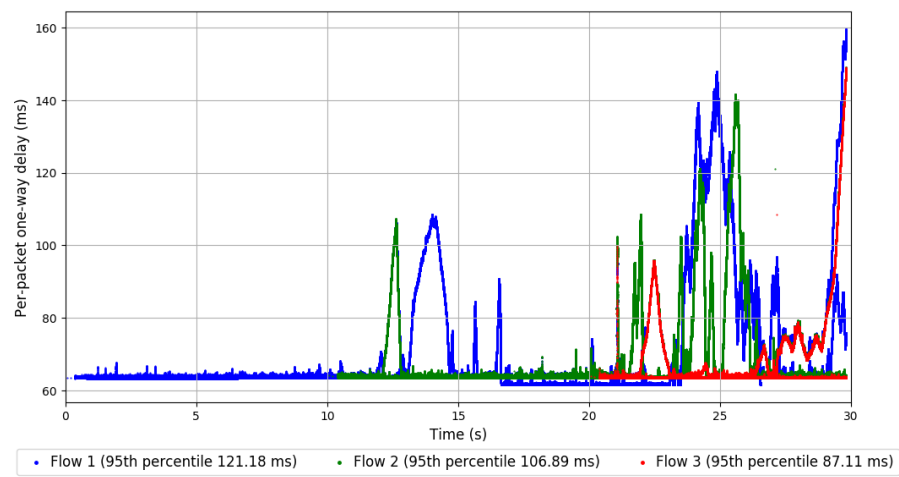
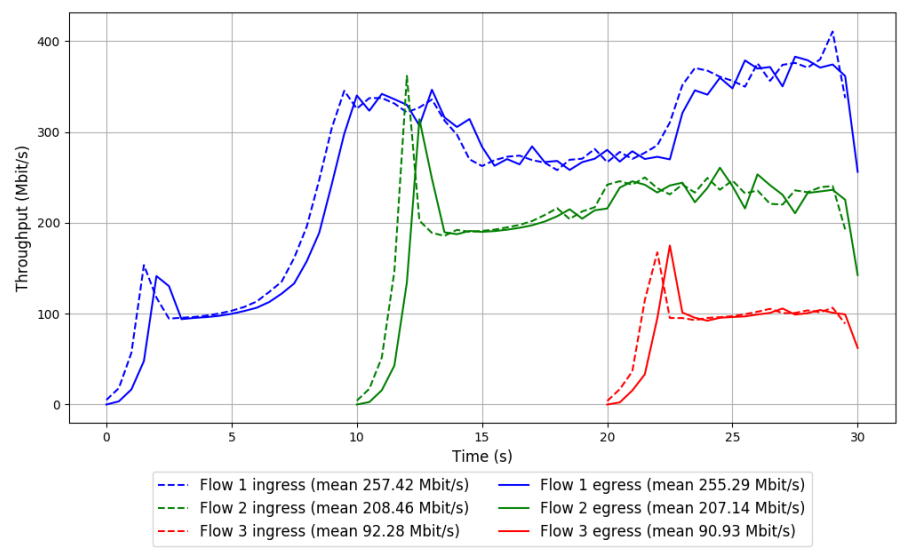
-- Flow 3:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 2.73%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-31 23:33:48

End at: 2018-05-31 23:34:18

Local clock offset: -0.019 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-01 04:10:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.16 Mbit/s

95th percentile per-packet one-way delay: 330.481 ms

Loss rate: 8.67%

-- Flow 1:

Average throughput: 302.31 Mbit/s

95th percentile per-packet one-way delay: 334.233 ms

Loss rate: 9.63%

-- Flow 2:

Average throughput: 37.35 Mbit/s

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

Loss rate: 3.99%

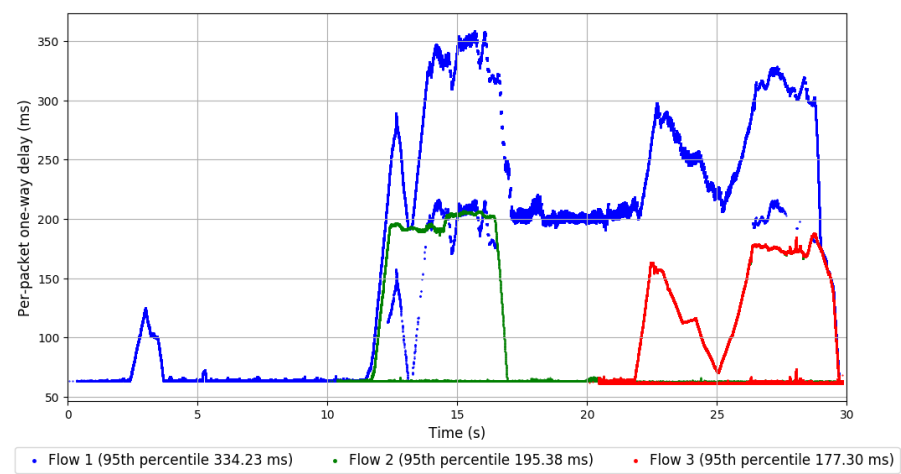
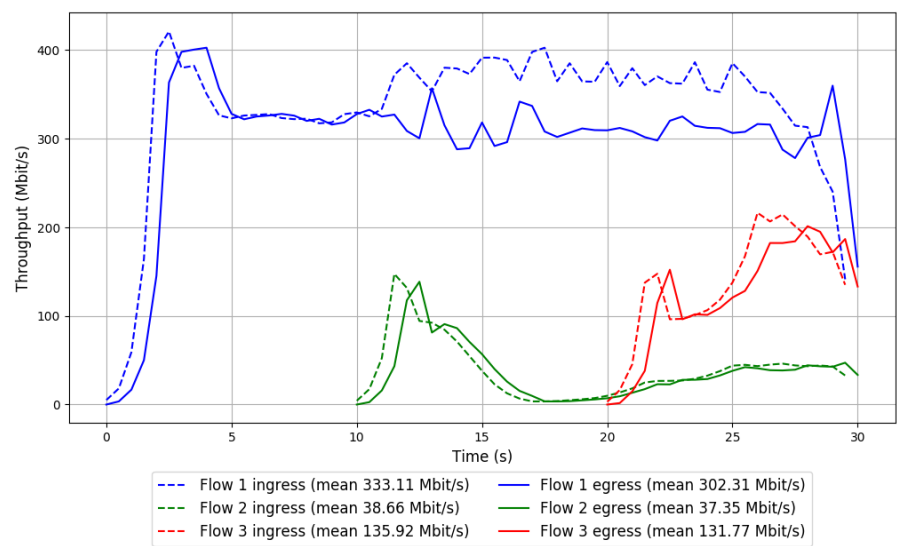
-- Flow 3:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 177.301 ms

Loss rate: 4.23%

Run 4: Report of PCC-Expr — Data Link

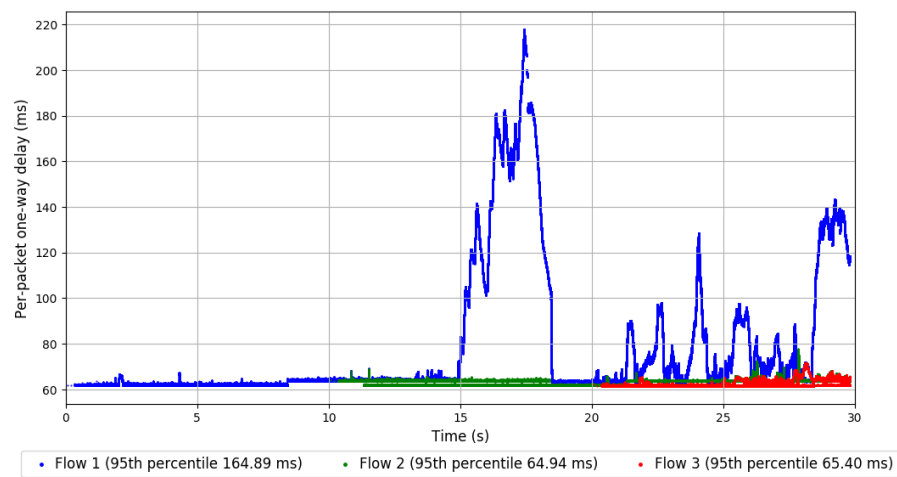
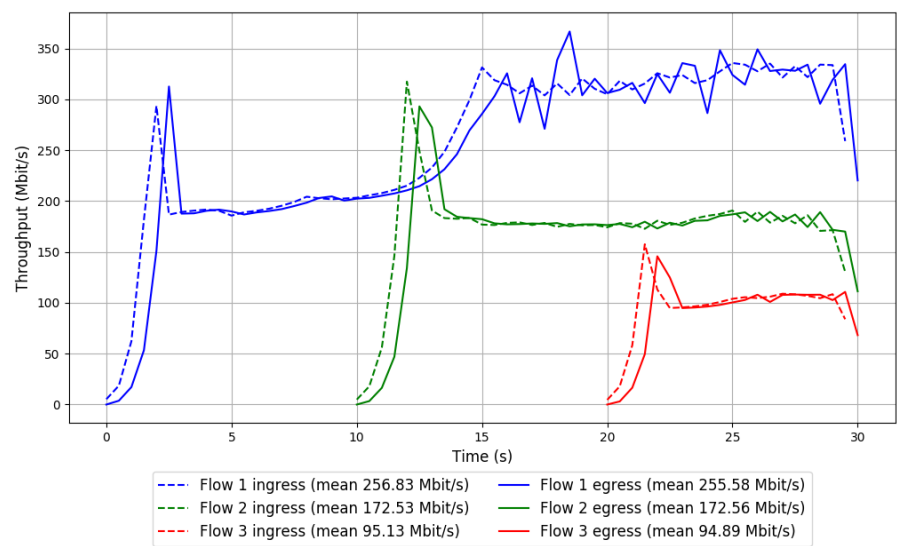


Run 5: Statistics of PCC-Expr

Start at: 2018-05-31 23:56:59
End at: 2018-05-31 23:57:29
Local clock offset: 0.029 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-06-01 04:12:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 401.19 Mbit/s
95th percentile per-packet one-way delay: 140.452 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 164.889 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 172.56 Mbit/s
95th percentile per-packet one-way delay: 64.943 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 65.399 ms
Loss rate: 1.53%

Run 5: Report of PCC-Expr — Data Link

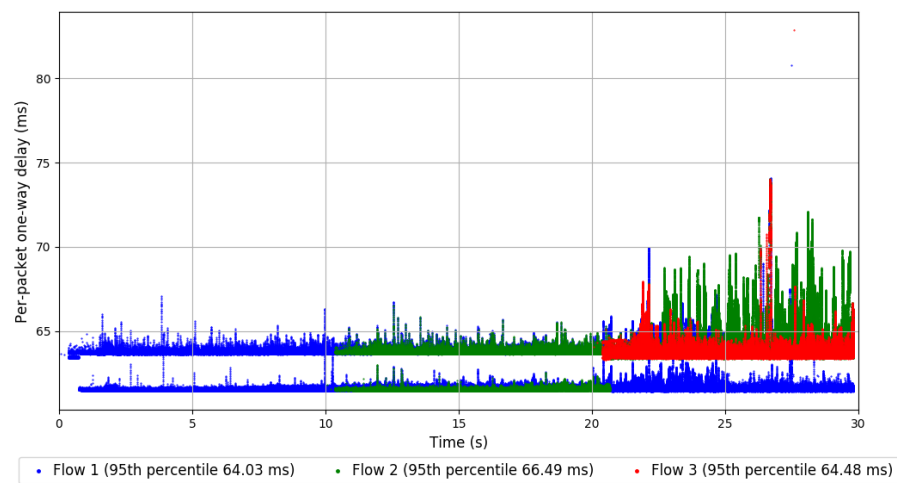
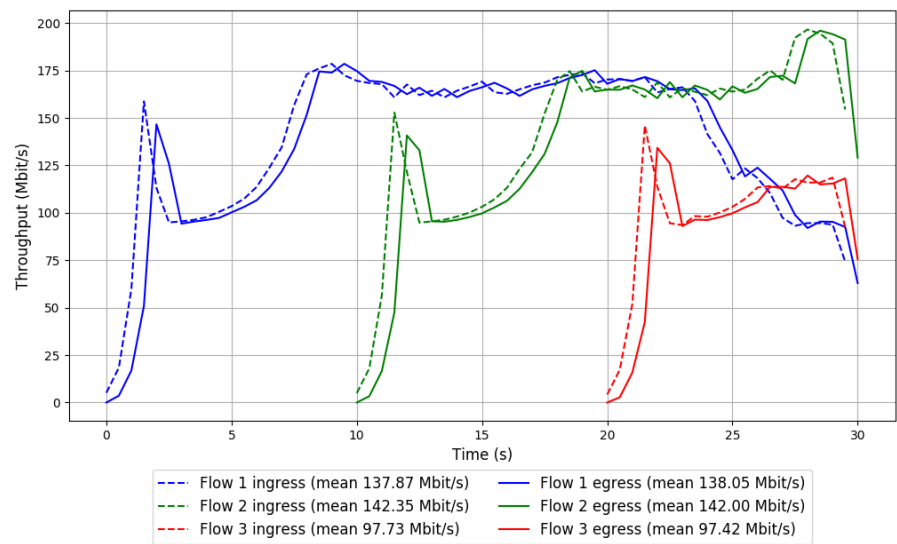


Run 6: Statistics of PCC-Expr

Start at: 2018-06-01 00:20:17
End at: 2018-06-01 00:20:47
Local clock offset: -0.038 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-01 04:12:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.19 Mbit/s
95th percentile per-packet one-way delay: 64.815 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 138.05 Mbit/s
95th percentile per-packet one-way delay: 64.027 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 142.00 Mbit/s
95th percentile per-packet one-way delay: 66.491 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 64.479 ms
Loss rate: 1.66%

Run 6: Report of PCC-Expr — Data Link

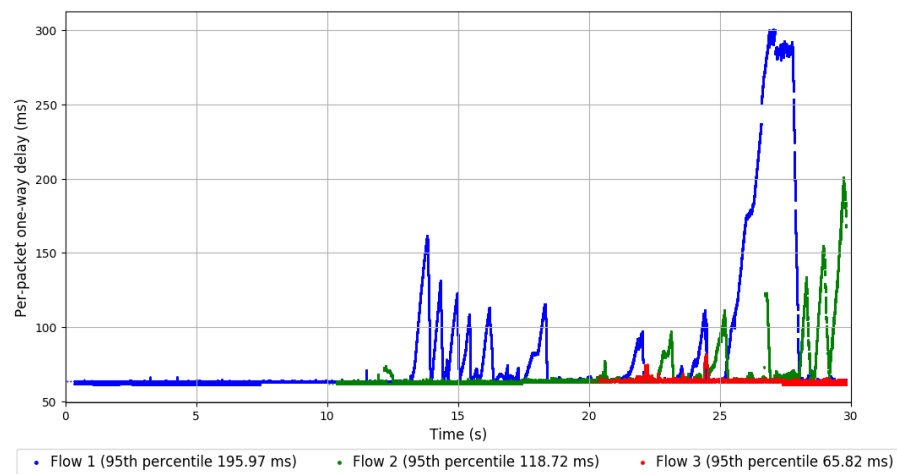
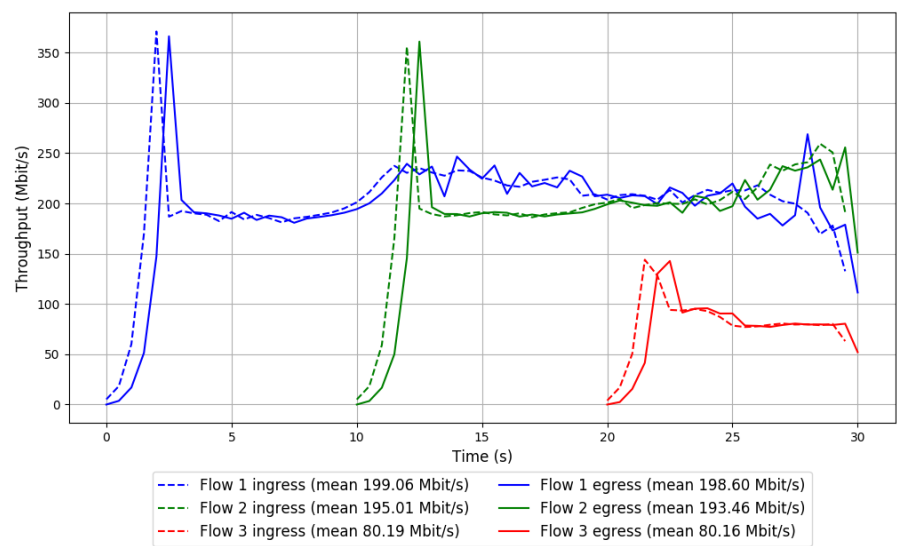


Run 7: Statistics of PCC-Expr

Start at: 2018-06-01 00:43:30
End at: 2018-06-01 00:44:00
Local clock offset: -0.038 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-06-01 04:14:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 353.22 Mbit/s
95th percentile per-packet one-way delay: 147.817 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 198.60 Mbit/s
95th percentile per-packet one-way delay: 195.971 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 193.46 Mbit/s
95th percentile per-packet one-way delay: 118.718 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 80.16 Mbit/s
95th percentile per-packet one-way delay: 65.821 ms
Loss rate: 1.33%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-01 01:07:07

End at: 2018-06-01 01:07:37

Local clock offset: -0.026 ms

Remote clock offset: 0.309 ms

Below is generated by plot.py at 2018-06-01 04:14:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.73 Mbit/s

95th percentile per-packet one-way delay: 217.271 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 199.35 Mbit/s

95th percentile per-packet one-way delay: 220.674 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 1.26%

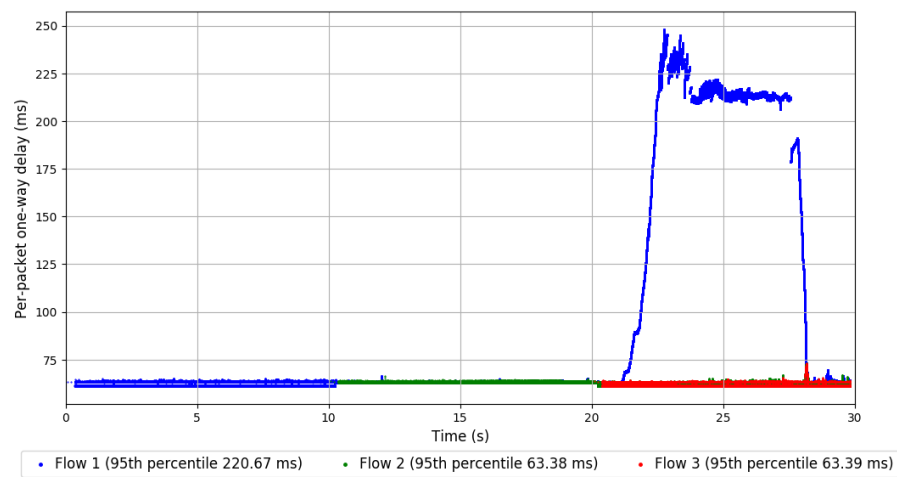
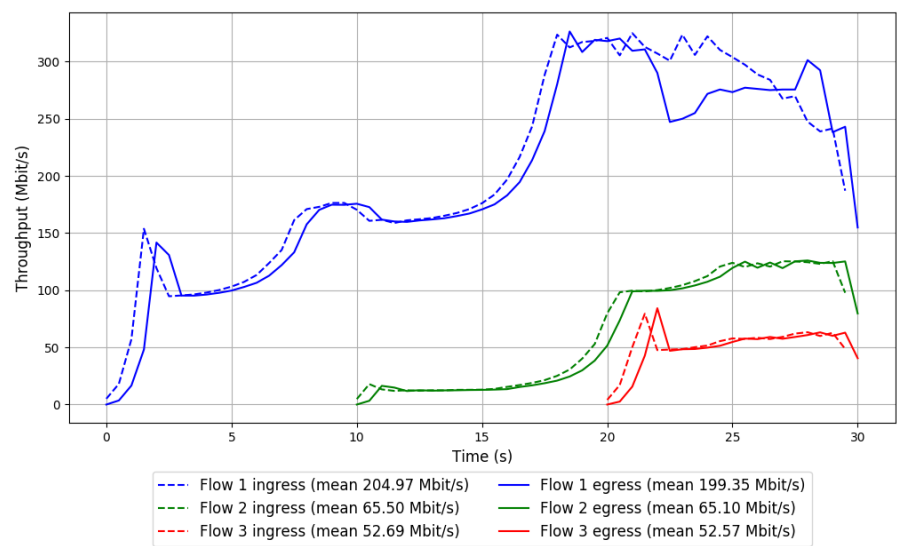
-- Flow 3:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 63.392 ms

Loss rate: 1.52%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-01 01:30:16

End at: 2018-06-01 01:30:46

Local clock offset: 0.167 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-01 04:18:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 425.18 Mbit/s

95th percentile per-packet one-way delay: 186.049 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 283.60 Mbit/s

95th percentile per-packet one-way delay: 197.267 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 176.71 Mbit/s

95th percentile per-packet one-way delay: 68.473 ms

Loss rate: 0.61%

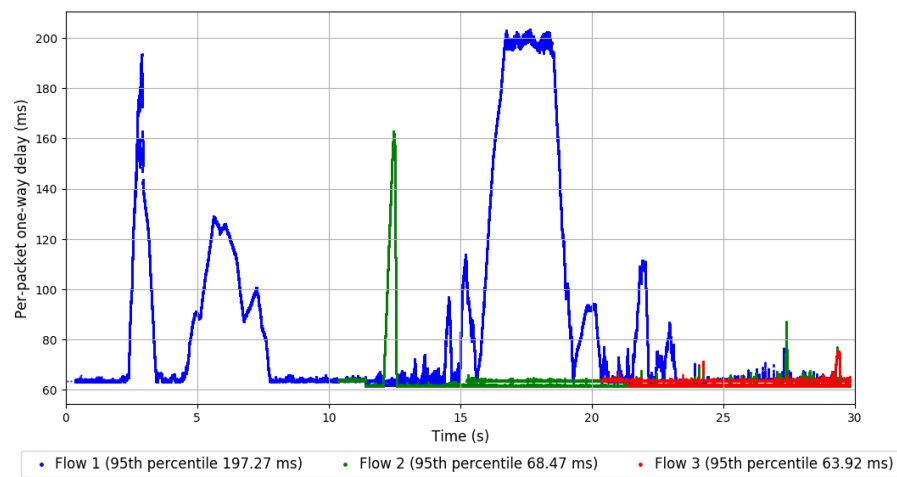
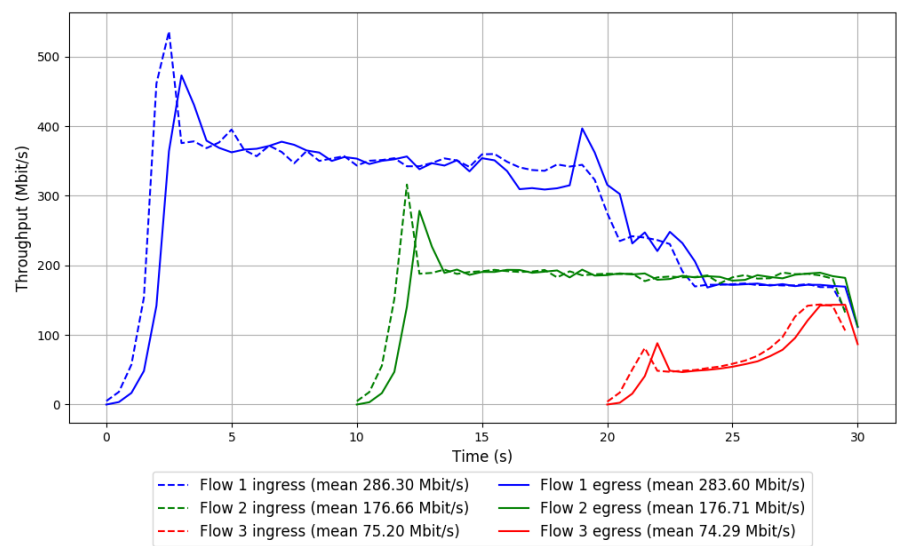
-- Flow 3:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 2.48%

Run 9: Report of PCC-Expr — Data Link

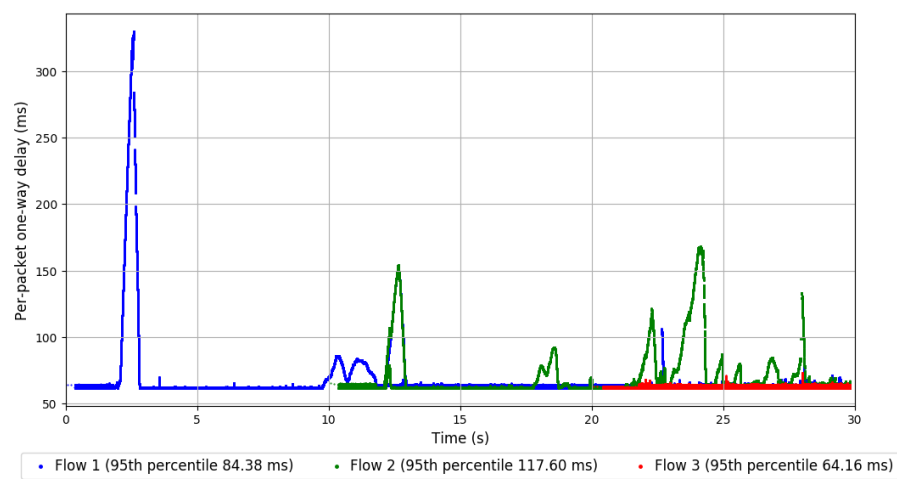
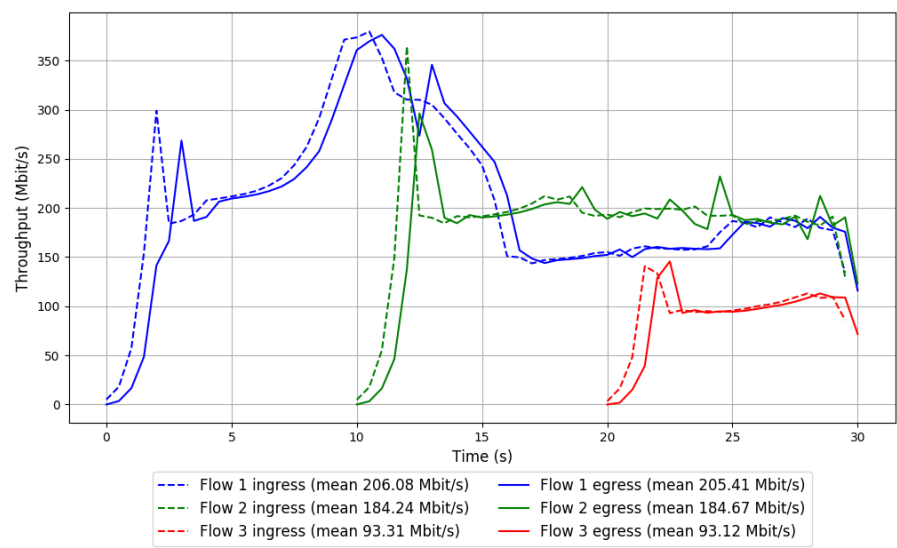


Run 10: Statistics of PCC-Expr

Start at: 2018-06-01 01:53:36
End at: 2018-06-01 01:54:06
Local clock offset: 0.054 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.42 Mbit/s
95th percentile per-packet one-way delay: 98.942 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 205.41 Mbit/s
95th percentile per-packet one-way delay: 84.383 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 184.67 Mbit/s
95th percentile per-packet one-way delay: 117.599 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 64.161 ms
Loss rate: 1.53%

Run 10: Report of PCC-Expr — Data Link

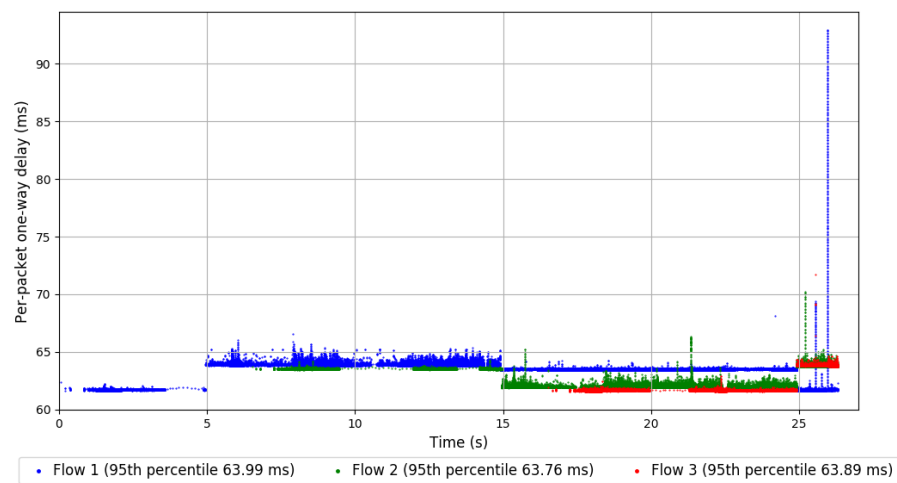
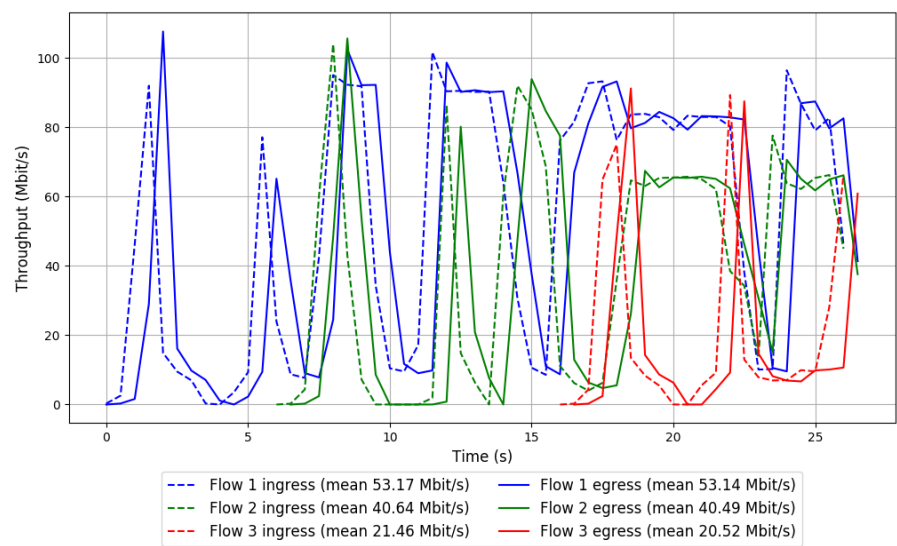


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-31 22:26:19
End at: 2018-05-31 22:26:49
Local clock offset: -0.041 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 63.937 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 63.759 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 63.894 ms
Loss rate: 5.58%

Run 1: Report of QUIC Cubic — Data Link

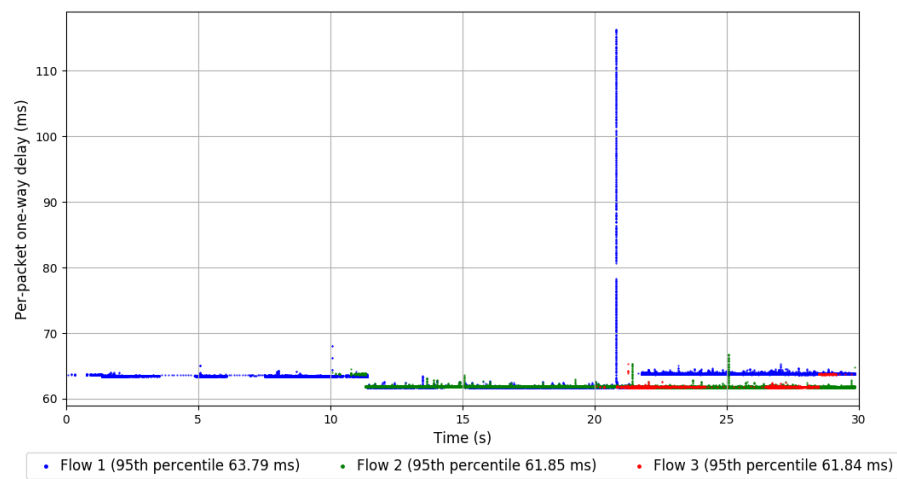
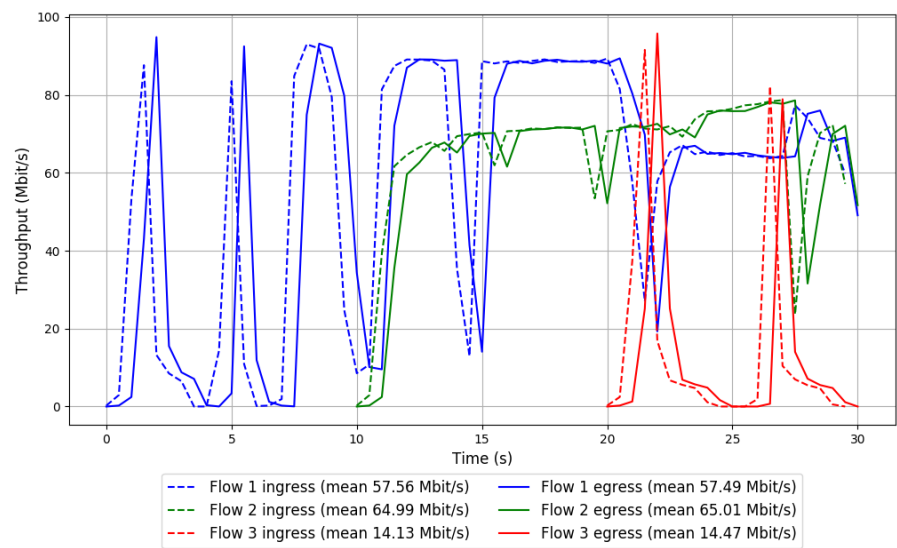


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-31 22:49:59
End at: 2018-05-31 22:50:29
Local clock offset: -0.034 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.34 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 65.01 Mbit/s
95th percentile per-packet one-way delay: 61.854 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 14.47 Mbit/s
95th percentile per-packet one-way delay: 61.835 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-31 23:13:32

End at: 2018-05-31 23:14:02

Local clock offset: 0.003 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-06-01 04:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.05 Mbit/s

95th percentile per-packet one-way delay: 63.389 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 43.81 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 63.326 ms

Loss rate: 1.40%

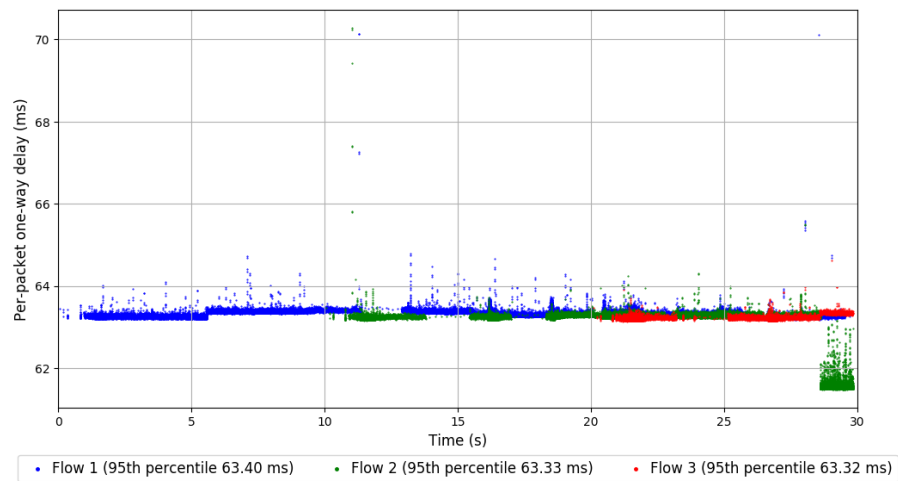
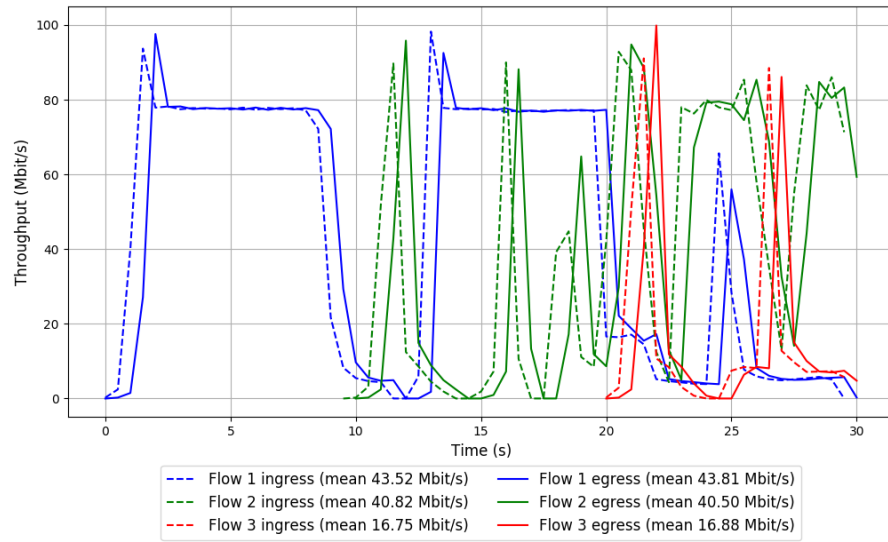
-- Flow 3:

Average throughput: 16.88 Mbit/s

95th percentile per-packet one-way delay: 63.324 ms

Loss rate: 0.57%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-31 23:36:56

End at: 2018-05-31 23:37:26

Local clock offset: -0.069 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-06-01 04:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 58.14 Mbit/s

95th percentile per-packet one-way delay: 63.523 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 63.604 ms

Loss rate: 1.02%

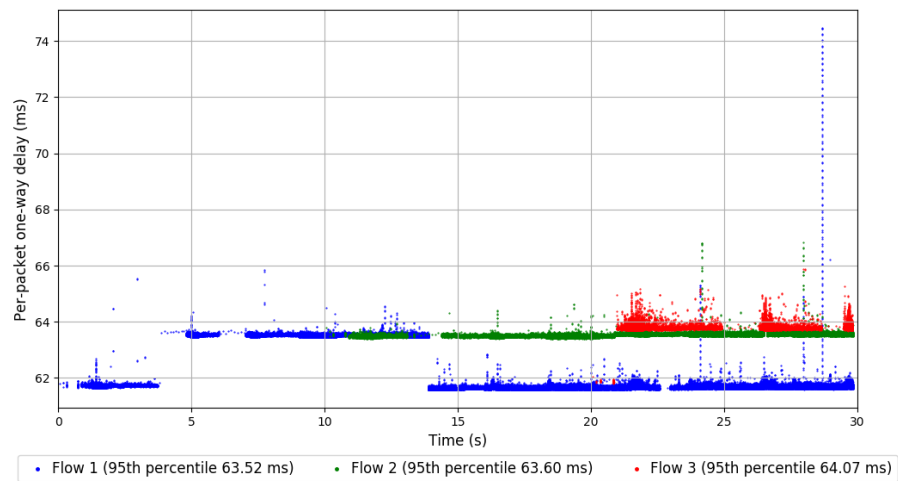
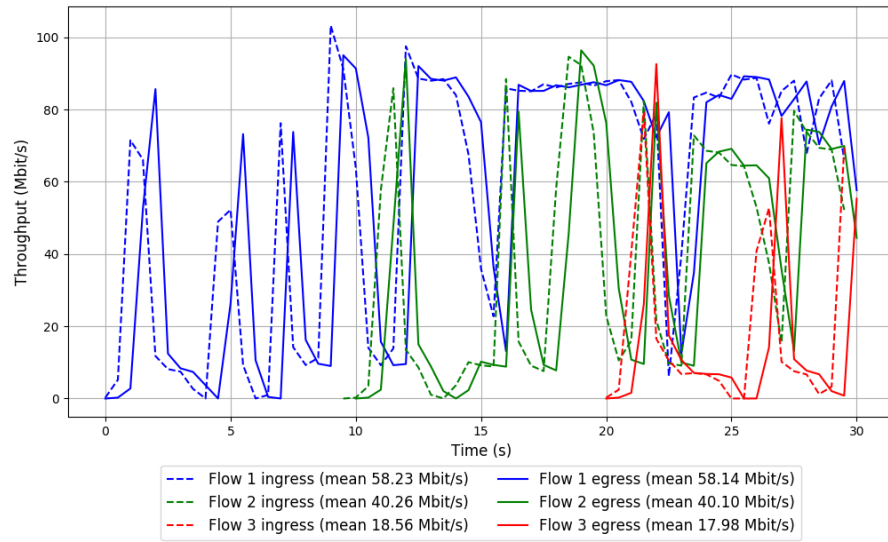
-- Flow 3:

Average throughput: 17.98 Mbit/s

95th percentile per-packet one-way delay: 64.071 ms

Loss rate: 4.53%

Run 4: Report of QUIC Cubic — Data Link

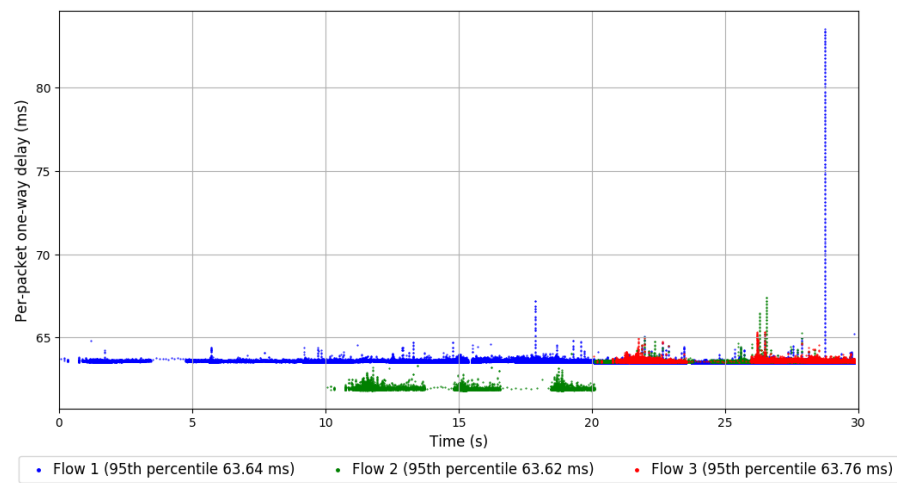
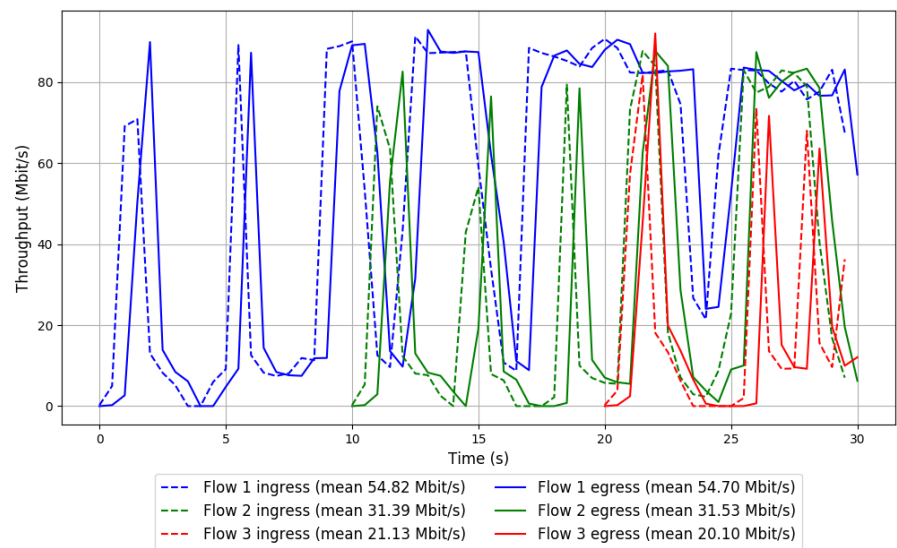


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-01 00:00:07
End at: 2018-06-01 00:00:37
Local clock offset: 0.032 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 63.641 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 63.623 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 63.757 ms
Loss rate: 6.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-01 00:23:16

End at: 2018-06-01 00:23:46

Local clock offset: -0.044 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-01 04:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.29%

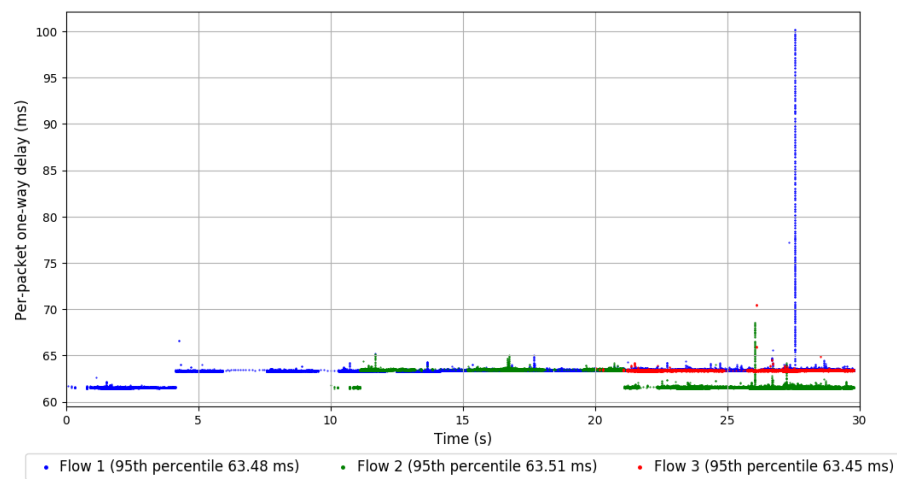
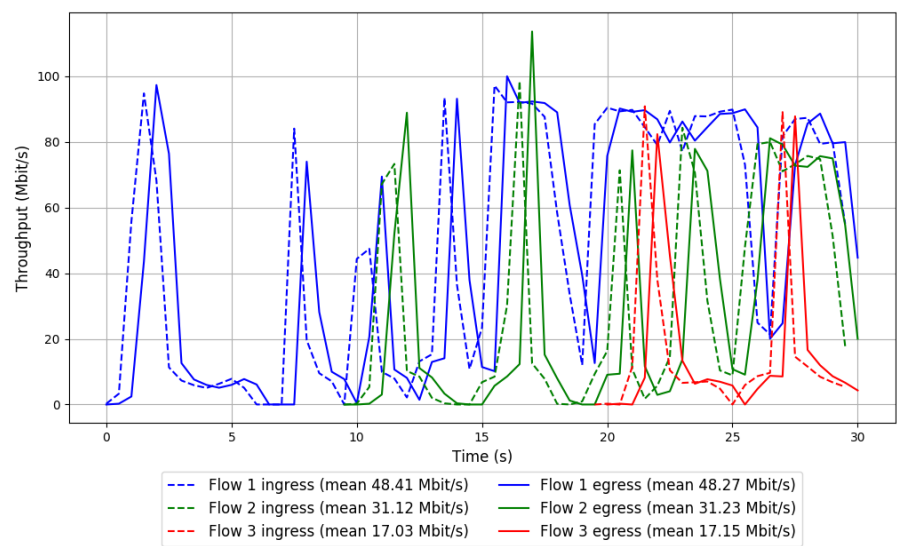
-- Flow 3:

Average throughput: 17.15 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.61%

Run 6: Report of QUIC Cubic — Data Link

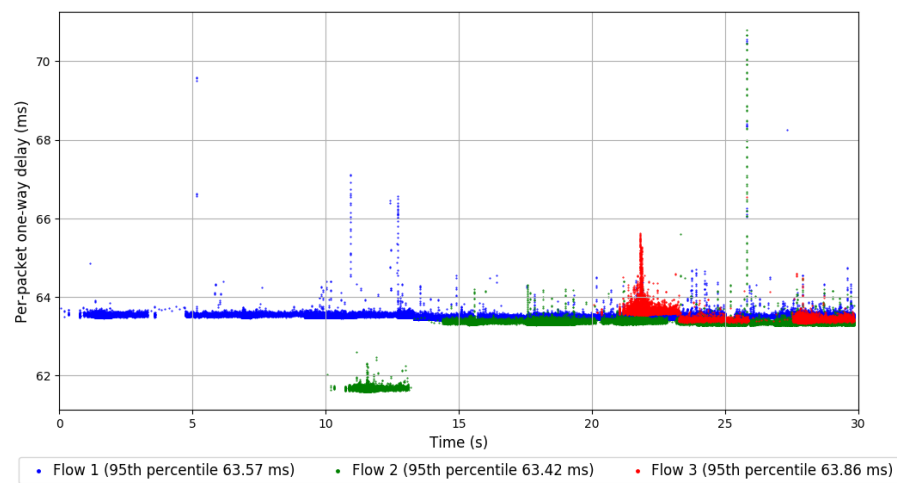
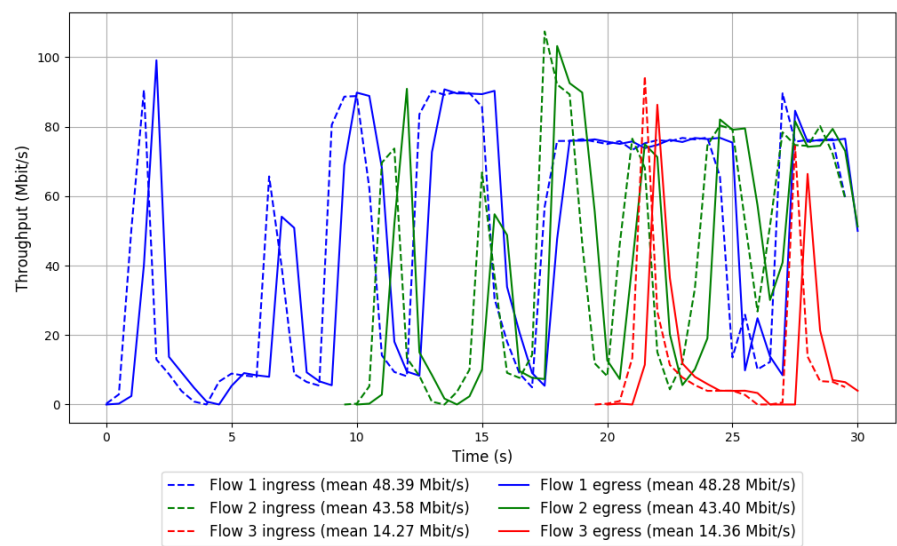


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-01 00:46:37
End at: 2018-06-01 00:47:07
Local clock offset: -0.023 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.83 Mbit/s
95th percentile per-packet one-way delay: 63.583 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 63.572 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.67%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-01 01:10:07

End at: 2018-06-01 01:10:37

Local clock offset: 0.046 ms

Remote clock offset: 0.165 ms

Below is generated by plot.py at 2018-06-01 04:19:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 63.334 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 46.36 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 1.14%

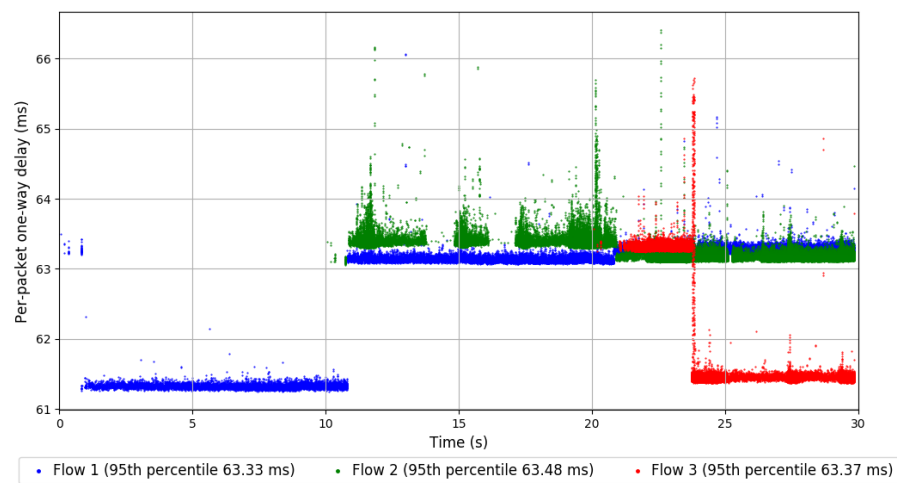
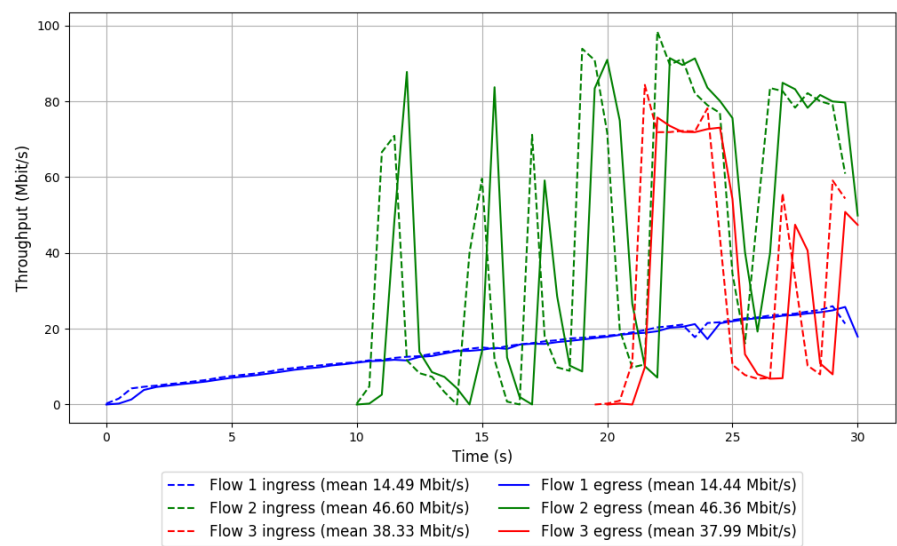
-- Flow 3:

Average throughput: 37.99 Mbit/s

95th percentile per-packet one-way delay: 63.365 ms

Loss rate: 2.15%

Run 8: Report of QUIC Cubic — Data Link

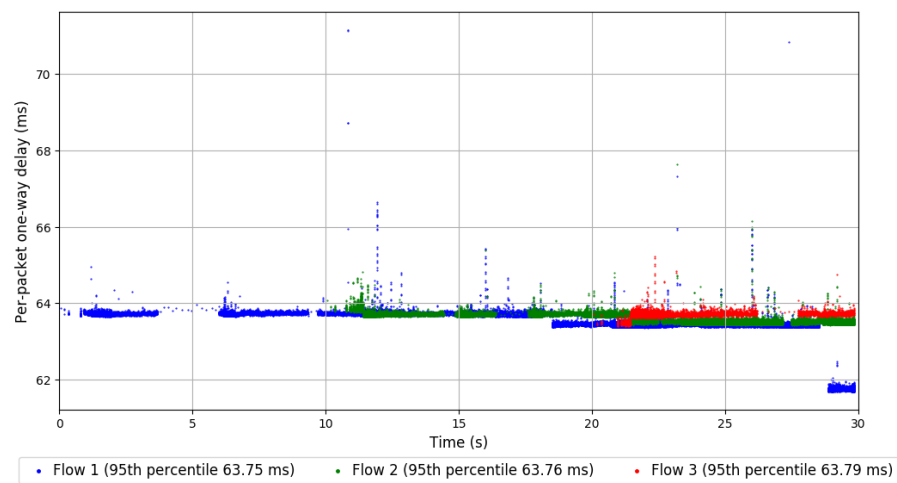
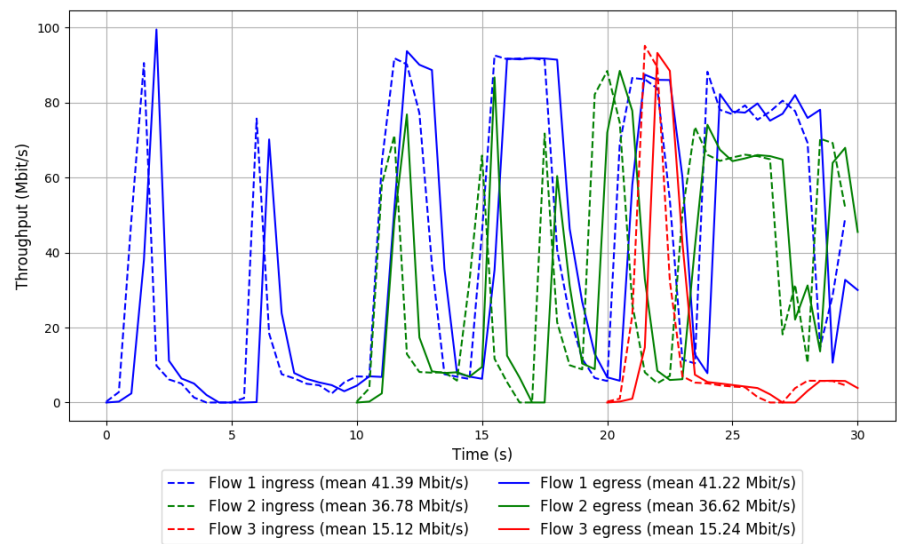


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-01 01:33:29
End at: 2018-06-01 01:33:59
Local clock offset: 0.175 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 0.49%

Run 9: Report of QUIC Cubic — Data Link

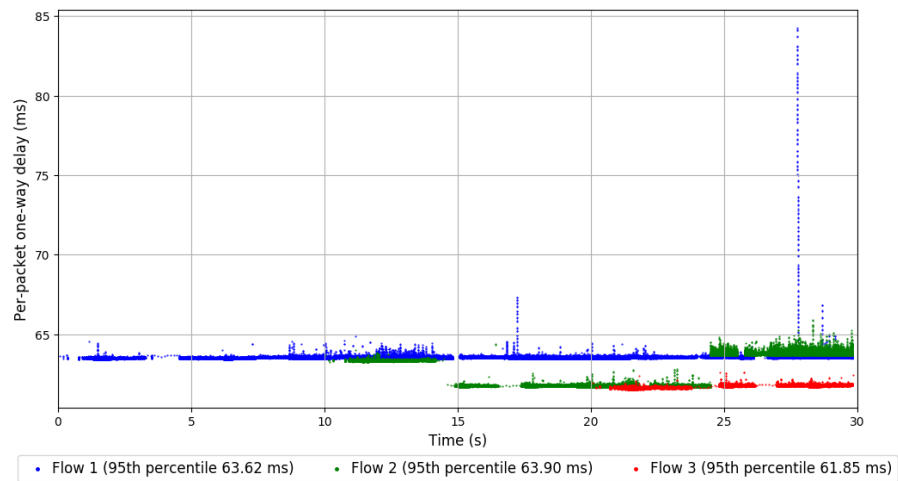
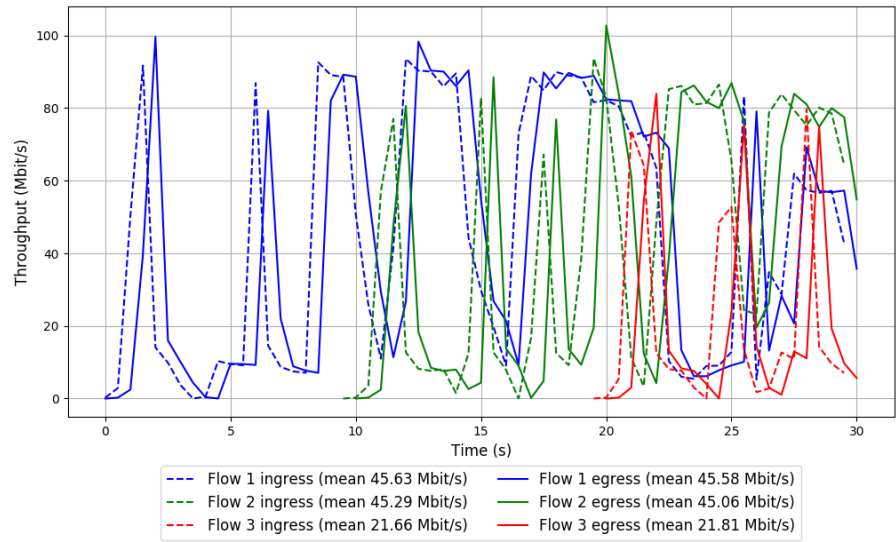


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-01 01:56:43
End at: 2018-06-01 01:57:13
Local clock offset: -0.009 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.67 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 45.58 Mbit/s
95th percentile per-packet one-way delay: 63.617 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 61.847 ms
Loss rate: 0.59%

Run 10: Report of QUIC Cubic — Data Link

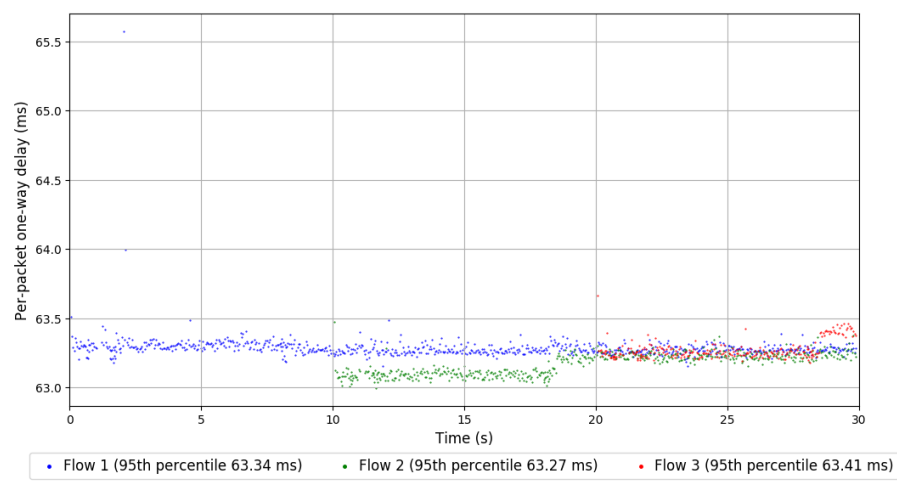
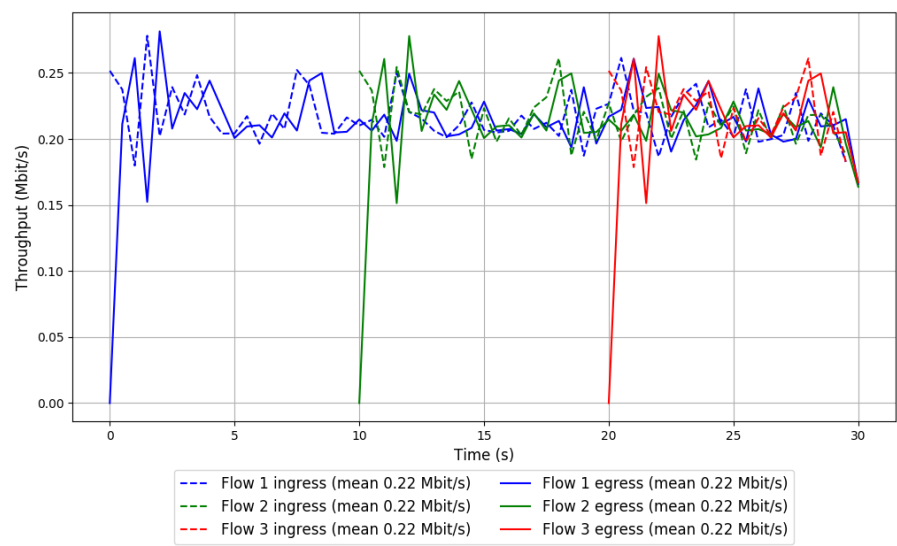


```
Run 1: Statistics of SReAM

Start at: 2018-05-31 22:33:19
End at: 2018-05-31 22:33:49
Local clock offset: 0.009 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-06-01 04:19:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.347 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.345 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.275 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.415 ms
Loss rate: 1.08%
```

Run 1: Report of SReAM — Data Link

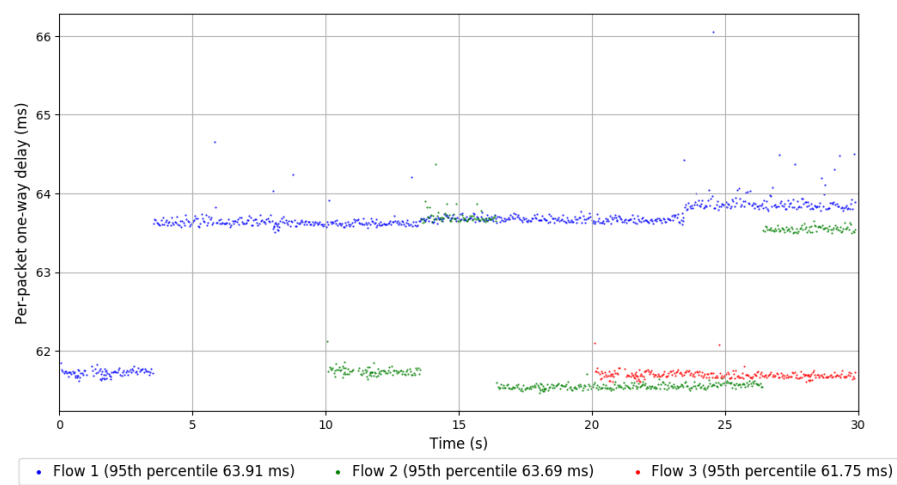
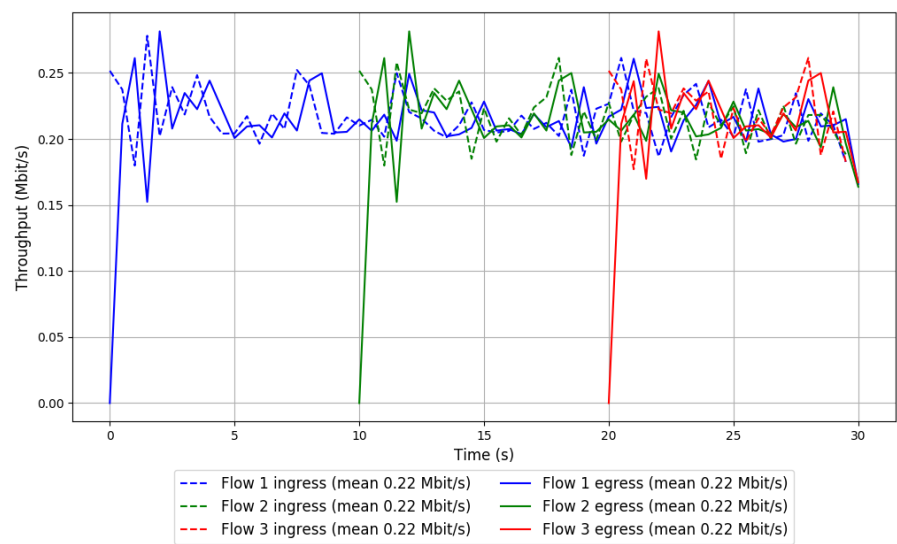


Run 2: Statistics of SReAM

Start at: 2018-05-31 22:57:04
End at: 2018-05-31 22:57:34
Local clock offset: 0.016 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.908 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.690 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.754 ms
Loss rate: 1.08%

Run 2: Report of SReAM — Data Link

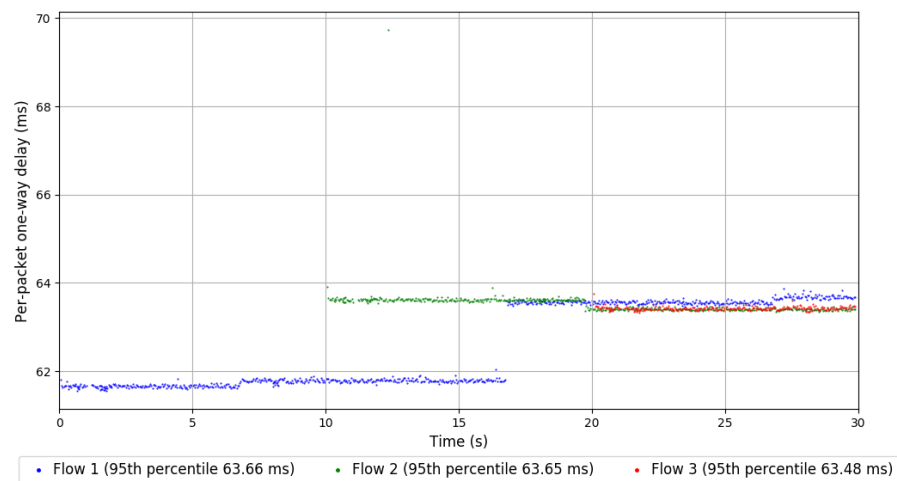
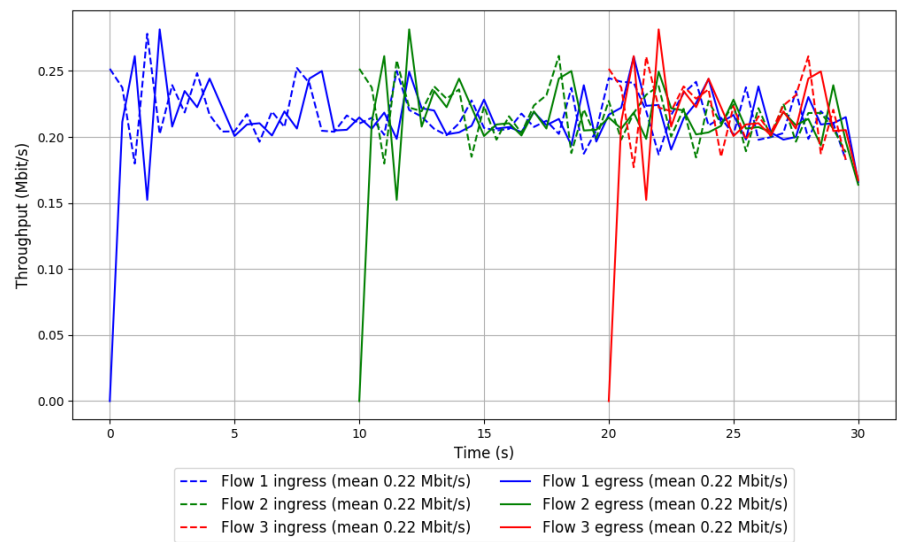


Run 3: Statistics of SReAM

Start at: 2018-05-31 23:20:31
End at: 2018-05-31 23:21:01
Local clock offset: -0.022 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-01 04:19:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.654 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.647 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 1.08%

Run 3: Report of SReAM — Data Link

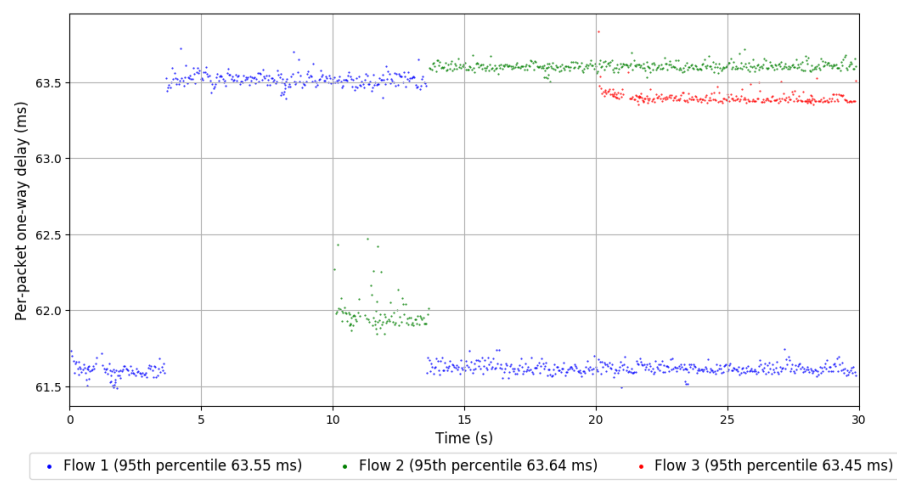
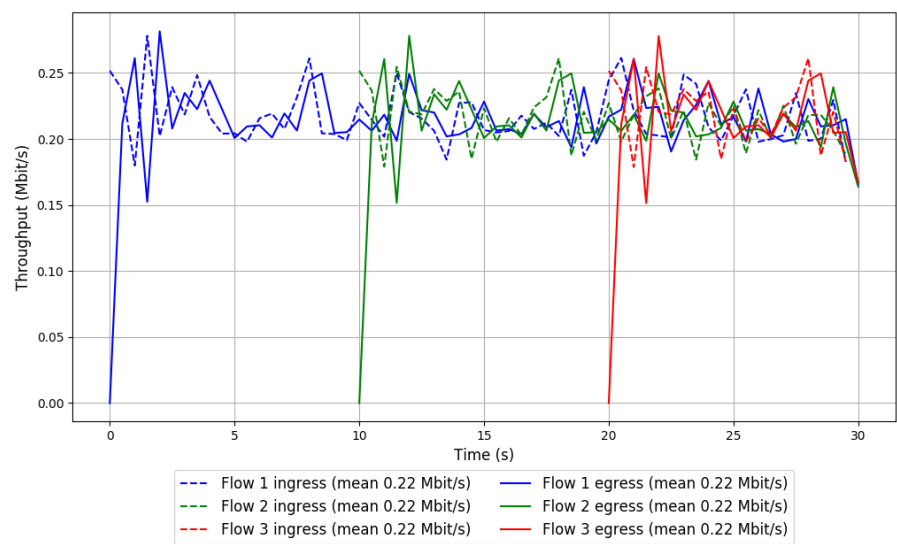


Run 4: Statistics of SReAM

Start at: 2018-05-31 23:43:57
End at: 2018-05-31 23:44:27
Local clock offset: 0.01 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.552 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.455 ms
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link

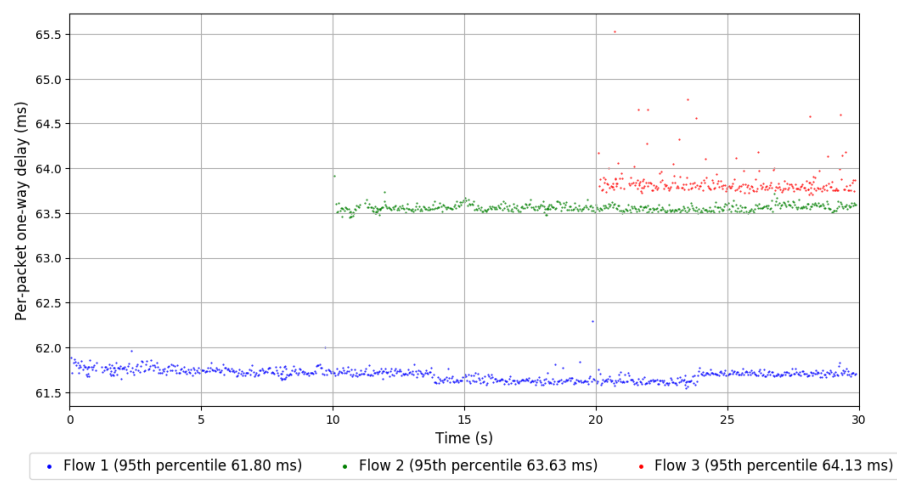
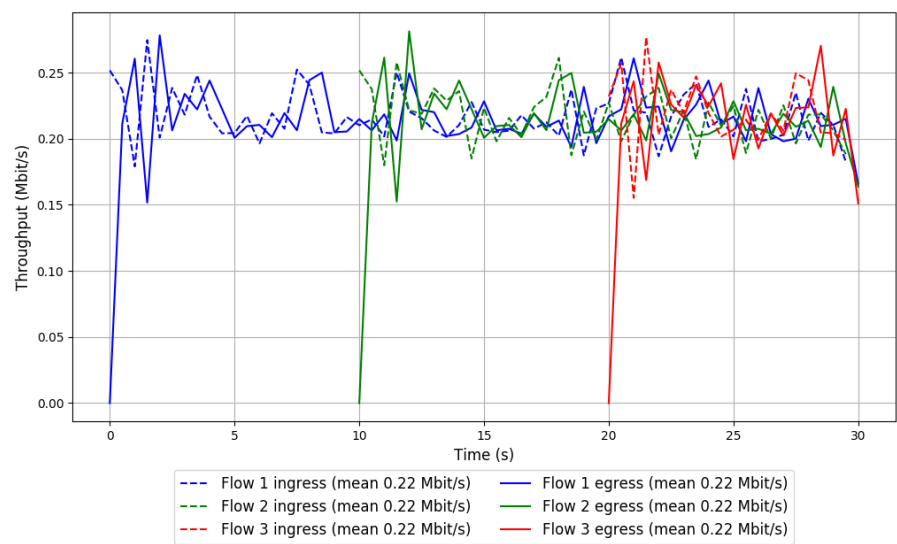


Run 5: Statistics of SReAM

Start at: 2018-06-01 00:07:06
End at: 2018-06-01 00:07:37
Local clock offset: 0.002 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.800 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.627 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.130 ms
Loss rate: 1.45%

Run 5: Report of SReAM — Data Link

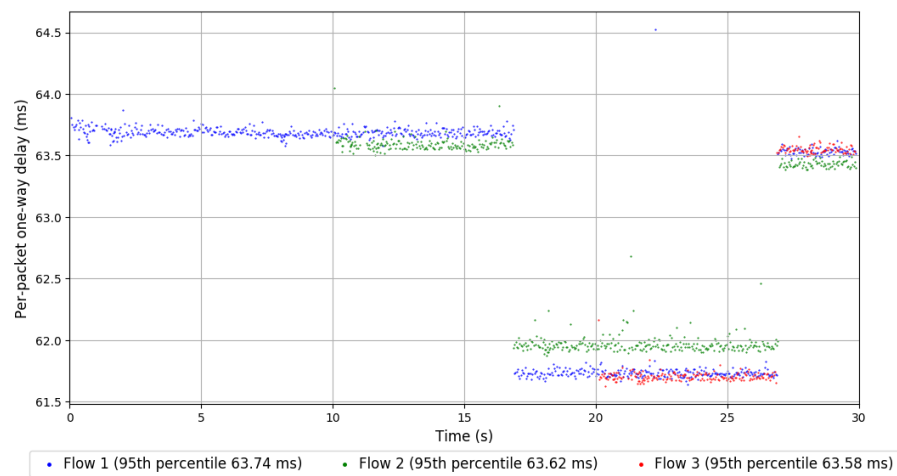
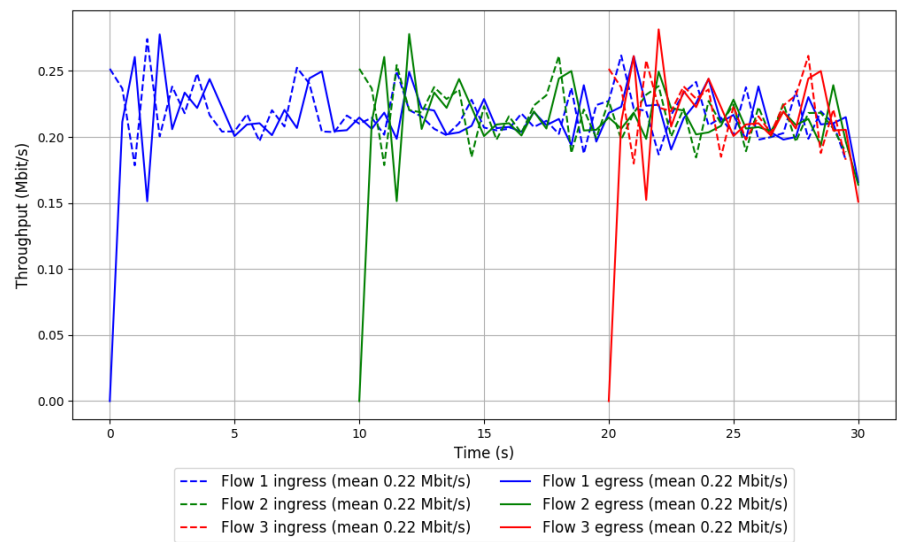


Run 6: Statistics of SReAM

Start at: 2018-06-01 00:30:21
End at: 2018-06-01 00:30:51
Local clock offset: -0.023 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.719 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.622 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.581 ms
Loss rate: 1.45%

Run 6: Report of SReAM — Data Link

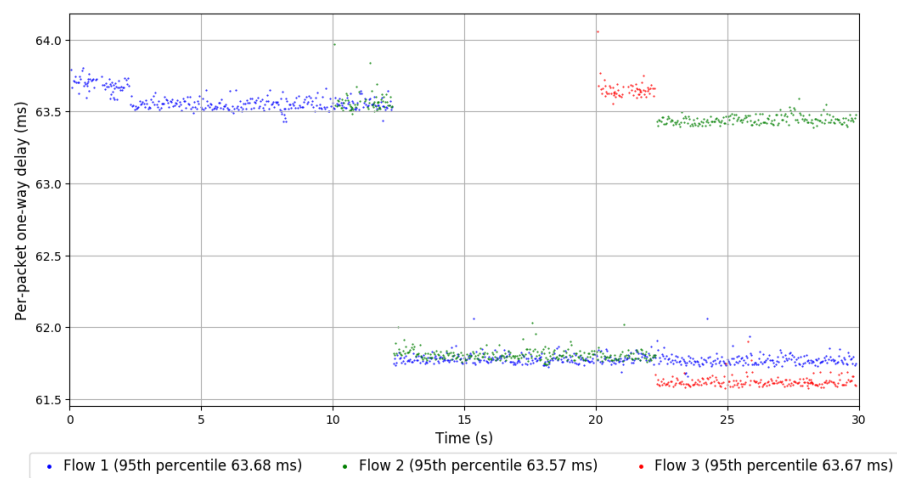
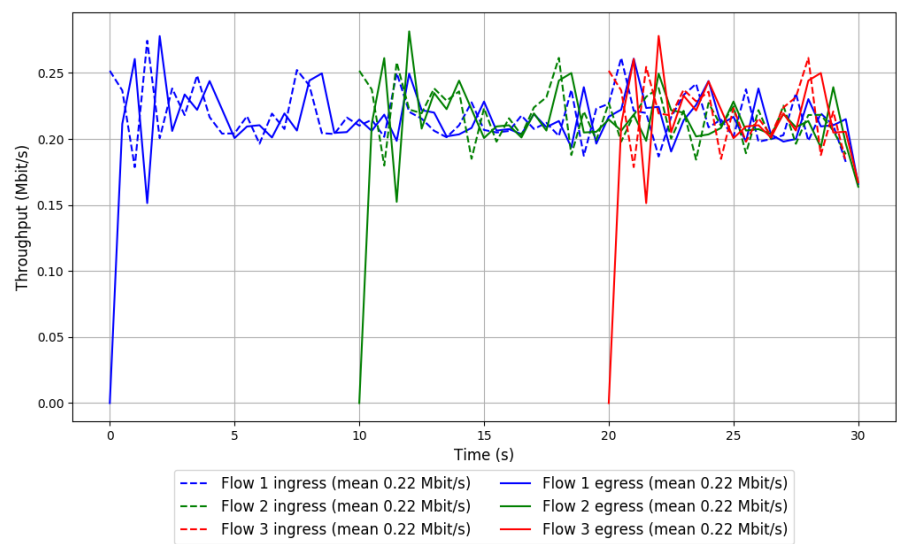


Run 7: Statistics of SReAM

Start at: 2018-06-01 00:53:45
End at: 2018-06-01 00:54:15
Local clock offset: -0.019 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.662 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.682 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.567 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 1.08%

Run 7: Report of SCReAM — Data Link

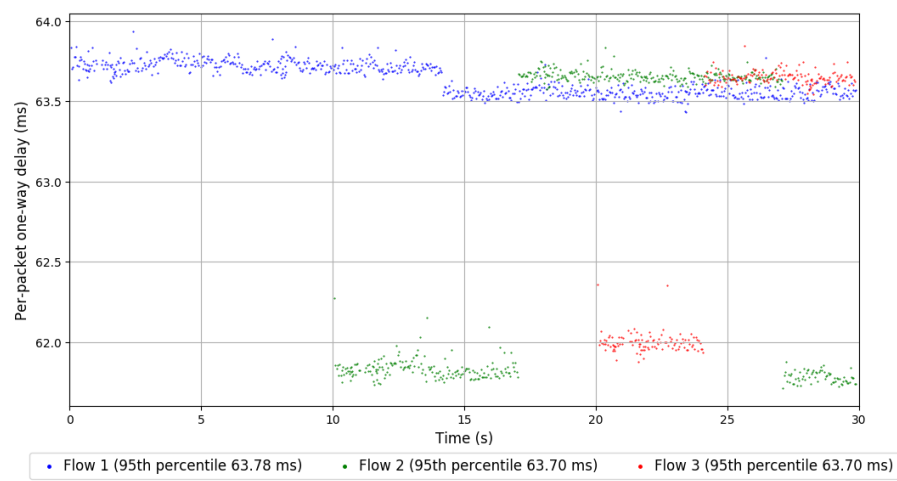
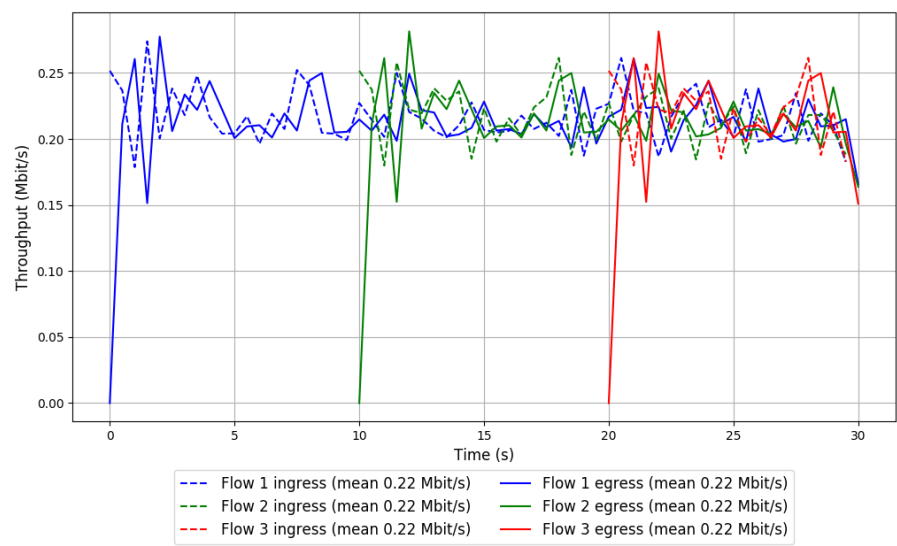


Run 8: Statistics of SReAM

Start at: 2018-06-01 01:17:03
End at: 2018-06-01 01:17:33
Local clock offset: 0.103 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 1.45%

Run 8: Report of SReAM — Data Link

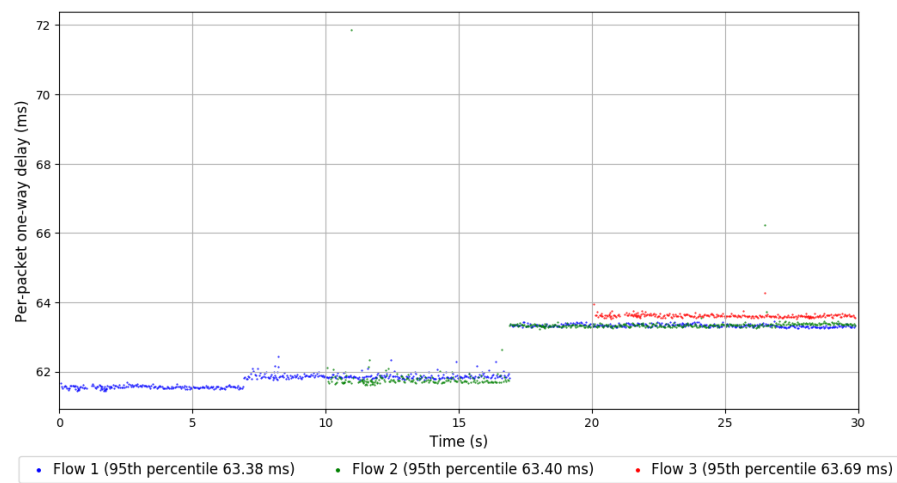
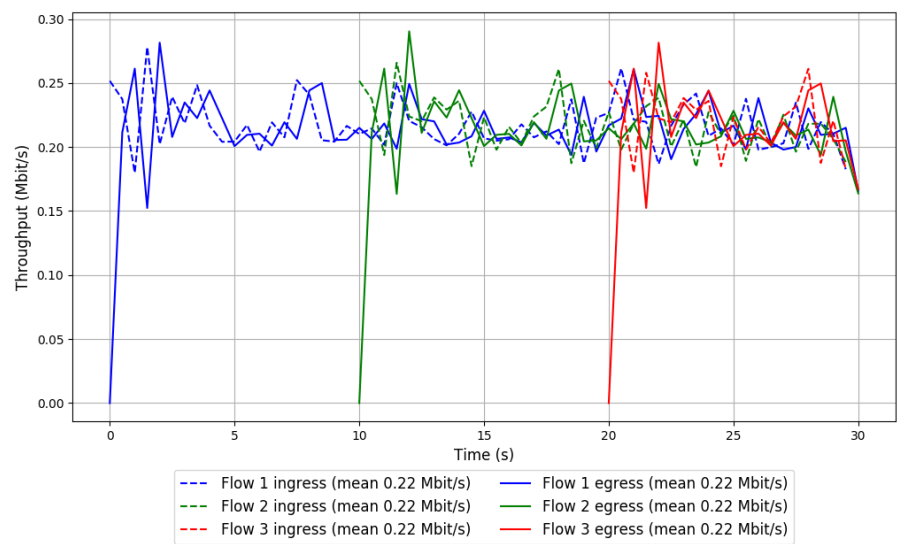


```
Run 9: Statistics of SReAM

Start at: 2018-06-01 01:40:21
End at: 2018-06-01 01:40:51
Local clock offset: 0.185 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-06-01 04:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.383 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.400 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.688 ms
Loss rate: 1.08%
```

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-01 02:03:46

End at: 2018-06-01 02:04:16

Local clock offset: -0.018 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-01 04:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 63.704 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.61%

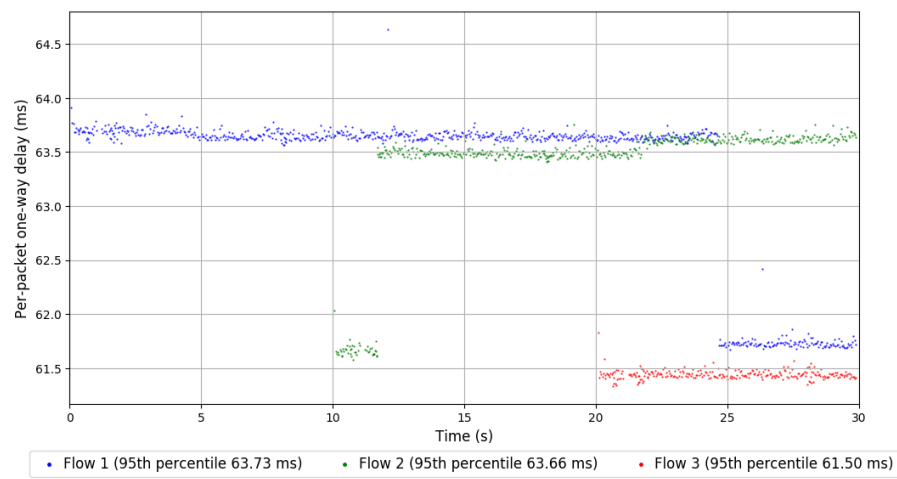
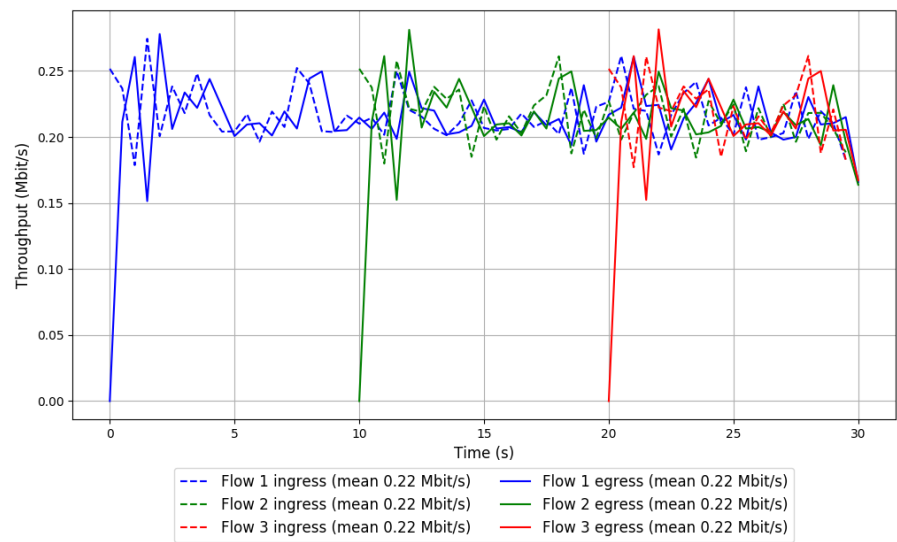
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.503 ms

Loss rate: 1.08%

Run 10: Report of SReAM — Data Link

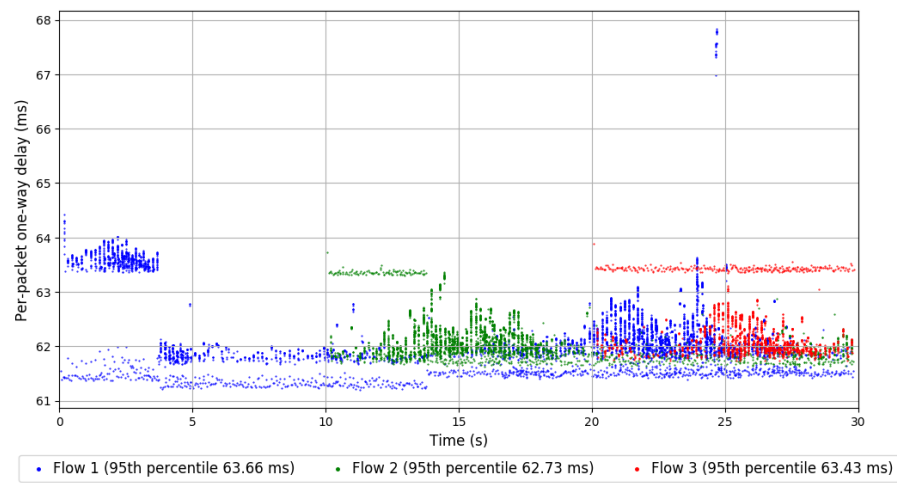
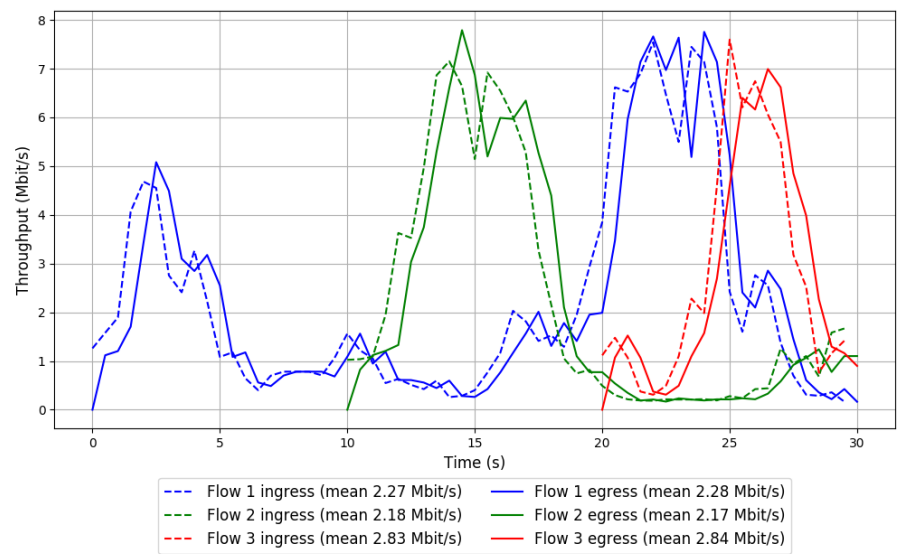


```
Run 1: Statistics of Sprout

Start at: 2018-05-31 22:30:34
End at: 2018-05-31 22:31:04
Local clock offset: -0.024 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-06-01 04:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 63.523 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 63.659 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 62.733 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 63.430 ms
Loss rate: 0.93%
```


Run 1: Report of Sprout — Data Link

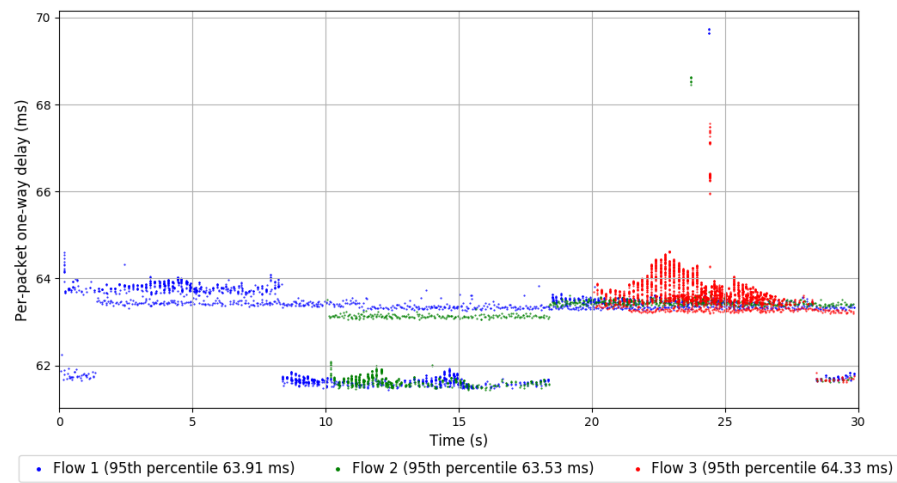
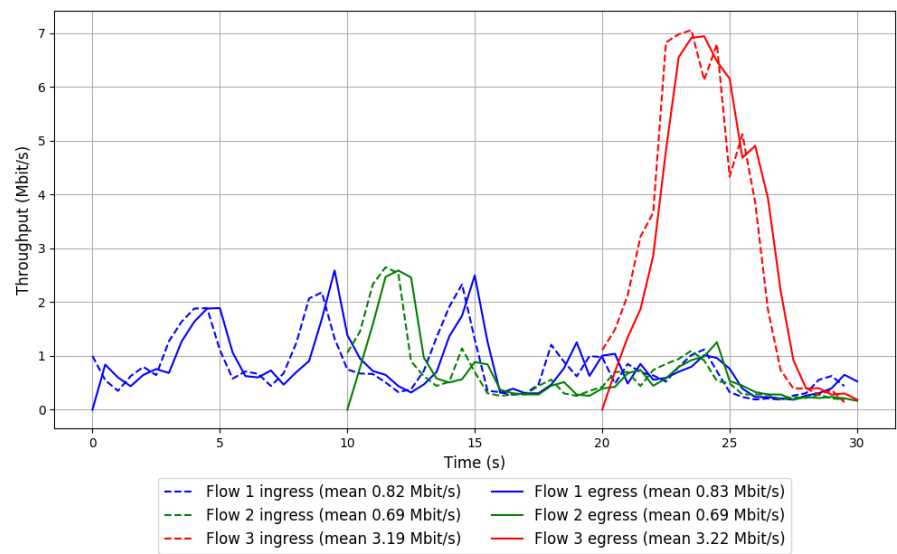


Run 2: Statistics of Sprout

Start at: 2018-05-31 22:54:19
End at: 2018-05-31 22:54:49
Local clock offset: -0.035 ms
Remote clock offset: 0.042 ms

```
# Below is generated by plot.py at 2018-06-01 04:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 64.158 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 63.533 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 64.332 ms
Loss rate: 0.03%
```

Run 2: Report of Sprout — Data Link

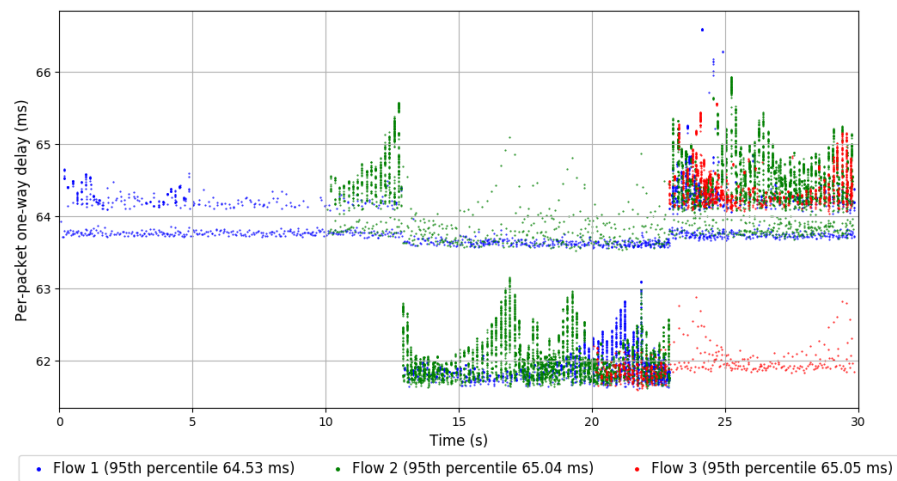
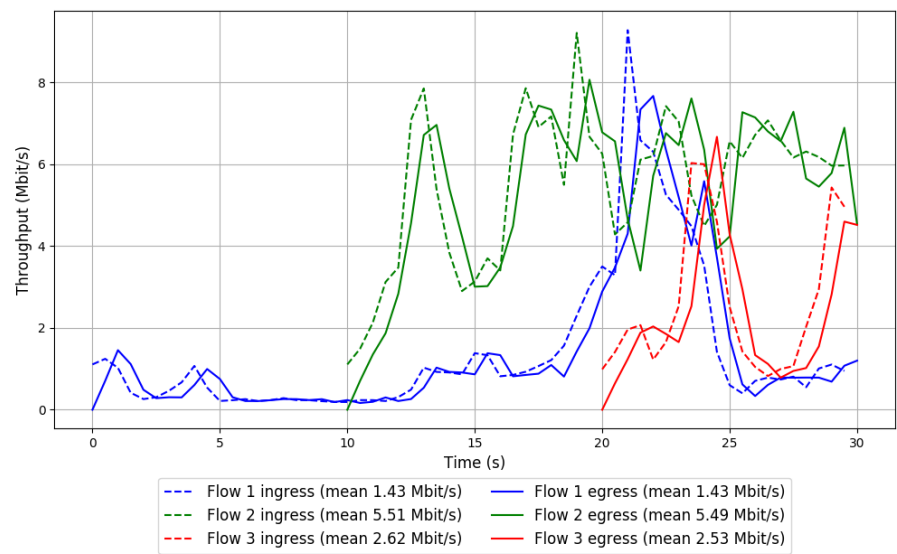


Run 3: Statistics of Sprout

Start at: 2018-05-31 23:17:44
End at: 2018-05-31 23:18:14
Local clock offset: -0.006 ms
Remote clock offset: -0.252 ms

```
# Below is generated by plot.py at 2018-06-01 04:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 64.962 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 64.533 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 65.039 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 65.046 ms
Loss rate: 4.38%
```

Run 3: Report of Sprout — Data Link

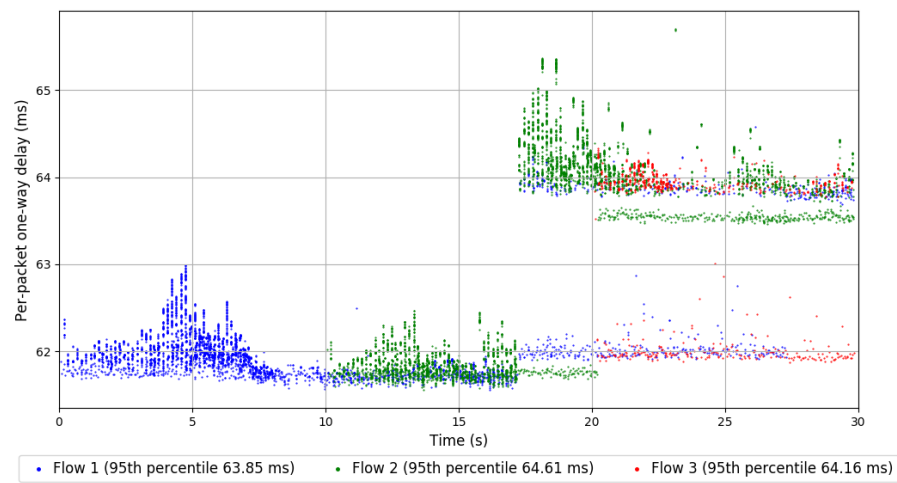
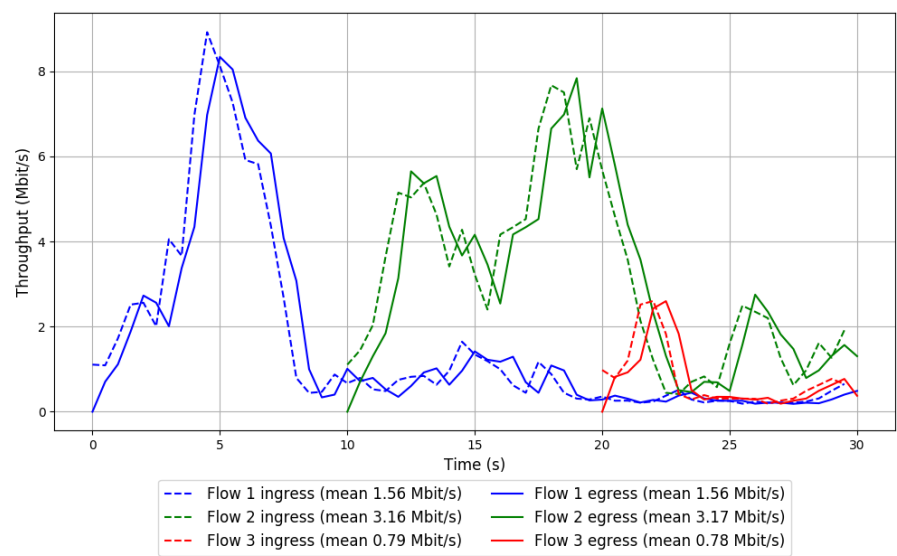


Run 4: Statistics of Sprout

Start at: 2018-05-31 23:41:10
End at: 2018-05-31 23:41:40
Local clock offset: -0.018 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 64.451 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 64.614 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 64.160 ms
Loss rate: 1.78%

Run 4: Report of Sprout — Data Link

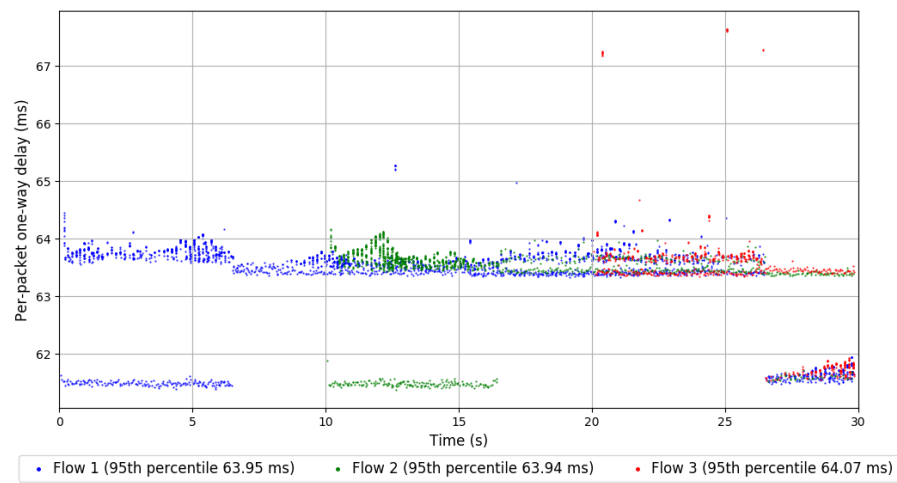
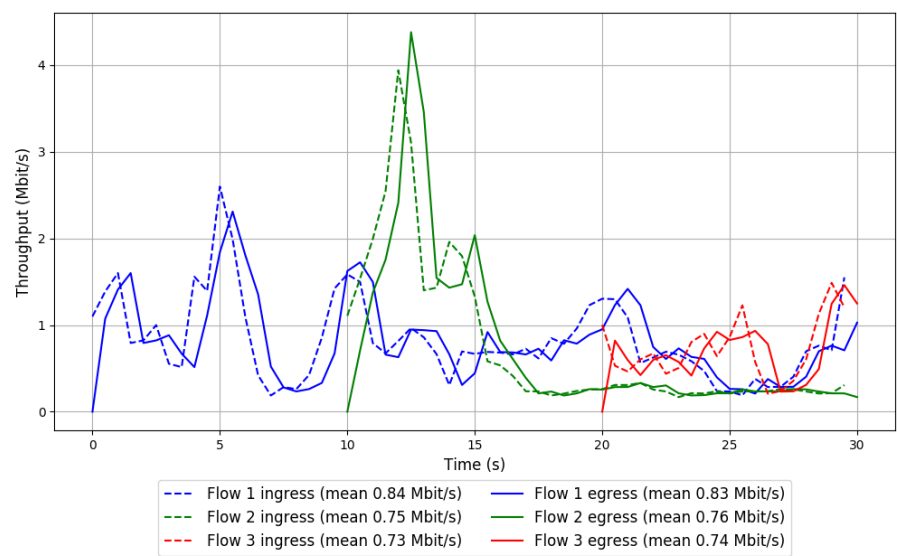


Run 5: Statistics of Sprout

Start at: 2018-06-01 00:04:21
End at: 2018-06-01 00:04:51
Local clock offset: -0.03 ms
Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 63.950 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 63.940 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 64.068 ms
Loss rate: 0.68%

Run 5: Report of Sprout — Data Link

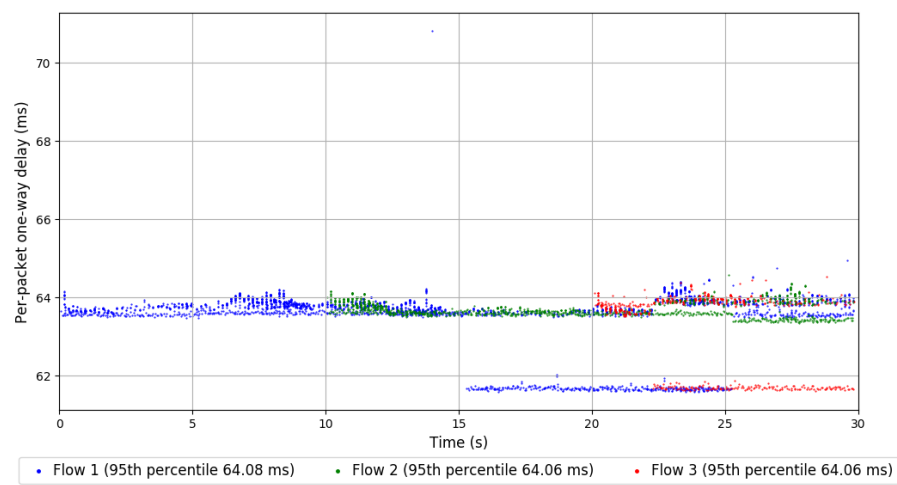
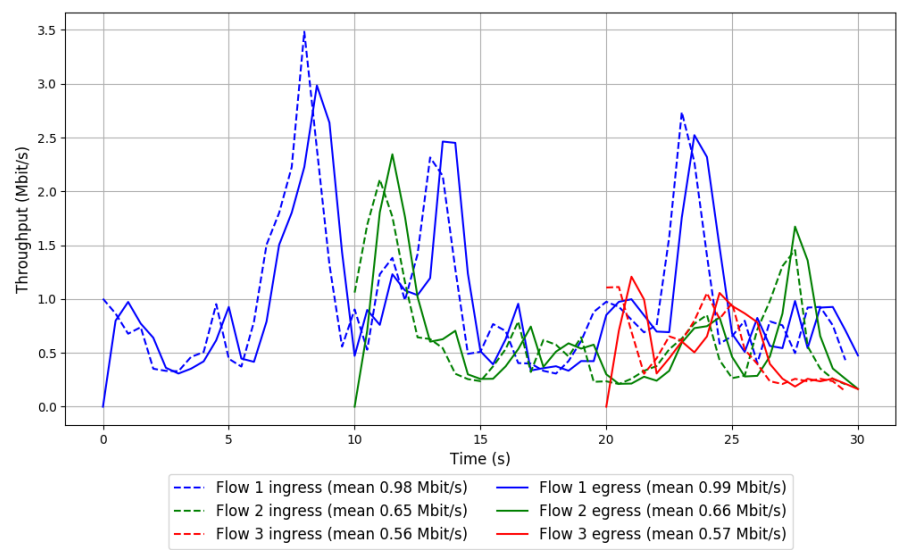


Run 6: Statistics of Sprout

Start at: 2018-06-01 00:27:35
End at: 2018-06-01 00:28:05
Local clock offset: -0.038 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 64.074 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 64.080 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 64.056 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 64.065 ms
Loss rate: 0.24%

Run 6: Report of Sprout — Data Link

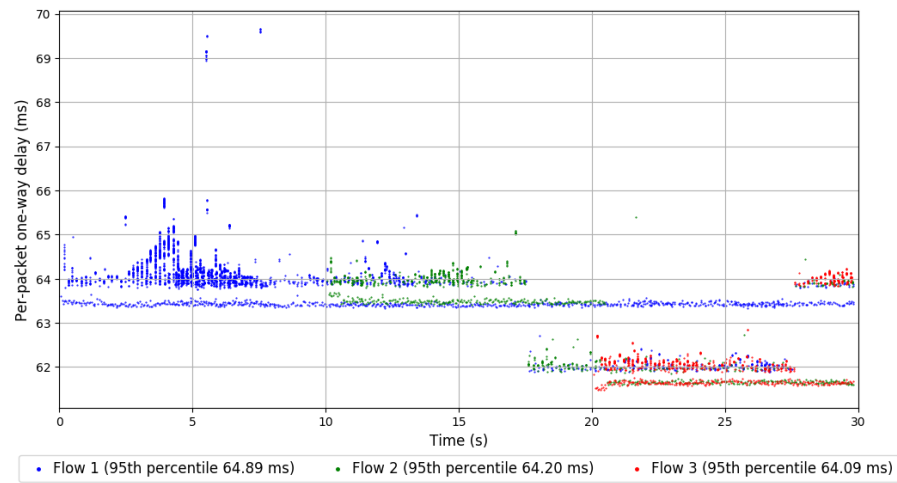
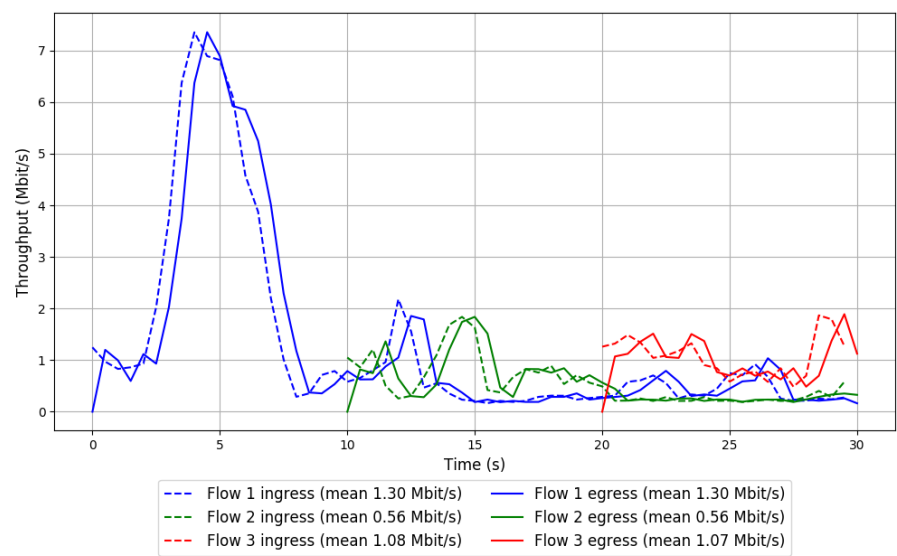


Run 7: Statistics of Sprout

Start at: 2018-06-01 00:51:00
End at: 2018-06-01 00:51:30
Local clock offset: -0.018 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 64.772 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 64.889 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 64.197 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 2.52%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-01 01:14:17

End at: 2018-06-01 01:14:47

Local clock offset: 0.1 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-01 04:19:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 0.63%

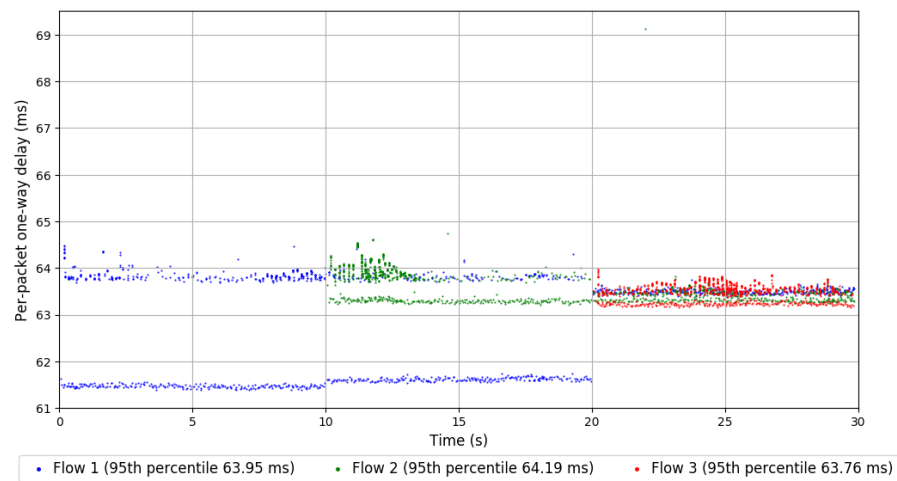
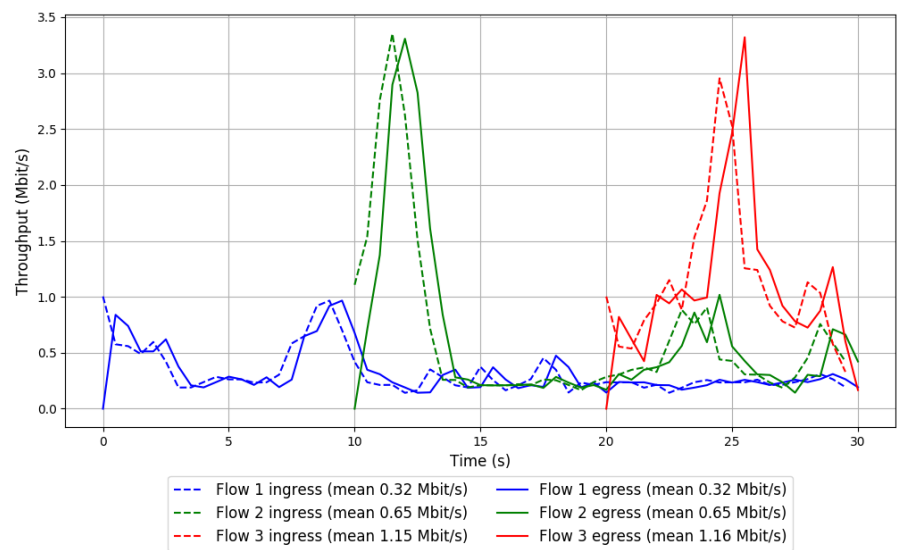
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 63.756 ms

Loss rate: 0.72%

Run 8: Report of Sprout — Data Link

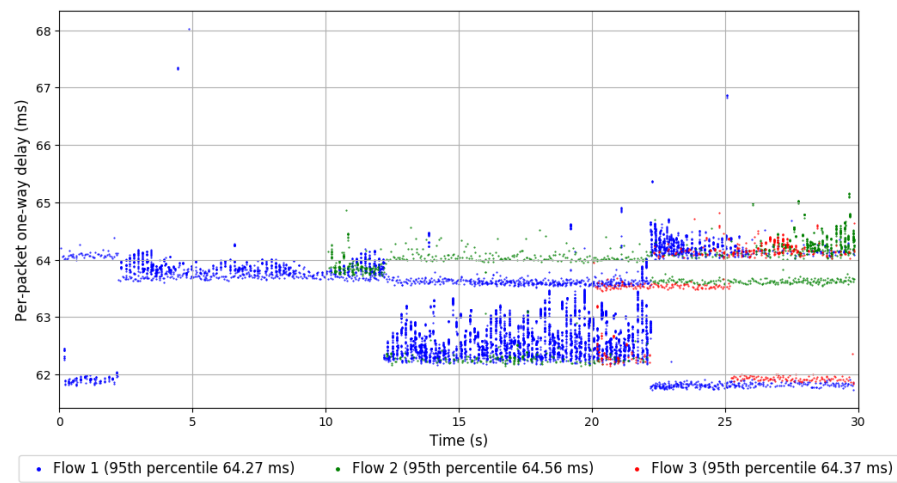
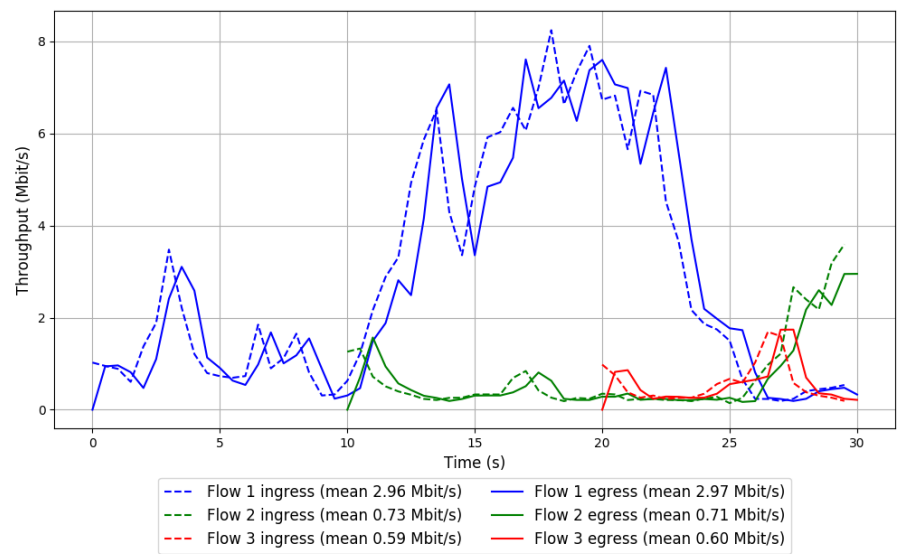


Run 9: Statistics of Sprout

Start at: 2018-06-01 01:37:35
End at: 2018-06-01 01:38:05
Local clock offset: 0.22 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 64.363 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 64.274 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 64.561 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 64.372 ms
Loss rate: 0.03%

Run 9: Report of Sprout — Data Link

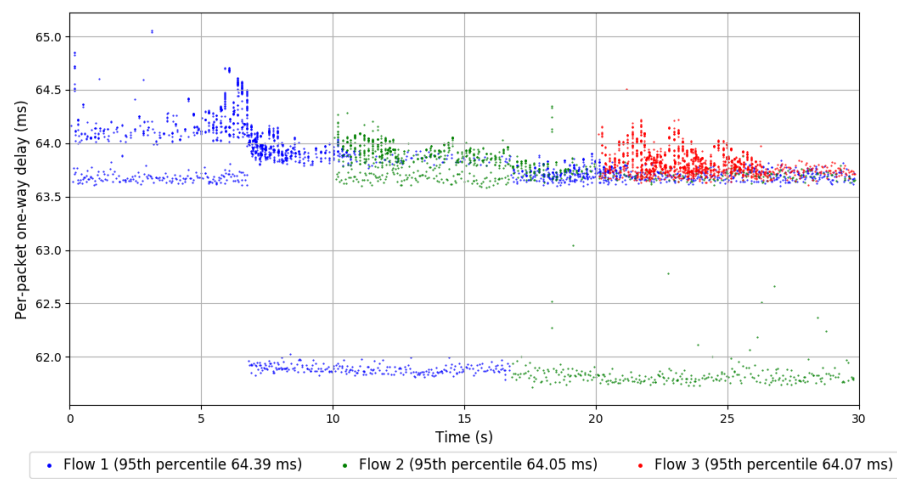
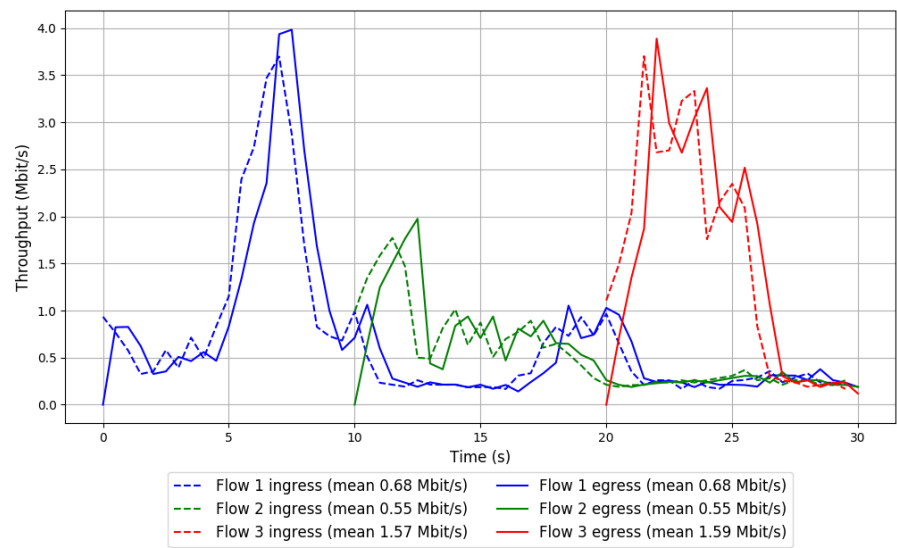


Run 10: Statistics of Sprout

Start at: 2018-06-01 02:01:01
End at: 2018-06-01 02:01:31
Local clock offset: -0.013 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-06-01 04:19:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 64.212 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 64.385 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 64.046 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 64.071 ms
Loss rate: 0.16%

Run 10: Report of Sprout — Data Link

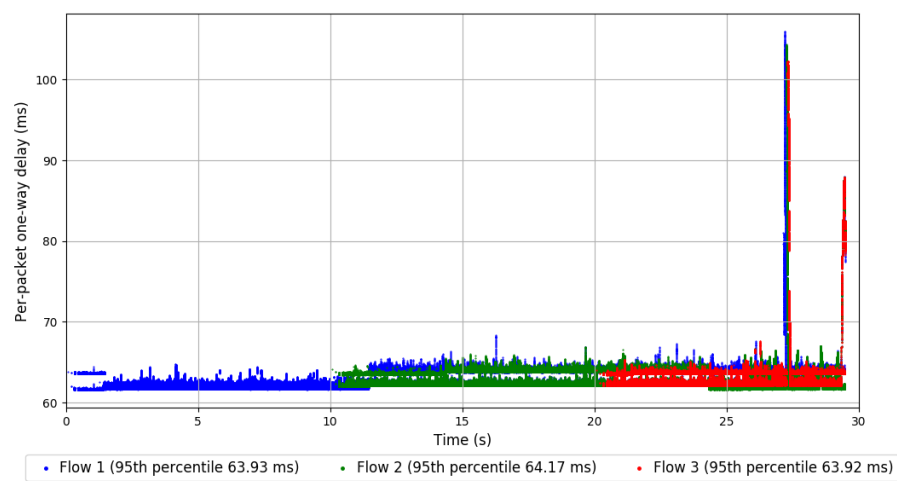
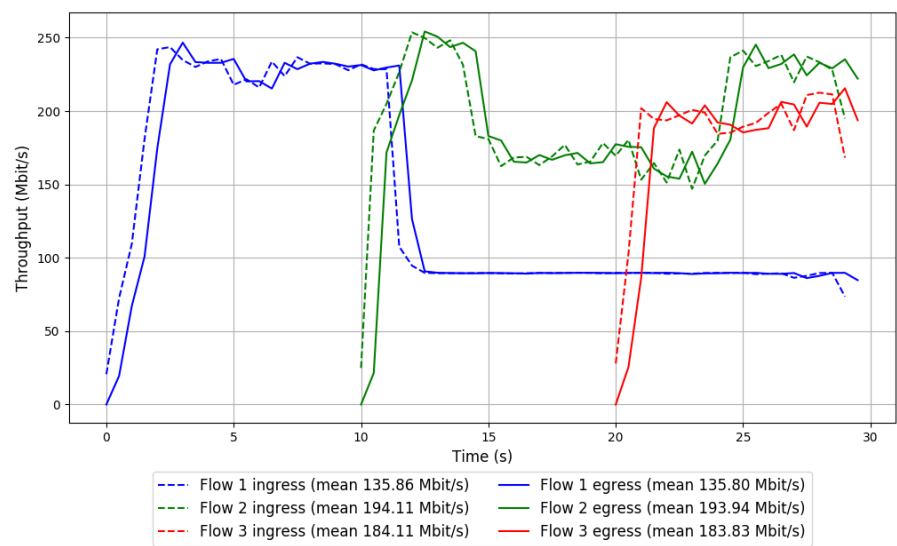


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-31 22:28:56
End at: 2018-05-31 22:29:26
Local clock offset: 0.005 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-06-01 04:23:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.60 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.80 Mbit/s
95th percentile per-packet one-way delay: 63.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.94 Mbit/s
95th percentile per-packet one-way delay: 64.170 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.83 Mbit/s
95th percentile per-packet one-way delay: 63.917 ms
Loss rate: 0.00%
```

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

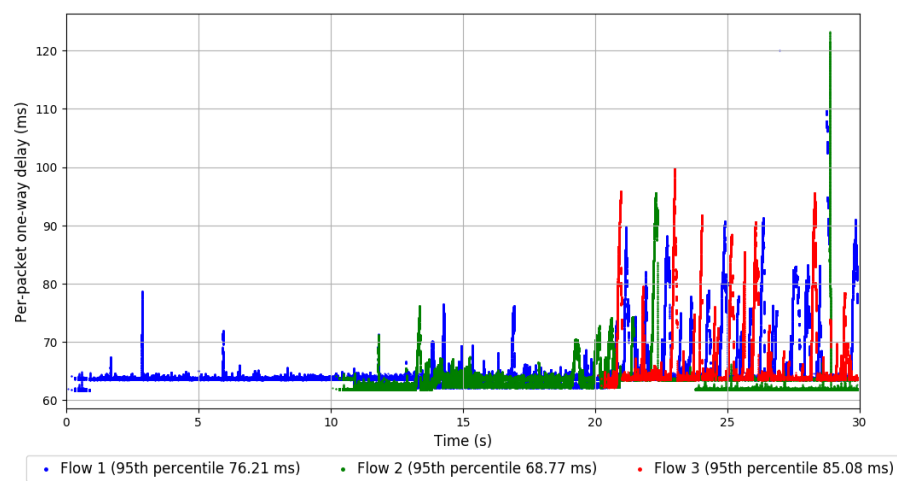
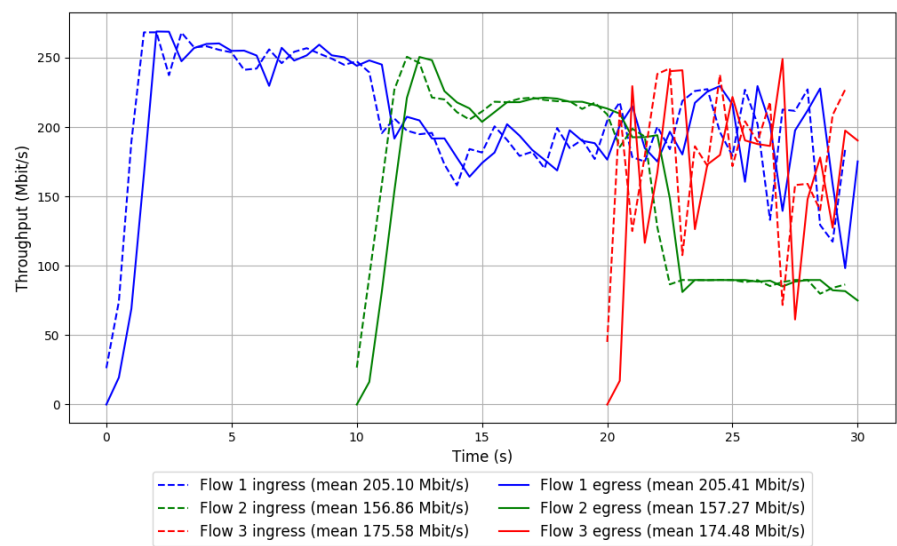


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-31 22:52:37
End at: 2018-05-31 22:53:07
Local clock offset: -0.05 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-06-01 04:25:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 367.35 Mbit/s
95th percentile per-packet one-way delay: 76.146 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 205.41 Mbit/s
95th percentile per-packet one-way delay: 76.211 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 157.27 Mbit/s
95th percentile per-packet one-way delay: 68.771 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 174.48 Mbit/s
95th percentile per-packet one-way delay: 85.076 ms
Loss rate: 1.91%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-31 23:16:07

End at: 2018-05-31 23:16:37

Local clock offset: -0.039 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-01 04:25:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.85 Mbit/s

95th percentile per-packet one-way delay: 71.275 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 128.78 Mbit/s

95th percentile per-packet one-way delay: 63.904 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 196.27 Mbit/s

95th percentile per-packet one-way delay: 69.445 ms

Loss rate: 0.54%

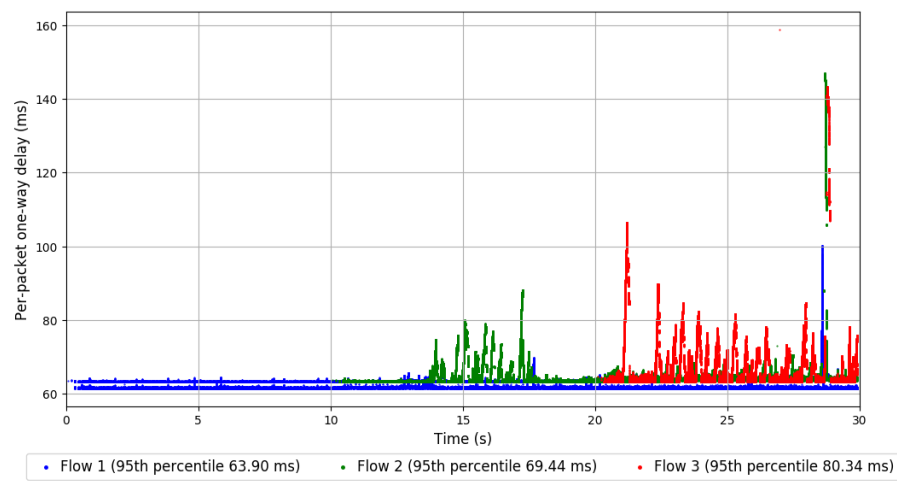
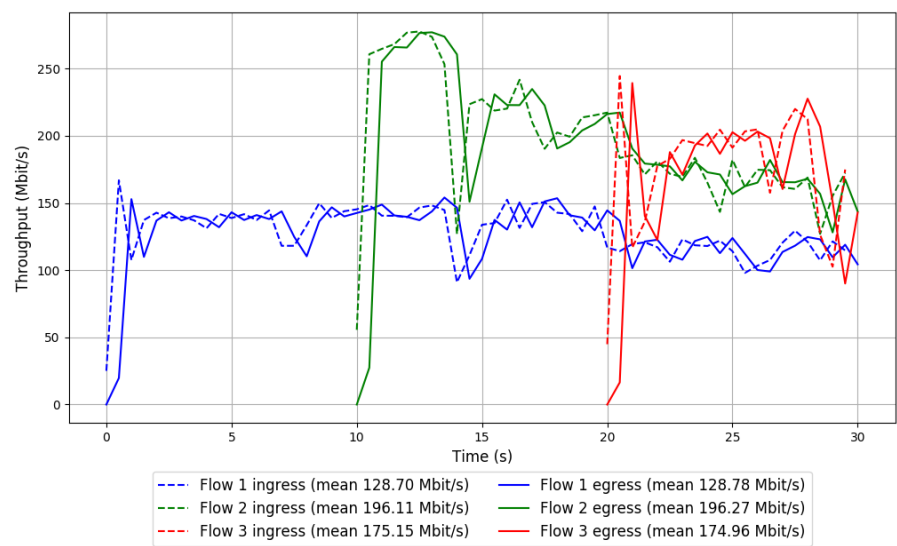
-- Flow 3:

Average throughput: 174.96 Mbit/s

95th percentile per-packet one-way delay: 80.344 ms

Loss rate: 1.41%

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

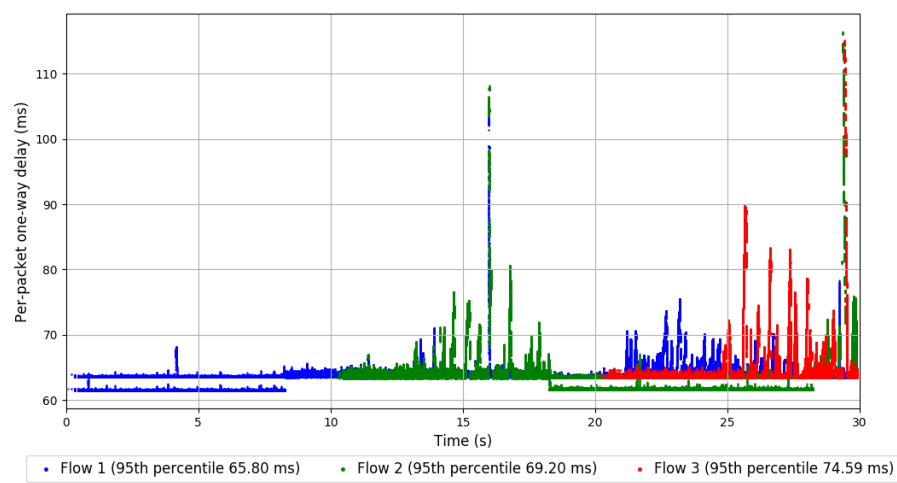
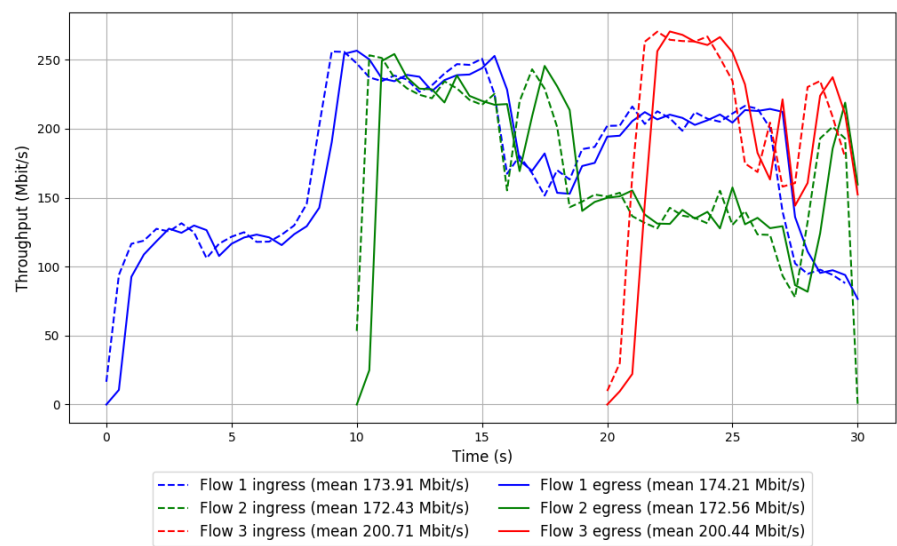


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-31 23:39:29
End at: 2018-05-31 23:39:59
Local clock offset: -0.01 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-06-01 04:25:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 354.98 Mbit/s
95th percentile per-packet one-way delay: 68.187 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 174.21 Mbit/s
95th percentile per-packet one-way delay: 65.803 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 172.56 Mbit/s
95th percentile per-packet one-way delay: 69.201 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 200.44 Mbit/s
95th percentile per-packet one-way delay: 74.593 ms
Loss rate: 1.41%

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

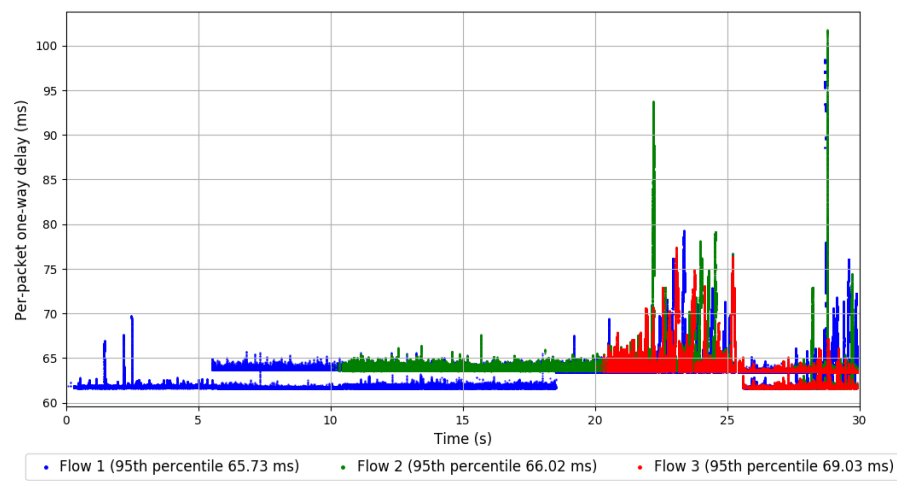
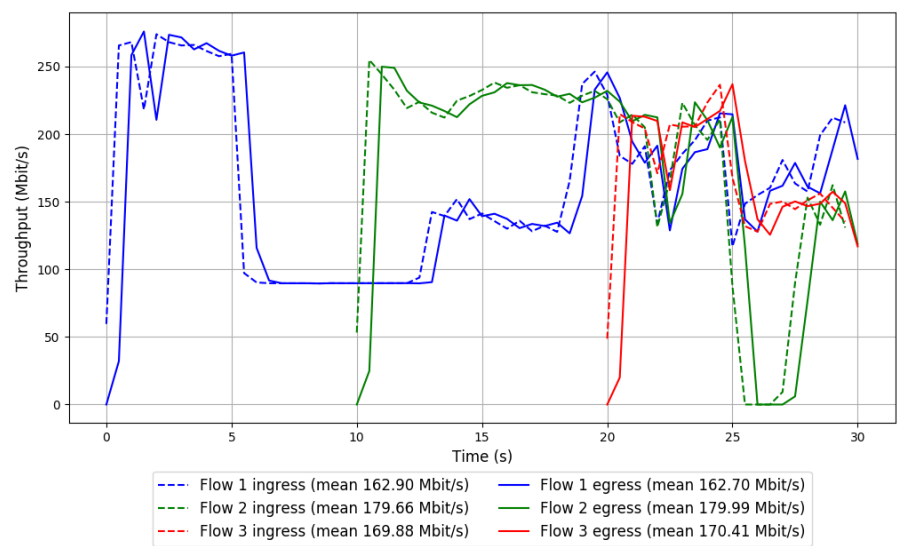


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-01 00:02:42
End at: 2018-06-01 00:03:12
Local clock offset: 0.007 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-01 04:25:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 338.47 Mbit/s
95th percentile per-packet one-way delay: 66.600 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 162.70 Mbit/s
95th percentile per-packet one-way delay: 65.731 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 179.99 Mbit/s
95th percentile per-packet one-way delay: 66.019 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 170.41 Mbit/s
95th percentile per-packet one-way delay: 69.034 ms
Loss rate: 0.97%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-01 00:25:55

End at: 2018-06-01 00:26:25

Local clock offset: 0.001 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-01 04:26:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.99 Mbit/s

95th percentile per-packet one-way delay: 73.188 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 180.47 Mbit/s

95th percentile per-packet one-way delay: 73.563 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 190.68 Mbit/s

95th percentile per-packet one-way delay: 74.557 ms

Loss rate: 0.19%

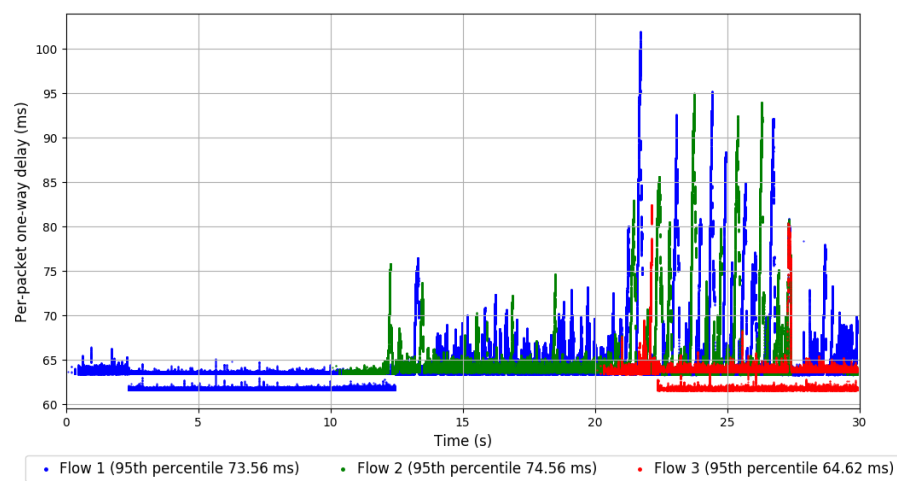
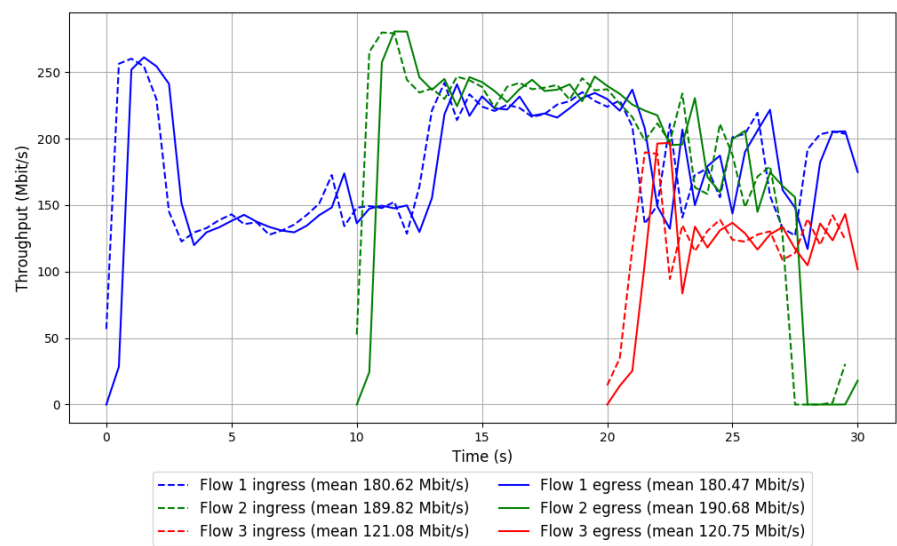
-- Flow 3:

Average throughput: 120.75 Mbit/s

95th percentile per-packet one-way delay: 64.616 ms

Loss rate: 1.55%

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

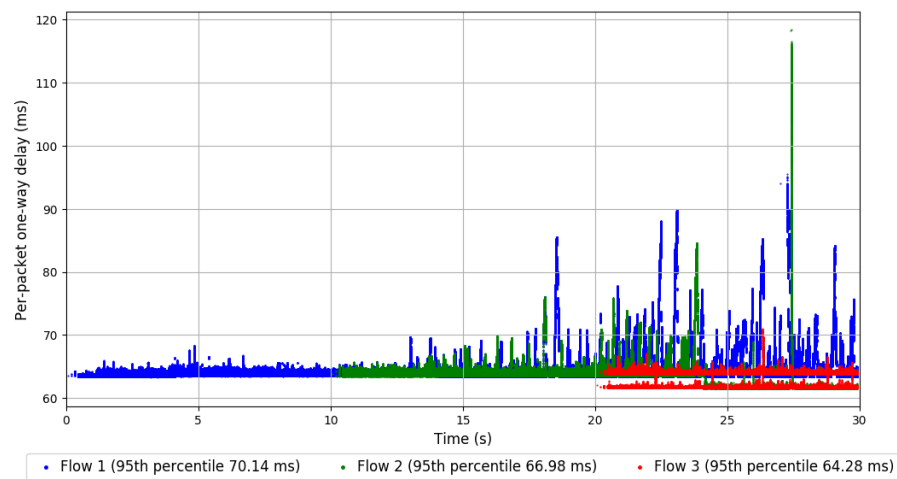
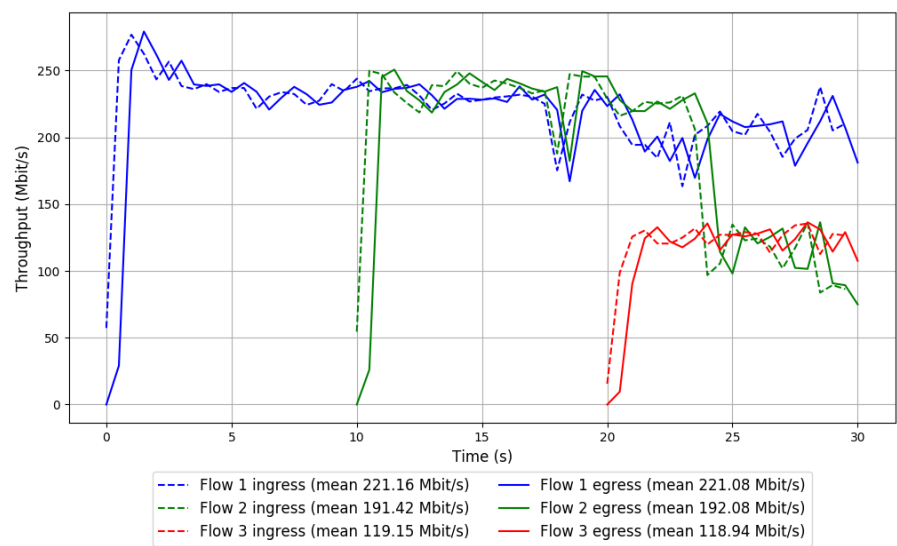


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-01 00:49:16
End at: 2018-06-01 00:49:46
Local clock offset: -0.04 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-06-01 04:33:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 387.98 Mbit/s
95th percentile per-packet one-way delay: 68.588 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 221.08 Mbit/s
95th percentile per-packet one-way delay: 70.137 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 192.08 Mbit/s
95th percentile per-packet one-way delay: 66.984 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 118.94 Mbit/s
95th percentile per-packet one-way delay: 64.280 ms
Loss rate: 1.43%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-01 01:12:38

End at: 2018-06-01 01:13:08

Local clock offset: 0.079 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-06-01 04:33:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.57 Mbit/s

95th percentile per-packet one-way delay: 65.251 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 169.50 Mbit/s

95th percentile per-packet one-way delay: 65.090 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 163.07 Mbit/s

95th percentile per-packet one-way delay: 64.492 ms

Loss rate: 0.80%

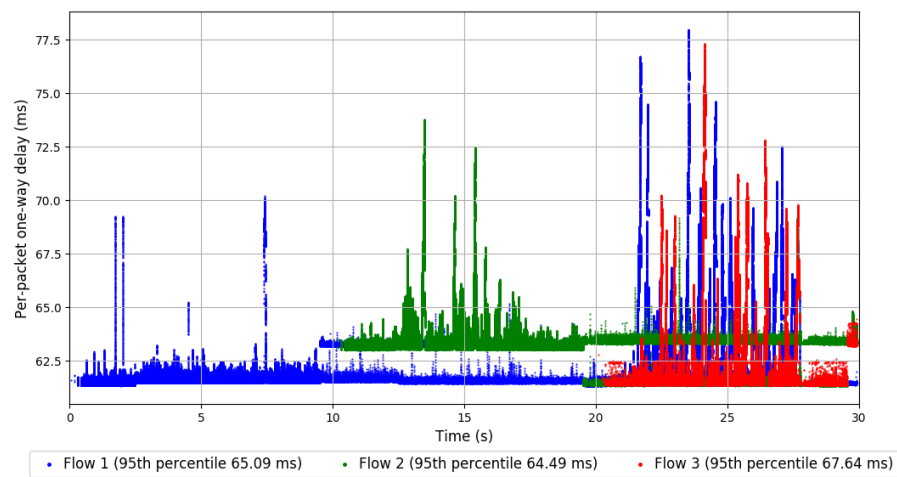
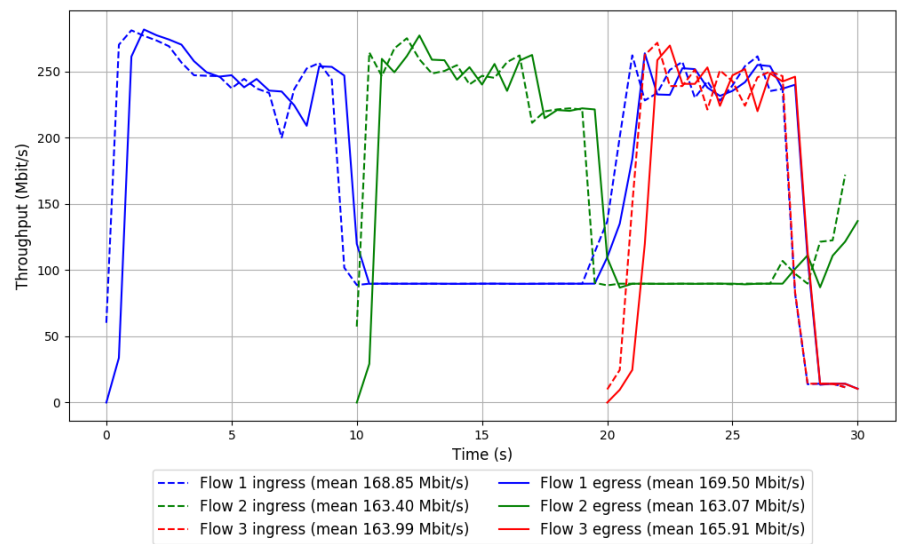
-- Flow 3:

Average throughput: 165.91 Mbit/s

95th percentile per-packet one-way delay: 67.638 ms

Loss rate: 0.09%

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

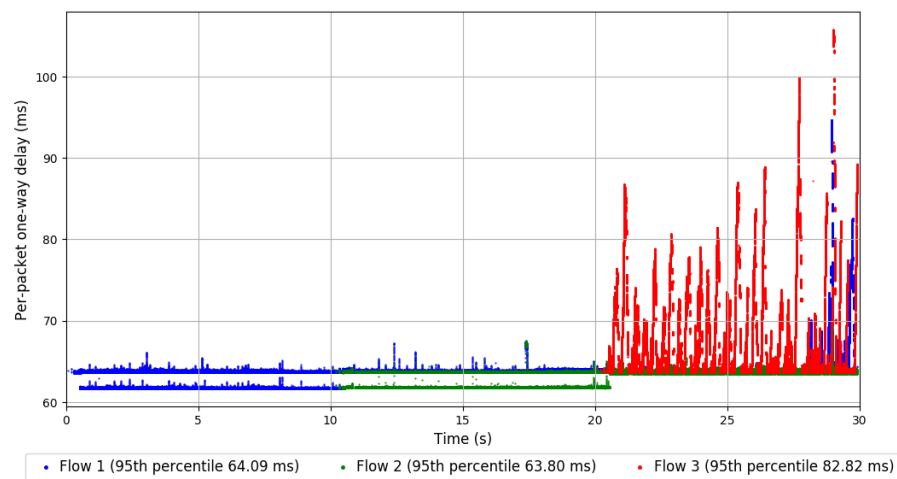
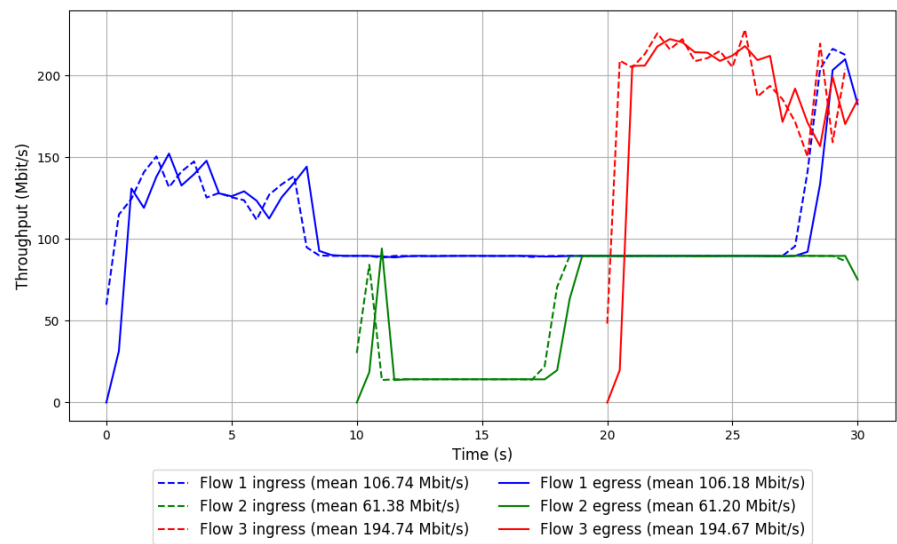


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-01 01:36:07
End at: 2018-06-01 01:36:37
Local clock offset: 0.228 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-06-01 04:33:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.99 Mbit/s
95th percentile per-packet one-way delay: 75.322 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 106.18 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 194.67 Mbit/s
95th percentile per-packet one-way delay: 82.817 ms
Loss rate: 1.32%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-01 01:59:22

End at: 2018-06-01 01:59:52

Local clock offset: -0.001 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-01 04:35:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.50 Mbit/s

95th percentile per-packet one-way delay: 68.110 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 204.28 Mbit/s

95th percentile per-packet one-way delay: 67.690 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 125.90 Mbit/s

95th percentile per-packet one-way delay: 70.533 ms

Loss rate: 0.17%

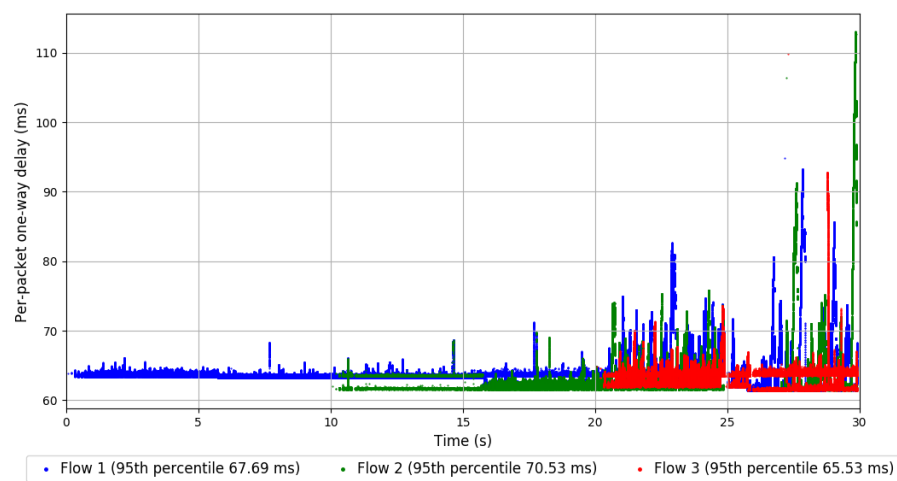
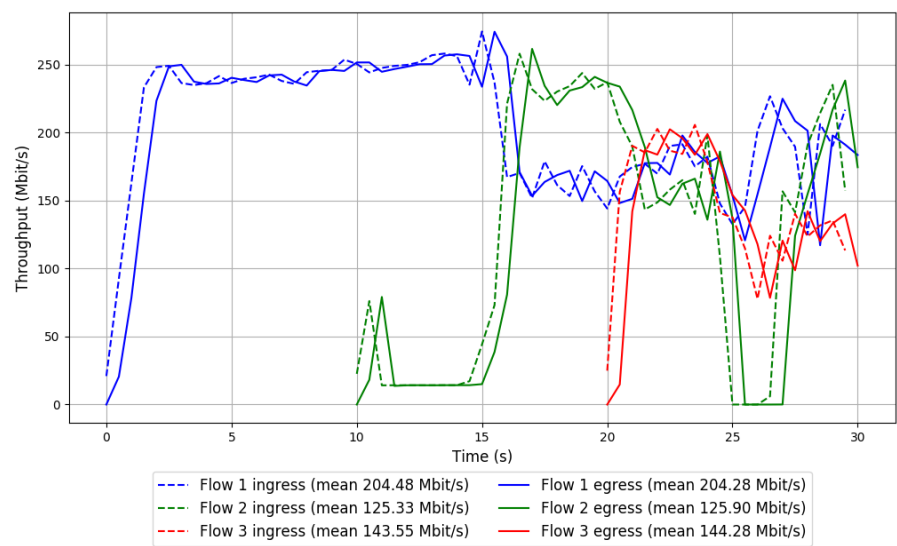
-- Flow 3:

Average throughput: 144.28 Mbit/s

95th percentile per-packet one-way delay: 65.530 ms

Loss rate: 0.78%

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

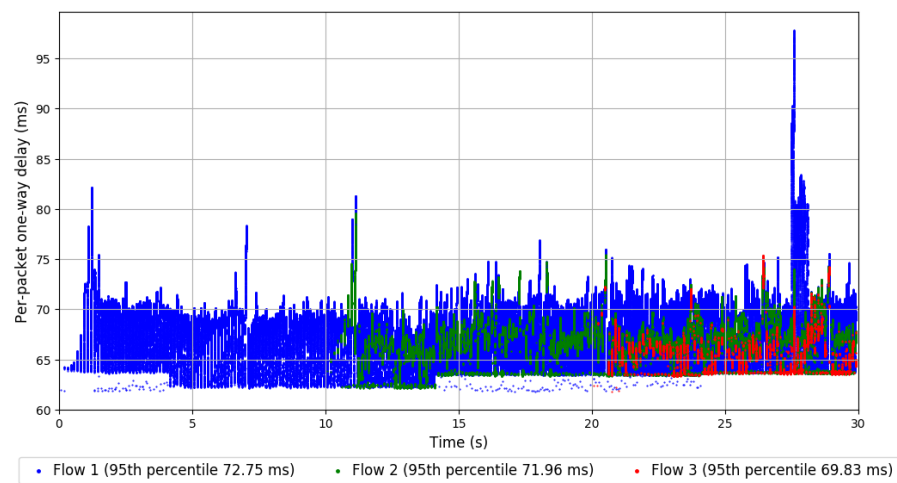
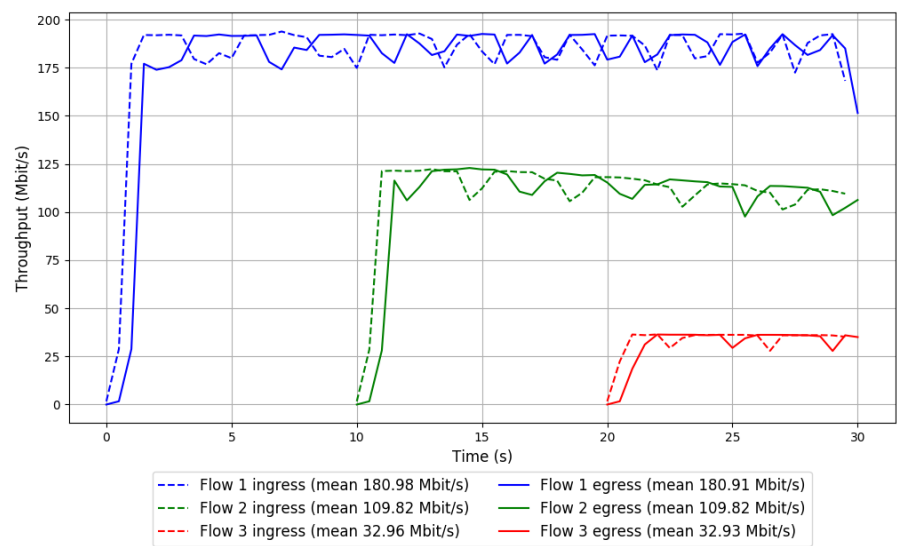


Run 1: Statistics of TCP Vegas

Start at: 2018-05-31 22:42:43
End at: 2018-05-31 22:43:13
Local clock offset: -0.013 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-06-01 04:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.61 Mbit/s
95th percentile per-packet one-way delay: 72.403 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 180.91 Mbit/s
95th percentile per-packet one-way delay: 72.754 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 109.82 Mbit/s
95th percentile per-packet one-way delay: 71.962 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 69.835 ms
Loss rate: 1.37%

Run 1: Report of TCP Vegas — Data Link

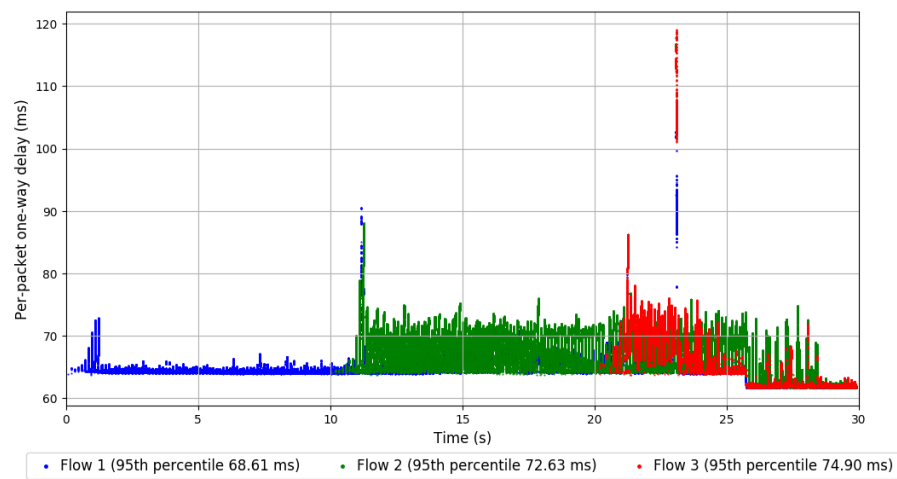
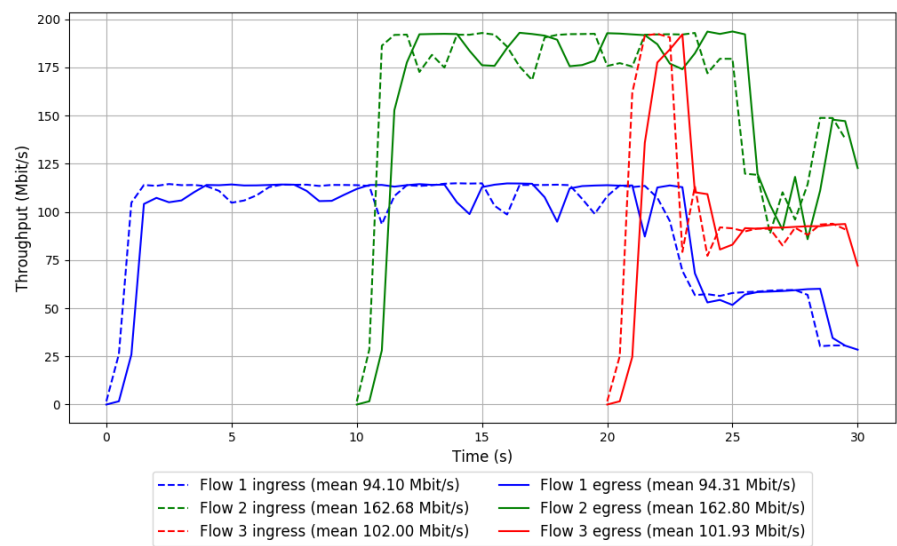


Run 2: Statistics of TCP Vegas

Start at: 2018-05-31 23:06:22
End at: 2018-05-31 23:06:52
Local clock offset: -0.001 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2018-06-01 04:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.97 Mbit/s
95th percentile per-packet one-way delay: 72.574 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 68.615 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 162.80 Mbit/s
95th percentile per-packet one-way delay: 72.633 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 101.93 Mbit/s
95th percentile per-packet one-way delay: 74.899 ms
Loss rate: 1.34%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-31 23:29:45

End at: 2018-05-31 23:30:15

Local clock offset: -0.001 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-06-01 04:35:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.16 Mbit/s

95th percentile per-packet one-way delay: 74.133 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 168.85 Mbit/s

95th percentile per-packet one-way delay: 74.673 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 68.691 ms

Loss rate: 0.60%

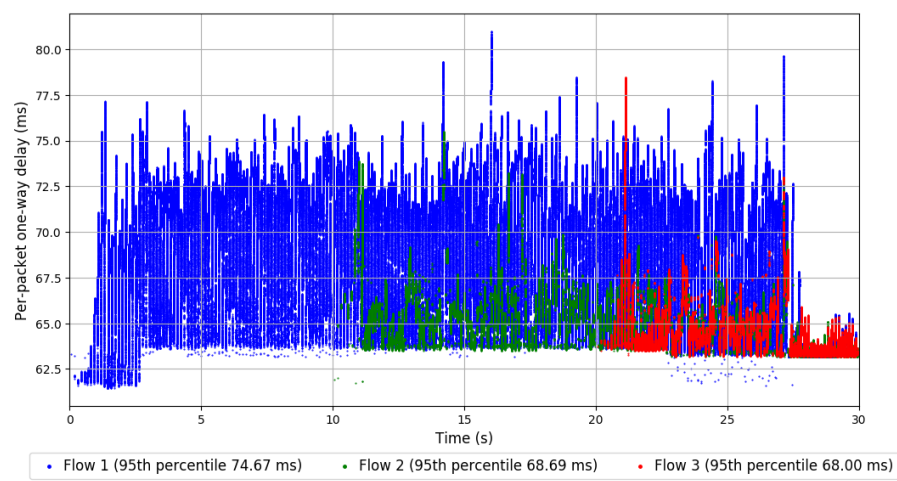
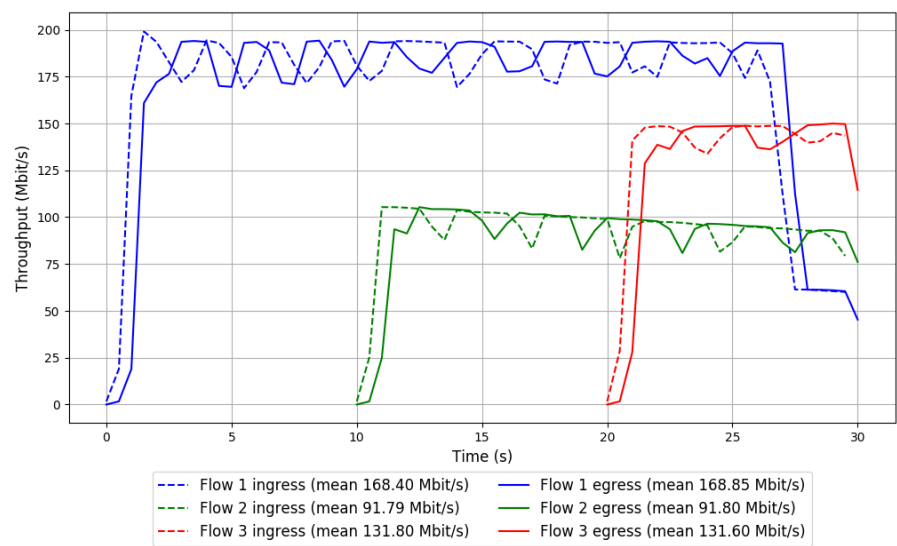
-- Flow 3:

Average throughput: 131.60 Mbit/s

95th percentile per-packet one-way delay: 68.003 ms

Loss rate: 1.41%

Run 3: Report of TCP Vegas — Data Link

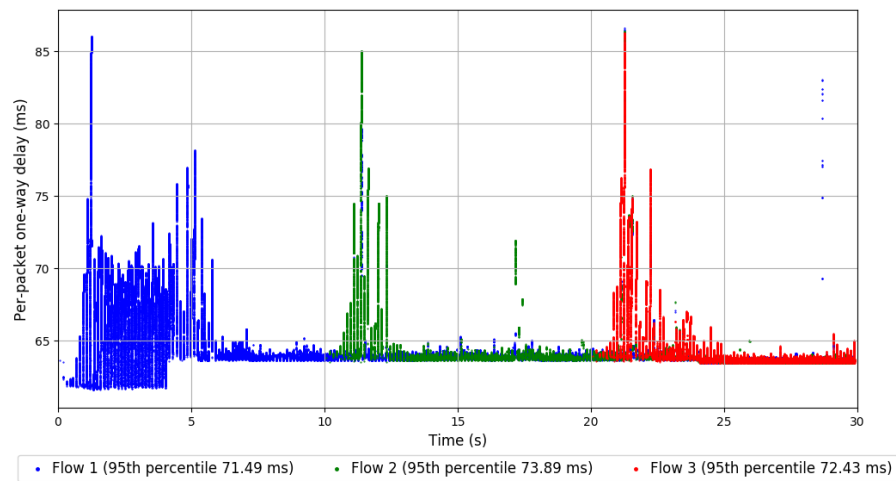
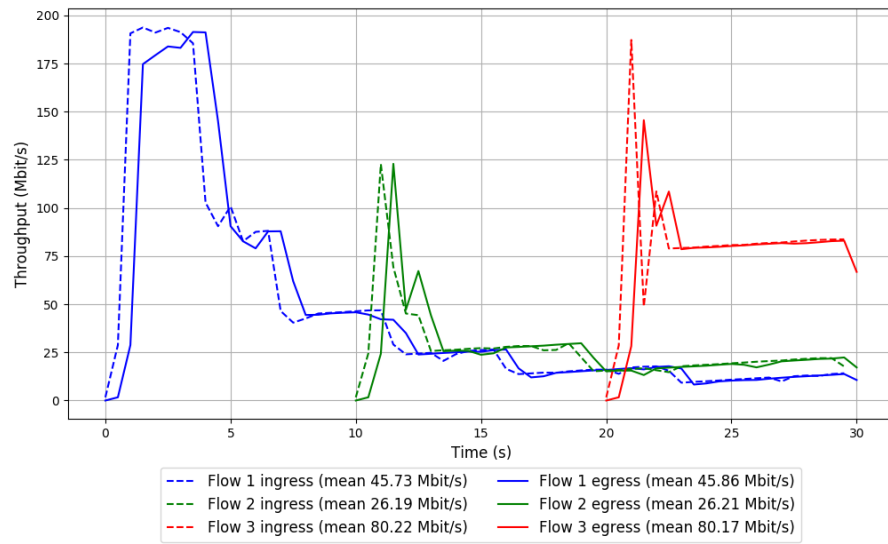


Run 4: Statistics of TCP Vegas

Start at: 2018-05-31 23:53:03
End at: 2018-05-31 23:53:33
Local clock offset: 0.009 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-06-01 04:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 72.051 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 71.490 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 26.21 Mbit/s
95th percentile per-packet one-way delay: 73.885 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 72.434 ms
Loss rate: 1.32%

Run 4: Report of TCP Vegas — Data Link

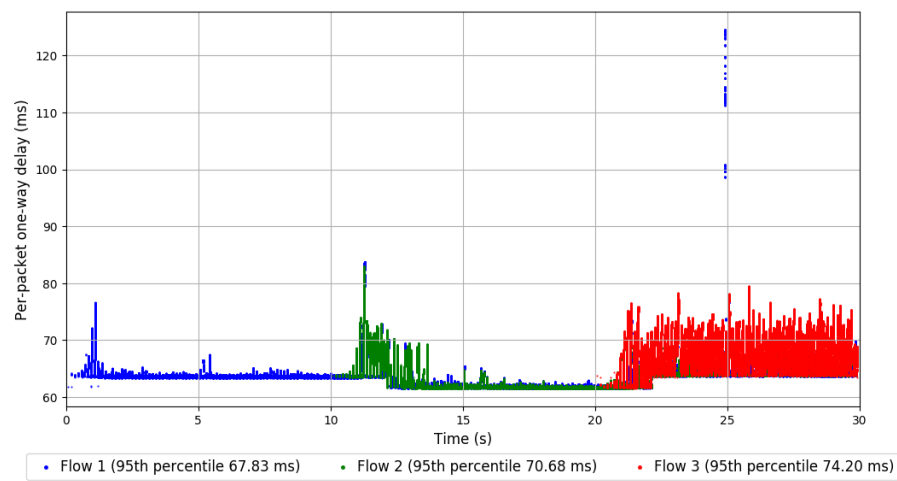
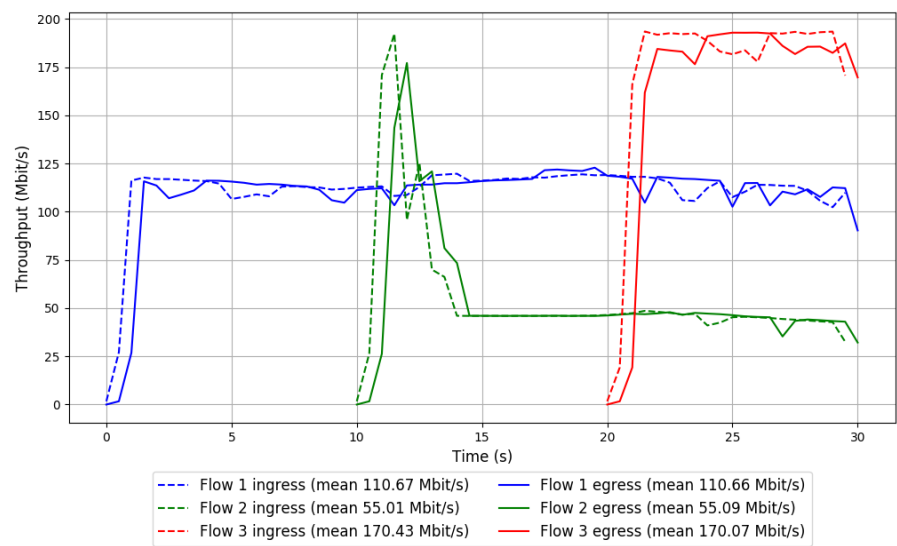


Run 5: Statistics of TCP Vegas

Start at: 2018-06-01 00:16:15
End at: 2018-06-01 00:16:45
Local clock offset: -0.025 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-01 04:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 72.554 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 110.66 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 70.676 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 170.07 Mbit/s
95th percentile per-packet one-way delay: 74.198 ms
Loss rate: 1.45%

Run 5: Report of TCP Vegas — Data Link

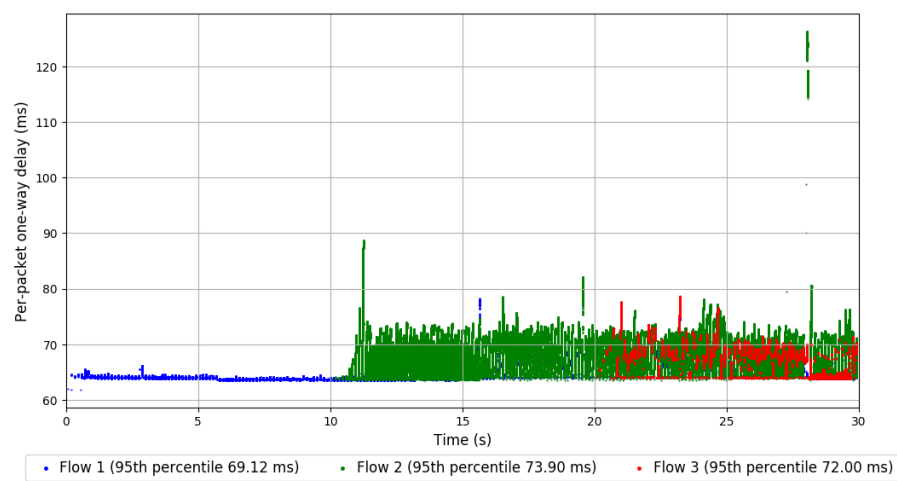
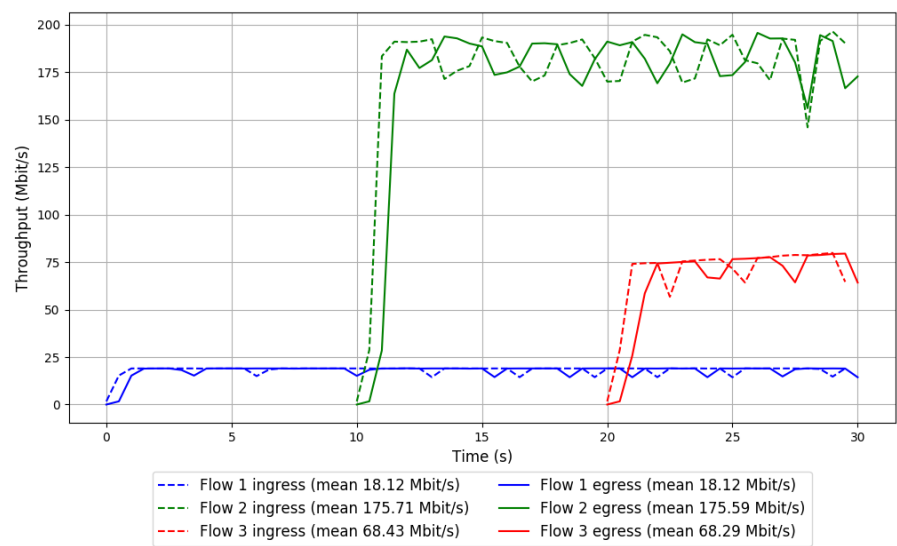


Run 6: Statistics of TCP Vegas

Start at: 2018-06-01 00:39:32
End at: 2018-06-01 00:40:02
Local clock offset: -0.027 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-01 04:35:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.34 Mbit/s
95th percentile per-packet one-way delay: 73.621 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 69.123 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 175.59 Mbit/s
95th percentile per-packet one-way delay: 73.902 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 72.003 ms
Loss rate: 1.47%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

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

End at: 2018-06-01 01:03:31

Local clock offset: -0.037 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-06-01 04:36:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.61 Mbit/s

95th percentile per-packet one-way delay: 71.268 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 174.19 Mbit/s

95th percentile per-packet one-way delay: 71.005 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 179.36 Mbit/s

95th percentile per-packet one-way delay: 71.761 ms

Loss rate: 0.69%

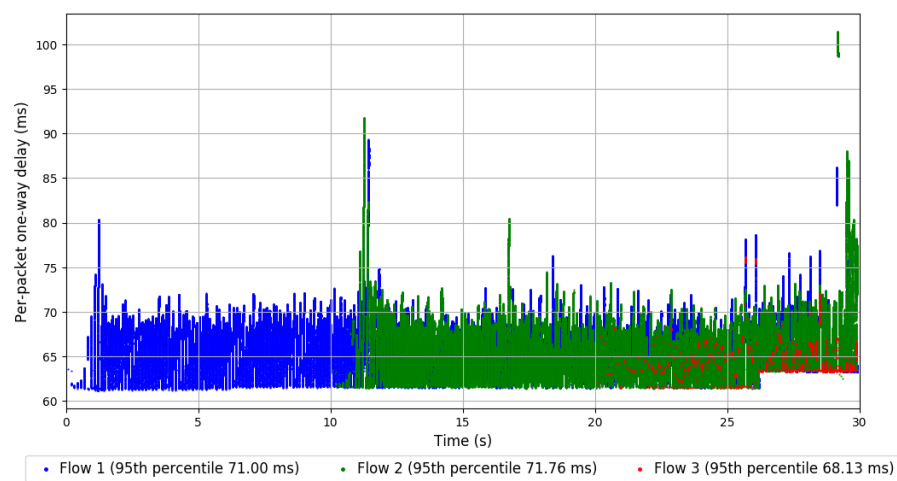
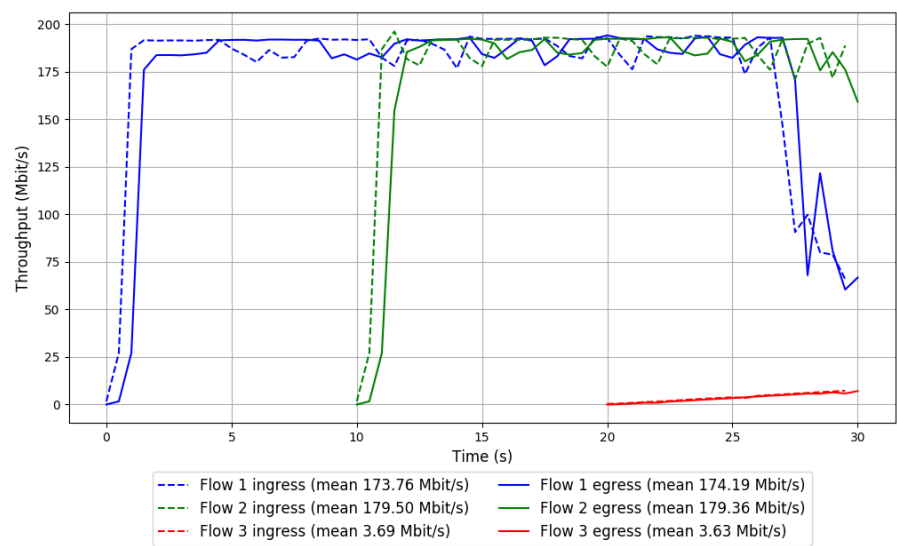
-- Flow 3:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 68.129 ms

Loss rate: 2.78%

Run 7: Report of TCP Vegas — Data Link

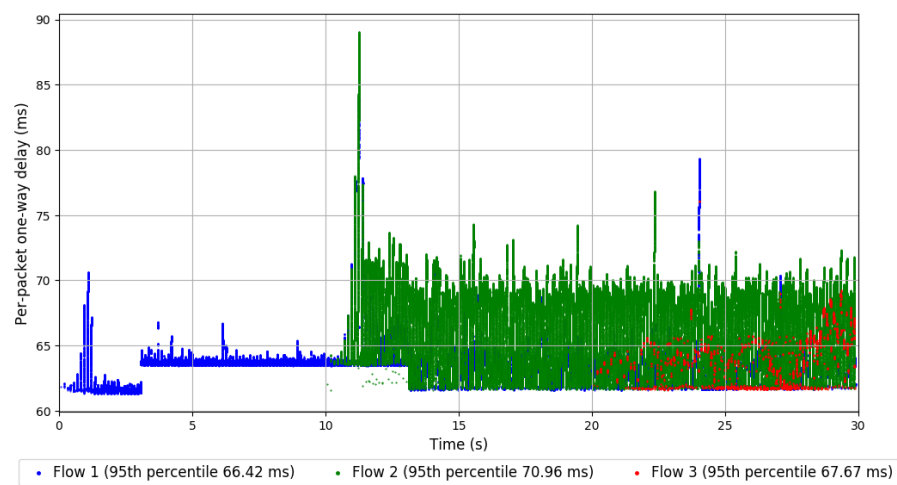
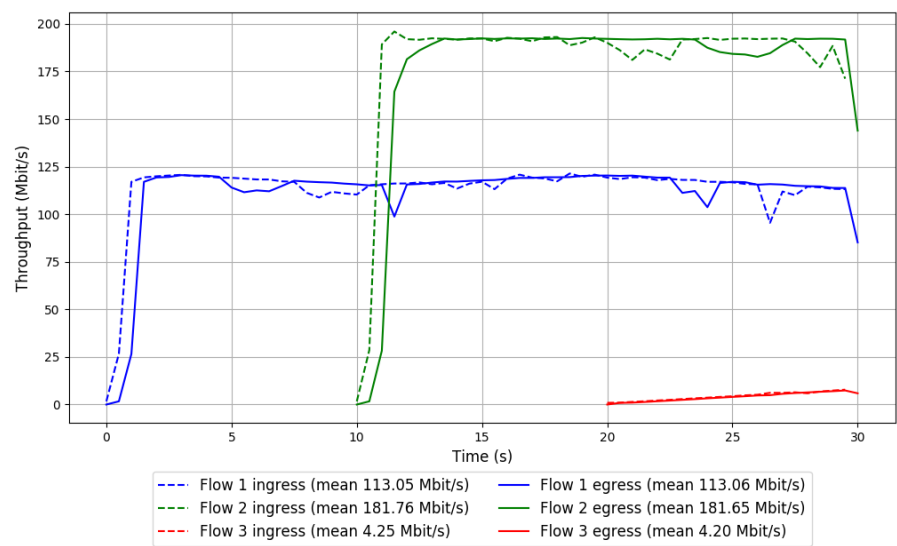


Run 8: Statistics of TCP Vegas

Start at: 2018-06-01 01:26:14
End at: 2018-06-01 01:26:44
Local clock offset: 0.166 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-06-01 04:36:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 234.81 Mbit/s
95th percentile per-packet one-way delay: 70.472 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 113.06 Mbit/s
95th percentile per-packet one-way delay: 66.416 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 181.65 Mbit/s
95th percentile per-packet one-way delay: 70.959 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 67.674 ms
Loss rate: 2.42%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-01 01:49:34

End at: 2018-06-01 01:50:04

Local clock offset: 0.046 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-06-01 04:36:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.82 Mbit/s

95th percentile per-packet one-way delay: 73.552 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 29.68 Mbit/s

95th percentile per-packet one-way delay: 69.678 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 177.42 Mbit/s

95th percentile per-packet one-way delay: 74.131 ms

Loss rate: 0.75%

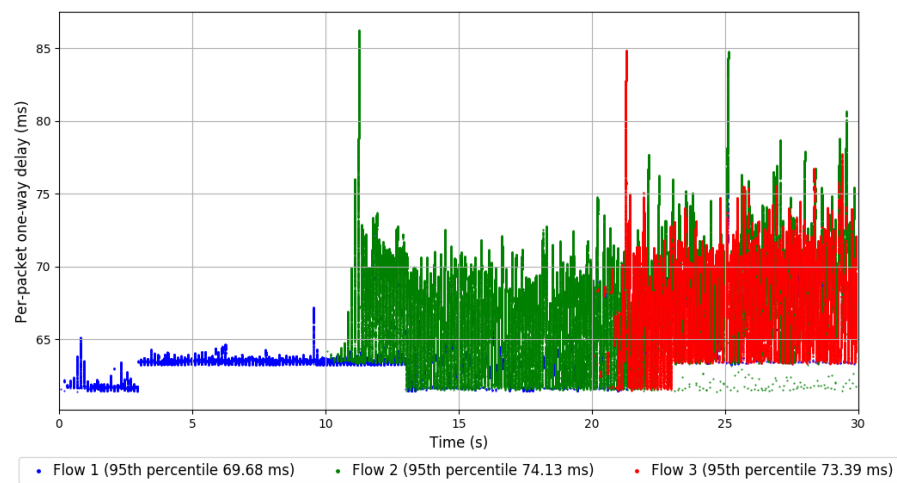
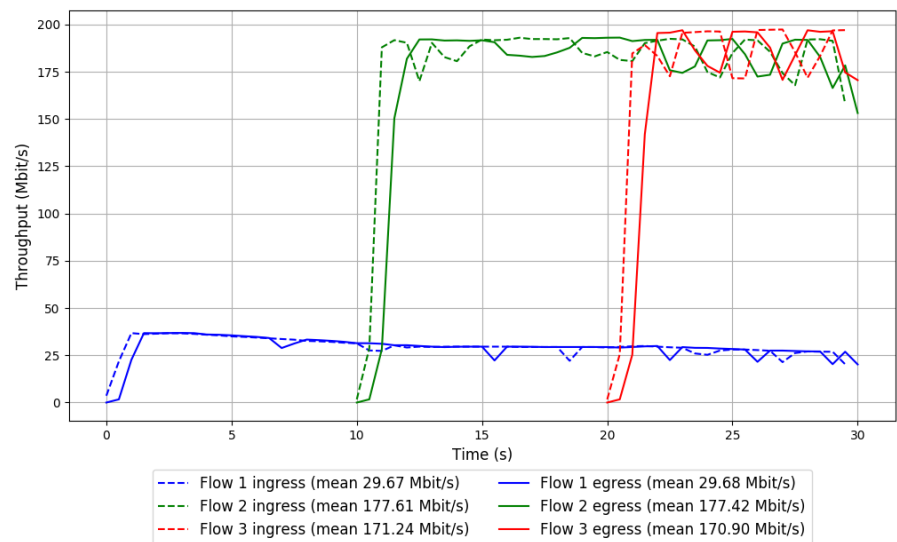
-- Flow 3:

Average throughput: 170.90 Mbit/s

95th percentile per-packet one-way delay: 73.391 ms

Loss rate: 1.44%

Run 9: Report of TCP Vegas — Data Link

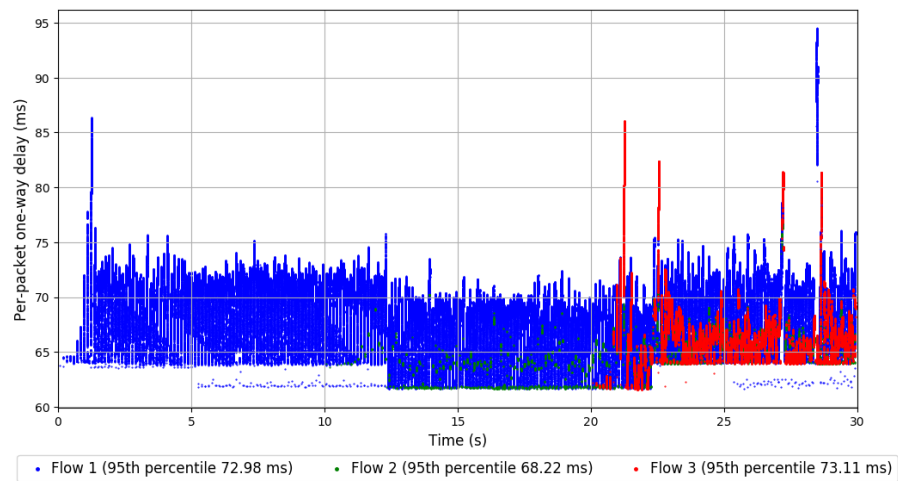
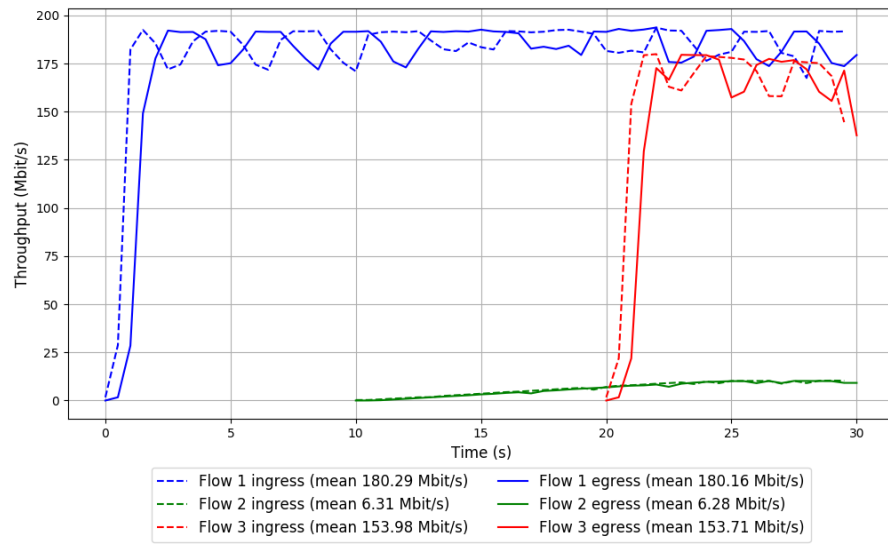


Run 10: Statistics of TCP Vegas

Start at: 2018-06-01 02:13:05
End at: 2018-06-01 02:13:35
Local clock offset: -0.022 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-06-01 04:36:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.01 Mbit/s
95th percentile per-packet one-way delay: 72.960 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 180.16 Mbit/s
95th percentile per-packet one-way delay: 72.978 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 68.224 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 153.71 Mbit/s
95th percentile per-packet one-way delay: 73.113 ms
Loss rate: 1.42%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-31 22:34:28

End at: 2018-05-31 22:34:58

Local clock offset: -0.009 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-01 04:38:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.95 Mbit/s

95th percentile per-packet one-way delay: 148.518 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 216.99 Mbit/s

95th percentile per-packet one-way delay: 148.923 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 162.341 ms

Loss rate: 2.55%

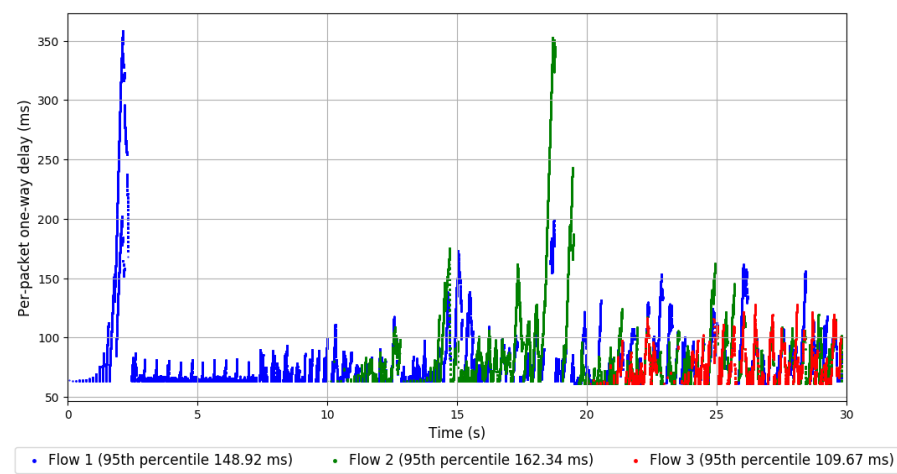
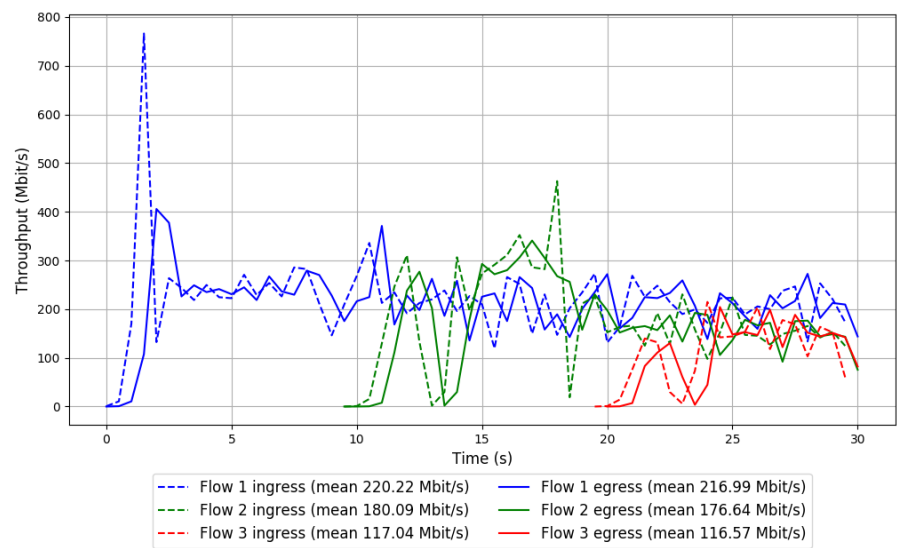
-- Flow 3:

Average throughput: 116.57 Mbit/s

95th percentile per-packet one-way delay: 109.671 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

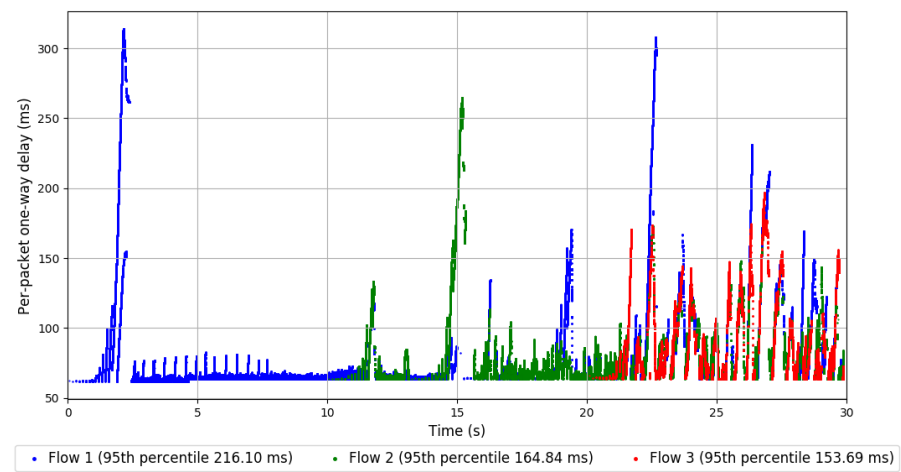
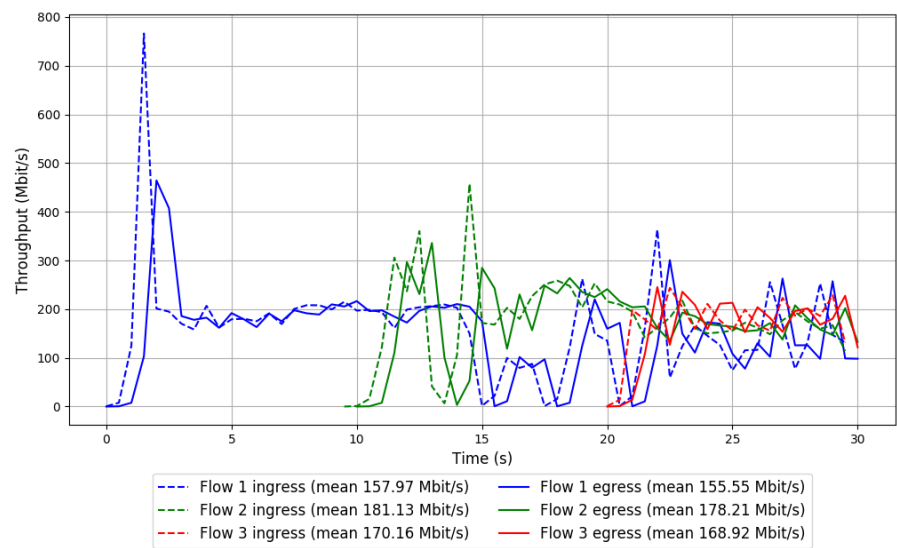


Run 2: Statistics of Verus

Start at: 2018-05-31 22:58:13
End at: 2018-05-31 22:58:43
Local clock offset: -0.001 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-01 04:38:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.08 Mbit/s
95th percentile per-packet one-way delay: 173.660 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 155.55 Mbit/s
95th percentile per-packet one-way delay: 216.105 ms
Loss rate: 2.18%
-- Flow 2:
Average throughput: 178.21 Mbit/s
95th percentile per-packet one-way delay: 164.836 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 168.92 Mbit/s
95th percentile per-packet one-way delay: 153.693 ms
Loss rate: 2.04%

Run 2: Report of Verus — Data Link

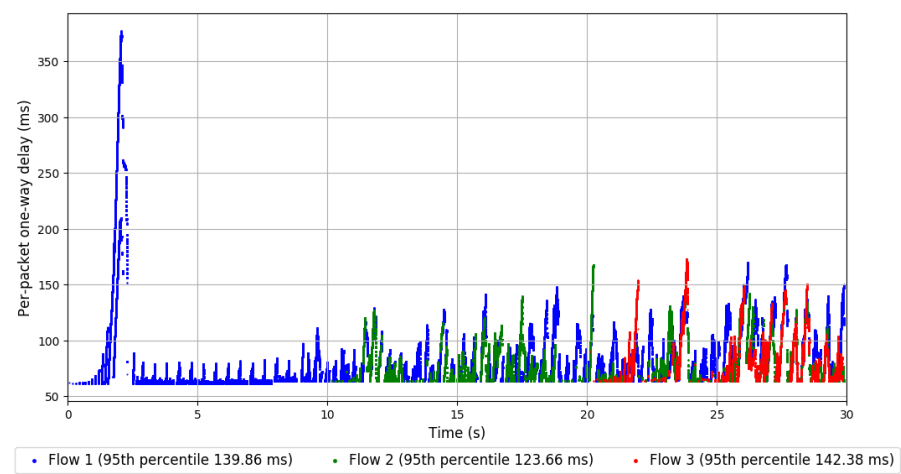
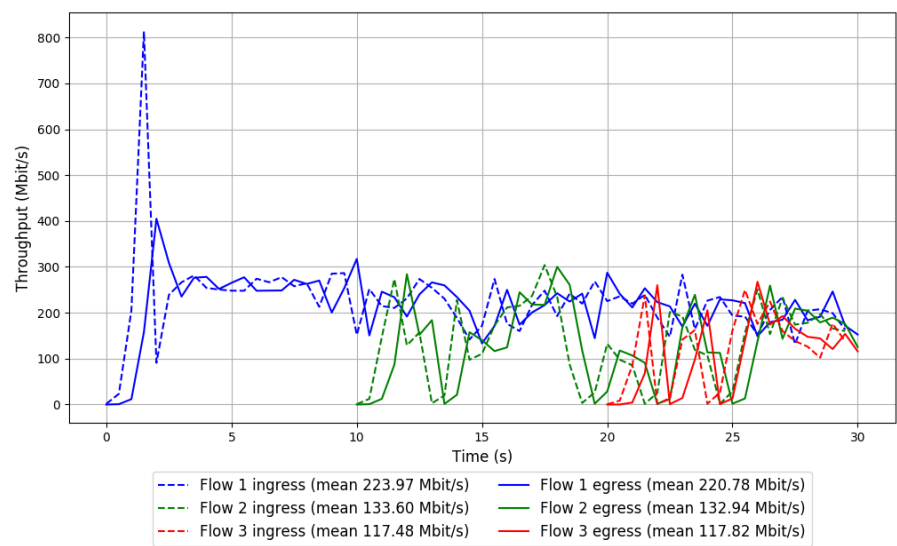


Run 3: Statistics of Verus

Start at: 2018-05-31 23:21:39
End at: 2018-05-31 23:22:10
Local clock offset: -0.023 ms
Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-01 04:39:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.47 Mbit/s
95th percentile per-packet one-way delay: 134.936 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 220.78 Mbit/s
95th percentile per-packet one-way delay: 139.861 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 123.662 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 117.82 Mbit/s
95th percentile per-packet one-way delay: 142.379 ms
Loss rate: 1.90%

Run 3: Report of Verus — Data Link

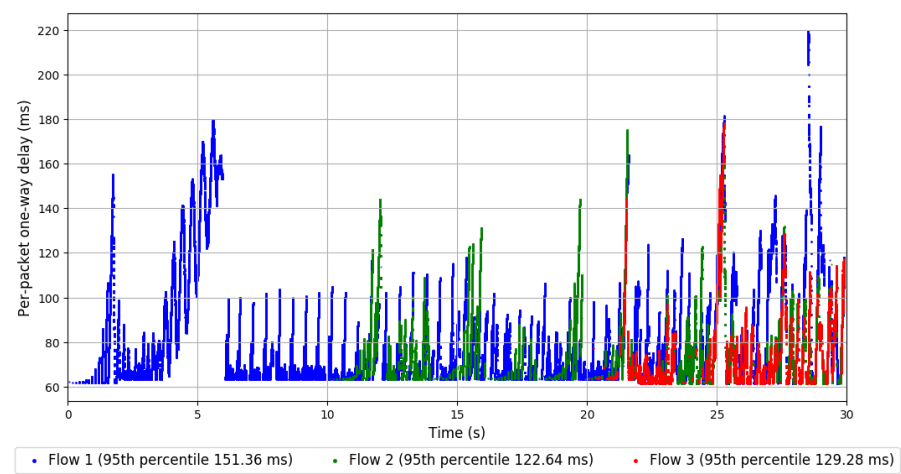
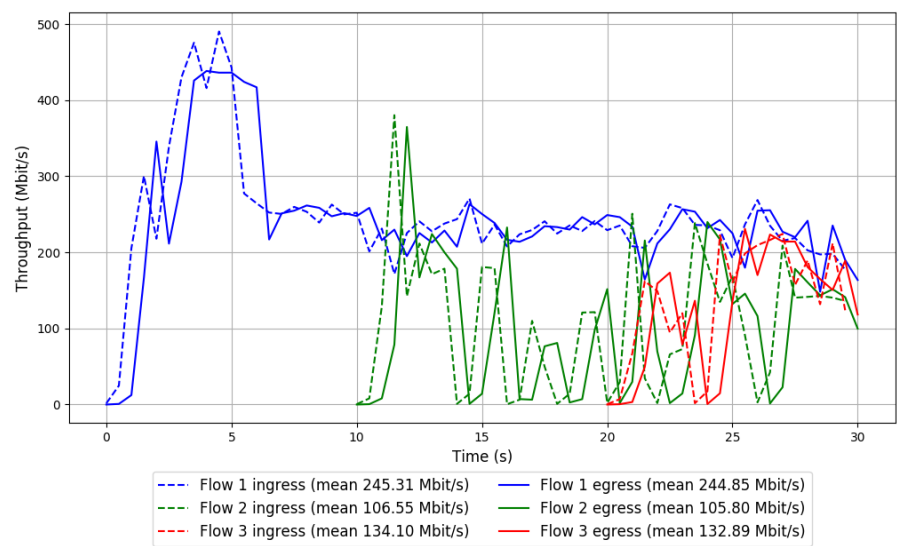


Run 4: Statistics of Verus

Start at: 2018-05-31 23:45:06
End at: 2018-05-31 23:45:36
Local clock offset: 0.025 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-06-01 04:41:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.81 Mbit/s
95th percentile per-packet one-way delay: 143.775 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 244.85 Mbit/s
95th percentile per-packet one-way delay: 151.357 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 105.80 Mbit/s
95th percentile per-packet one-way delay: 122.639 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 132.89 Mbit/s
95th percentile per-packet one-way delay: 129.283 ms
Loss rate: 2.18%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-01 00:08:15

End at: 2018-06-01 00:08:45

Local clock offset: -0.017 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-01 04:41:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.82 Mbit/s

95th percentile per-packet one-way delay: 149.599 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 213.15 Mbit/s

95th percentile per-packet one-way delay: 138.220 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 113.78 Mbit/s

95th percentile per-packet one-way delay: 183.391 ms

Loss rate: 2.07%

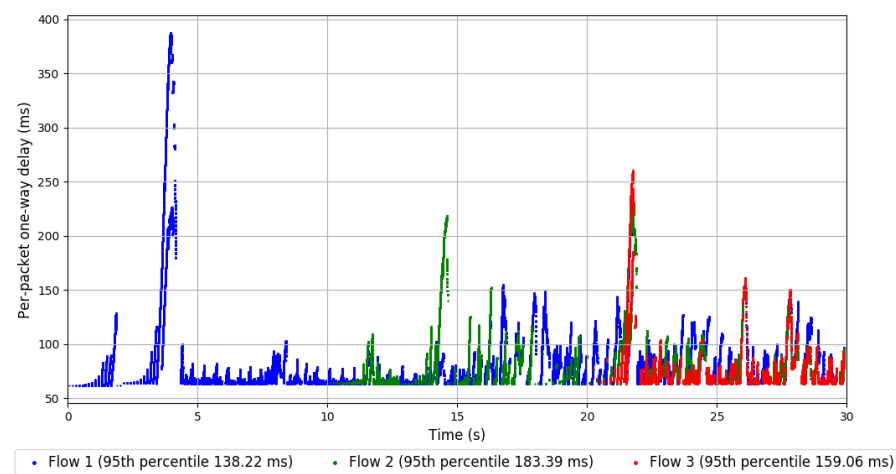
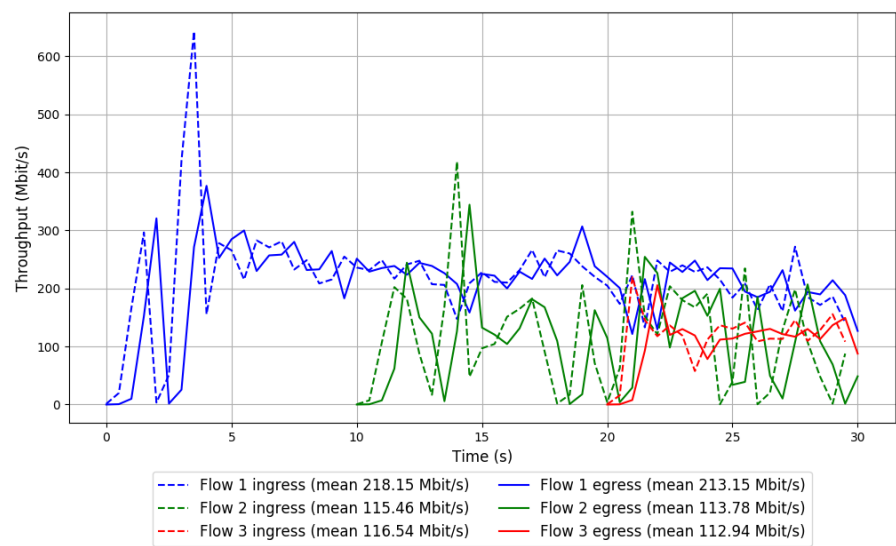
-- Flow 3:

Average throughput: 112.94 Mbit/s

95th percentile per-packet one-way delay: 159.064 ms

Loss rate: 4.42%

Run 5: Report of Verus — Data Link

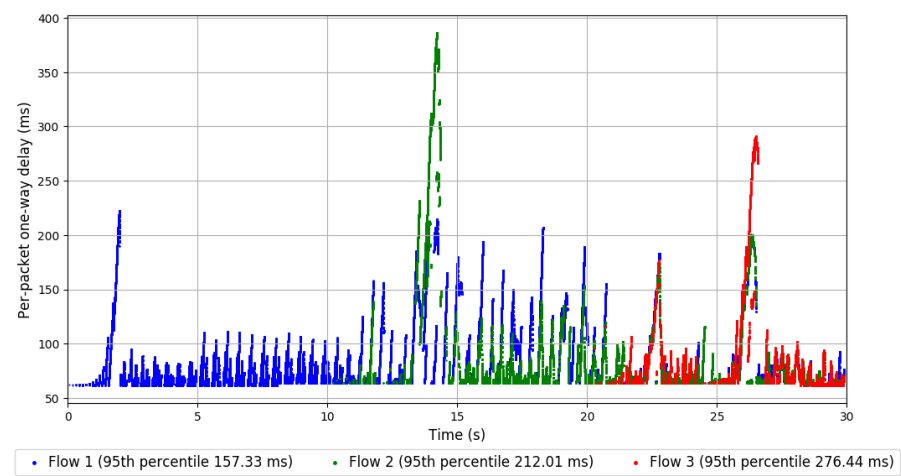
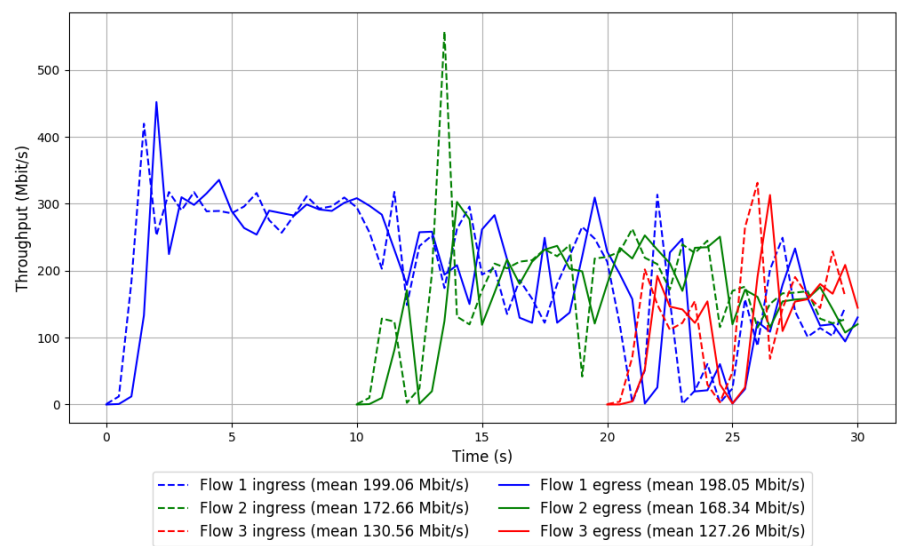


Run 6: Statistics of Verus

Start at: 2018-06-01 00:31:29
End at: 2018-06-01 00:31:59
Local clock offset: -0.02 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-06-01 04:42:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.68 Mbit/s
95th percentile per-packet one-way delay: 176.299 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 198.05 Mbit/s
95th percentile per-packet one-way delay: 157.326 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 168.34 Mbit/s
95th percentile per-packet one-way delay: 212.007 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 127.26 Mbit/s
95th percentile per-packet one-way delay: 276.435 ms
Loss rate: 3.76%

Run 6: Report of Verus — Data Link

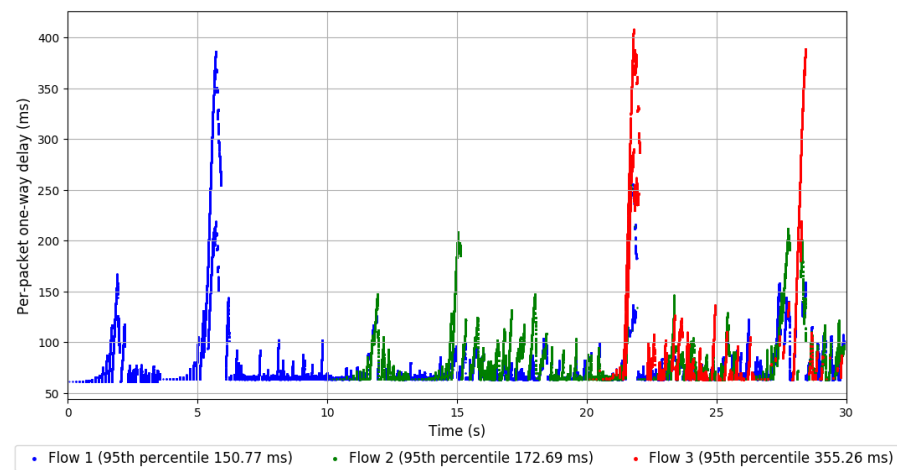
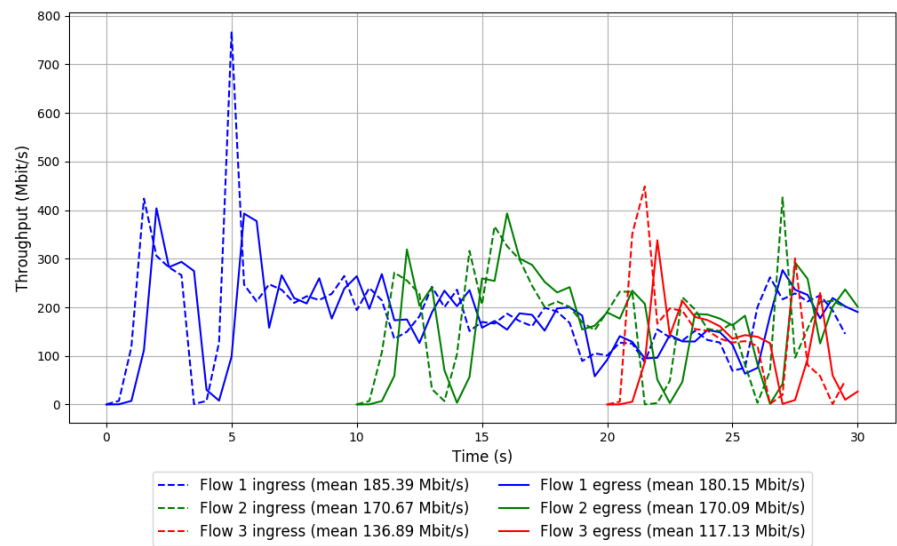


Run 7: Statistics of Verus

Start at: 2018-06-01 00:54:54
End at: 2018-06-01 00:55:24
Local clock offset: -0.039 ms
Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-06-01 04:42:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.17 Mbit/s
95th percentile per-packet one-way delay: 195.330 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 180.15 Mbit/s
95th percentile per-packet one-way delay: 150.768 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 170.09 Mbit/s
95th percentile per-packet one-way delay: 172.692 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 117.13 Mbit/s
95th percentile per-packet one-way delay: 355.263 ms
Loss rate: 15.61%

Run 7: Report of Verus — Data Link

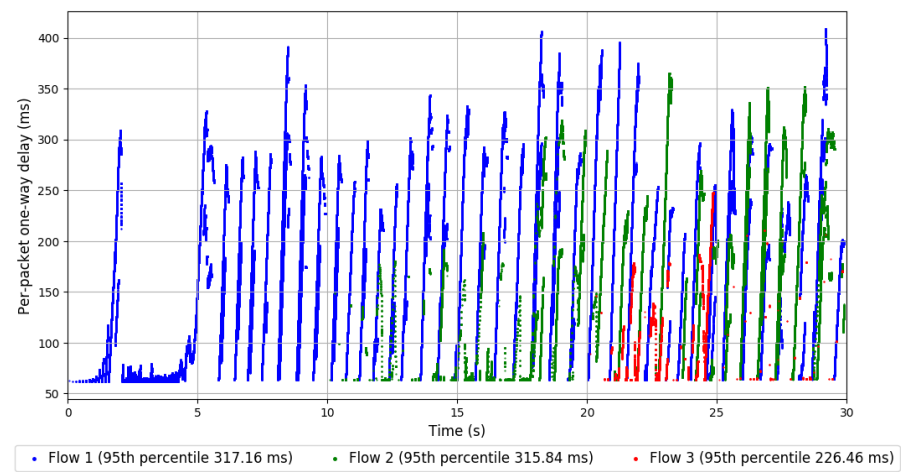
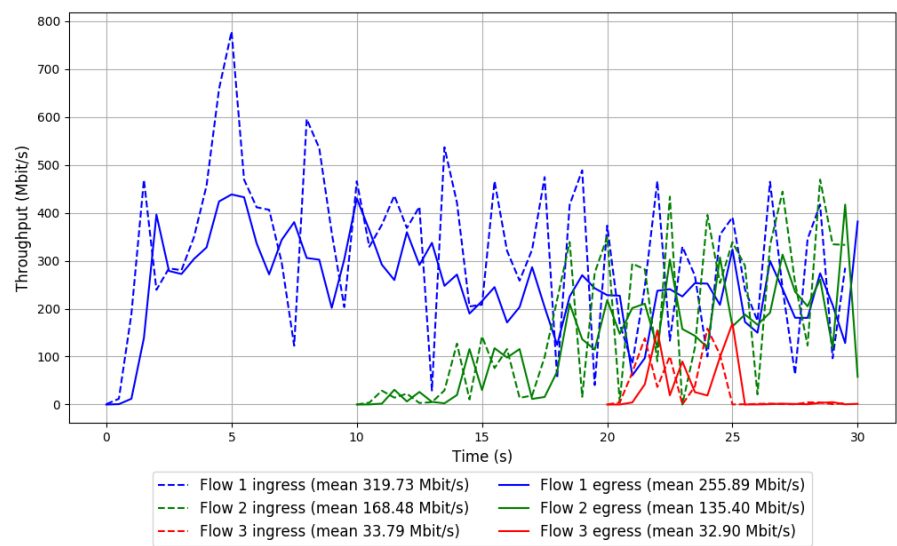


Run 8: Statistics of Verus

Start at: 2018-06-01 01:18:12
End at: 2018-06-01 01:18:42
Local clock offset: 0.071 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2018-06-01 04:43:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.51 Mbit/s
95th percentile per-packet one-way delay: 315.613 ms
Loss rate: 19.35%
-- Flow 1:
Average throughput: 255.89 Mbit/s
95th percentile per-packet one-way delay: 317.158 ms
Loss rate: 19.60%
-- Flow 2:
Average throughput: 135.40 Mbit/s
95th percentile per-packet one-way delay: 315.843 ms
Loss rate: 20.15%
-- Flow 3:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 226.461 ms
Loss rate: 4.14%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-01 01:41:29

End at: 2018-06-01 01:41:59

Local clock offset: 0.191 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-01 04:44:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.37 Mbit/s

95th percentile per-packet one-way delay: 202.019 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 187.23 Mbit/s

95th percentile per-packet one-way delay: 189.039 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 187.001 ms

Loss rate: 2.17%

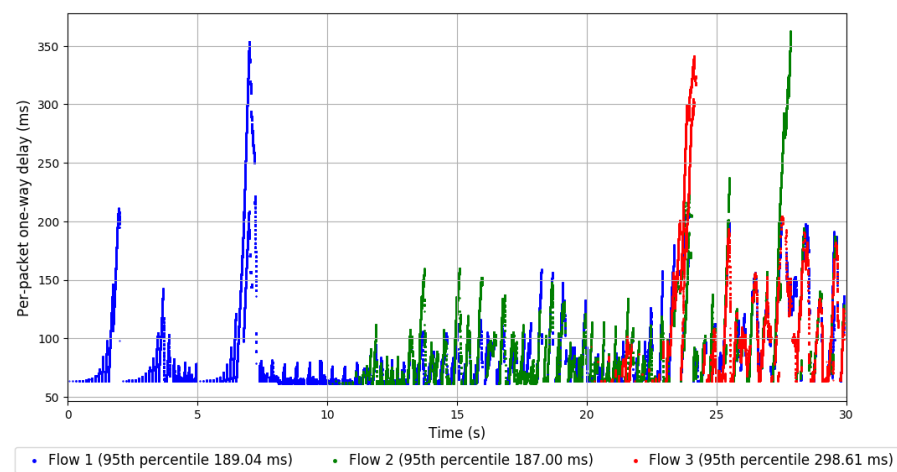
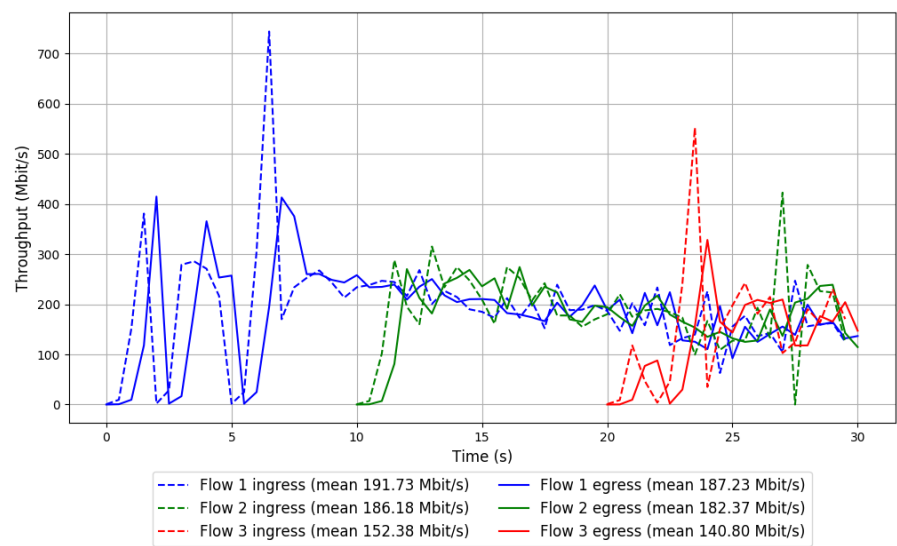
-- Flow 3:

Average throughput: 140.80 Mbit/s

95th percentile per-packet one-way delay: 298.611 ms

Loss rate: 9.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-01 02:04:55

End at: 2018-06-01 02:05:25

Local clock offset: 0.002 ms

Remote clock offset: 0.335 ms

Below is generated by plot.py at 2018-06-01 04:45:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.87 Mbit/s

95th percentile per-packet one-way delay: 289.032 ms

Loss rate: 7.36%

-- Flow 1:

Average throughput: 244.98 Mbit/s

95th percentile per-packet one-way delay: 234.826 ms

Loss rate: 3.39%

-- Flow 2:

Average throughput: 117.53 Mbit/s

95th percentile per-packet one-way delay: 341.776 ms

Loss rate: 18.01%

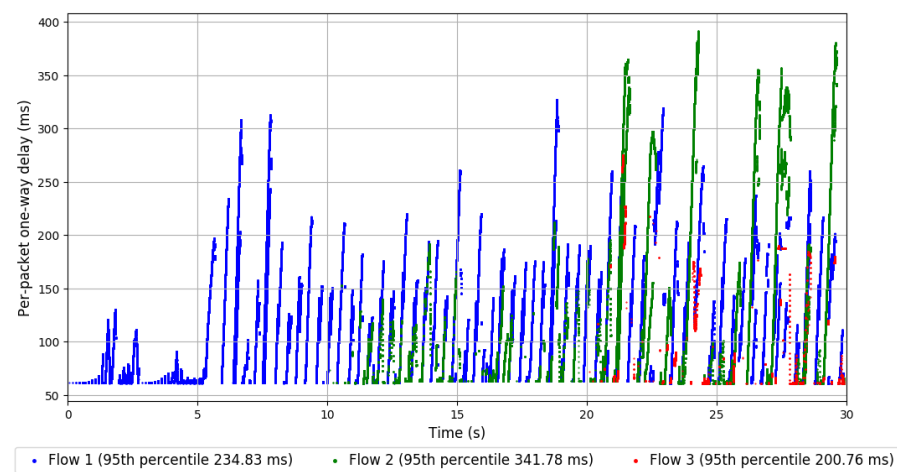
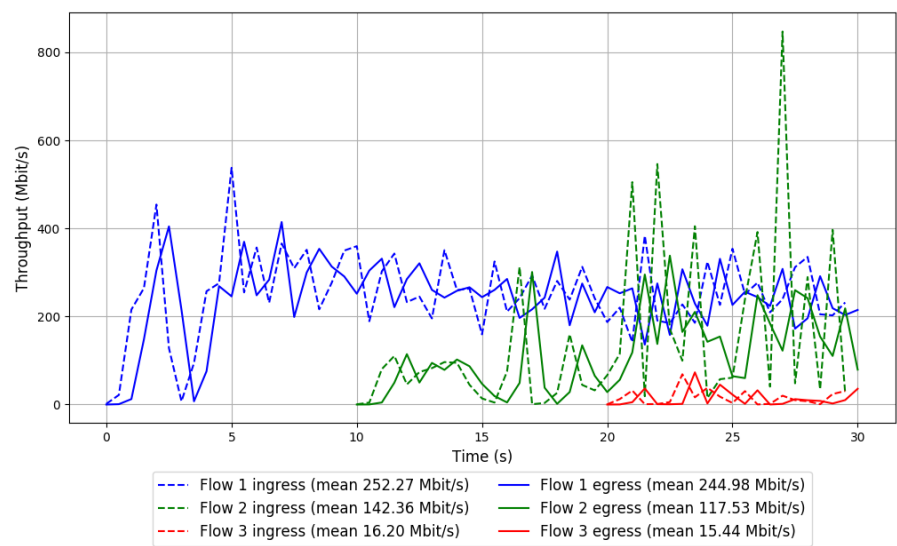
-- Flow 3:

Average throughput: 15.44 Mbit/s

95th percentile per-packet one-way delay: 200.762 ms

Loss rate: 5.98%

Run 10: Report of Verus — Data Link

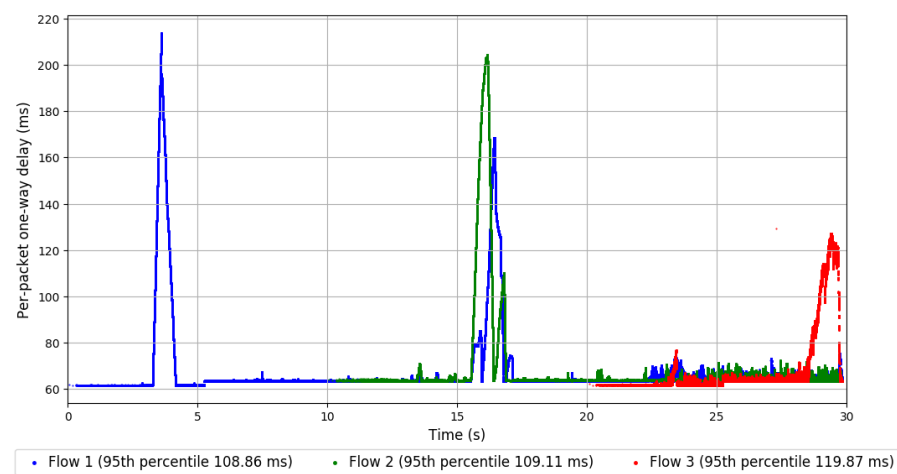
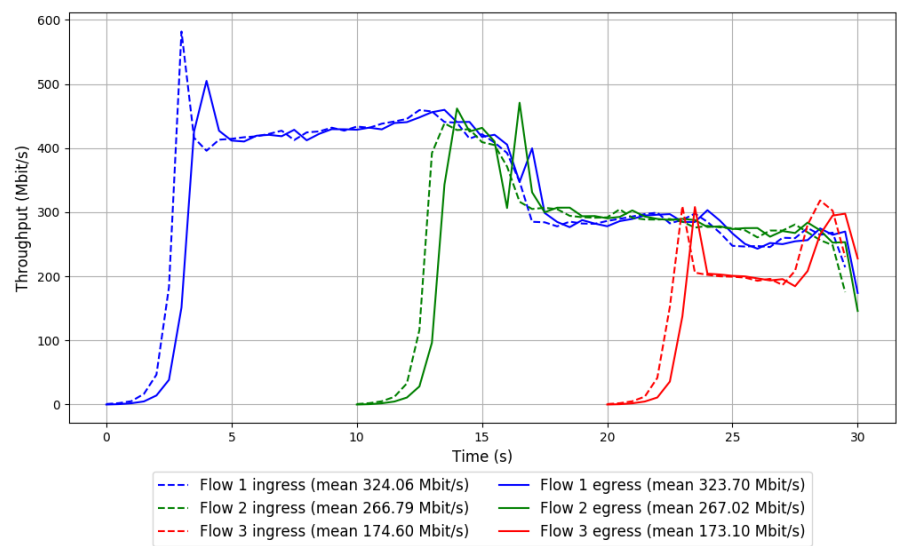


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-31 22:36:02
End at: 2018-05-31 22:36:32
Local clock offset: -0.007 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-06-01 04:50:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.54 Mbit/s
95th percentile per-packet one-way delay: 113.517 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 323.70 Mbit/s
95th percentile per-packet one-way delay: 108.862 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 267.02 Mbit/s
95th percentile per-packet one-way delay: 109.107 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 173.10 Mbit/s
95th percentile per-packet one-way delay: 119.869 ms
Loss rate: 2.13%

Run 1: Report of PCC-Vivace — Data Link

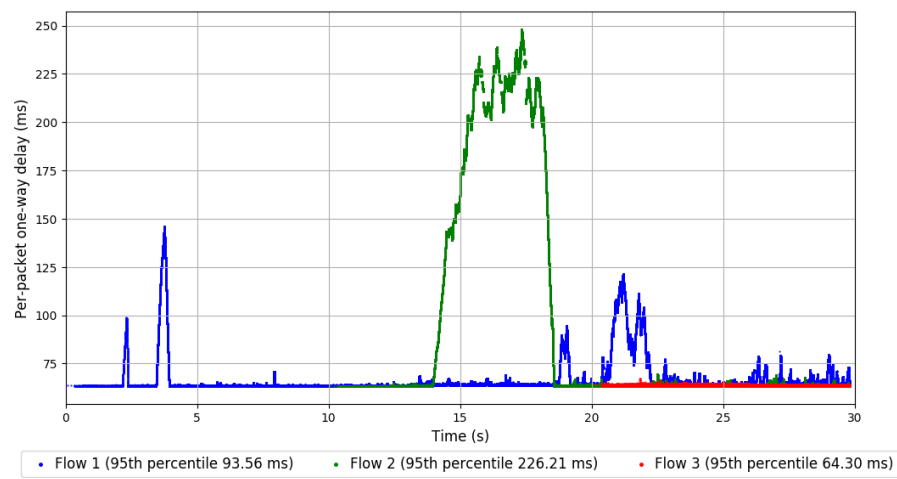
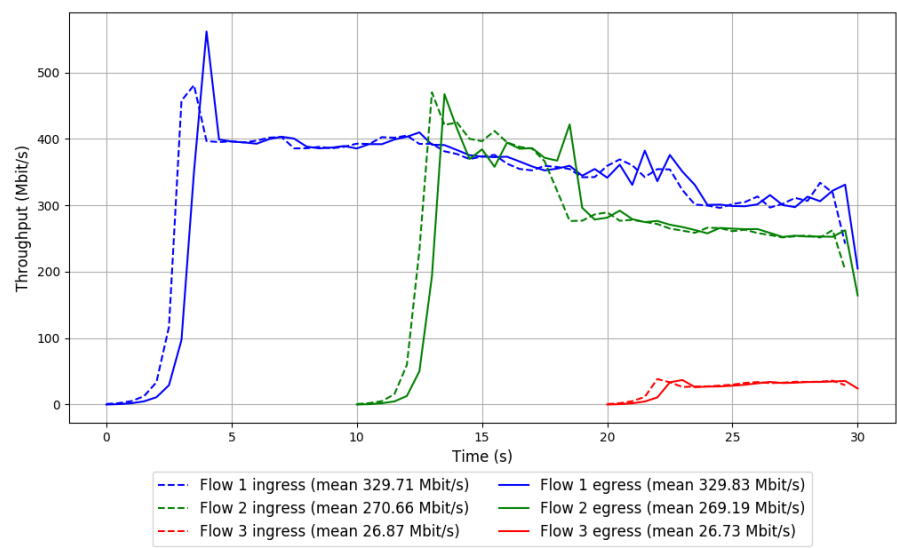


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-31 22:59:44
End at: 2018-05-31 23:00:14
Local clock offset: -0.023 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-01 04:50:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 517.23 Mbit/s
95th percentile per-packet one-way delay: 210.030 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 329.83 Mbit/s
95th percentile per-packet one-way delay: 93.563 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 269.19 Mbit/s
95th percentile per-packet one-way delay: 226.207 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 64.301 ms
Loss rate: 1.82%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-31 23:23:12

End at: 2018-05-31 23:23:42

Local clock offset: -0.042 ms

Remote clock offset: 0.146 ms

Below is generated by plot.py at 2018-06-01 04:50:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.65 Mbit/s

95th percentile per-packet one-way delay: 166.140 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 277.36 Mbit/s

95th percentile per-packet one-way delay: 187.057 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 250.67 Mbit/s

95th percentile per-packet one-way delay: 66.759 ms

Loss rate: 0.82%

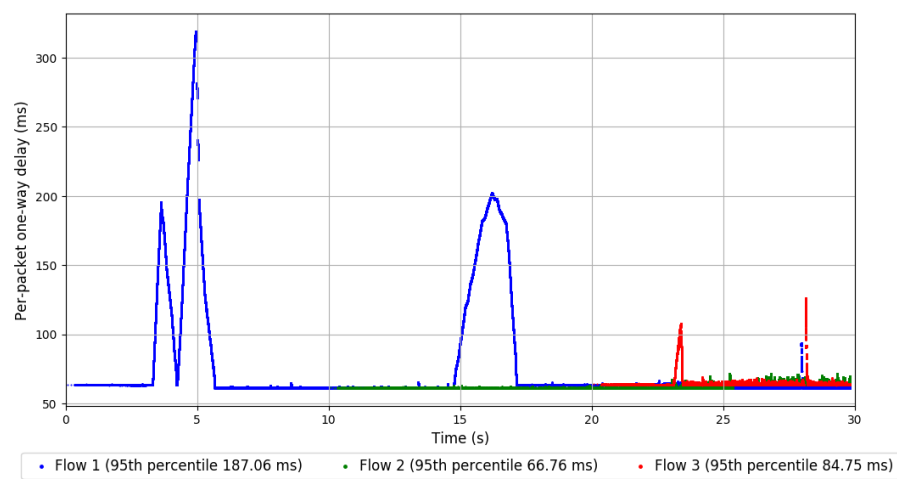
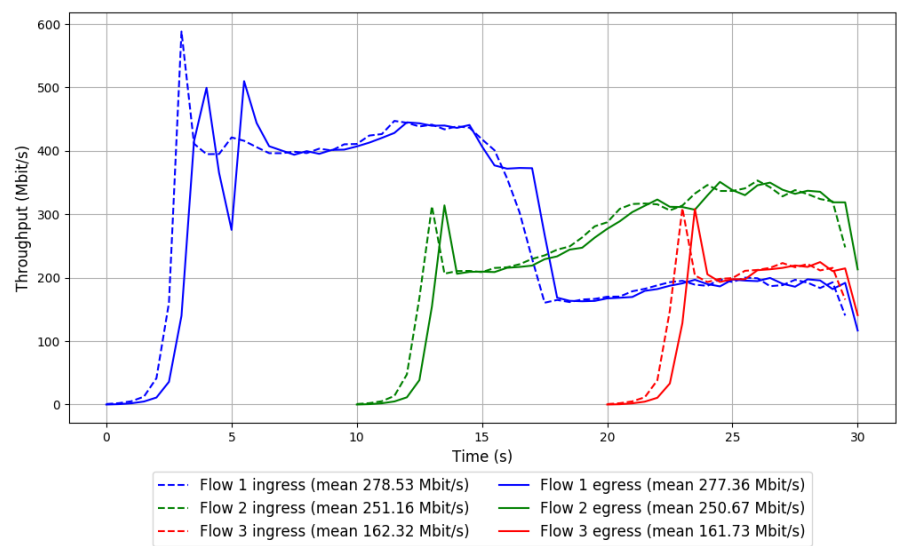
-- Flow 3:

Average throughput: 161.73 Mbit/s

95th percentile per-packet one-way delay: 84.747 ms

Loss rate: 1.66%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-31 23:46:39

End at: 2018-05-31 23:47:09

Local clock offset: -0.012 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-01 04:51:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.57 Mbit/s

95th percentile per-packet one-way delay: 178.200 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 310.43 Mbit/s

95th percentile per-packet one-way delay: 210.723 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 268.33 Mbit/s

95th percentile per-packet one-way delay: 71.524 ms

Loss rate: 0.75%

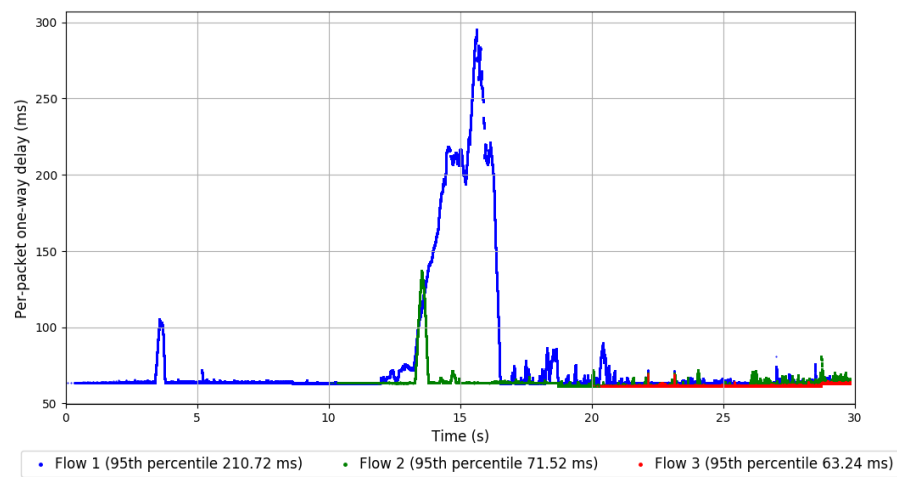
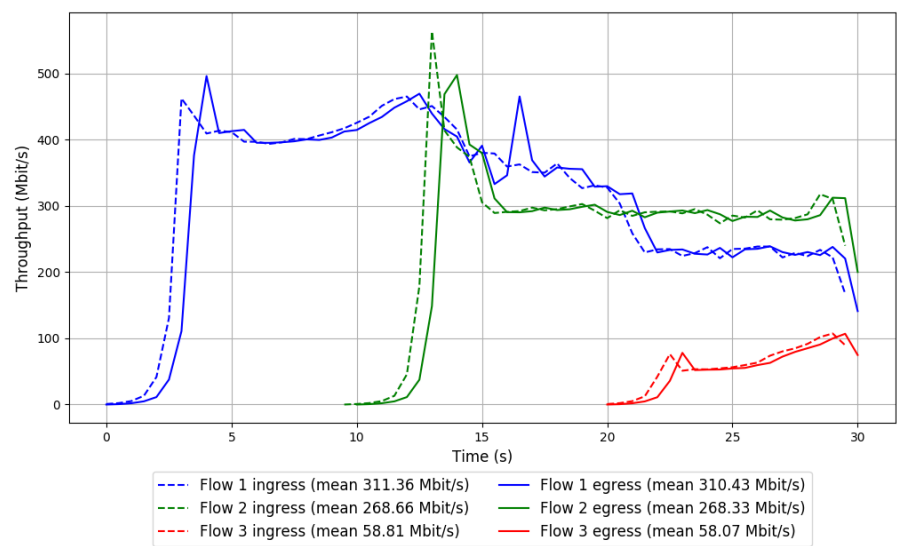
-- Flow 3:

Average throughput: 58.07 Mbit/s

95th percentile per-packet one-way delay: 63.236 ms

Loss rate: 2.49%

Run 4: Report of PCC-Vivace — Data Link

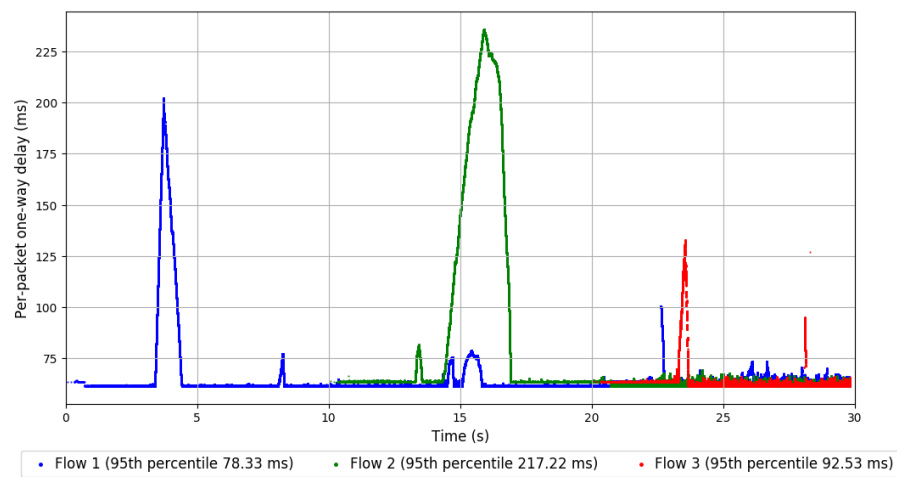
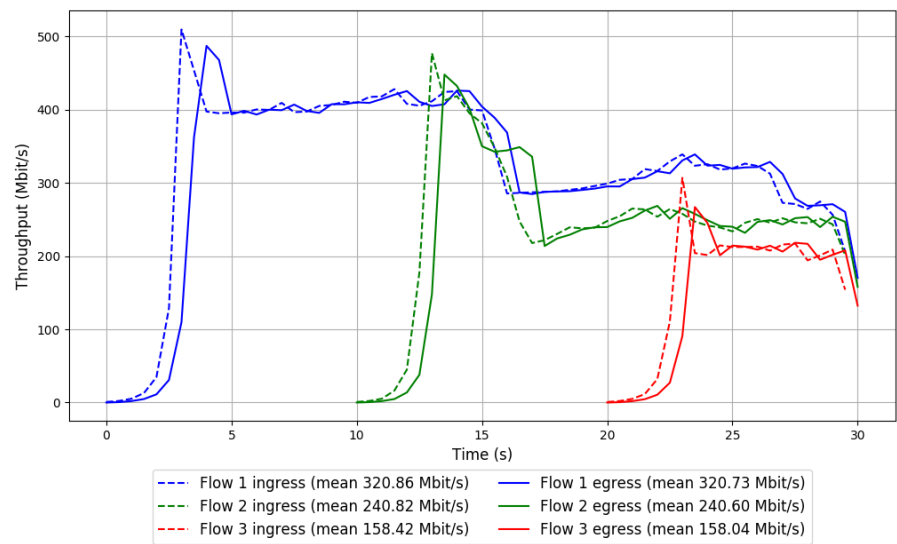


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-01 00:09:47
End at: 2018-06-01 00:10:17
Local clock offset: -0.026 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-01 04:51:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 532.12 Mbit/s
95th percentile per-packet one-way delay: 144.584 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 320.73 Mbit/s
95th percentile per-packet one-way delay: 78.335 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 240.60 Mbit/s
95th percentile per-packet one-way delay: 217.224 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 158.04 Mbit/s
95th percentile per-packet one-way delay: 92.529 ms
Loss rate: 1.53%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-01 00:33:02

End at: 2018-06-01 00:33:32

Local clock offset: -0.044 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-01 04:53:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 576.40 Mbit/s

95th percentile per-packet one-way delay: 182.222 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 317.66 Mbit/s

95th percentile per-packet one-way delay: 133.803 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 300.32 Mbit/s

95th percentile per-packet one-way delay: 122.409 ms

Loss rate: 1.20%

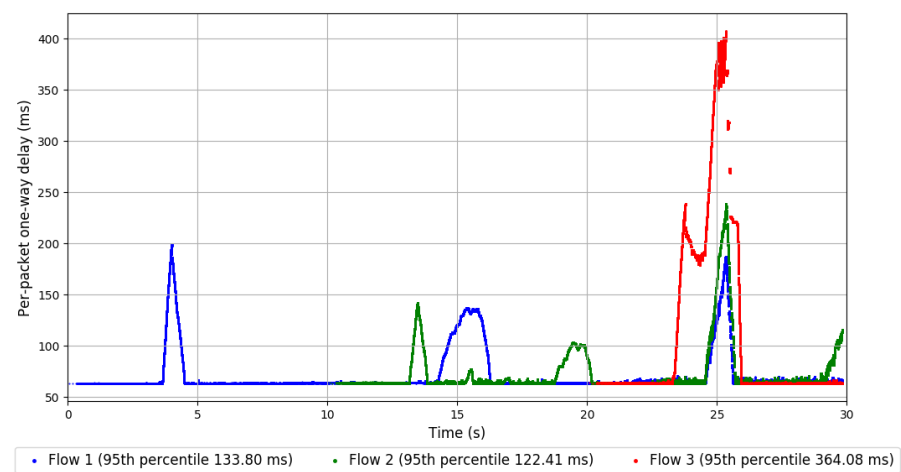
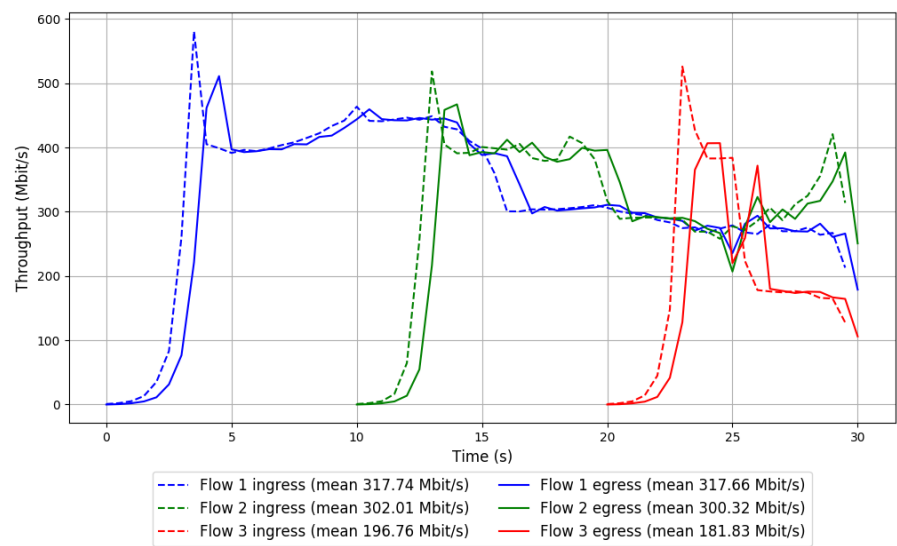
-- Flow 3:

Average throughput: 181.83 Mbit/s

95th percentile per-packet one-way delay: 364.077 ms

Loss rate: 8.84%

Run 6: Report of PCC-Vivace — Data Link

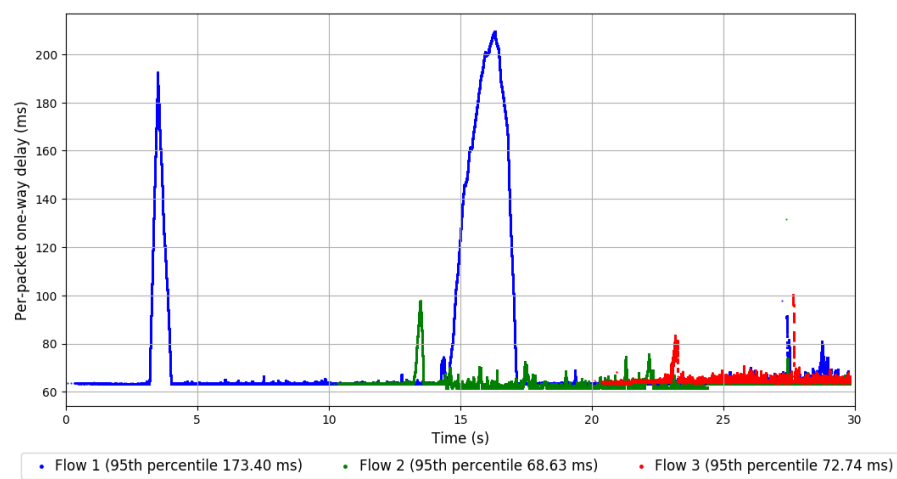
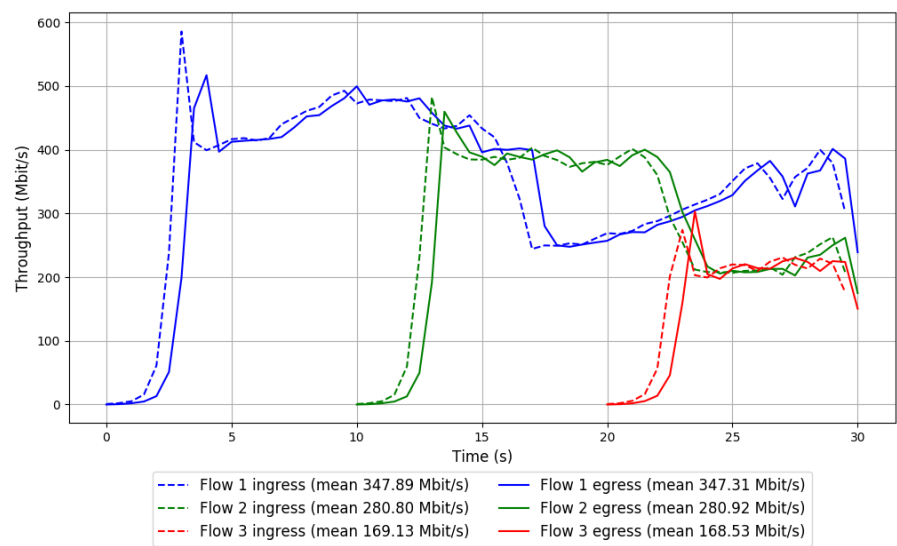


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-01 00:56:26
End at: 2018-06-01 00:56:56
Local clock offset: -0.036 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-01 04:54:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 588.86 Mbit/s
95th percentile per-packet one-way delay: 139.905 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 347.31 Mbit/s
95th percentile per-packet one-way delay: 173.398 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 280.92 Mbit/s
95th percentile per-packet one-way delay: 68.634 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 168.53 Mbit/s
95th percentile per-packet one-way delay: 72.742 ms
Loss rate: 1.66%

Run 7: Report of PCC-Vivace — Data Link

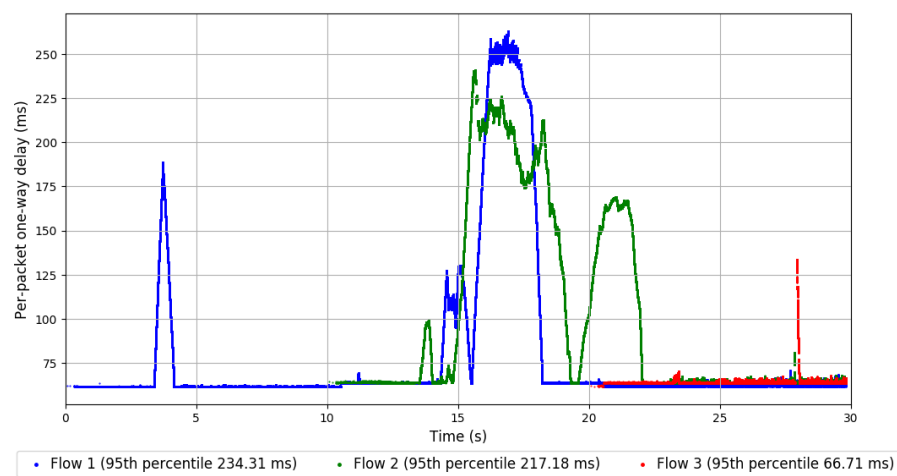
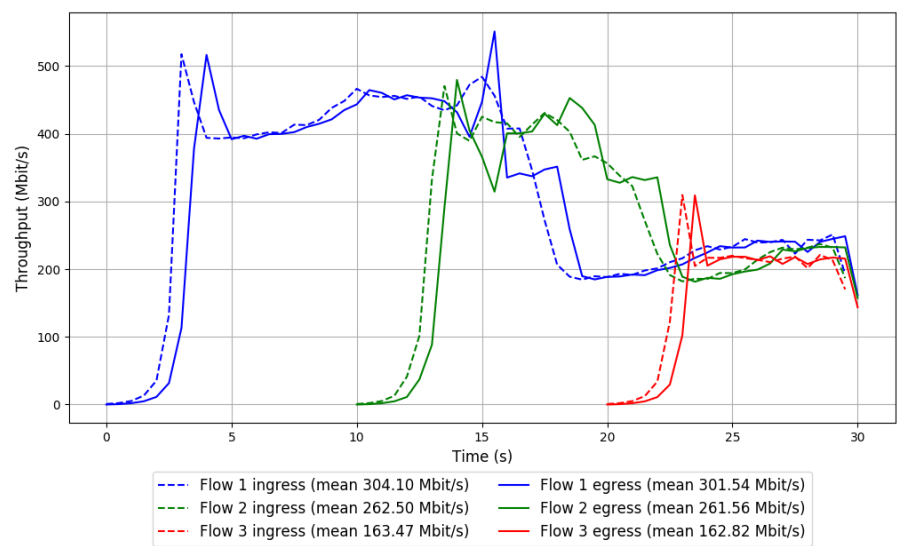


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-01 01:19:47
End at: 2018-06-01 01:20:17
Local clock offset: 0.121 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-06-01 04:54:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 528.35 Mbit/s
95th percentile per-packet one-way delay: 218.943 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 301.54 Mbit/s
95th percentile per-packet one-way delay: 234.312 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 261.56 Mbit/s
95th percentile per-packet one-way delay: 217.176 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 162.82 Mbit/s
95th percentile per-packet one-way delay: 66.709 ms
Loss rate: 1.66%

Run 8: Report of PCC-Vivace — Data Link

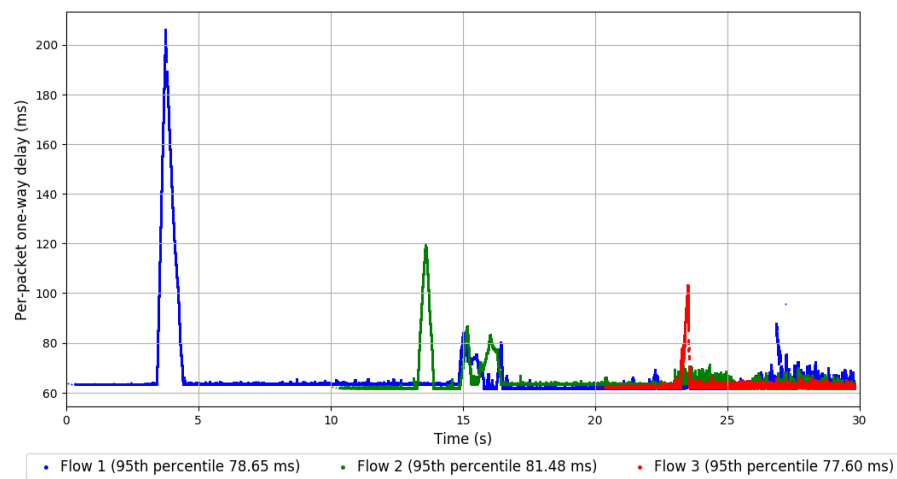
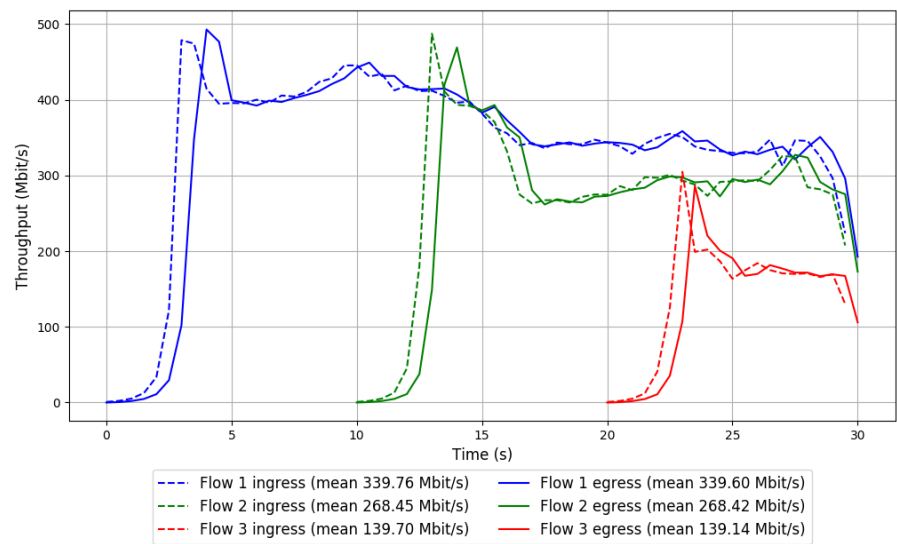


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-01 01:43:02
End at: 2018-06-01 01:43:32
Local clock offset: 0.137 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 563.28 Mbit/s
95th percentile per-packet one-way delay: 79.954 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 339.60 Mbit/s
95th percentile per-packet one-way delay: 78.650 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 268.42 Mbit/s
95th percentile per-packet one-way delay: 81.484 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 139.14 Mbit/s
95th percentile per-packet one-way delay: 77.597 ms
Loss rate: 1.68%

Run 9: Report of PCC-Vivace — Data Link

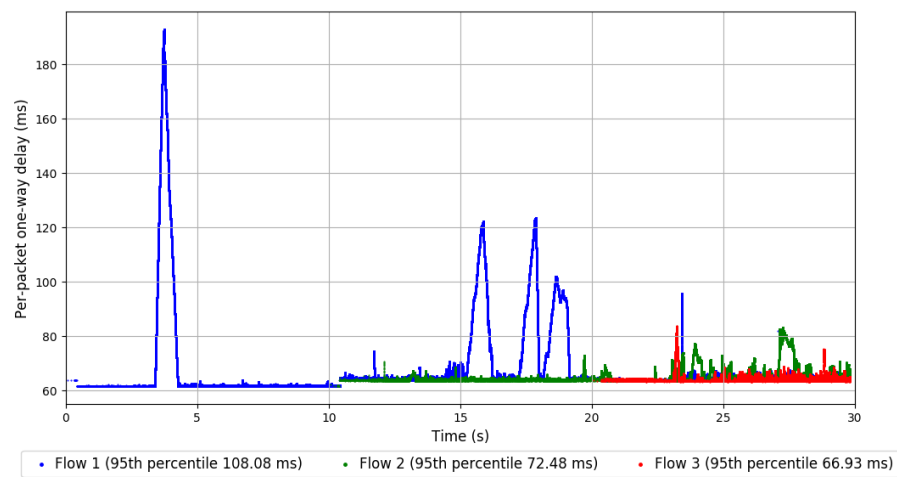
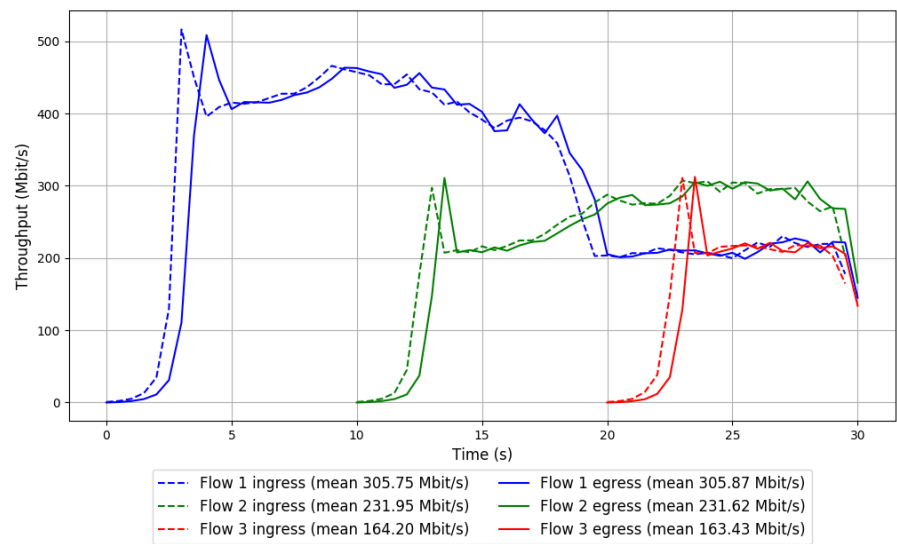


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-01 02:06:27
End at: 2018-06-01 02:06:57
Local clock offset: -0.043 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 513.04 Mbit/s
95th percentile per-packet one-way delay: 94.053 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 305.87 Mbit/s
95th percentile per-packet one-way delay: 108.079 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 231.62 Mbit/s
95th percentile per-packet one-way delay: 72.478 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 163.43 Mbit/s
95th percentile per-packet one-way delay: 66.933 ms
Loss rate: 1.76%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-31 22:37:50

End at: 2018-05-31 22:38:20

Local clock offset: -0.032 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-01 04:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 63.504 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 61.694 ms

Loss rate: 1.02%

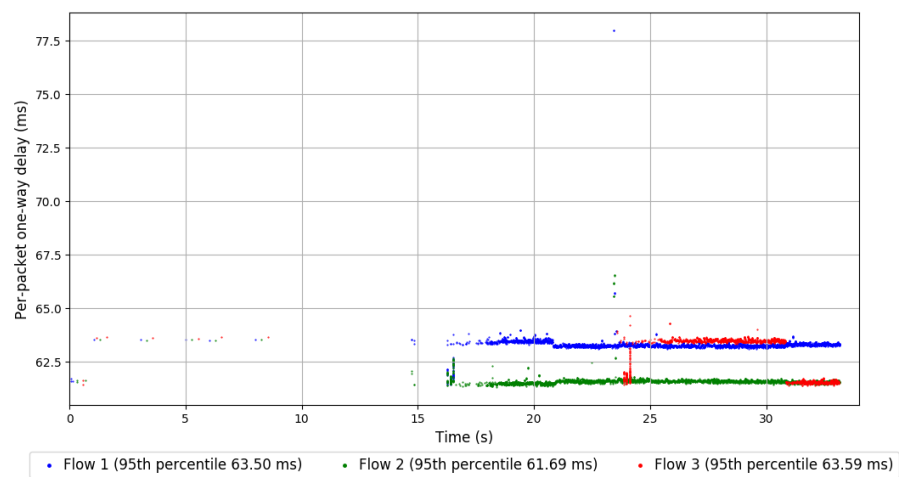
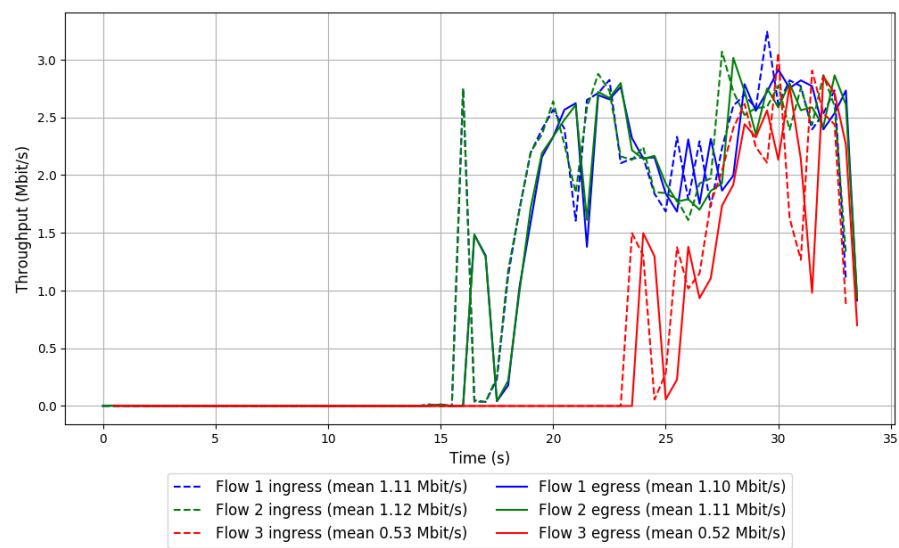
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 63.588 ms

Loss rate: 1.52%

Run 1: Report of WebRTC media — Data Link

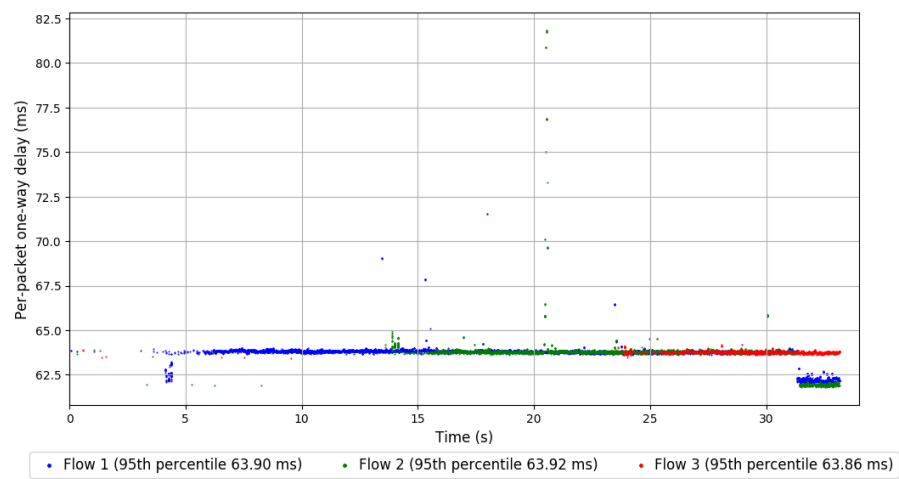
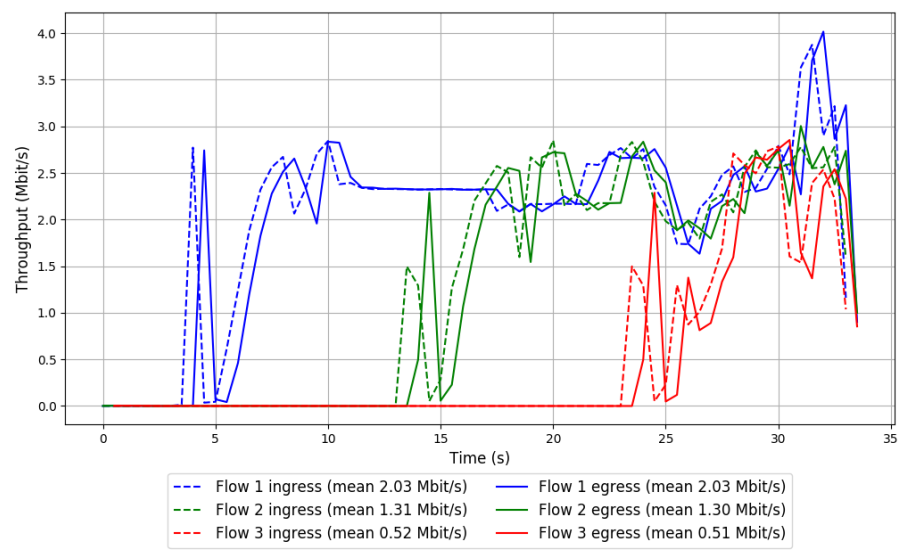


Run 2: Statistics of WebRTC media

Start at: 2018-05-31 23:01:29
End at: 2018-05-31 23:01:59
Local clock offset: -0.034 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 63.895 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.922 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 1.54%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-31 23:24:56

End at: 2018-05-31 23:25:26

Local clock offset: -0.024 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-06-01 04:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 63.449 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.88%

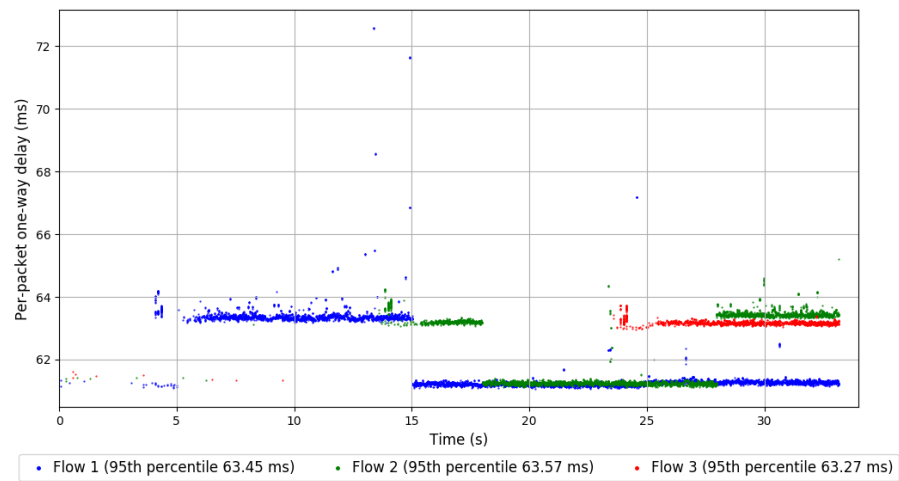
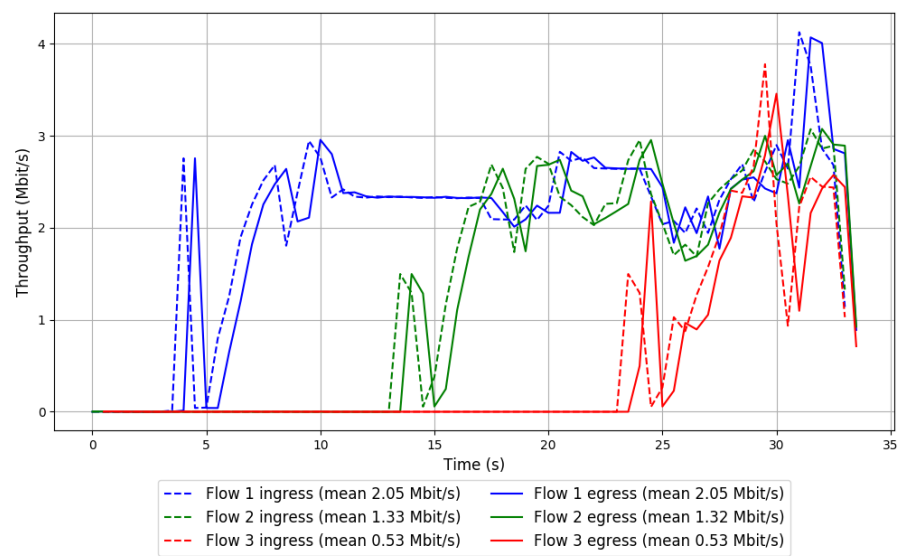
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 63.273 ms

Loss rate: 1.42%

Run 3: Report of WebRTC media — Data Link

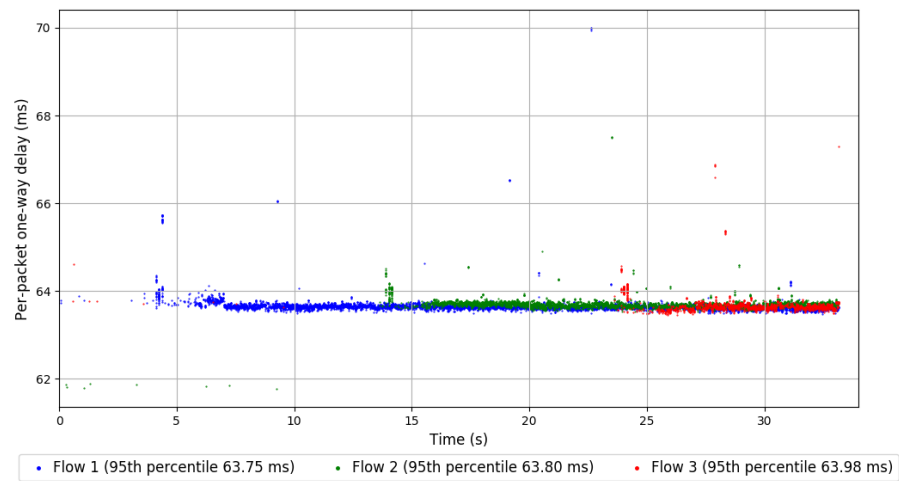
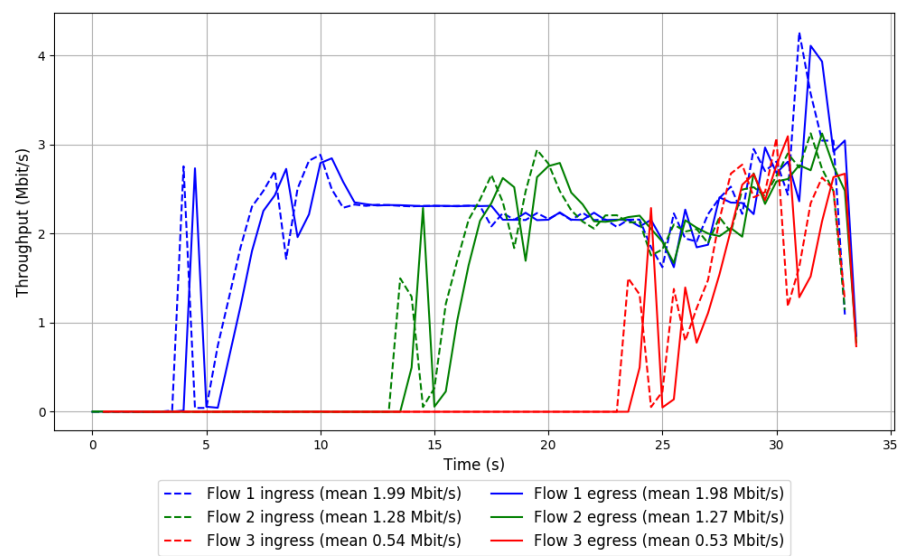


Run 4: Statistics of WebRTC media

Start at: 2018-05-31 23:48:24
End at: 2018-05-31 23:48:54
Local clock offset: 0.008 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 63.783 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 63.747 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 63.799 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.984 ms
Loss rate: 2.06%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-01 00:11:33

End at: 2018-06-01 00:12:03

Local clock offset: -0.039 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-06-01 04:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.97%

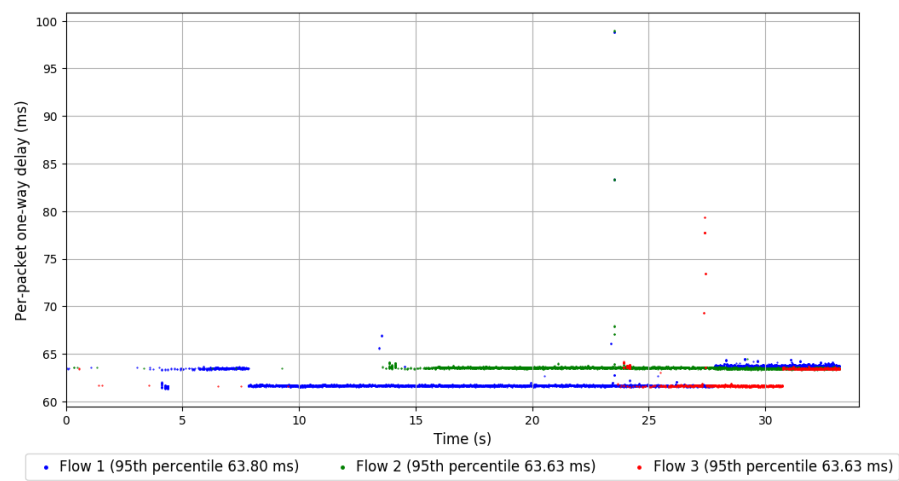
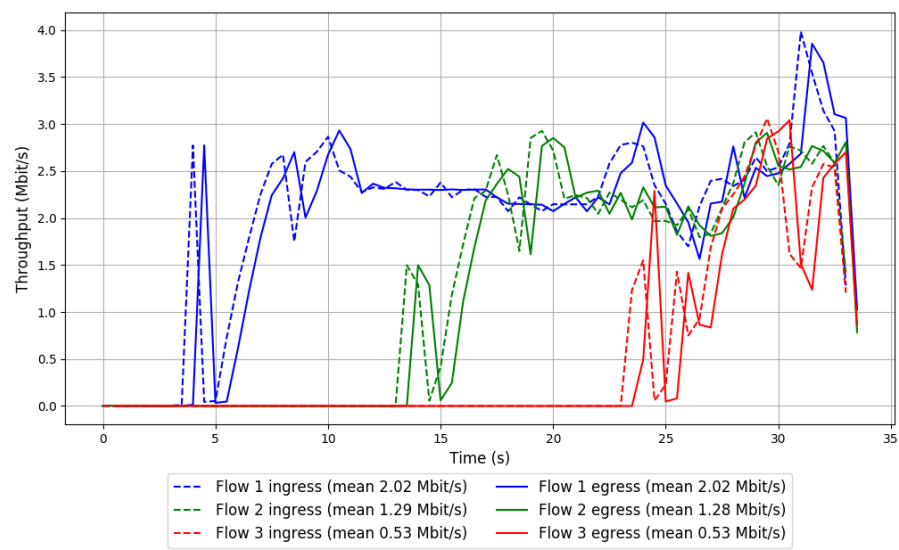
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 1.47%

Run 5: Report of WebRTC media — Data Link

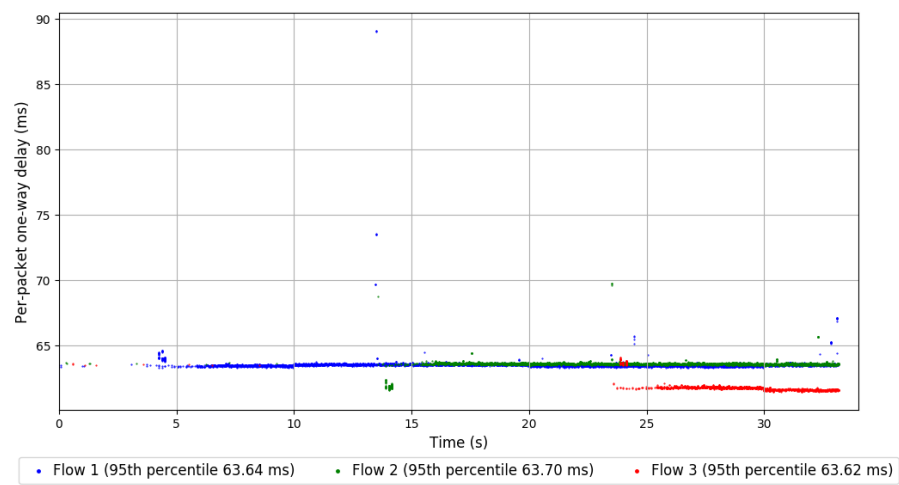
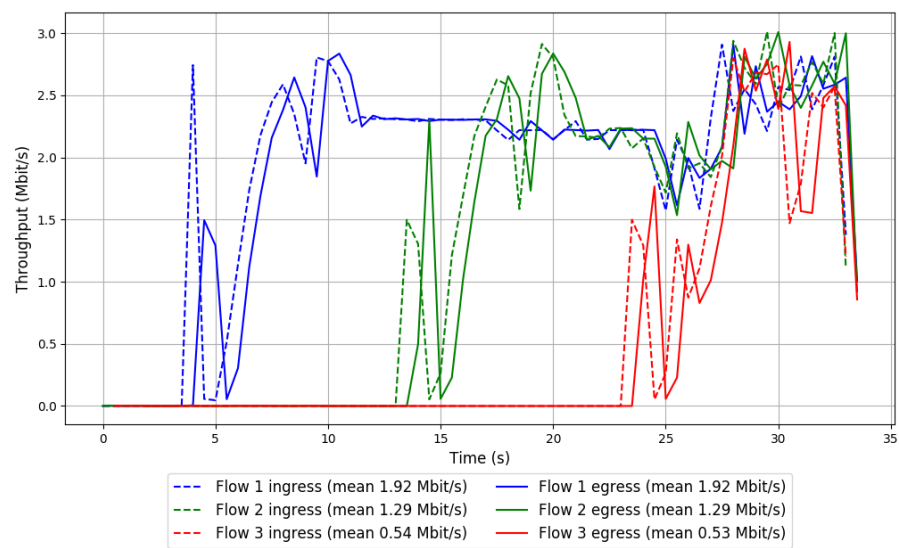


Run 6: Statistics of WebRTC media

Start at: 2018-06-01 00:34:51
End at: 2018-06-01 00:35:21
Local clock offset: -0.036 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 63.679 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 63.698 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.618 ms
Loss rate: 1.94%

Run 6: Report of WebRTC media — Data Link

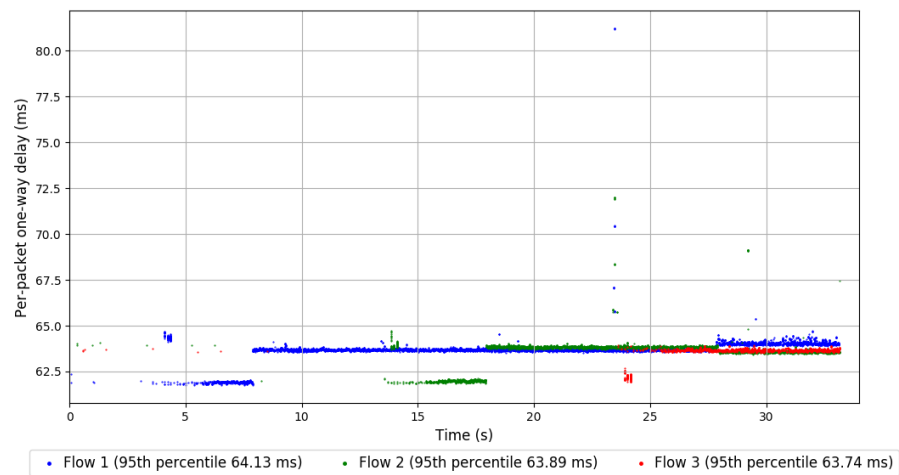
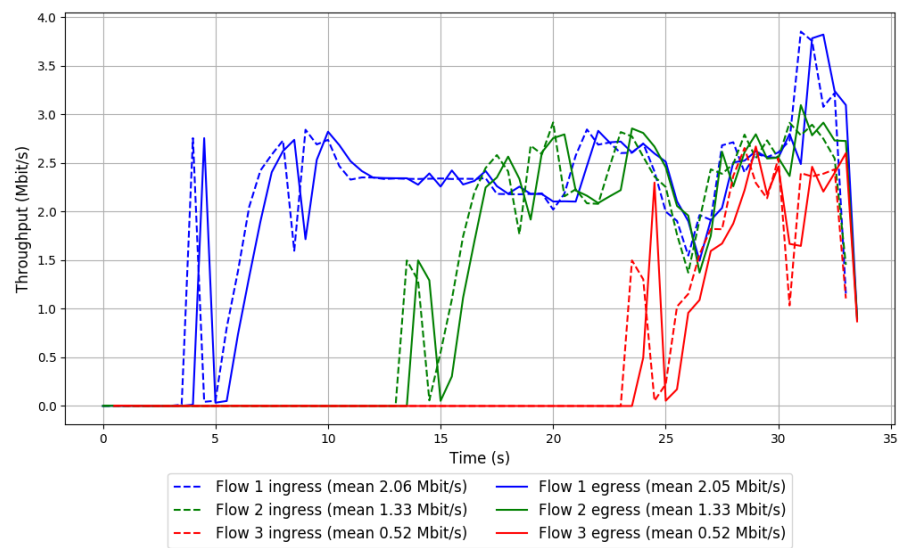


Run 7: Statistics of WebRTC media

Start at: 2018-06-01 00:58:16
End at: 2018-06-01 00:58:46
Local clock offset: -0.03 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 64.055 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 64.132 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 63.891 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 1.72%

Run 7: Report of WebRTC media — Data Link

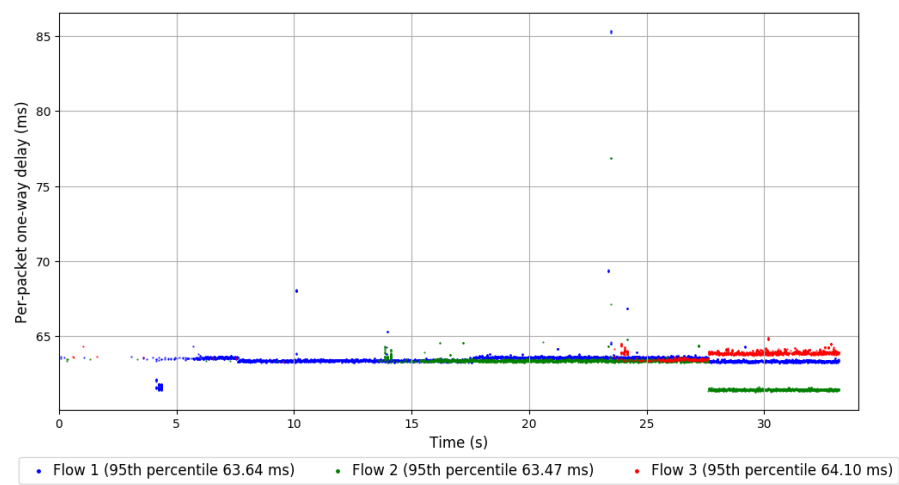
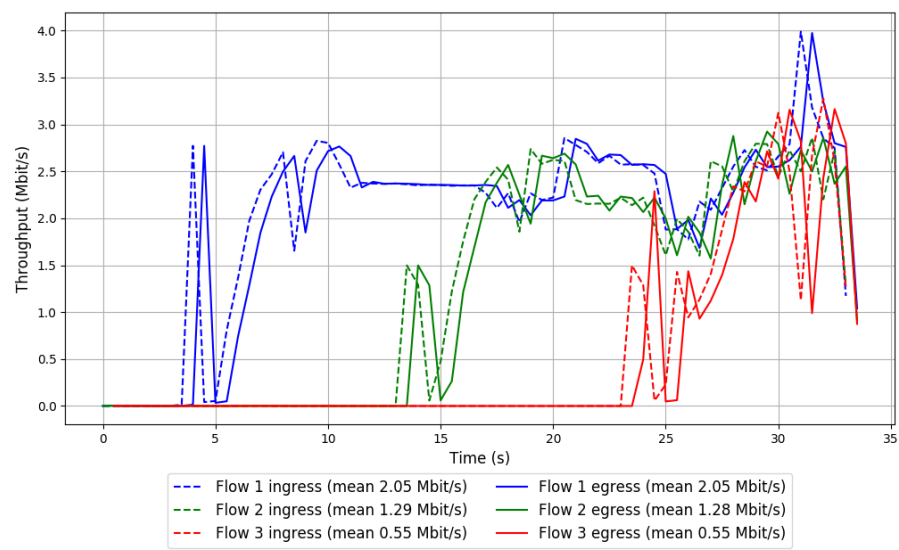


Run 8: Statistics of WebRTC media

Start at: 2018-06-01 01:21:33
End at: 2018-06-01 01:22:03
Local clock offset: 0.121 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 63.909 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 63.642 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 63.466 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 64.104 ms
Loss rate: 1.95%

Run 8: Report of WebRTC media — Data Link

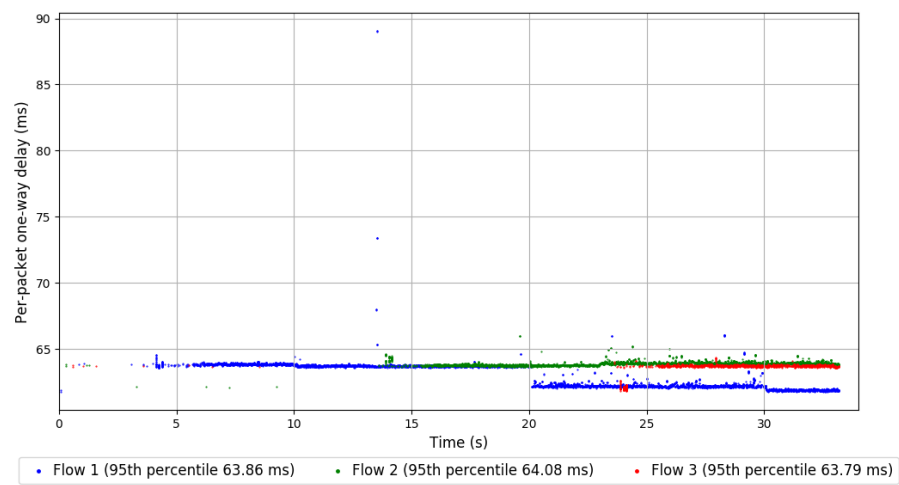
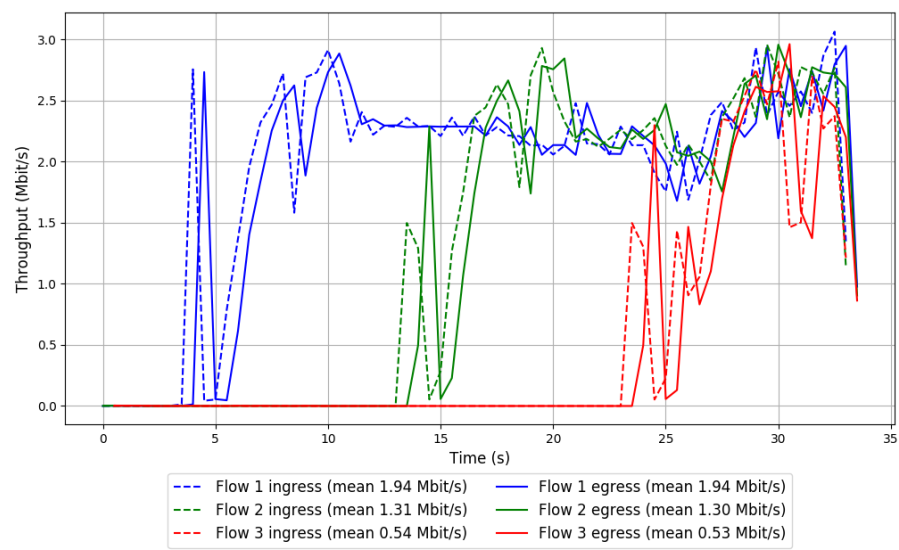


Run 9: Statistics of WebRTC media

Start at: 2018-06-01 01:44:51
End at: 2018-06-01 01:45:21
Local clock offset: 0.101 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-06-01 04:55:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 63.973 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 63.856 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 64.084 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 1.98%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-01 02:08:12

End at: 2018-06-01 02:08:42

Local clock offset: -0.008 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-06-01 04:55:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 63.754 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.88%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 1.97%

Run 10: Report of WebRTC media — Data Link

