

## Pantheon Report

Generated at 2018-05-30 19:54:35 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

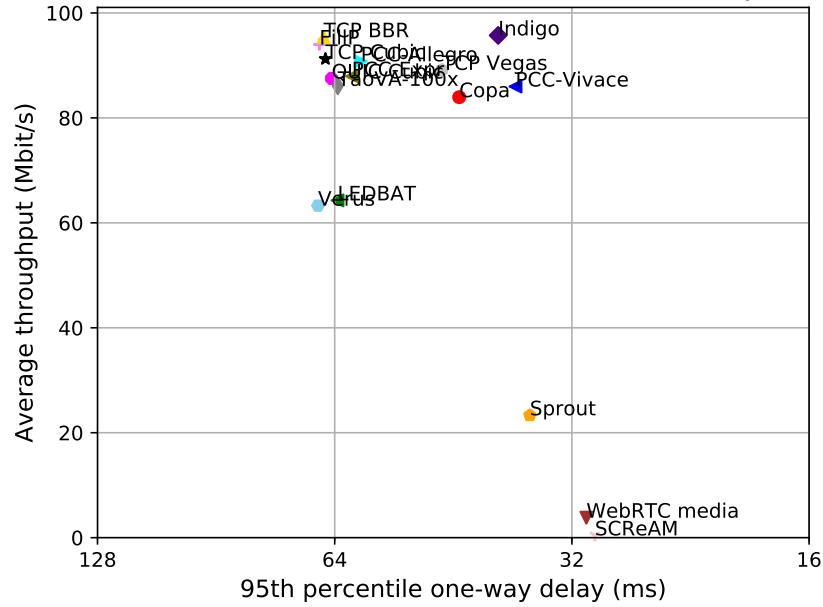
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

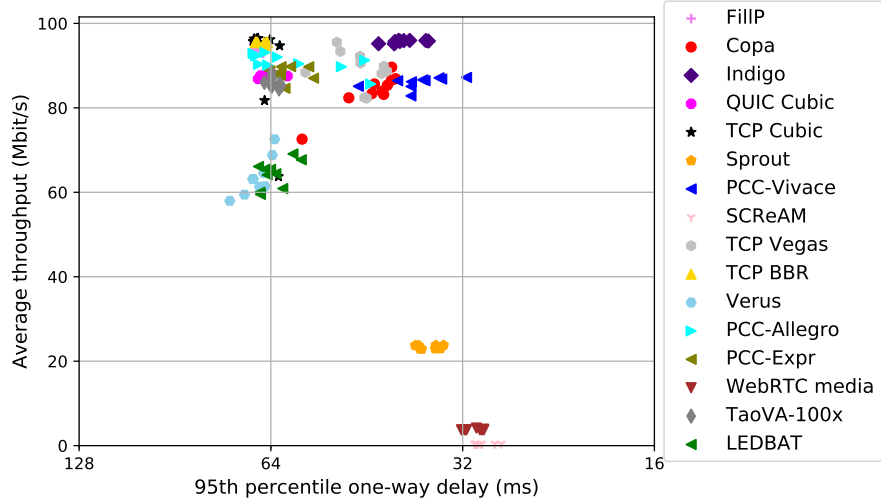
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-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 AWS California 2 to Mexico, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 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	62.25	37.15	25.51	65.57	66.78	66.76	8.05	11.00	11.40
Copa	10	54.54	30.06	28.29	47.59	42.12	39.30	0.66	0.16	0.14
TCP Cubic	10	58.76	35.18	27.22	66.11	64.34	61.89	0.75	0.60	0.47
FillP	10	60.58	36.14	28.36	66.64	67.32	67.48	21.80	32.96	37.01
Indigo	10	67.55	27.05	31.22	38.22	41.26	45.26	0.05	0.05	0.06
LEDBAT	10	42.19	22.46	21.46	62.47	64.65	53.68	0.20	0.25	0.22
PCC-Allegro	10	80.66	11.95	6.59	58.93	60.52	62.18	4.88	6.41	5.97
PCC-Expr	10	66.27	26.78	11.74	59.66	62.18	62.26	1.38	1.40	1.44
QUIC Cubic	10	63.95	25.26	20.68	64.32	64.89	64.46	1.93	1.16	1.07
SCReAM	10	0.22	0.22	0.22	29.66	29.80	29.73	0.00	0.00	0.08
Sprout	10	11.87	11.45	11.62	35.97	36.23	36.65	0.01	0.06	0.08
TaoVA-100x	10	50.46	37.91	31.37	61.07	64.27	65.45	14.11	24.42	18.16
TCP Vegas	10	57.05	28.36	39.71	46.85	42.17	38.76	0.57	0.24	0.45
Verus	10	39.36	26.86	21.10	66.50	67.30	65.05	34.03	44.53	41.68
PCC-Vivace	10	66.90	22.69	12.09	37.09	40.06	40.26	0.05	0.09	0.10
WebRTC media	10	2.02	1.33	0.47	30.24	30.55	32.02	0.01	0.03	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 15:51:29

End at: 2018-05-30 15:51:59

Local clock offset: 0.906 ms

Remote clock offset: -1.06 ms

# Below is generated by plot.py at 2018-05-30 19:31:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.63 Mbit/s

95th percentile per-packet one-way delay: 67.576 ms

Loss rate: 9.56%

-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 66.994 ms

Loss rate: 8.33%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 68.358 ms

Loss rate: 11.57%

-- Flow 3:

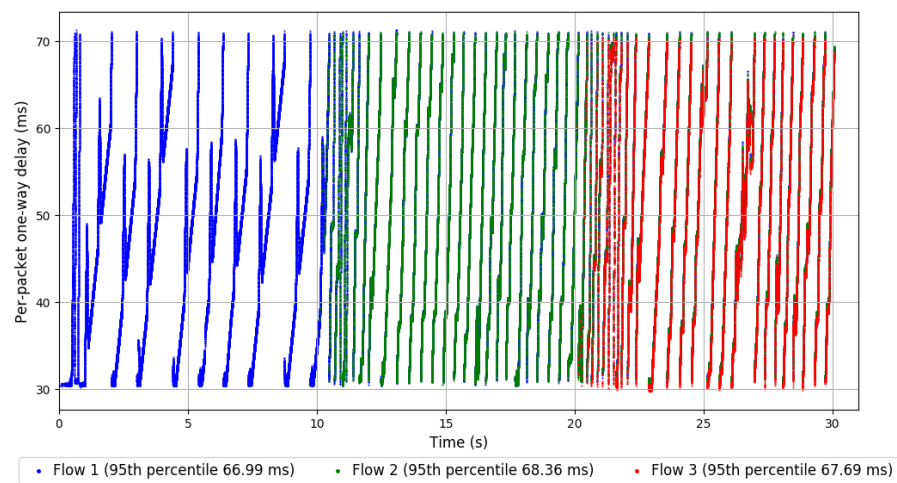
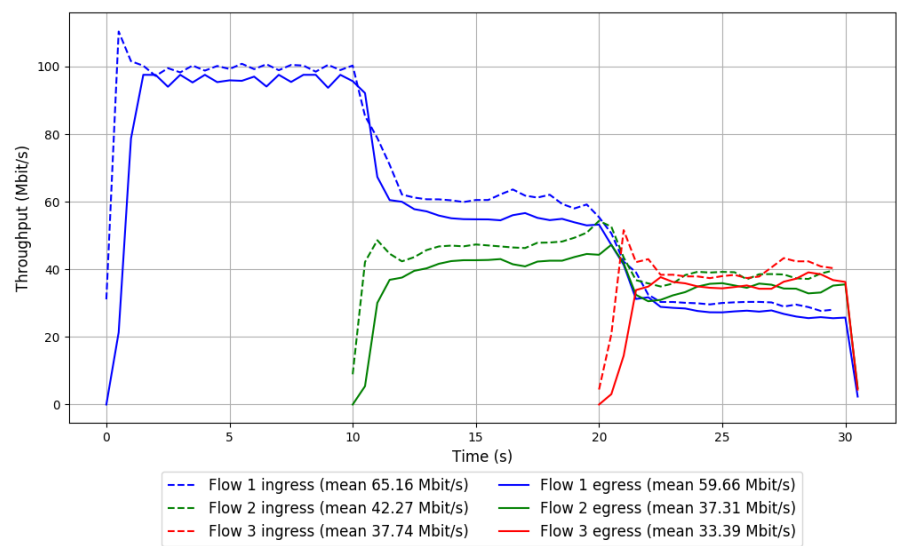
Average throughput: 33.39 Mbit/s

95th percentile per-packet one-way delay: 67.695 ms

Loss rate: 11.46%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-30 16:12:59

End at: 2018-05-30 16:13:29

Local clock offset: 0.861 ms

Remote clock offset: -2.94 ms

# Below is generated by plot.py at 2018-05-30 19:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 65.596 ms

Loss rate: 9.29%

-- Flow 1:

Average throughput: 65.59 Mbit/s

95th percentile per-packet one-way delay: 65.226 ms

Loss rate: 8.37%

-- Flow 2:

Average throughput: 35.29 Mbit/s

95th percentile per-packet one-way delay: 66.195 ms

Loss rate: 11.39%

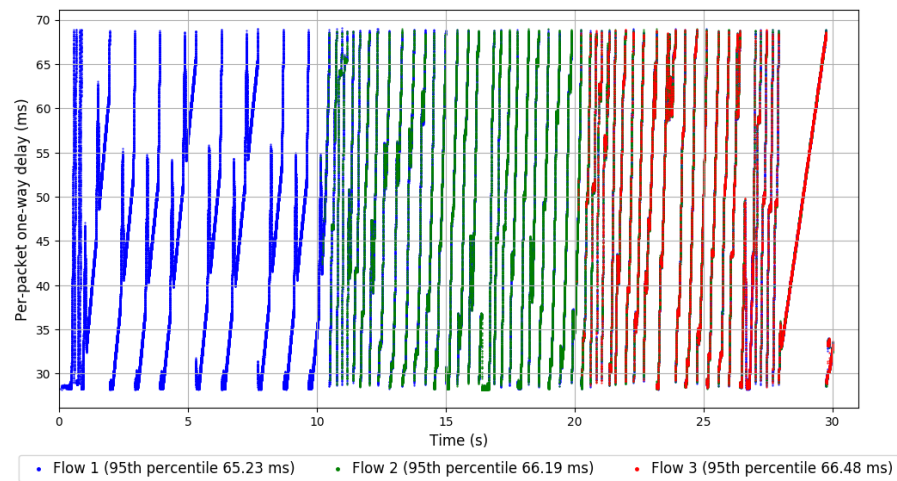
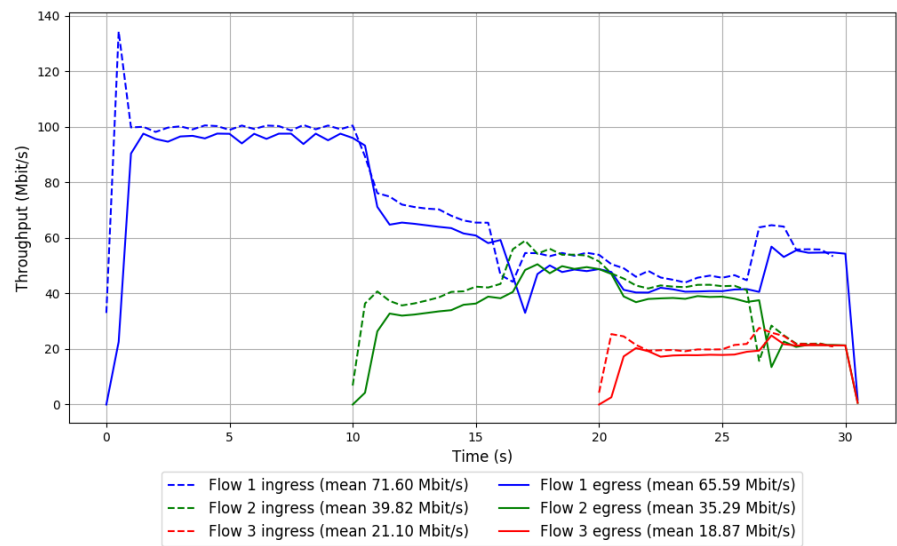
-- Flow 3:

Average throughput: 18.87 Mbit/s

95th percentile per-packet one-way delay: 66.479 ms

Loss rate: 10.66%

Run 2: Report of TCP BBR — Data Link

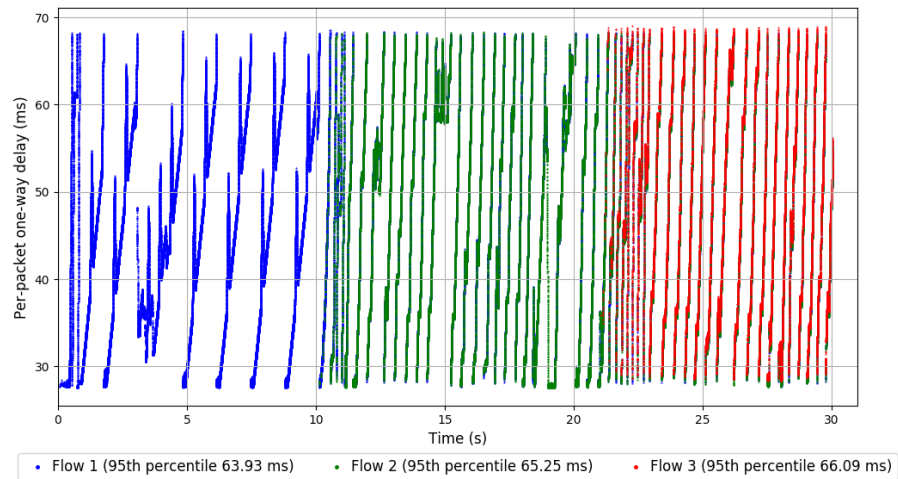
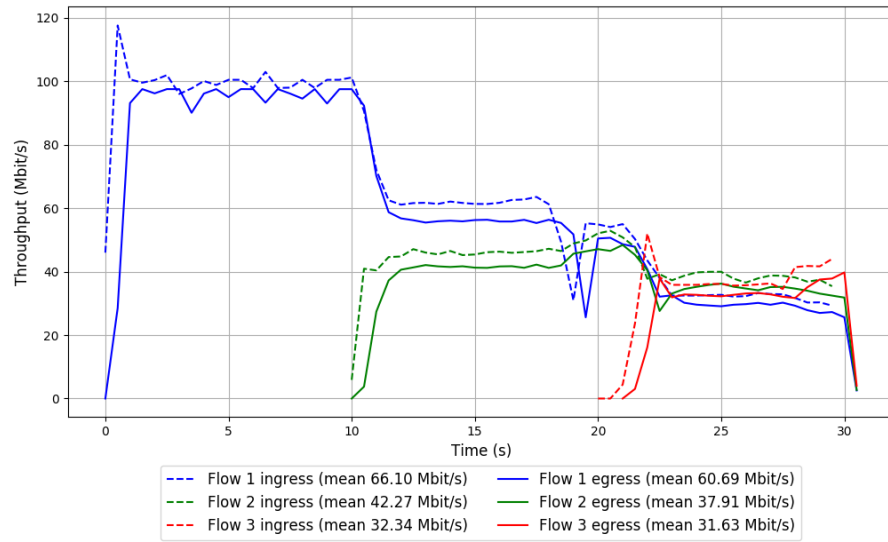


Run 3: Statistics of TCP BBR

Start at: 2018-05-30 16:34:37  
End at: 2018-05-30 16:35:08  
Local clock offset: 0.785 ms  
Remote clock offset: -2.512 ms

# Below is generated by plot.py at 2018-05-30 19:31:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.39 Mbit/s  
95th percentile per-packet one-way delay: 64.780 ms  
Loss rate: 9.08%  
-- Flow 1:  
Average throughput: 60.69 Mbit/s  
95th percentile per-packet one-way delay: 63.928 ms  
Loss rate: 8.11%  
-- Flow 2:  
Average throughput: 37.91 Mbit/s  
95th percentile per-packet one-way delay: 65.253 ms  
Loss rate: 10.32%  
-- Flow 3:  
Average throughput: 31.63 Mbit/s  
95th percentile per-packet one-way delay: 66.094 ms  
Loss rate: 11.80%

### Run 3: Report of TCP BBR — Data Link

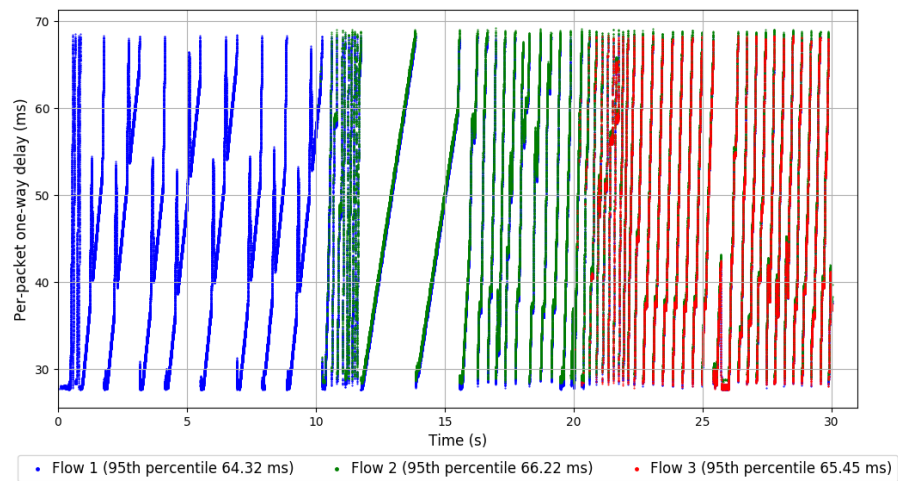
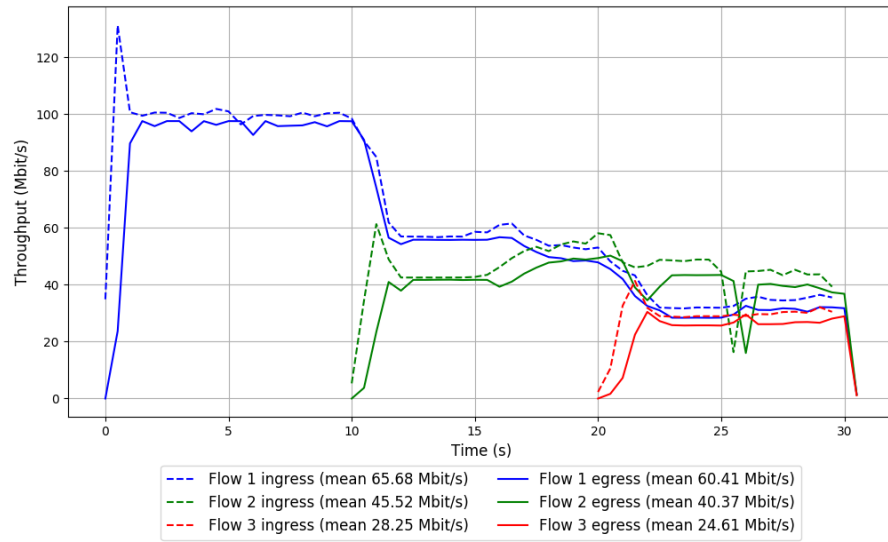


Run 4: Statistics of TCP BBR

Start at: 2018-05-30 16:56:06  
End at: 2018-05-30 16:56:36  
Local clock offset: 0.283 ms  
Remote clock offset: -1.864 ms

# Below is generated by plot.py at 2018-05-30 19:31:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.44 Mbit/s  
95th percentile per-packet one-way delay: 65.028 ms  
Loss rate: 9.41%  
-- Flow 1:  
Average throughput: 60.41 Mbit/s  
95th percentile per-packet one-way delay: 64.322 ms  
Loss rate: 7.99%  
-- Flow 2:  
Average throughput: 40.37 Mbit/s  
95th percentile per-packet one-way delay: 66.218 ms  
Loss rate: 11.40%  
-- Flow 3:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 65.454 ms  
Loss rate: 12.86%

# Run 4: Report of TCP BBR — Data Link



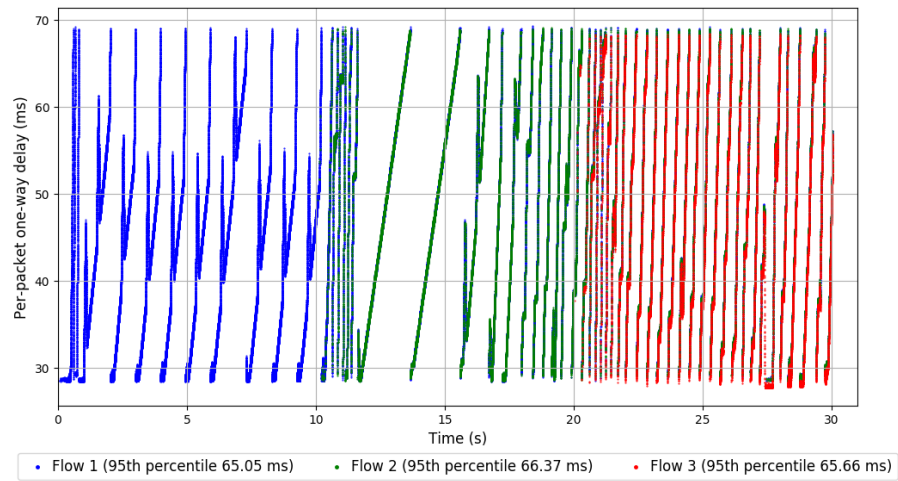
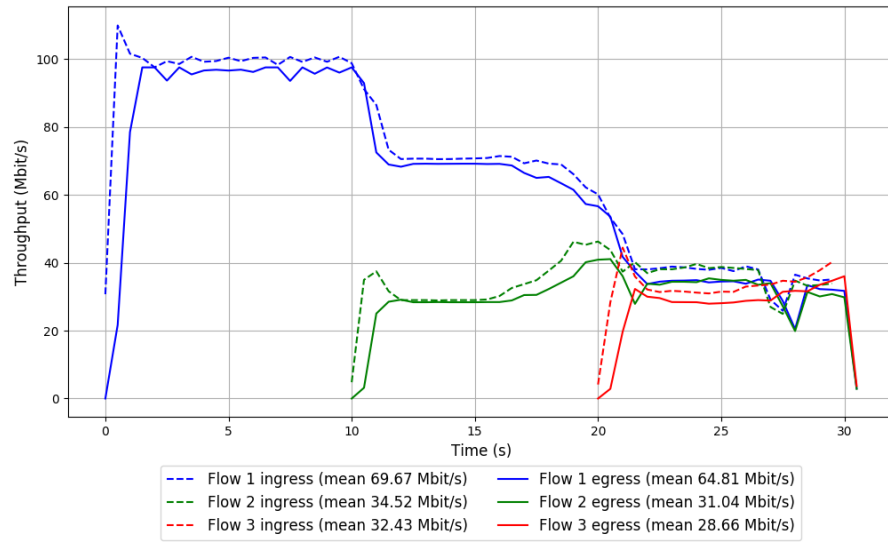
Run 5: Statistics of TCP BBR

Start at: 2018-05-30 17:19:26  
End at: 2018-05-30 17:19:56  
Local clock offset: 0.091 ms  
Remote clock offset: -1.718 ms

# Below is generated by plot.py at 2018-05-30 19:31:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.03 Mbit/s  
95th percentile per-packet one-way delay: 65.514 ms  
Loss rate: 8.06%  
-- Flow 1:  
Average throughput: 64.81 Mbit/s  
95th percentile per-packet one-way delay: 65.051 ms  
Loss rate: 6.88%  
-- Flow 2:  
Average throughput: 31.04 Mbit/s  
95th percentile per-packet one-way delay: 66.369 ms  
Loss rate: 10.04%  
-- Flow 3:  
Average throughput: 28.66 Mbit/s  
95th percentile per-packet one-way delay: 65.661 ms  
Loss rate: 11.44%



# Run 5: Report of TCP BBR — Data Link

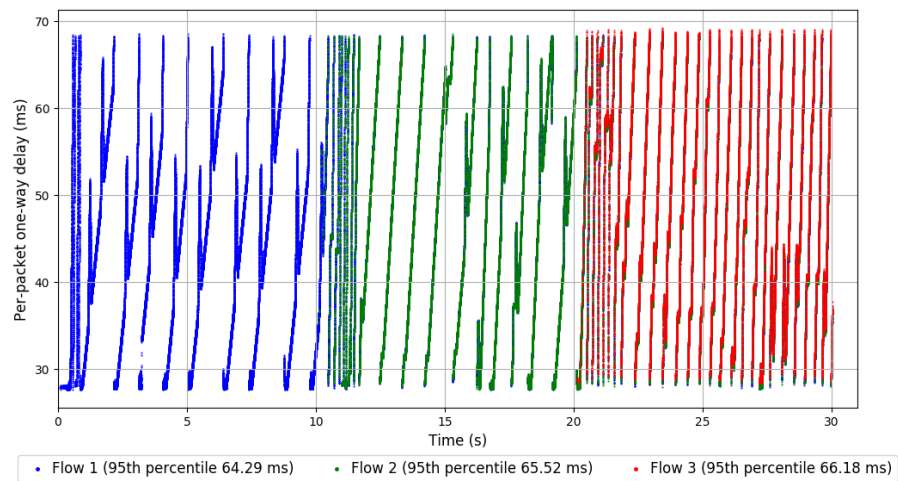
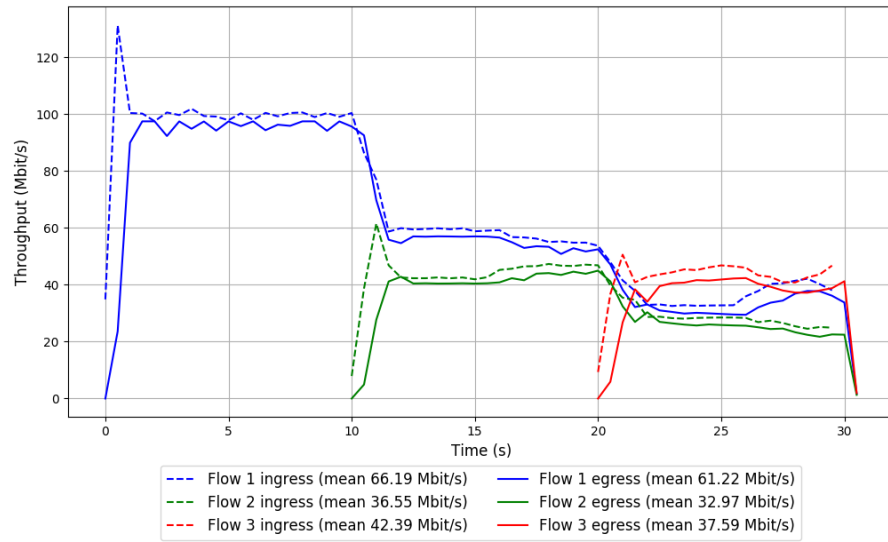


Run 6: Statistics of TCP BBR

Start at: 2018-05-30 17:44:05  
End at: 2018-05-30 17:44:35  
Local clock offset: 0.303 ms  
Remote clock offset: -2.061 ms

# Below is generated by plot.py at 2018-05-30 19:31:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.65 Mbit/s  
95th percentile per-packet one-way delay: 64.971 ms  
Loss rate: 8.57%  
-- Flow 1:  
Average throughput: 61.22 Mbit/s  
95th percentile per-packet one-way delay: 64.289 ms  
Loss rate: 7.49%  
-- Flow 2:  
Average throughput: 32.97 Mbit/s  
95th percentile per-packet one-way delay: 65.524 ms  
Loss rate: 9.78%  
-- Flow 3:  
Average throughput: 37.59 Mbit/s  
95th percentile per-packet one-way delay: 66.181 ms  
Loss rate: 11.55%

## Run 6: Report of TCP BBR — Data Link

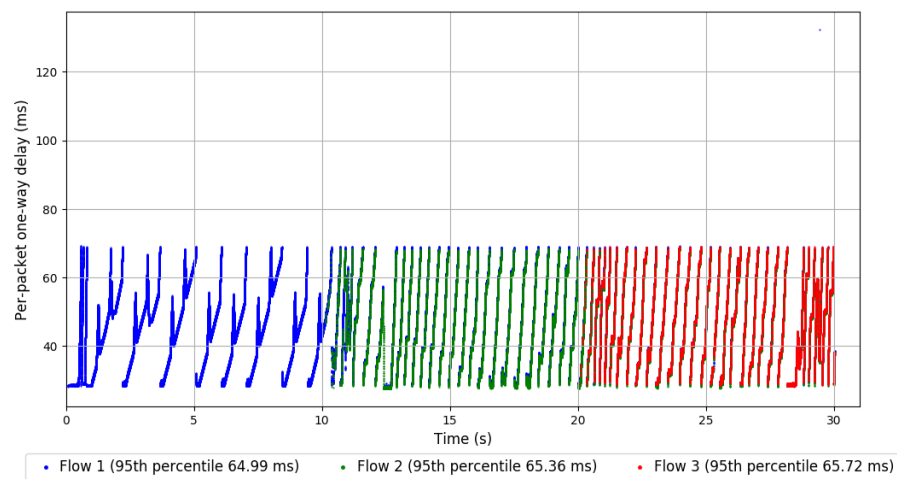
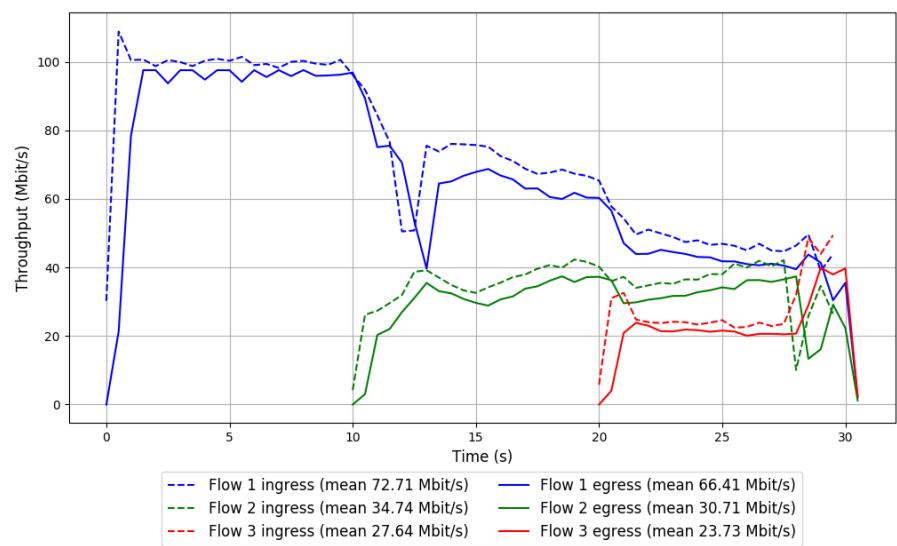


Run 7: Statistics of TCP BBR

Start at: 2018-05-30 18:05:58  
End at: 2018-05-30 18:06:28  
Local clock offset: 0.706 ms  
Remote clock offset: -2.042 ms

# Below is generated by plot.py at 2018-05-30 19:31:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.75 Mbit/s  
95th percentile per-packet one-way delay: 65.140 ms  
Loss rate: 9.77%  
-- Flow 1:  
Average throughput: 66.41 Mbit/s  
95th percentile per-packet one-way delay: 64.986 ms  
Loss rate: 8.63%  
-- Flow 2:  
Average throughput: 30.71 Mbit/s  
95th percentile per-packet one-way delay: 65.364 ms  
Loss rate: 11.63%  
-- Flow 3:  
Average throughput: 23.73 Mbit/s  
95th percentile per-packet one-way delay: 65.723 ms  
Loss rate: 14.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 18:27:28

End at: 2018-05-30 18:27:58

Local clock offset: 0.693 ms

Remote clock offset: 0.85 ms

# Below is generated by plot.py at 2018-05-30 19:31:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 67.705 ms

Loss rate: 9.29%

-- Flow 1:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 67.128 ms

Loss rate: 8.07%

-- Flow 2:

Average throughput: 46.57 Mbit/s

95th percentile per-packet one-way delay: 68.369 ms

Loss rate: 11.44%

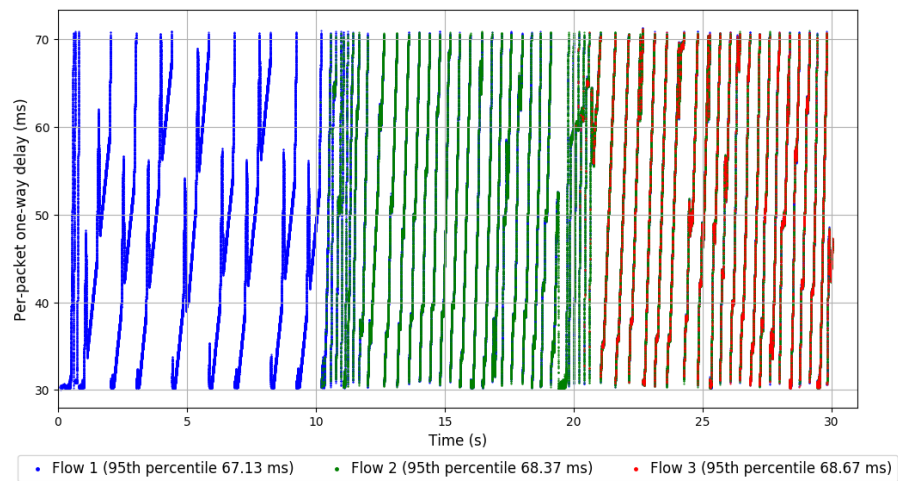
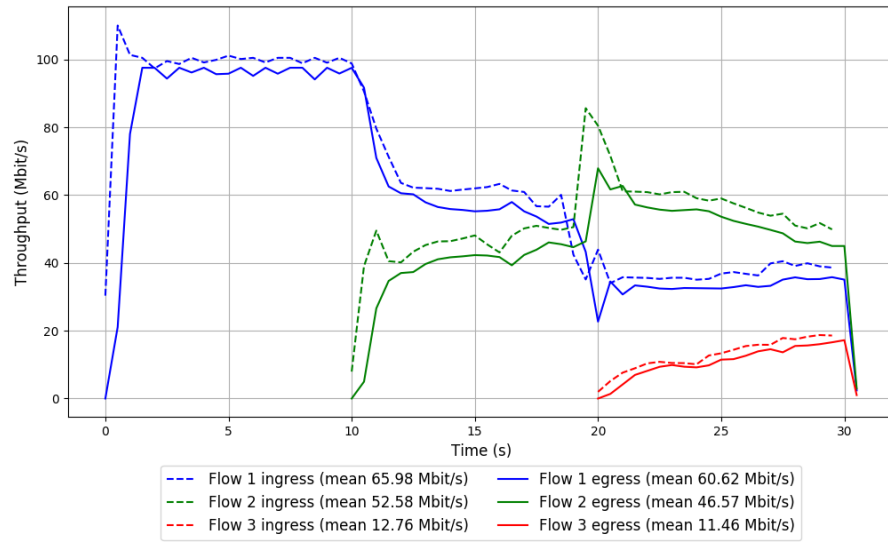
-- Flow 3:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 68.673 ms

Loss rate: 10.35%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 18:48:57

End at: 2018-05-30 18:49:27

Local clock offset: 0.588 ms

Remote clock offset: 1.198 ms

# Below is generated by plot.py at 2018-05-30 19:32:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.49 Mbit/s

95th percentile per-packet one-way delay: 67.541 ms

Loss rate: 9.36%

-- Flow 1:

Average throughput: 63.05 Mbit/s

95th percentile per-packet one-way delay: 67.316 ms

Loss rate: 8.43%

-- Flow 2:

Average throughput: 43.84 Mbit/s

95th percentile per-packet one-way delay: 67.790 ms

Loss rate: 11.32%

-- Flow 3:

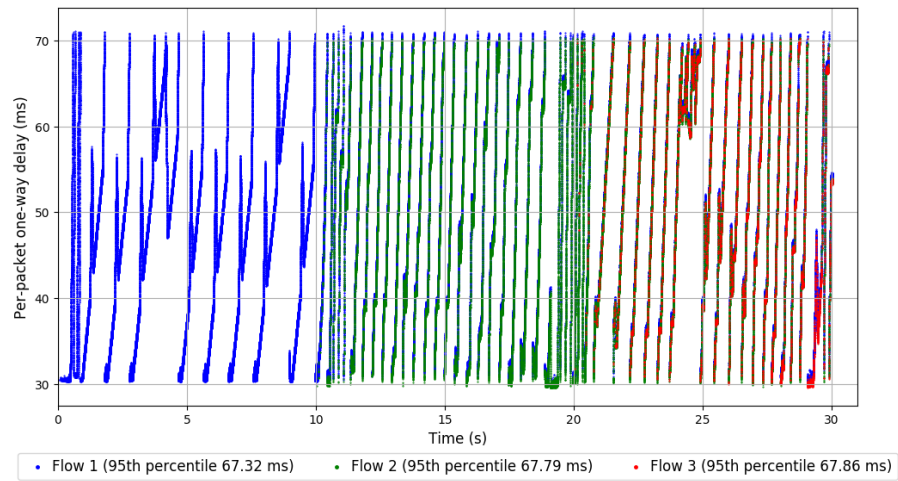
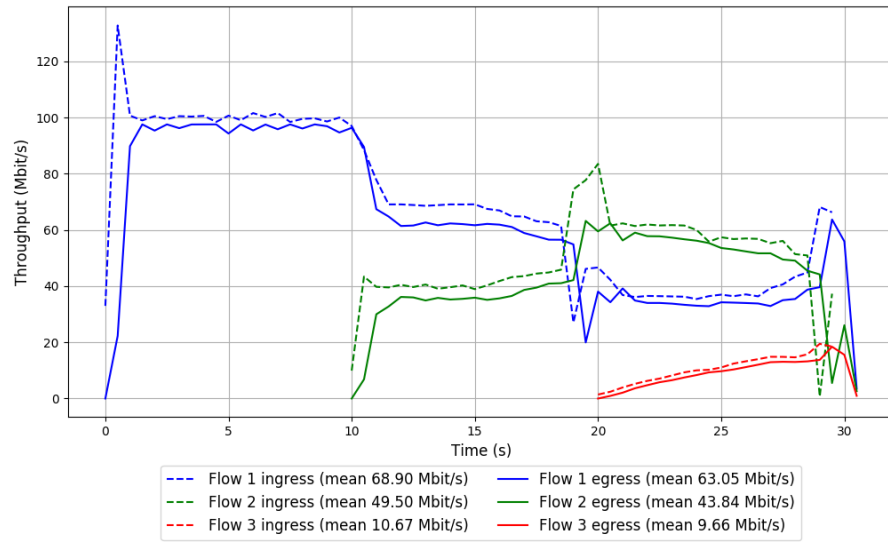
Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 67.861 ms

Loss rate: 9.30%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-30 19:10:28

End at: 2018-05-30 19:10:58

Local clock offset: 0.368 ms

Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-05-30 19:32:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 67.208 ms

Loss rate: 9.23%

-- Flow 1:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 66.417 ms

Loss rate: 8.22%

-- Flow 2:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 68.333 ms

Loss rate: 11.08%

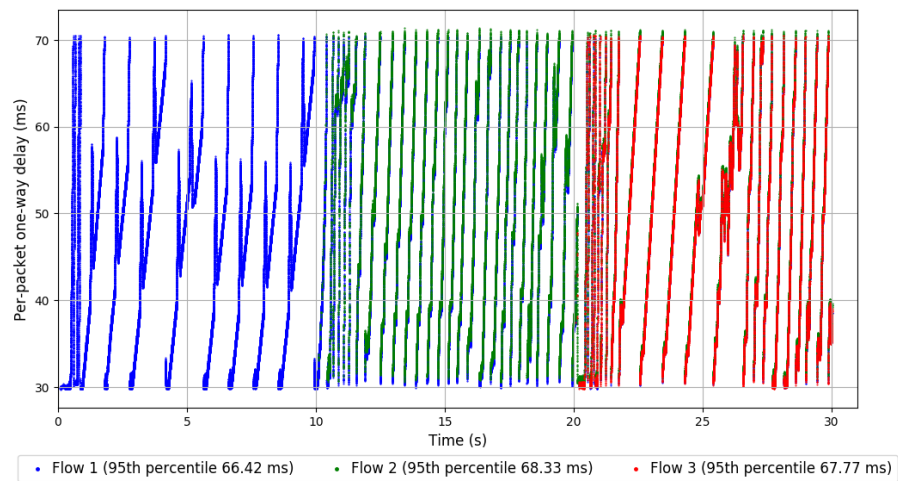
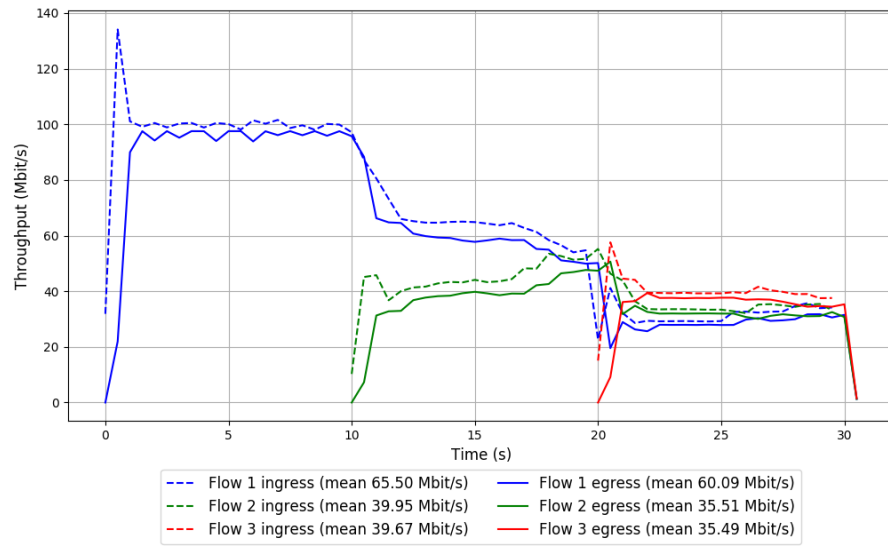
-- Flow 3:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 67.773 ms

Loss rate: 10.52%

# Run 10: Report of TCP BBR — Data Link

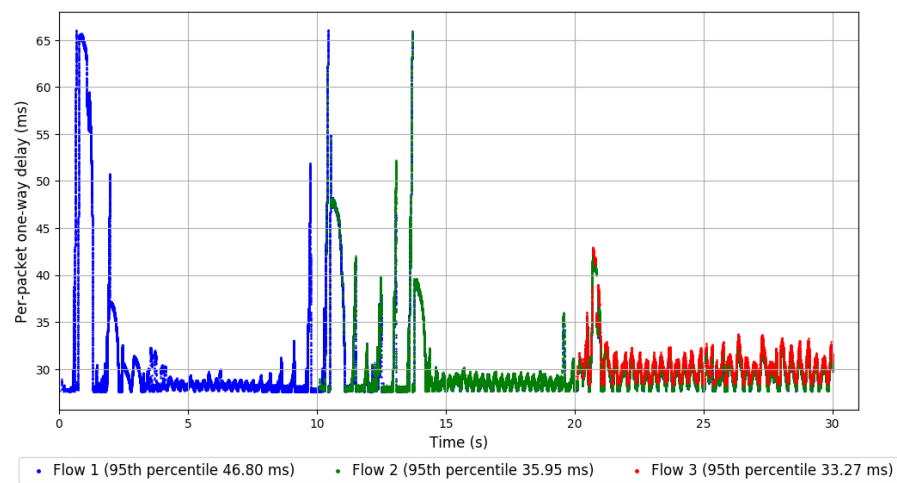
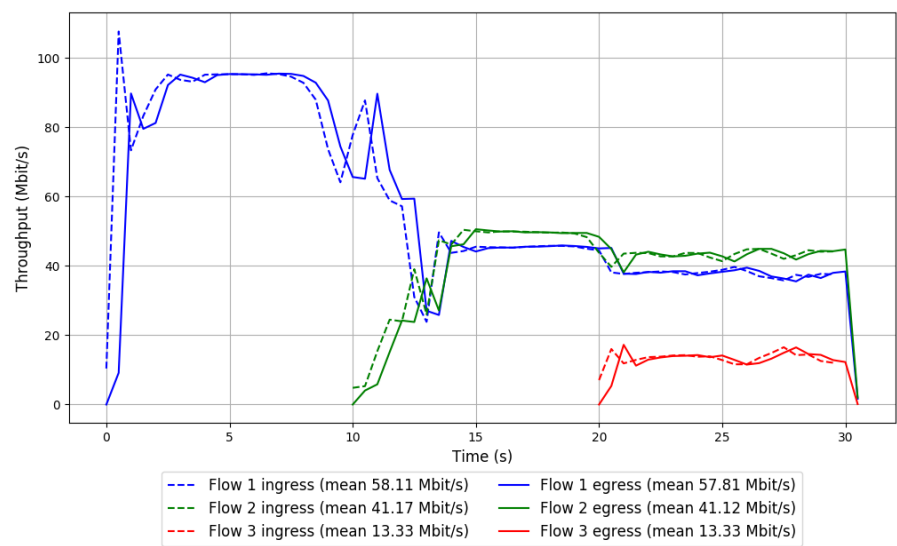


Run 1: Statistics of Copa

Start at: 2018-05-30 15:55:36  
End at: 2018-05-30 15:56:06  
Local clock offset: 0.863 ms  
Remote clock offset: -3.159 ms

# Below is generated by plot.py at 2018-05-30 19:33:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.64 Mbit/s  
95th percentile per-packet one-way delay: 41.354 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 46.797 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 41.12 Mbit/s  
95th percentile per-packet one-way delay: 35.948 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 13.33 Mbit/s  
95th percentile per-packet one-way delay: 33.273 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

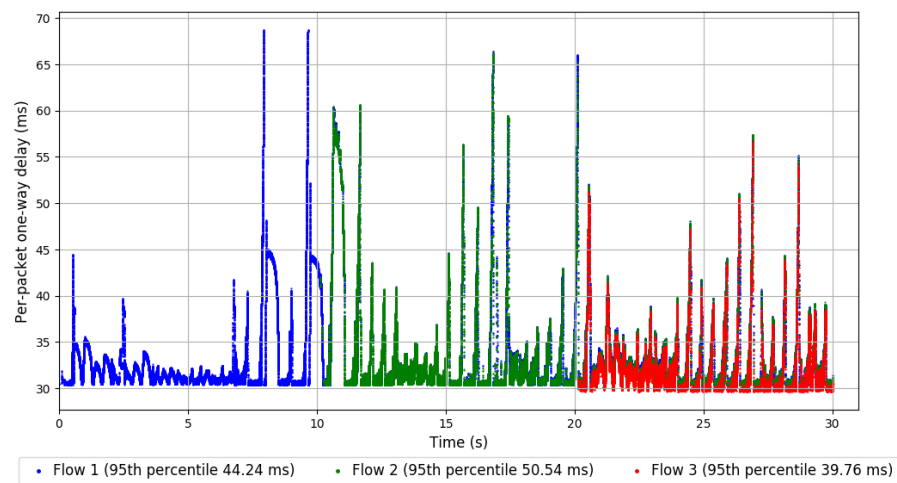
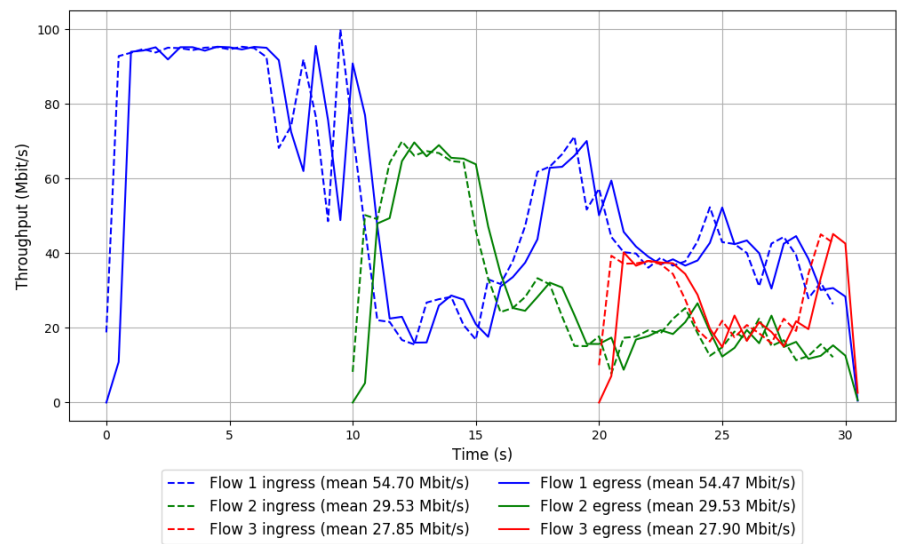


Run 2: Statistics of Copa

Start at: 2018-05-30 16:17:06  
End at: 2018-05-30 16:17:36  
Local clock offset: 0.776 ms  
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2018-05-30 19:33:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.38 Mbit/s  
95th percentile per-packet one-way delay: 44.413 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 54.47 Mbit/s  
95th percentile per-packet one-way delay: 44.236 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 29.53 Mbit/s  
95th percentile per-packet one-way delay: 50.543 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 27.90 Mbit/s  
95th percentile per-packet one-way delay: 39.756 ms  
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



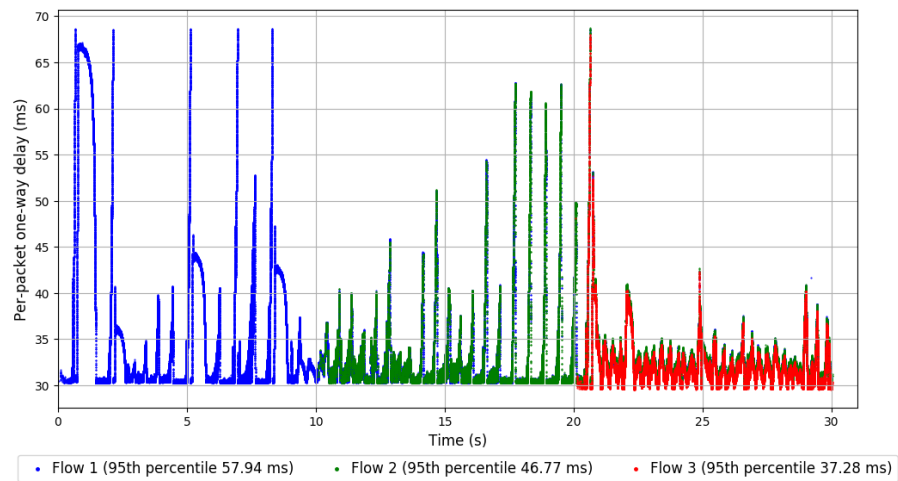
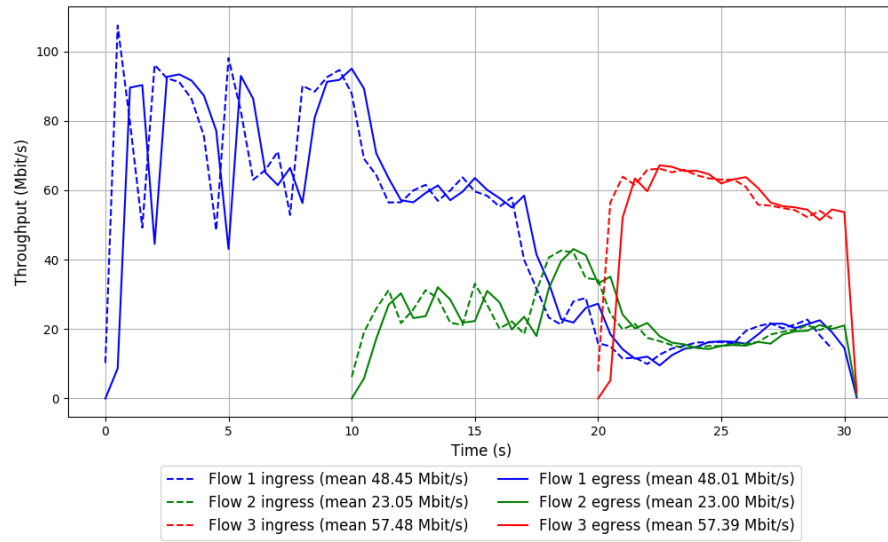
Run 3: Statistics of Copa

Start at: 2018-05-30 16:38:44  
End at: 2018-05-30 16:39:14  
Local clock offset: 0.703 ms  
Remote clock offset: -0.389 ms

# Below is generated by plot.py at 2018-05-30 19:33:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.38 Mbit/s  
95th percentile per-packet one-way delay: 48.286 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 48.01 Mbit/s  
95th percentile per-packet one-way delay: 57.938 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 23.00 Mbit/s  
95th percentile per-packet one-way delay: 46.770 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 57.39 Mbit/s  
95th percentile per-packet one-way delay: 37.284 ms  
Loss rate: 0.35%



### Run 3: Report of Copa — Data Link

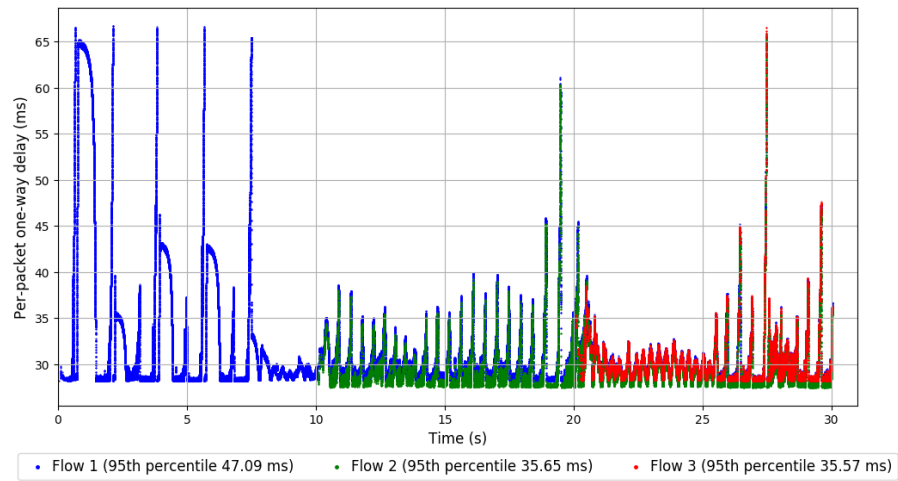
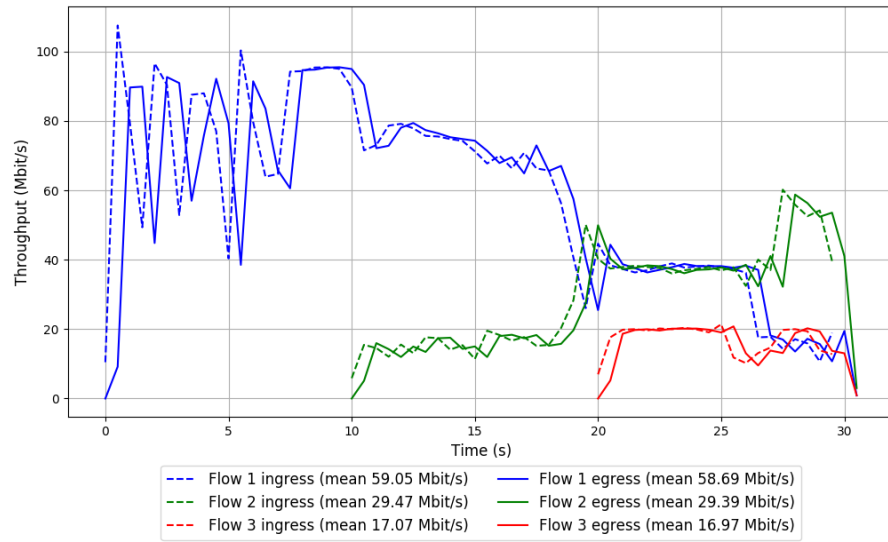


Run 4: Statistics of Copa

Start at: 2018-05-30 17:00:13  
End at: 2018-05-30 17:00:43  
Local clock offset: 0.326 ms  
Remote clock offset: -1.771 ms

# Below is generated by plot.py at 2018-05-30 19:33:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.92 Mbit/s  
95th percentile per-packet one-way delay: 42.832 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 58.69 Mbit/s  
95th percentile per-packet one-way delay: 47.086 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 29.39 Mbit/s  
95th percentile per-packet one-way delay: 35.650 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 16.97 Mbit/s  
95th percentile per-packet one-way delay: 35.572 ms  
Loss rate: 0.50%

# Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-30 17:24:35

End at: 2018-05-30 17:25:05

Local clock offset: 0.129 ms

Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2018-05-30 19:33:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 44.007 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 62.48 Mbit/s

95th percentile per-packet one-way delay: 45.238 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 36.979 ms

Loss rate: 0.07%

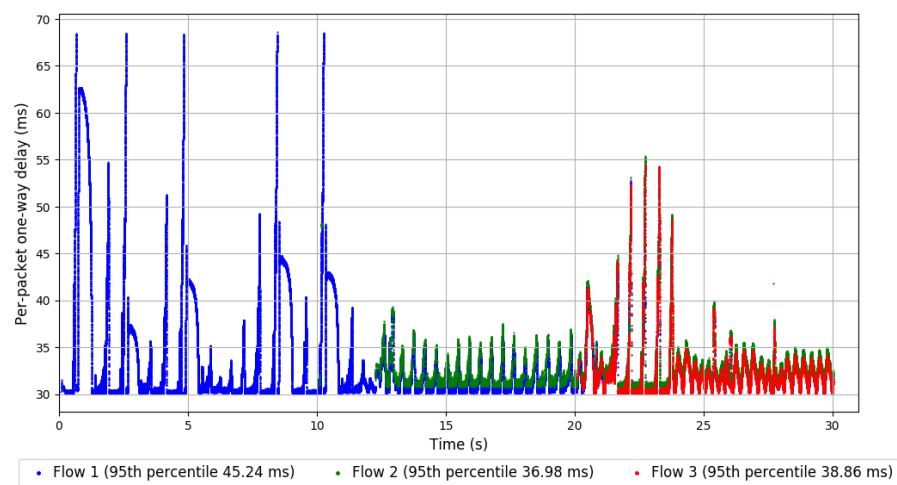
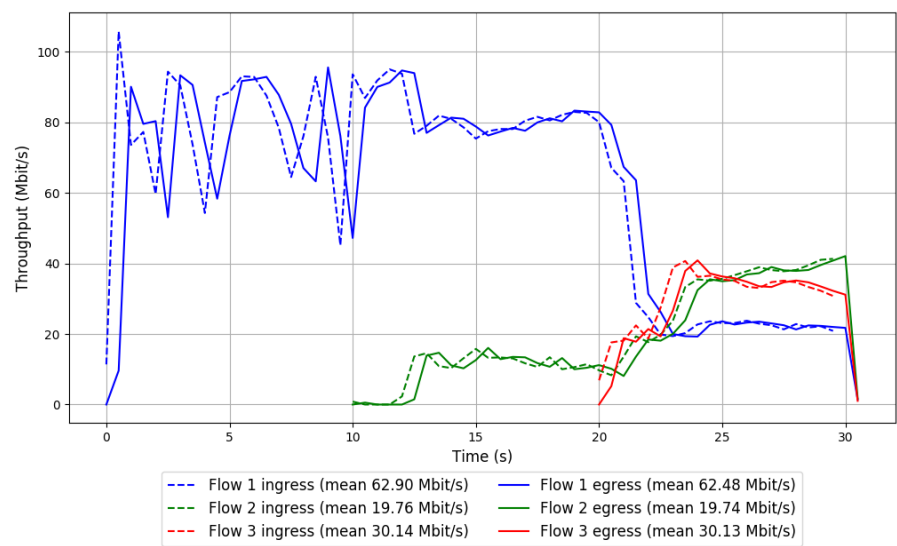
-- Flow 3:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 38.858 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

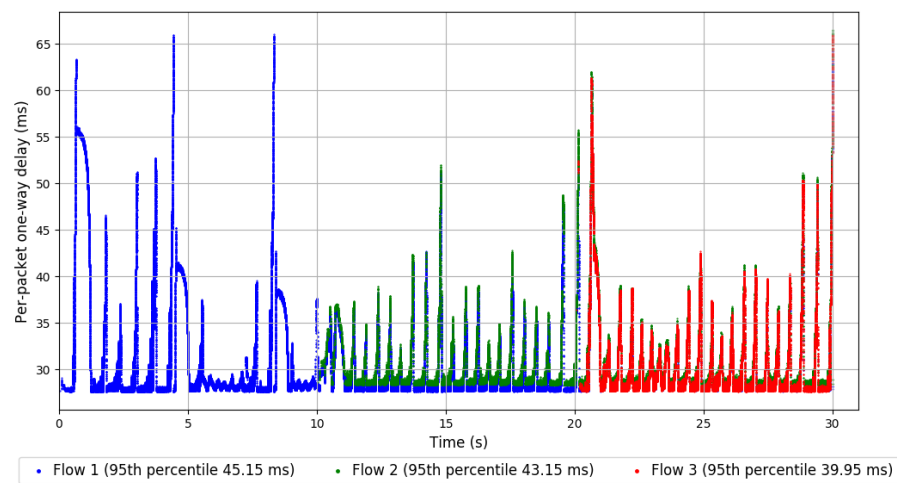
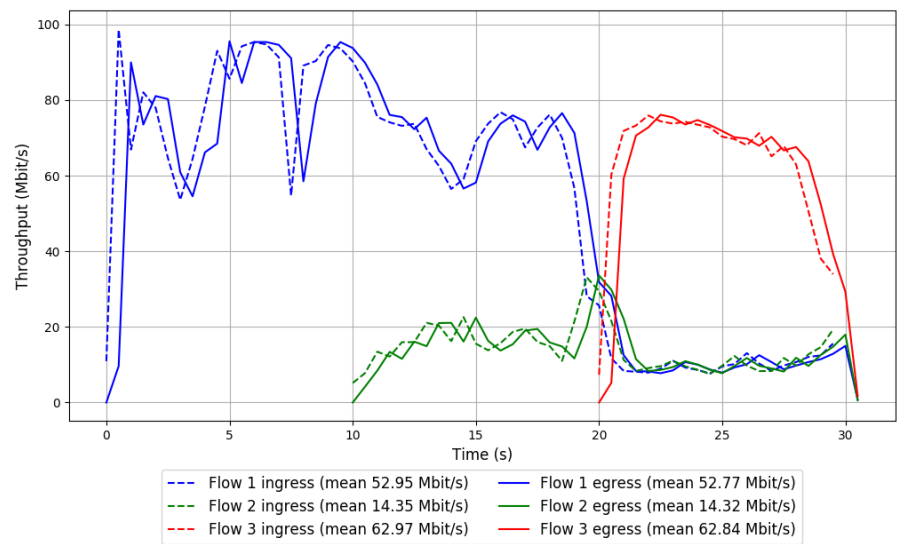


Run 6: Statistics of Copa

Start at: 2018-05-30 17:48:36  
End at: 2018-05-30 17:49:06  
Local clock offset: 0.523 ms  
Remote clock offset: -1.946 ms

# Below is generated by plot.py at 2018-05-30 19:33:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.18 Mbit/s  
95th percentile per-packet one-way delay: 42.570 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 52.77 Mbit/s  
95th percentile per-packet one-way delay: 45.146 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 14.32 Mbit/s  
95th percentile per-packet one-way delay: 43.151 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 62.84 Mbit/s  
95th percentile per-packet one-way delay: 39.948 ms  
Loss rate: 0.27%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-30 18:10:04

End at: 2018-05-30 18:10:34

Local clock offset: 0.71 ms

Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2018-05-30 19:35:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 41.403 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 42.945 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 39.338 ms

Loss rate: 0.08%

-- Flow 3:

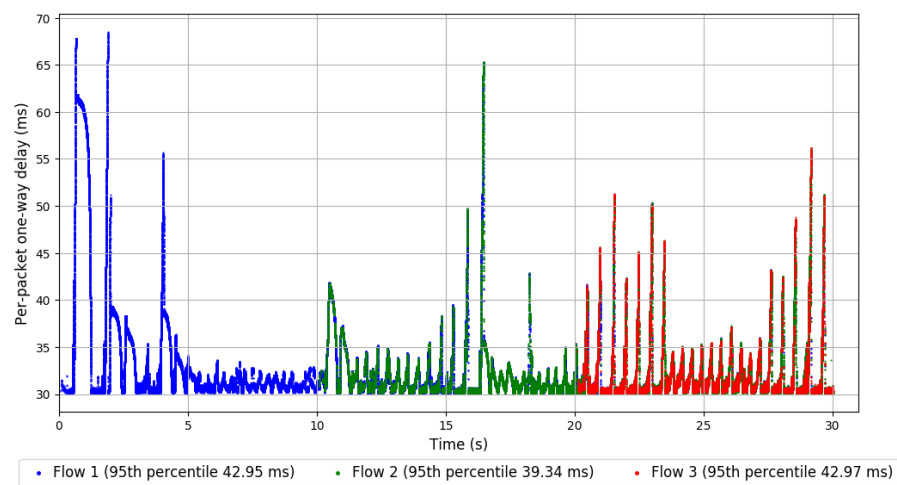
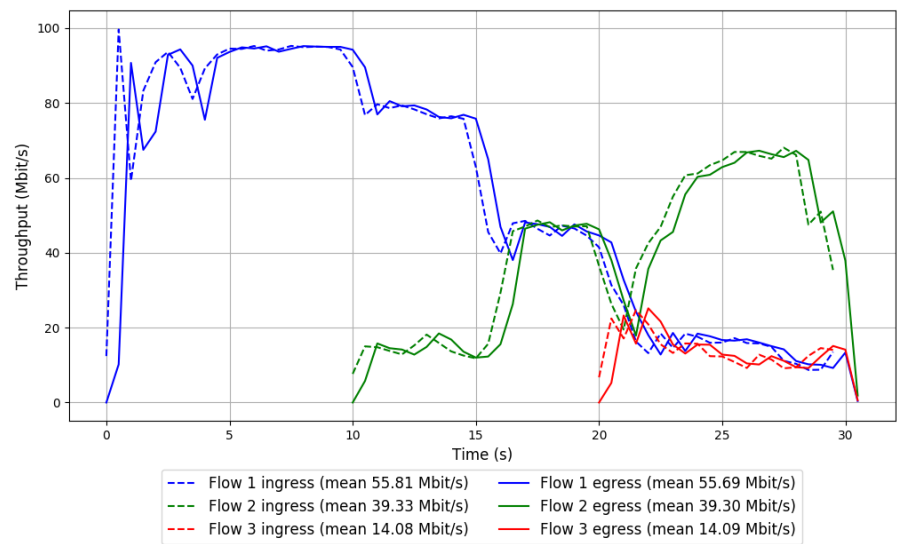
Average throughput: 14.09 Mbit/s

95th percentile per-packet one-way delay: 42.973 ms

Loss rate: 0.02%



Run 7: Report of Copa — Data Link

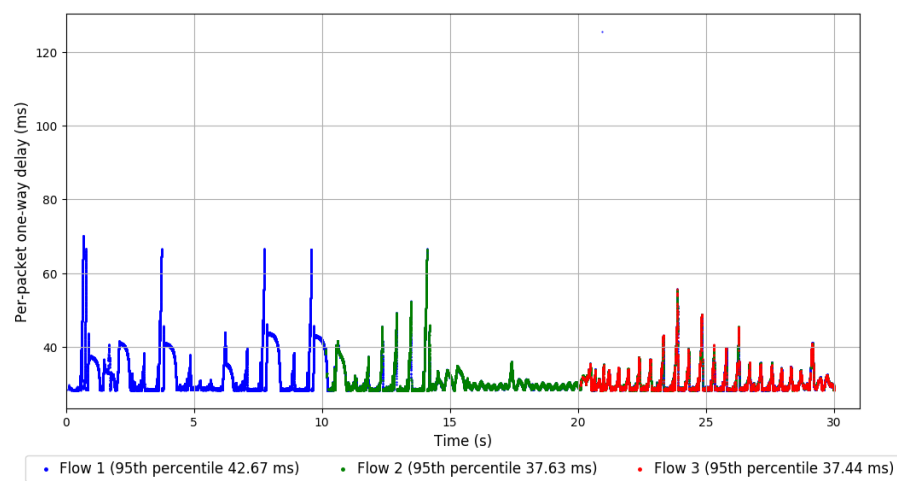
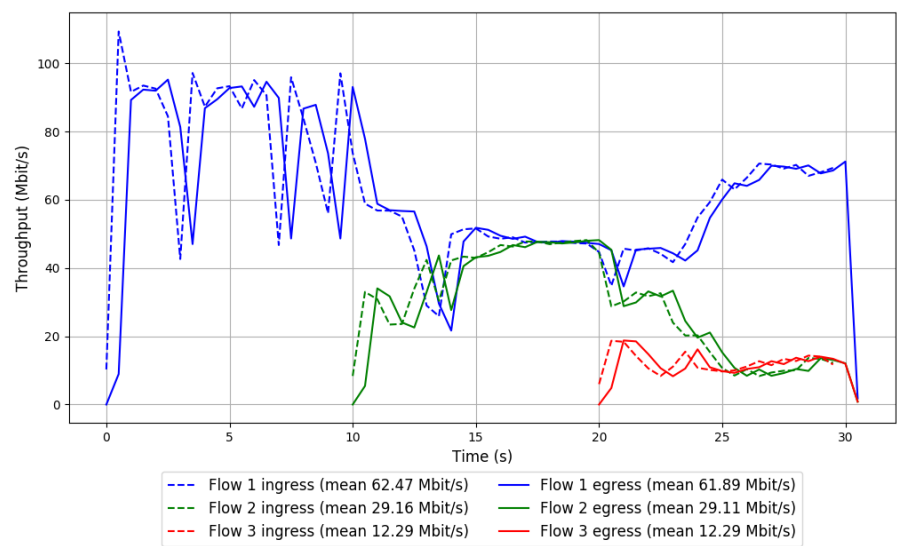


Run 8: Statistics of Copa

Start at: 2018-05-30 18:31:35  
End at: 2018-05-30 18:32:05  
Local clock offset: 0.804 ms  
Remote clock offset: -1.448 ms

# Below is generated by plot.py at 2018-05-30 19:35:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.35 Mbit/s  
95th percentile per-packet one-way delay: 42.001 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 61.89 Mbit/s  
95th percentile per-packet one-way delay: 42.675 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 29.11 Mbit/s  
95th percentile per-packet one-way delay: 37.629 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 12.29 Mbit/s  
95th percentile per-packet one-way delay: 37.443 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-30 18:53:04

End at: 2018-05-30 18:53:34

Local clock offset: 0.437 ms

Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2018-05-30 19:35:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.90 Mbit/s

95th percentile per-packet one-way delay: 40.774 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 45.610 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 38.40 Mbit/s

95th percentile per-packet one-way delay: 38.513 ms

Loss rate: 0.18%

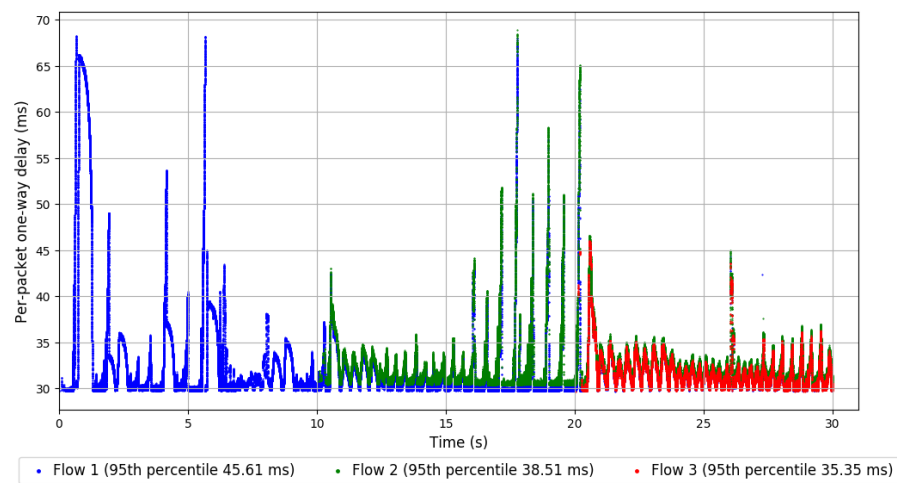
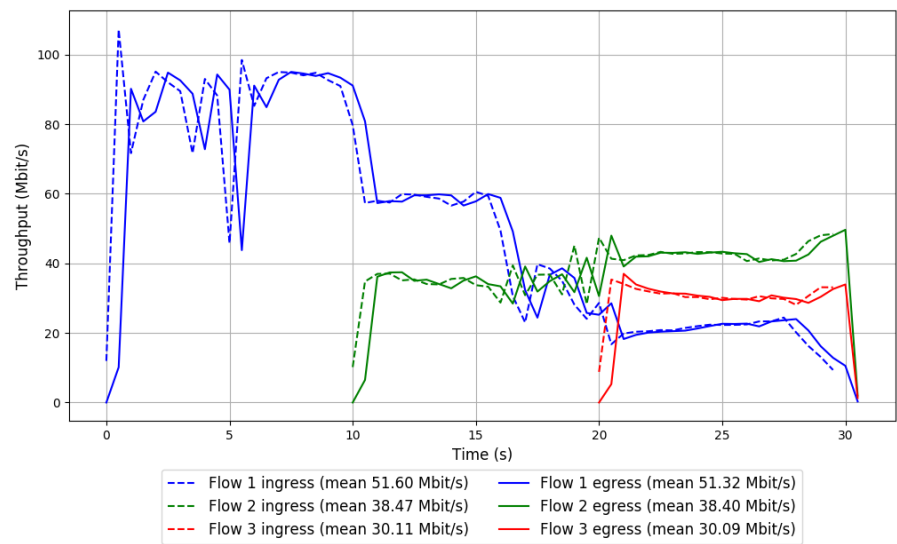
-- Flow 3:

Average throughput: 30.09 Mbit/s

95th percentile per-packet one-way delay: 35.353 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link

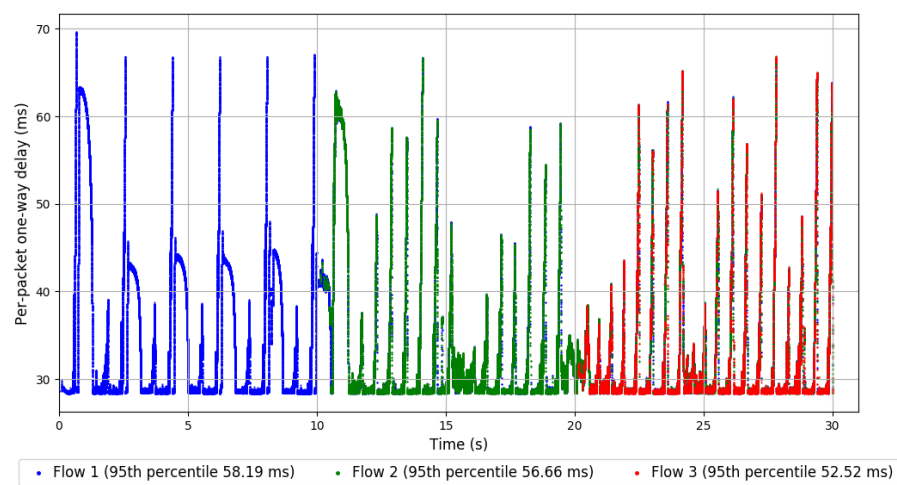
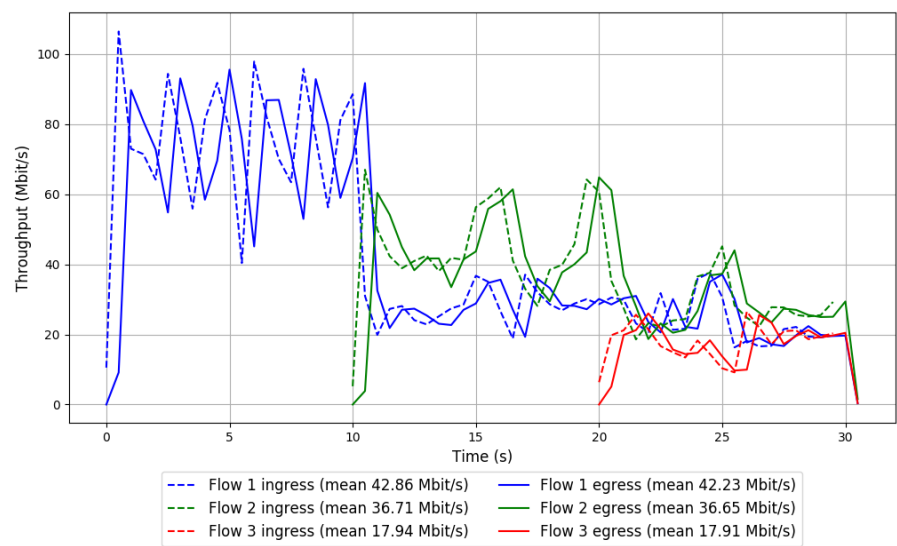


Run 10: Statistics of Copa

Start at: 2018-05-30 19:14:36  
End at: 2018-05-30 19:15:06  
Local clock offset: 0.555 ms  
Remote clock offset: -1.999 ms

# Below is generated by plot.py at 2018-05-30 19:35:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.58 Mbit/s  
95th percentile per-packet one-way delay: 57.172 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 42.23 Mbit/s  
95th percentile per-packet one-way delay: 58.188 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 36.65 Mbit/s  
95th percentile per-packet one-way delay: 56.661 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 17.91 Mbit/s  
95th percentile per-packet one-way delay: 52.516 ms  
Loss rate: 0.21%

Run 10: Report of Copa — Data Link



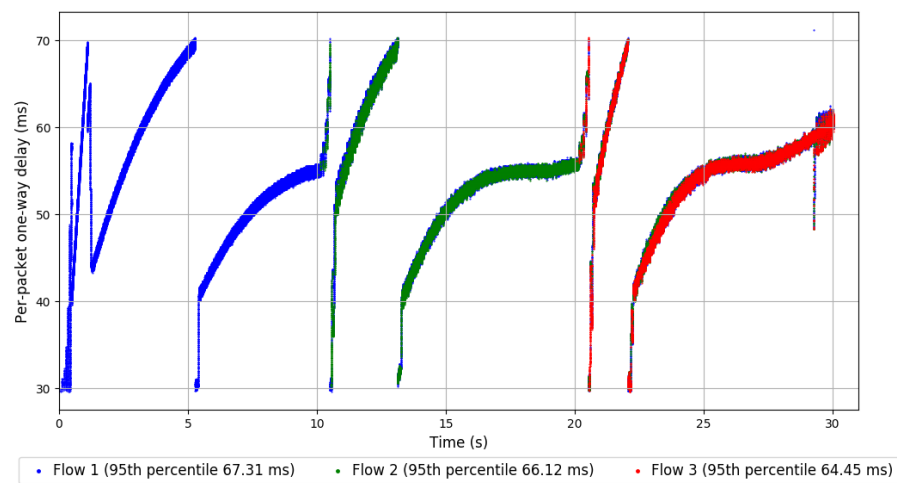
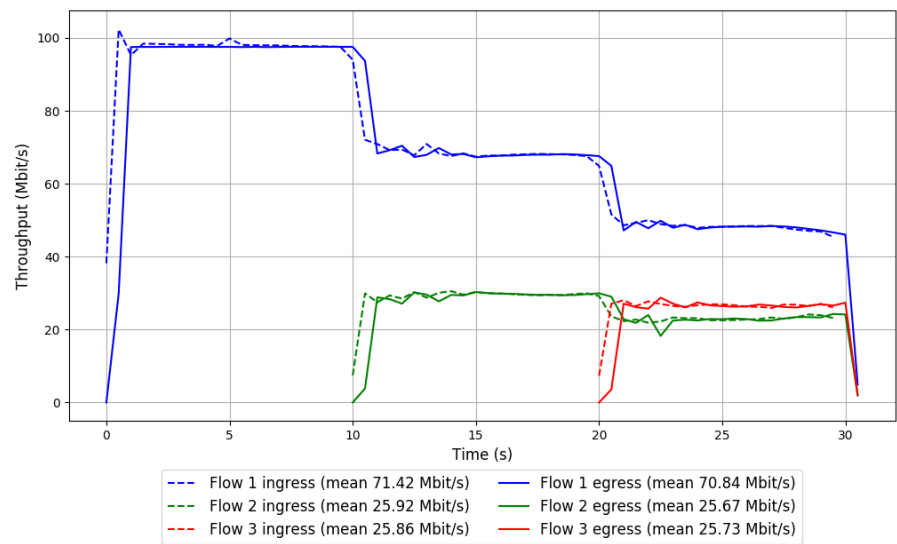
Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 16:05:01  
End at: 2018-05-30 16:05:31  
Local clock offset: 0.911 ms  
Remote clock offset: -0.932 ms

# Below is generated by plot.py at 2018-05-30 19:35:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.47 Mbit/s  
95th percentile per-packet one-way delay: 67.039 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 70.84 Mbit/s  
95th percentile per-packet one-way delay: 67.311 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 25.67 Mbit/s  
95th percentile per-packet one-way delay: 66.116 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 25.73 Mbit/s  
95th percentile per-packet one-way delay: 64.455 ms  
Loss rate: 0.45%



Run 1: Report of TCP Cubic — Data Link

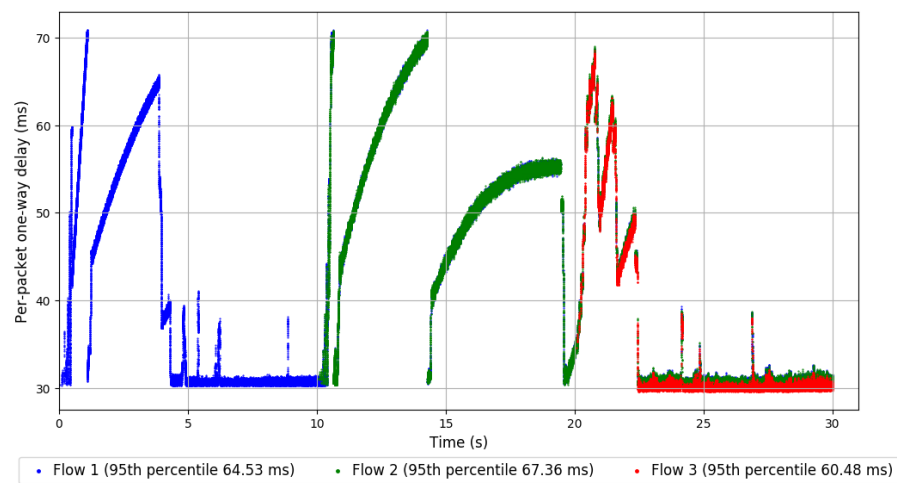
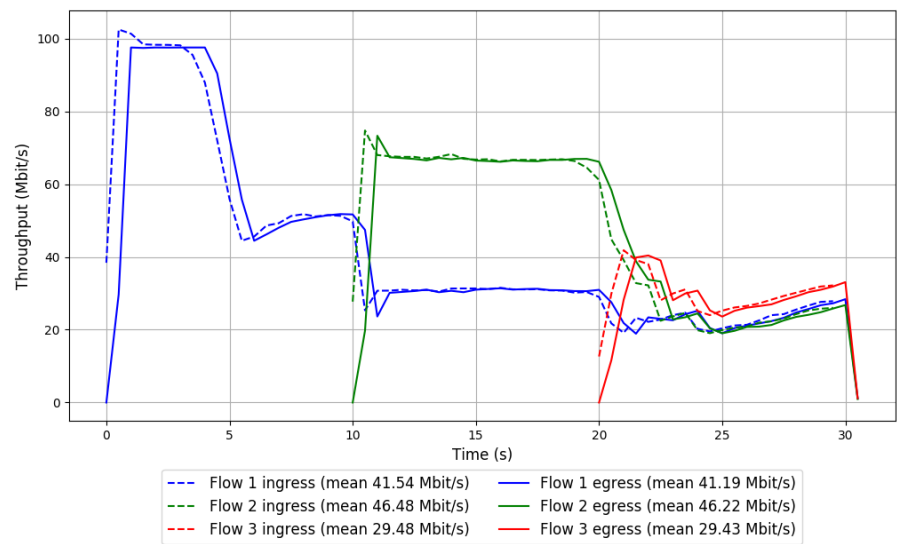


Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 16:26:36  
End at: 2018-05-30 16:27:06  
Local clock offset: 0.825 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2018-05-30 19:35:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.75 Mbit/s  
95th percentile per-packet one-way delay: 65.472 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 41.19 Mbit/s  
95th percentile per-packet one-way delay: 64.528 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 46.22 Mbit/s  
95th percentile per-packet one-way delay: 67.356 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 29.43 Mbit/s  
95th percentile per-packet one-way delay: 60.476 ms  
Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link

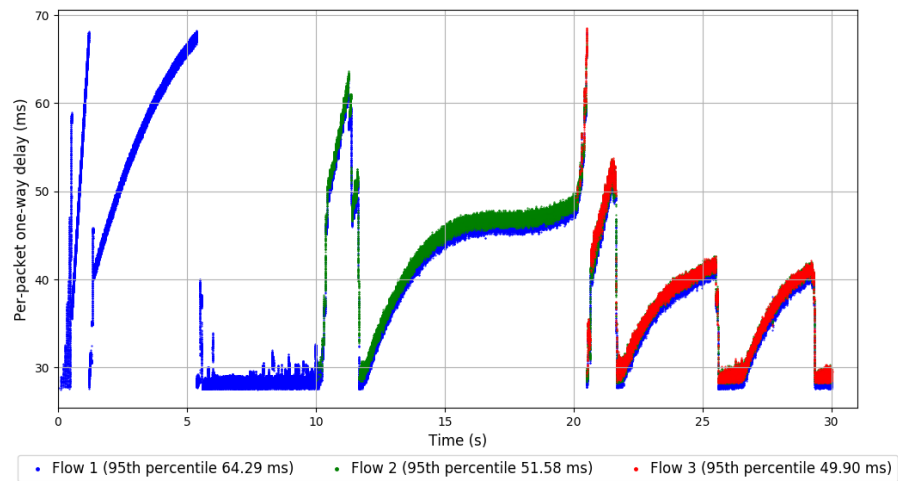
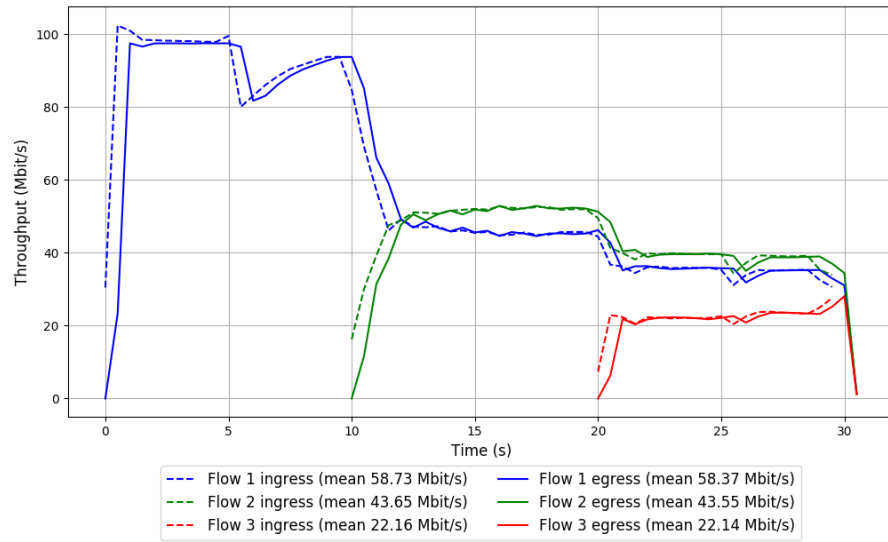


Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 16:48:09  
End at: 2018-05-30 16:48:39  
Local clock offset: 0.492 ms  
Remote clock offset: -2.123 ms

# Below is generated by plot.py at 2018-05-30 19:35:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.72 Mbit/s  
95th percentile per-packet one-way delay: 61.995 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 58.37 Mbit/s  
95th percentile per-packet one-way delay: 64.292 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 43.55 Mbit/s  
95th percentile per-packet one-way delay: 51.576 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 22.14 Mbit/s  
95th percentile per-packet one-way delay: 49.903 ms  
Loss rate: 0.31%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 17:10:04

End at: 2018-05-30 17:10:34

Local clock offset: 0.244 ms

Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2018-05-30 19:35:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 67.402 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 67.571 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 29.12 Mbit/s

95th percentile per-packet one-way delay: 67.148 ms

Loss rate: 0.89%

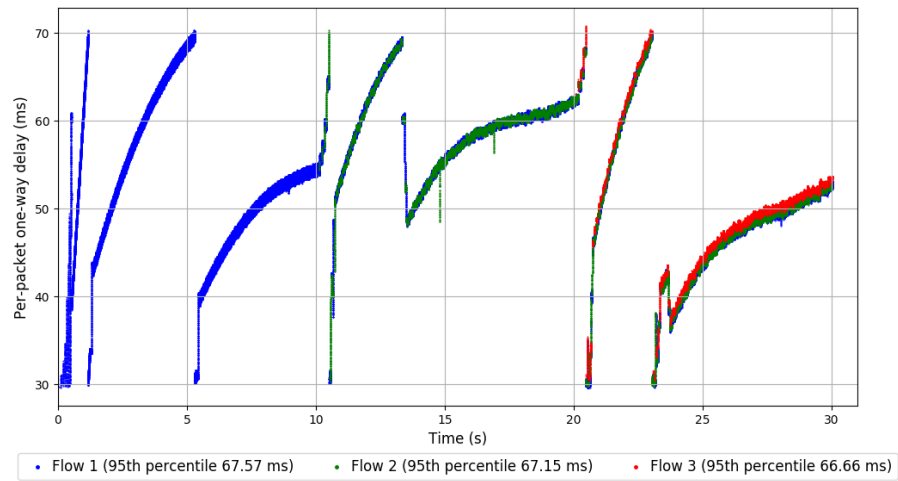
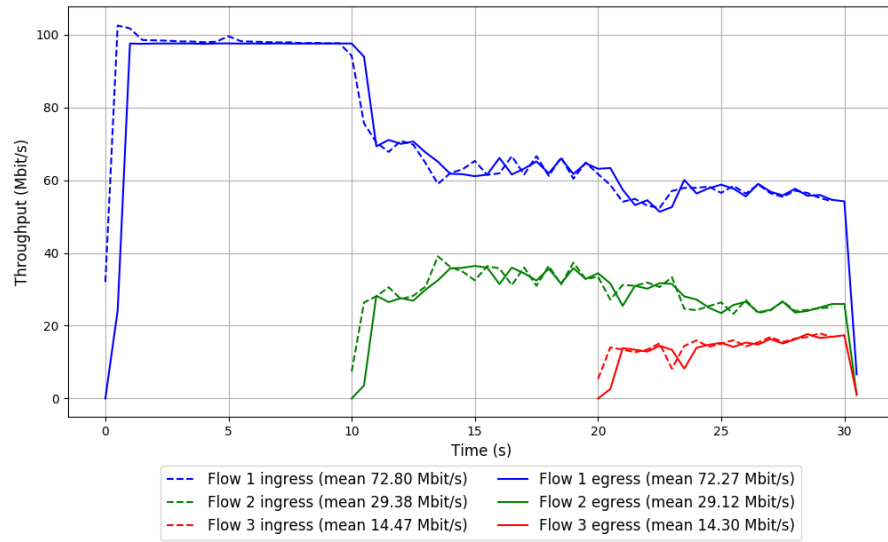
-- Flow 3:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 66.658 ms

Loss rate: 1.25%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 17:35:08

End at: 2018-05-30 17:35:38

Local clock offset: 0.046 ms

Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2018-05-30 19:36:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 68.009 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 68.495 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 50.84 Mbit/s

95th percentile per-packet one-way delay: 66.880 ms

Loss rate: 0.40%

-- Flow 3:

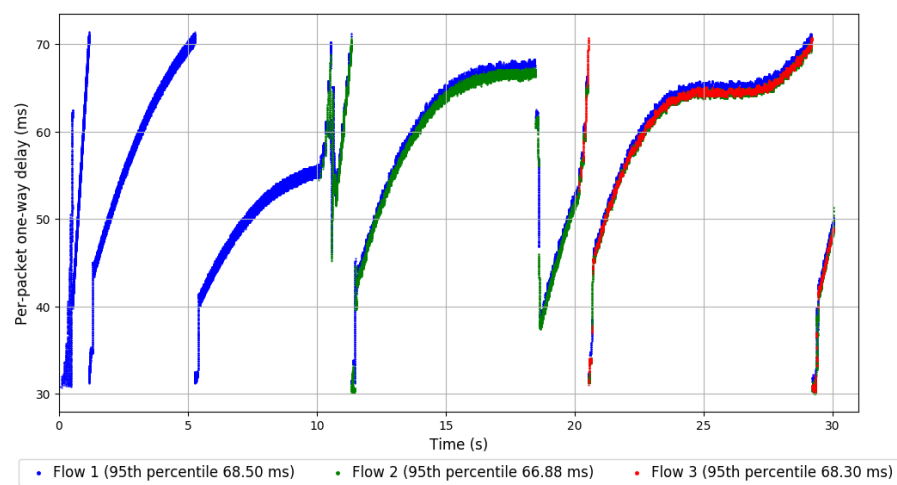
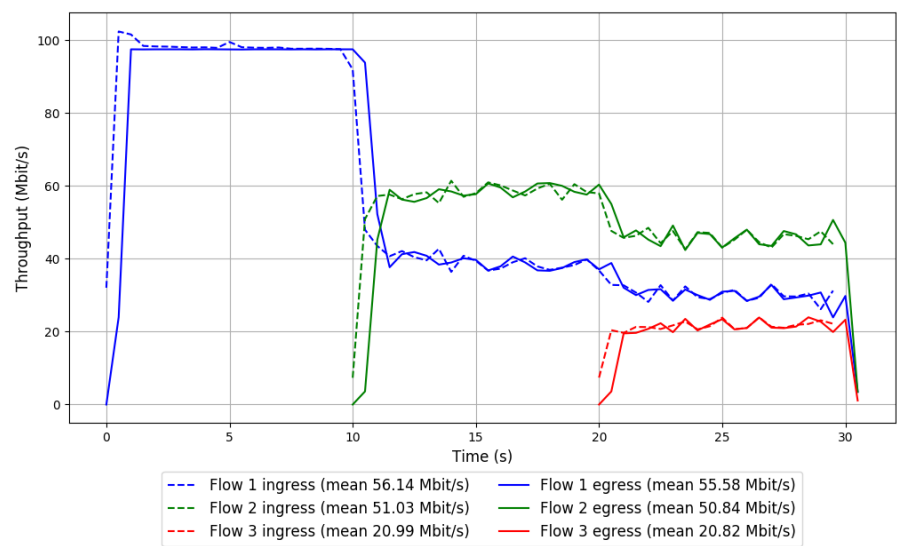
Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 68.296 ms

Loss rate: 0.85%



Run 5: Report of TCP Cubic — Data Link

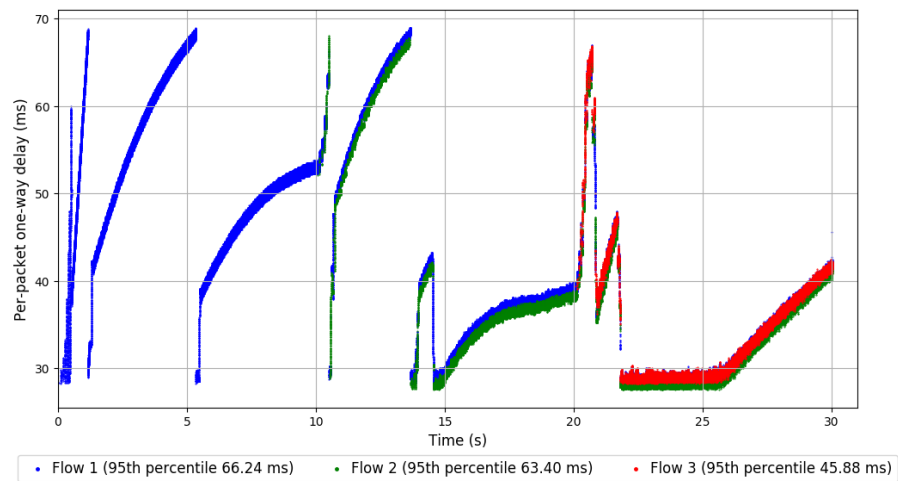
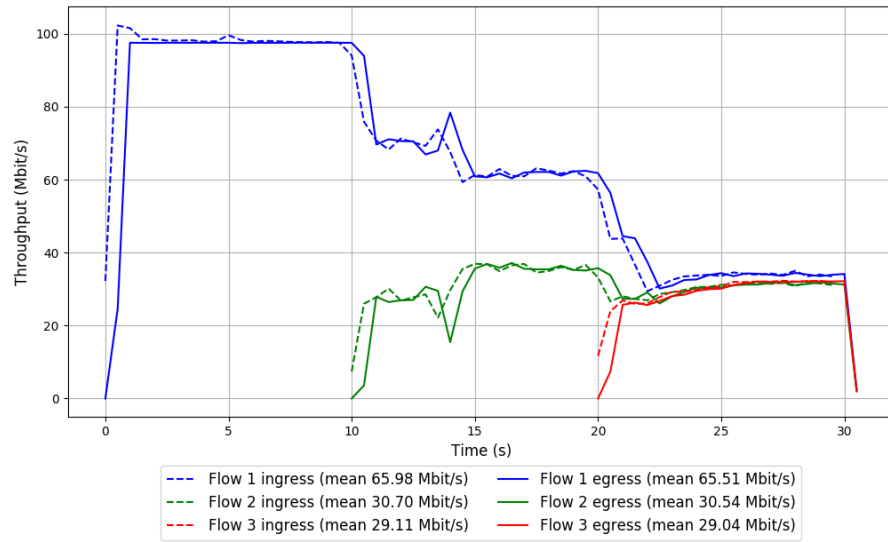


Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 17:58:01  
End at: 2018-05-30 17:58:31  
Local clock offset: 0.648 ms  
Remote clock offset: -2.164 ms

# Below is generated by plot.py at 2018-05-30 19:36:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 65.524 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 65.51 Mbit/s  
95th percentile per-packet one-way delay: 66.242 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 30.54 Mbit/s  
95th percentile per-packet one-way delay: 63.397 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 45.879 ms  
Loss rate: 0.23%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 18:19:30

End at: 2018-05-30 18:20:00

Local clock offset: 0.762 ms

Remote clock offset: 0.477 ms

# Below is generated by plot.py at 2018-05-30 19:36:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 63.555 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 22.45 Mbit/s

95th percentile per-packet one-way delay: 64.851 ms

Loss rate: 0.92%

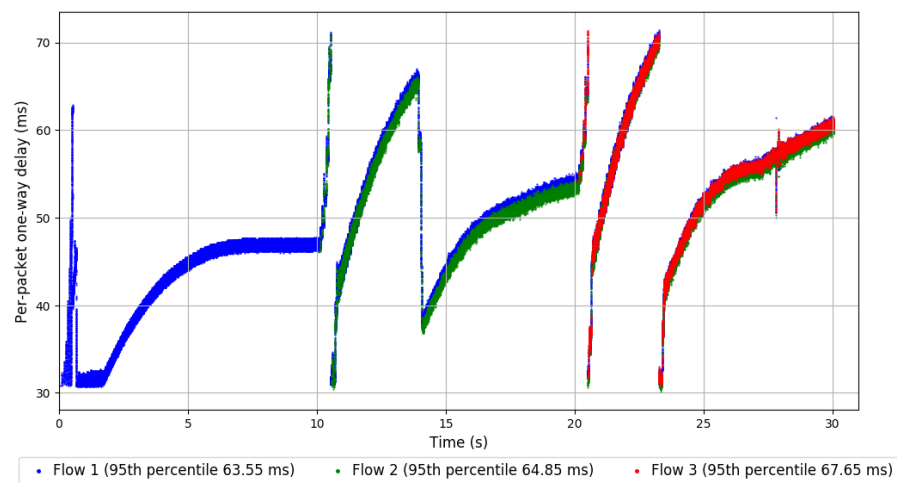
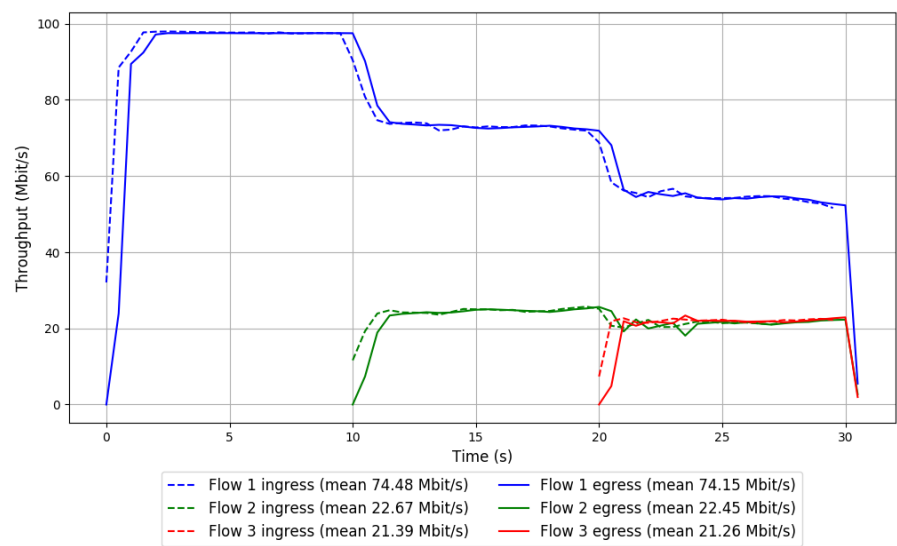
-- Flow 3:

Average throughput: 21.26 Mbit/s

95th percentile per-packet one-way delay: 67.653 ms

Loss rate: 0.53%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 18:41:00

End at: 2018-05-30 18:41:30

Local clock offset: 0.698 ms

Remote clock offset: 1.463 ms

# Below is generated by plot.py at 2018-05-30 19:36:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 62.289 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 62.721 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 43.81 Mbit/s

95th percentile per-packet one-way delay: 61.416 ms

Loss rate: 0.60%

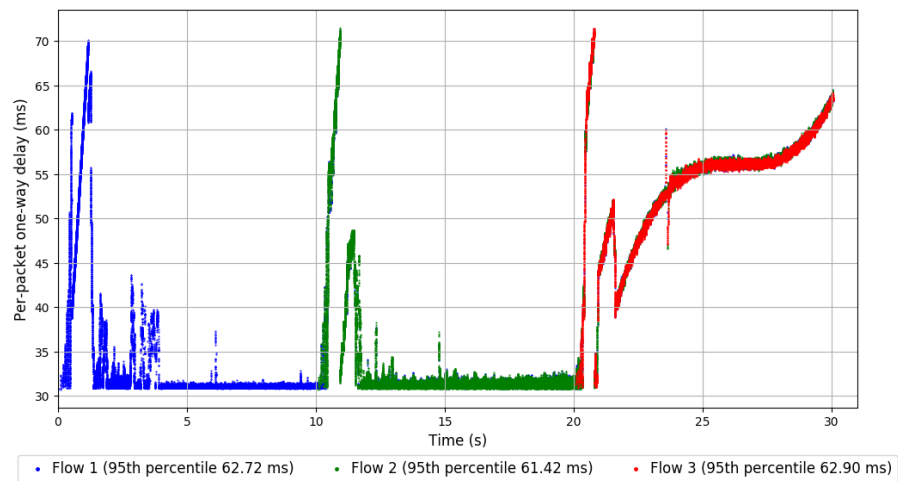
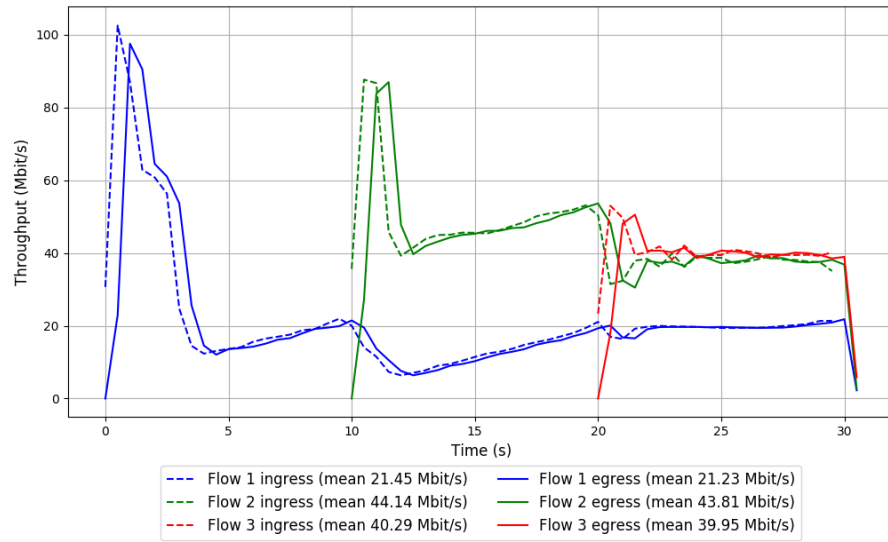
-- Flow 3:

Average throughput: 39.95 Mbit/s

95th percentile per-packet one-way delay: 62.895 ms

Loss rate: 0.51%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 19:02:29

End at: 2018-05-30 19:02:59

Local clock offset: 0.361 ms

Remote clock offset: 1.066 ms

# Below is generated by plot.py at 2018-05-30 19:36:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 68.233 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 68.449 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 35.24 Mbit/s

95th percentile per-packet one-way delay: 68.217 ms

Loss rate: 0.53%

-- Flow 3:

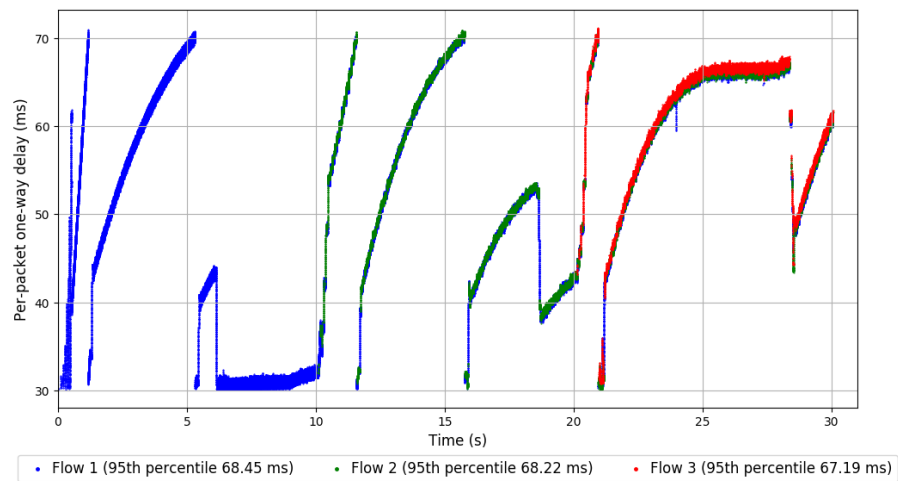
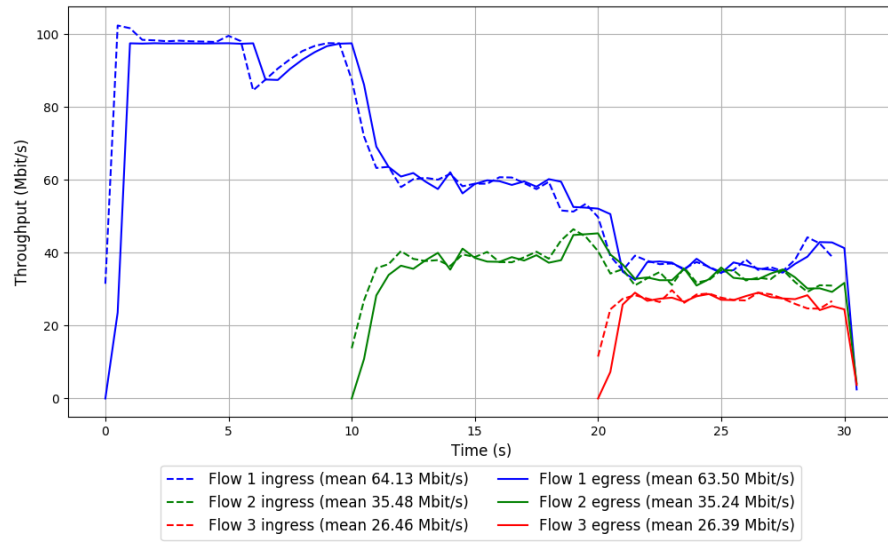
Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 67.186 ms

Loss rate: 0.10%



# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 19:24:00

End at: 2018-05-30 19:24:30

Local clock offset: 0.587 ms

Remote clock offset: 0.454 ms

# Below is generated by plot.py at 2018-05-30 19:36:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 67.370 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 67.887 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 66.404 ms

Loss rate: 0.38%

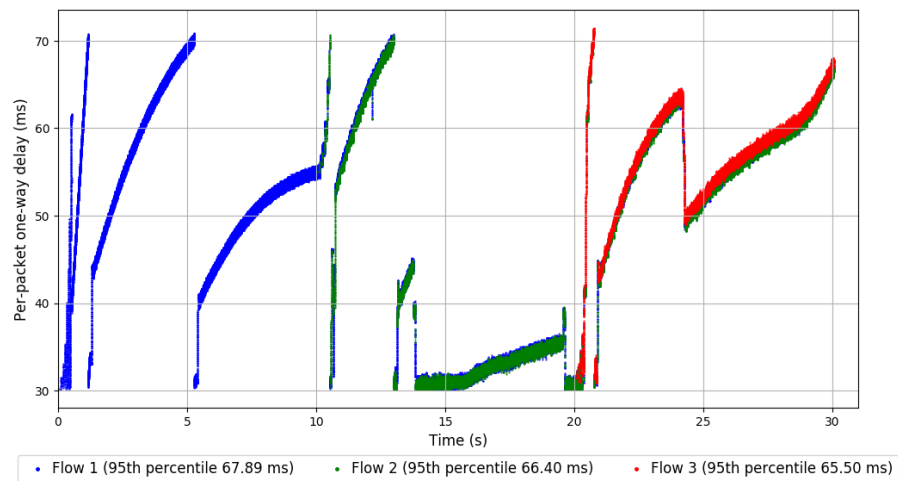
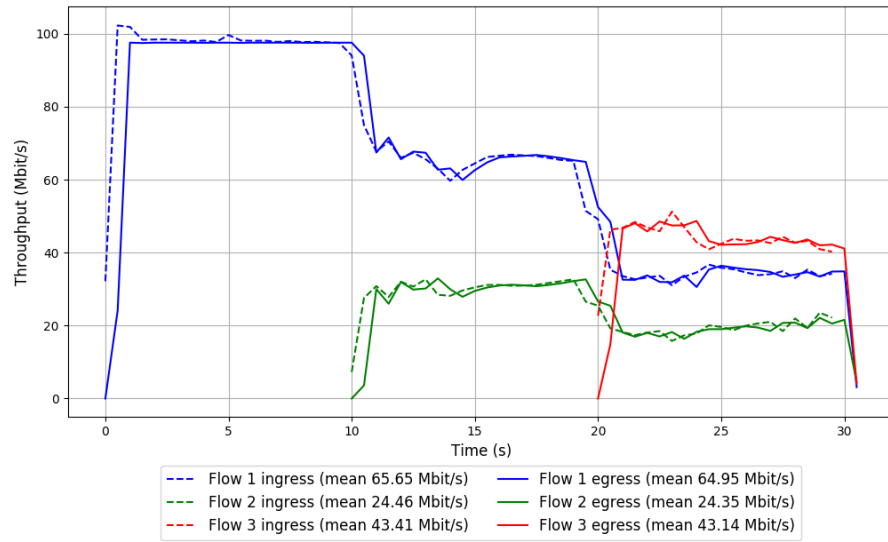
-- Flow 3:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 65.500 ms

Loss rate: 0.26%

# Run 10: Report of TCP Cubic — Data Link

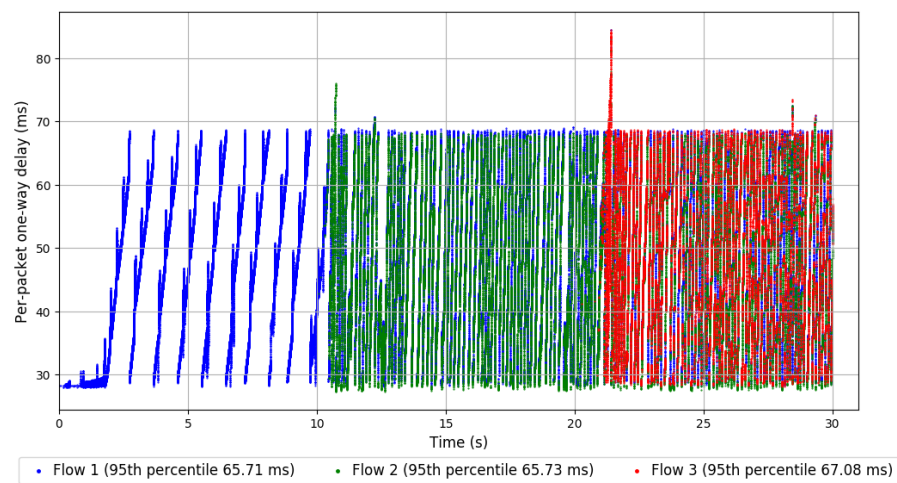
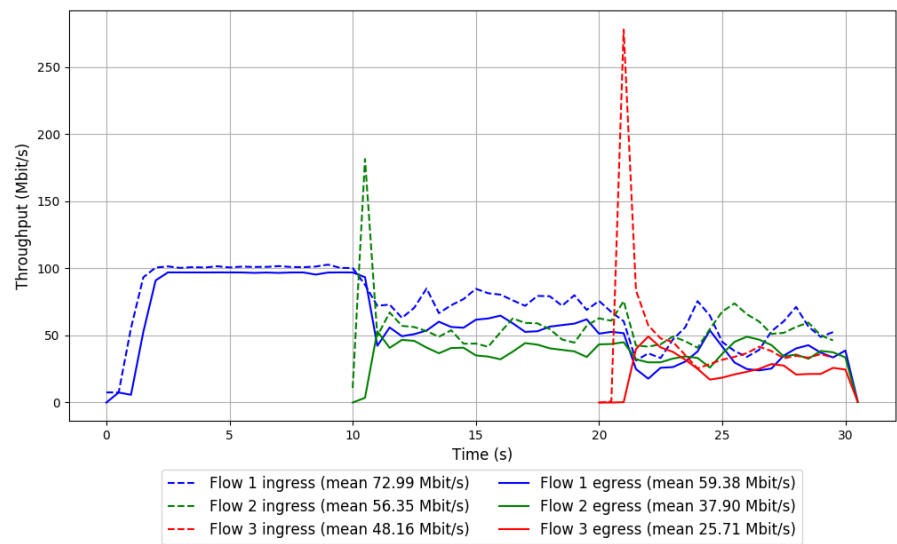


Run 1: Statistics of FillP

Start at: 2018-05-30 16:00:57  
End at: 2018-05-30 16:01:27  
Local clock offset: 0.928 ms  
Remote clock offset: -3.108 ms

# Below is generated by plot.py at 2018-05-30 19:37:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.93 Mbit/s  
95th percentile per-packet one-way delay: 65.862 ms  
Loss rate: 26.43%  
-- Flow 1:  
Average throughput: 59.38 Mbit/s  
95th percentile per-packet one-way delay: 65.713 ms  
Loss rate: 18.58%  
-- Flow 2:  
Average throughput: 37.90 Mbit/s  
95th percentile per-packet one-way delay: 65.733 ms  
Loss rate: 32.70%  
-- Flow 3:  
Average throughput: 25.71 Mbit/s  
95th percentile per-packet one-way delay: 67.078 ms  
Loss rate: 47.61%

Run 1: Report of FillP — Data Link

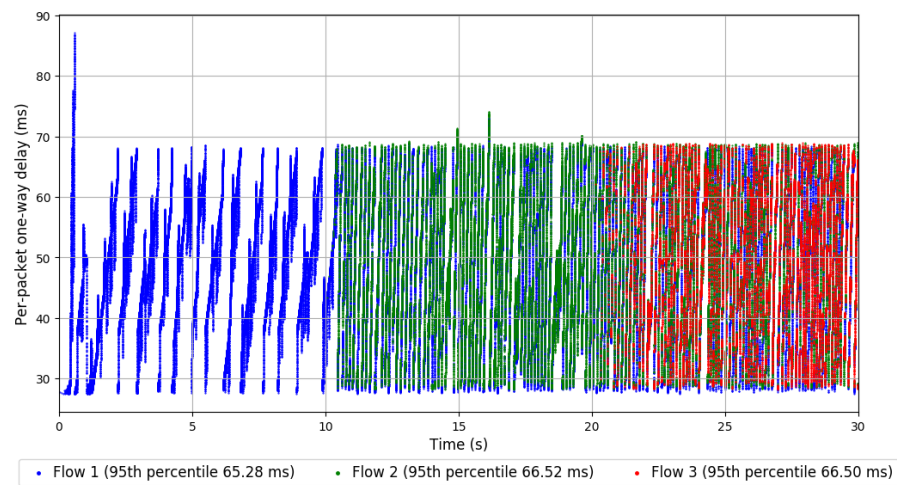
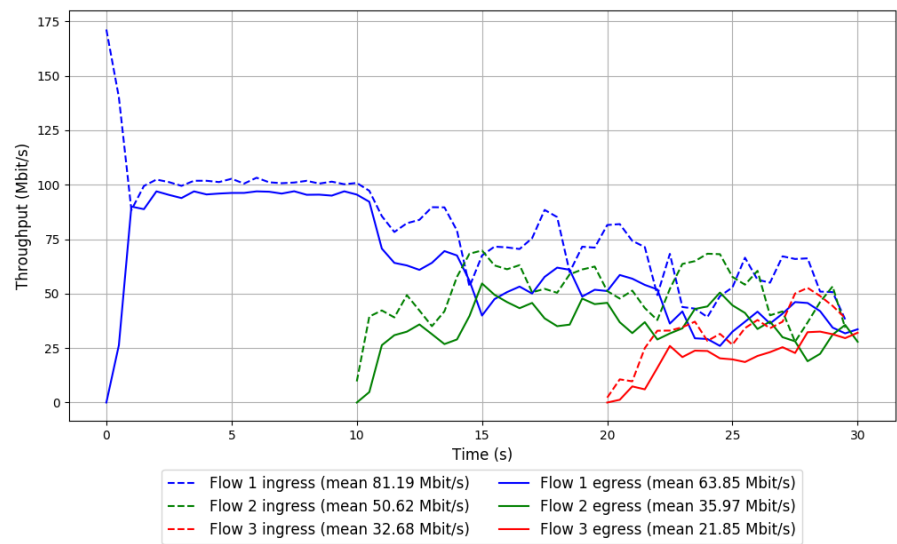


Run 2: Statistics of FillP

Start at: 2018-05-30 16:22:29  
End at: 2018-05-30 16:22:59  
Local clock offset: 0.75 ms  
Remote clock offset: -2.745 ms

# Below is generated by plot.py at 2018-05-30 19:37:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 65.757 ms  
Loss rate: 24.43%  
-- Flow 1:  
Average throughput: 63.85 Mbit/s  
95th percentile per-packet one-way delay: 65.278 ms  
Loss rate: 21.36%  
-- Flow 2:  
Average throughput: 35.97 Mbit/s  
95th percentile per-packet one-way delay: 66.517 ms  
Loss rate: 28.99%  
-- Flow 3:  
Average throughput: 21.85 Mbit/s  
95th percentile per-packet one-way delay: 66.495 ms  
Loss rate: 33.17%

Run 2: Report of FillP — Data Link



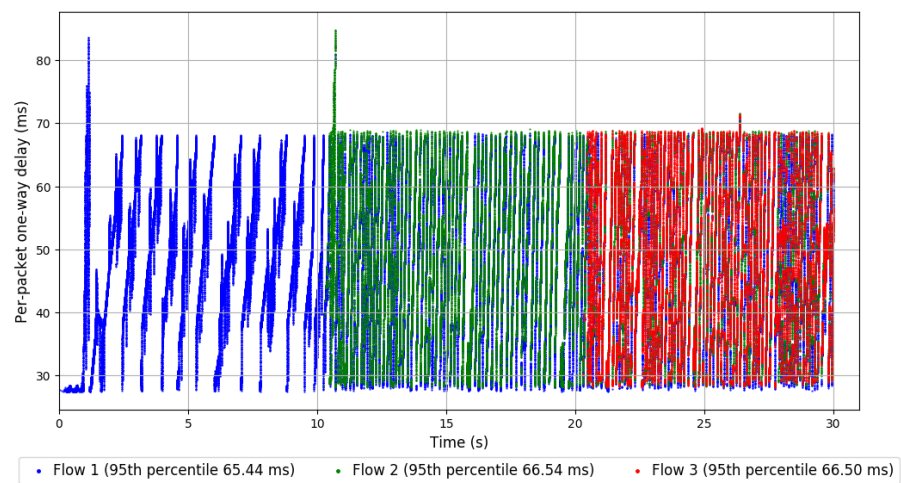
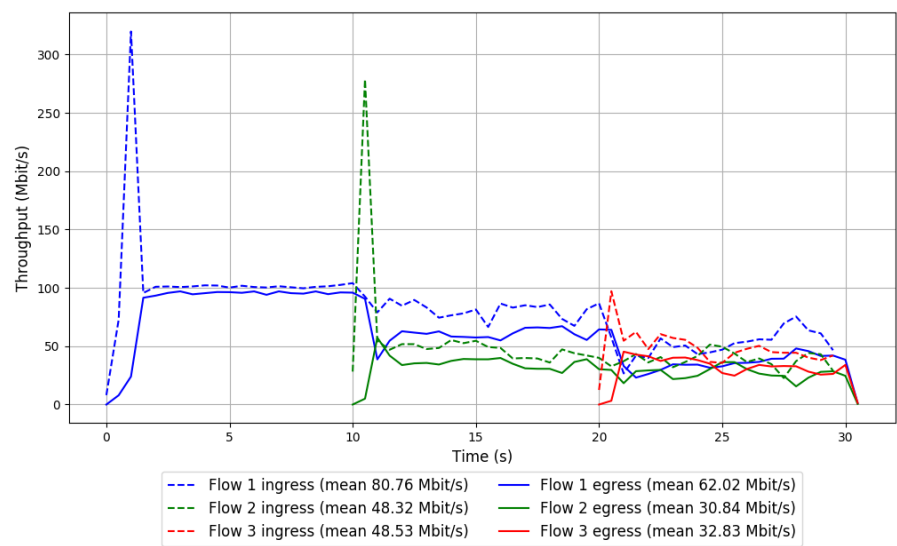
Run 3: Statistics of FillP

Start at: 2018-05-30 16:44:05  
End at: 2018-05-30 16:44:35  
Local clock offset: 0.465 ms  
Remote clock offset: -2.234 ms

# Below is generated by plot.py at 2018-05-30 19:37:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.44 Mbit/s  
95th percentile per-packet one-way delay: 65.835 ms  
Loss rate: 27.50%  
-- Flow 1:  
Average throughput: 62.02 Mbit/s  
95th percentile per-packet one-way delay: 65.444 ms  
Loss rate: 23.12%  
-- Flow 2:  
Average throughput: 30.84 Mbit/s  
95th percentile per-packet one-way delay: 66.544 ms  
Loss rate: 36.13%  
-- Flow 3:  
Average throughput: 32.83 Mbit/s  
95th percentile per-packet one-way delay: 66.497 ms  
Loss rate: 32.22%



Run 3: Report of FillP — Data Link

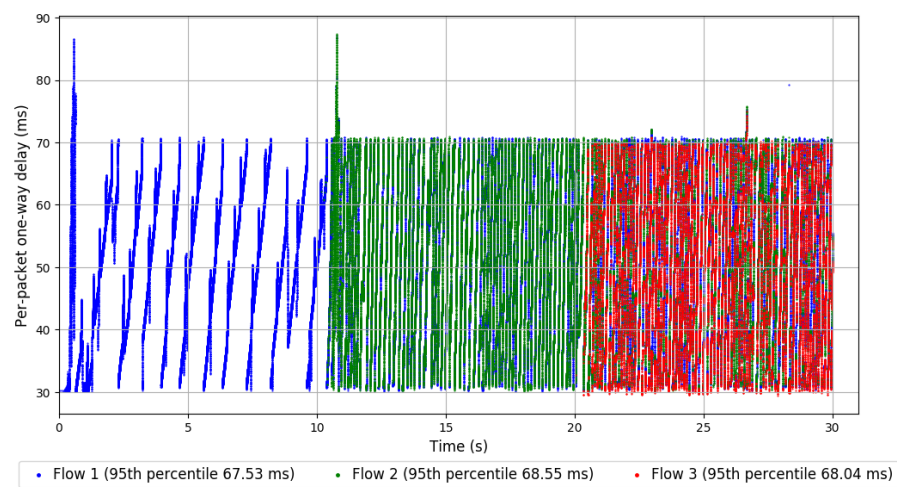
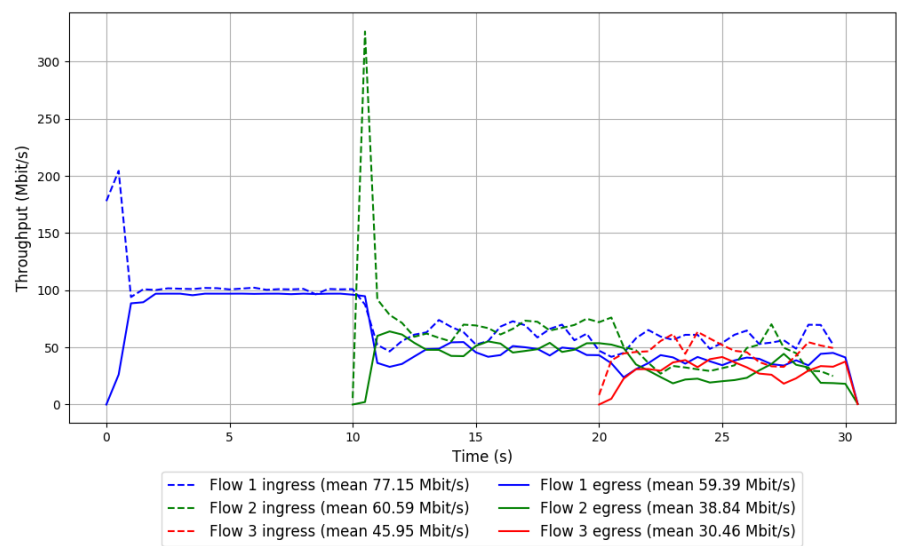


Run 4: Statistics of FillP

Start at: 2018-05-30 17:05:54  
End at: 2018-05-30 17:06:24  
Local clock offset: 0.291 ms  
Remote clock offset: 0.445 ms

```
# Below is generated by plot.py at 2018-05-30 19:37:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 67.915 ms
Loss rate: 28.11%
-- Flow 1:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 67.532 ms
Loss rate: 22.95%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 68.545 ms
Loss rate: 35.90%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 68.041 ms
Loss rate: 33.58%
```

Run 4: Report of FillP — Data Link

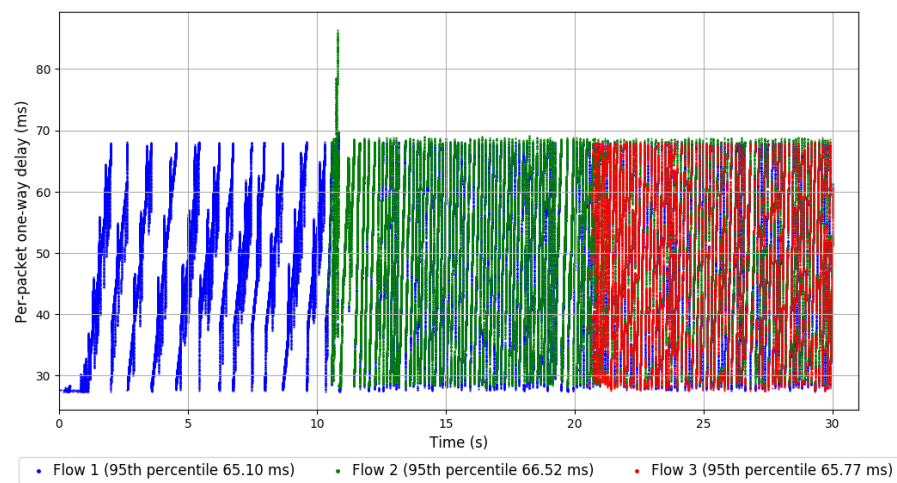
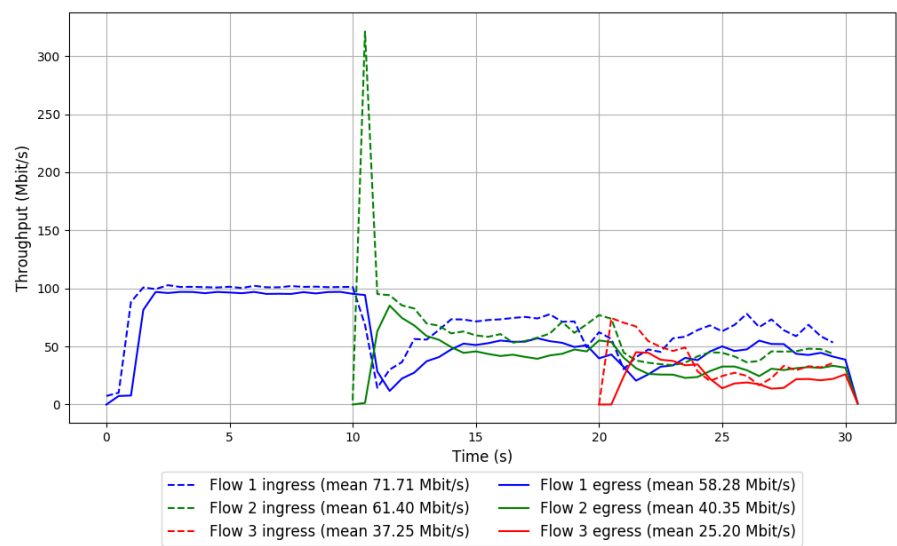


Run 5: Statistics of FillP

Start at: 2018-05-30 17:30:10  
End at: 2018-05-30 17:30:40  
Local clock offset: 0.081 ms  
Remote clock offset: -2.077 ms

# Below is generated by plot.py at 2018-05-30 19:37:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.30 Mbit/s  
95th percentile per-packet one-way delay: 65.597 ms  
Loss rate: 25.24%  
-- Flow 1:  
Average throughput: 58.28 Mbit/s  
95th percentile per-packet one-way delay: 65.097 ms  
Loss rate: 18.63%  
-- Flow 2:  
Average throughput: 40.35 Mbit/s  
95th percentile per-packet one-way delay: 66.520 ms  
Loss rate: 34.27%  
-- Flow 3:  
Average throughput: 25.20 Mbit/s  
95th percentile per-packet one-way delay: 65.772 ms  
Loss rate: 33.66%

Run 5: Report of FillP — Data Link

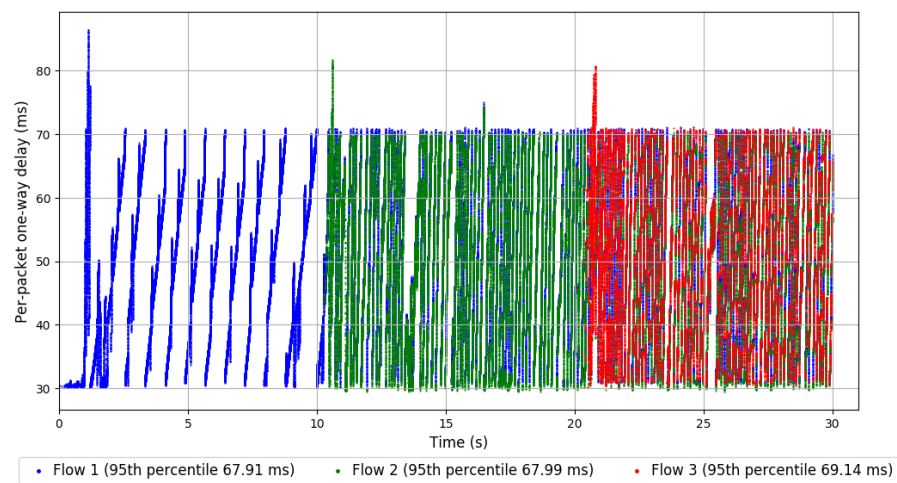
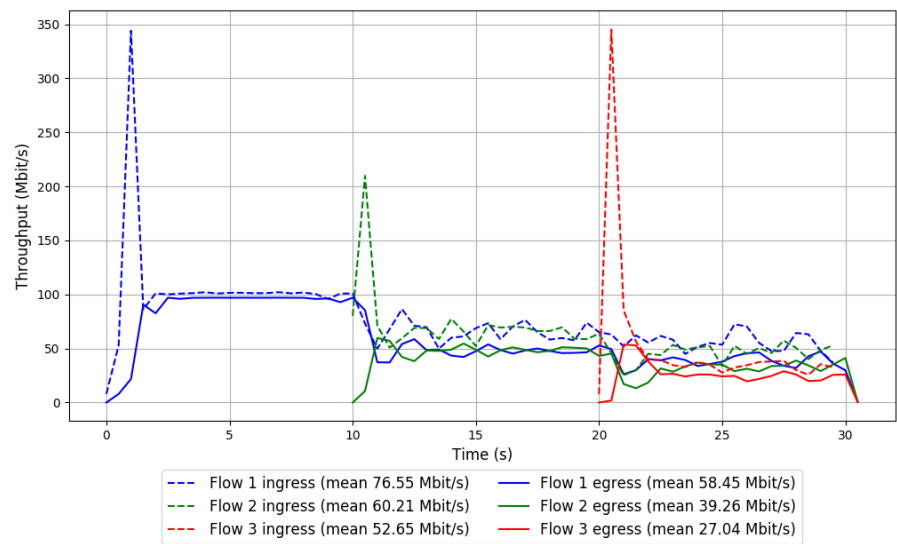


Run 6: Statistics of FillP

Start at: 2018-05-30 17:53:57  
End at: 2018-05-30 17:54:27  
Local clock offset: 0.607 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-05-30 19:38:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.55 Mbit/s  
95th percentile per-packet one-way delay: 68.092 ms  
Loss rate: 30.15%  
-- Flow 1:  
Average throughput: 58.45 Mbit/s  
95th percentile per-packet one-way delay: 67.907 ms  
Loss rate: 23.56%  
-- Flow 2:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 67.993 ms  
Loss rate: 34.68%  
-- Flow 3:  
Average throughput: 27.04 Mbit/s  
95th percentile per-packet one-way delay: 69.140 ms  
Loss rate: 48.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-30 18:15:25

End at: 2018-05-30 18:15:55

Local clock offset: 0.679 ms

Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2018-05-30 19:38:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 68.422 ms

Loss rate: 25.63%

-- Flow 1:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 68.522 ms

Loss rate: 22.68%

-- Flow 2:

Average throughput: 37.73 Mbit/s

95th percentile per-packet one-way delay: 68.224 ms

Loss rate: 29.14%

-- Flow 3:

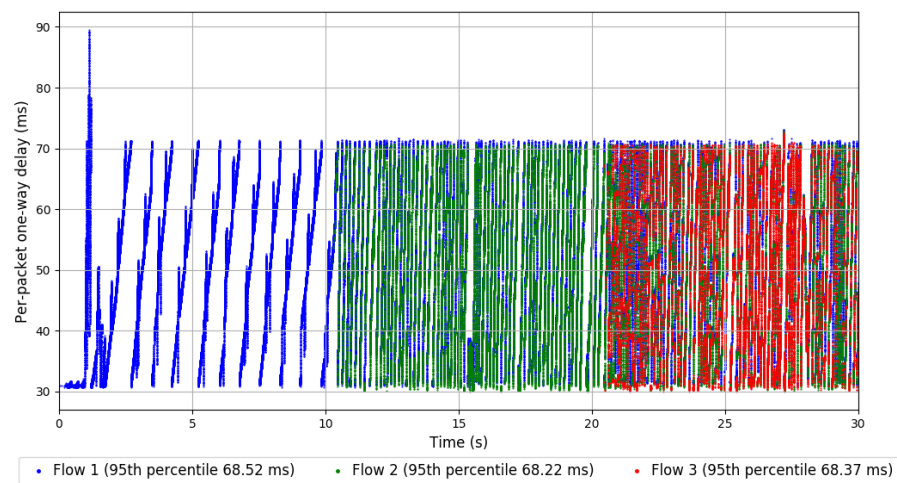
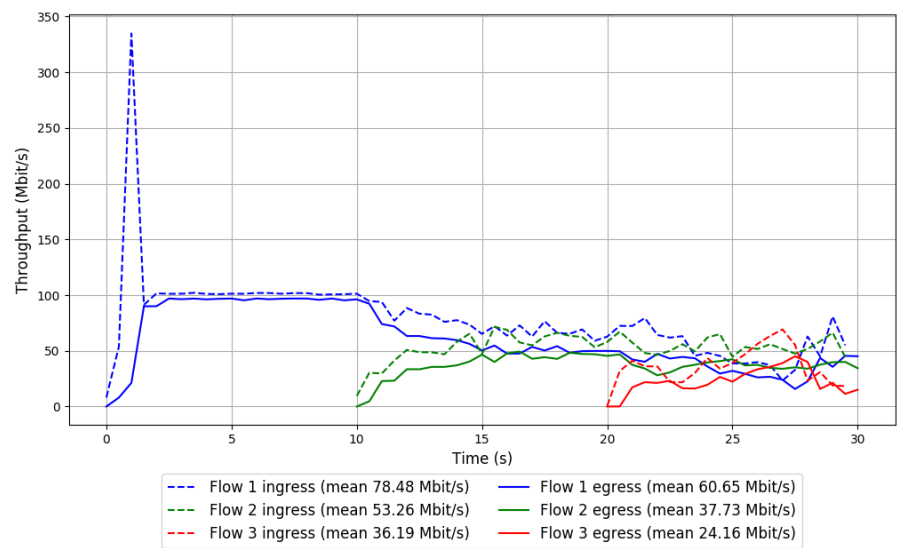
Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 68.366 ms

Loss rate: 34.54%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-30 18:36:55

End at: 2018-05-30 18:37:25

Local clock offset: 0.699 ms

Remote clock offset: 1.307 ms

# Below is generated by plot.py at 2018-05-30 19:38:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 68.070 ms

Loss rate: 25.59%

-- Flow 1:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 67.733 ms

Loss rate: 22.17%

-- Flow 2:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 68.353 ms

Loss rate: 29.72%

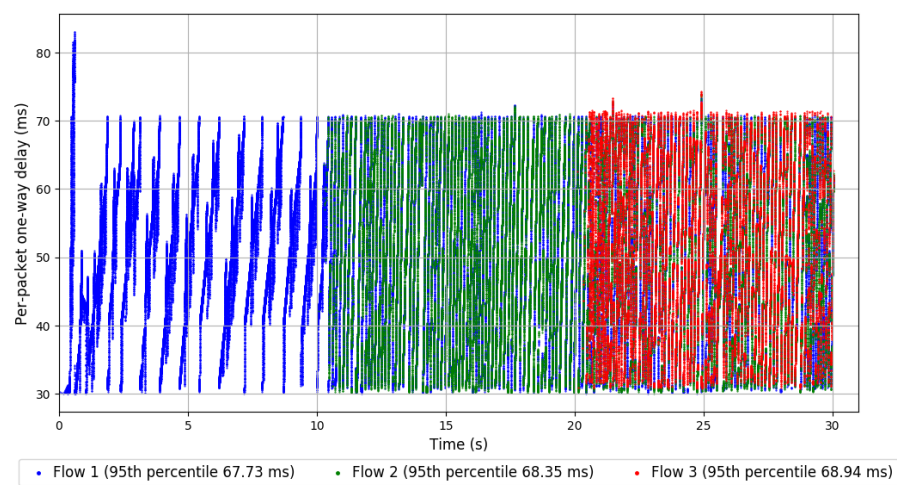
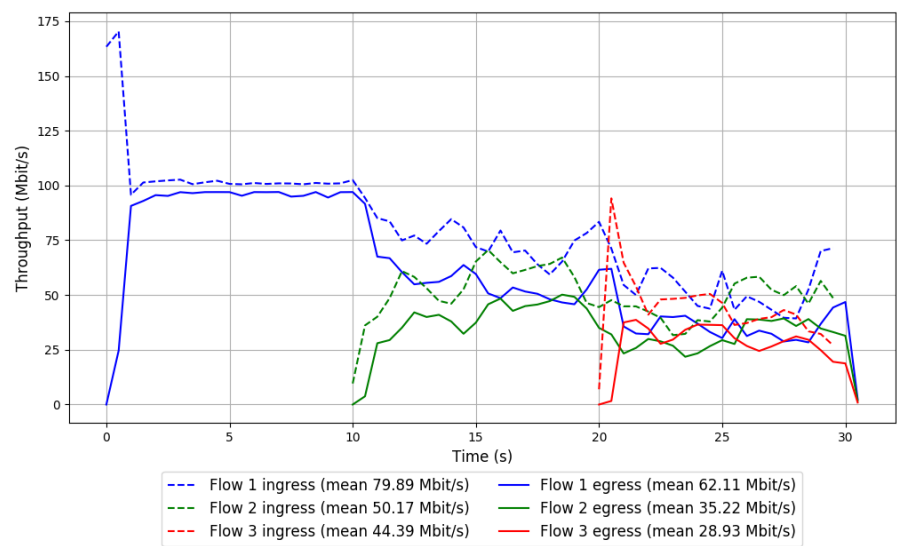
-- Flow 3:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 68.940 ms

Loss rate: 34.83%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-30 18:58:25

End at: 2018-05-30 18:58:55

Local clock offset: 0.426 ms

Remote clock offset: 1.152 ms

# Below is generated by plot.py at 2018-05-30 19:38:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 67.767 ms

Loss rate: 26.23%

-- Flow 1:

Average throughput: 62.00 Mbit/s

95th percentile per-packet one-way delay: 67.569 ms

Loss rate: 21.49%

-- Flow 2:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 68.169 ms

Loss rate: 35.72%

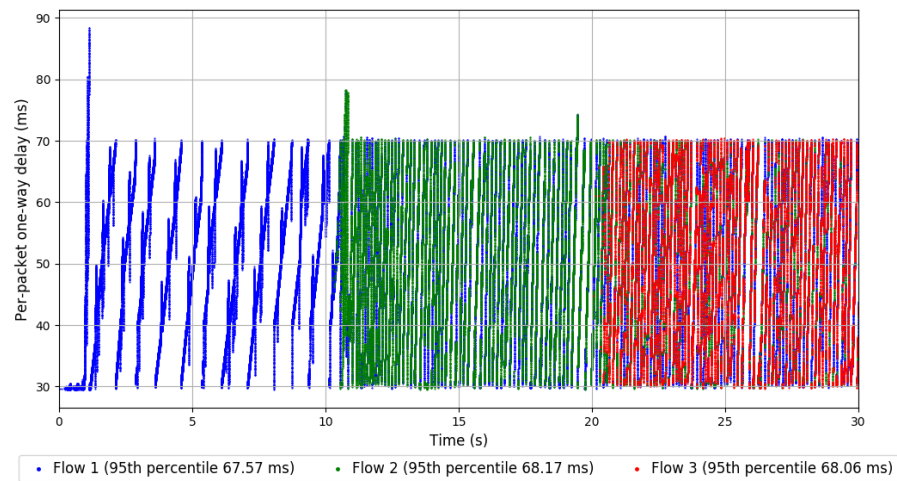
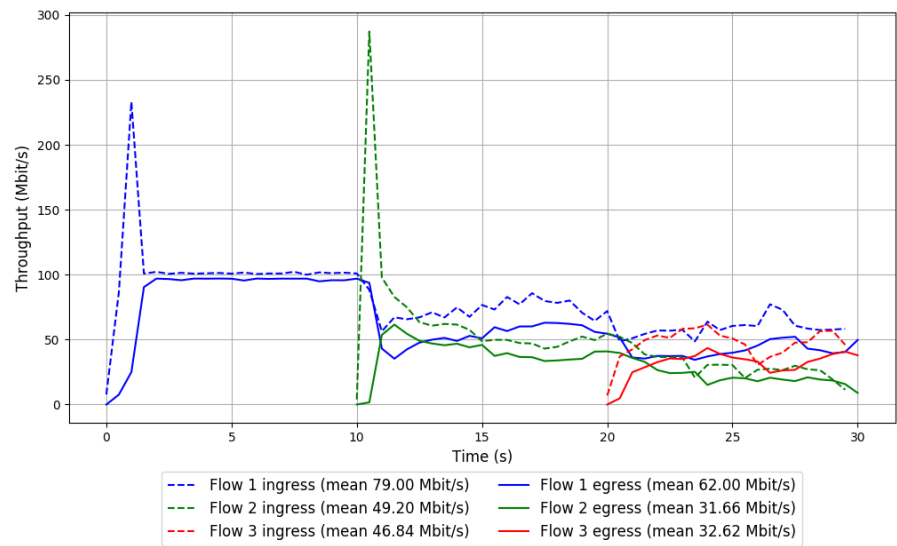
-- Flow 3:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 68.063 ms

Loss rate: 30.36%

Run 9: Report of FillP — Data Link

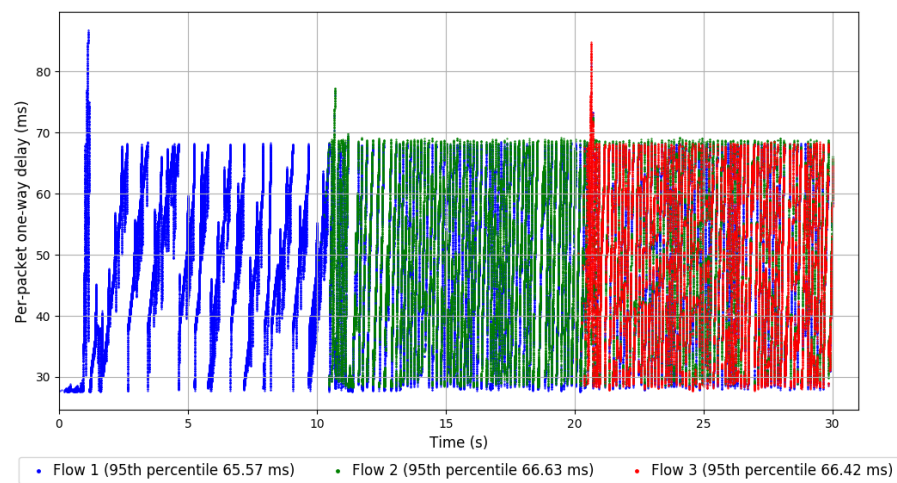
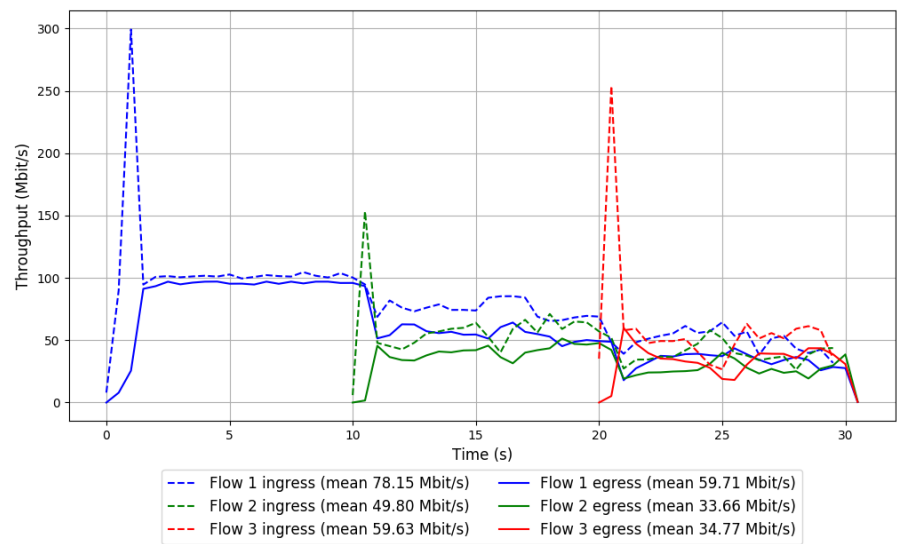


Run 10: Statistics of FillP

Start at: 2018-05-30 19:19:56  
End at: 2018-05-30 19:20:26  
Local clock offset: 0.496 ms  
Remote clock offset: -2.069 ms

# Below is generated by plot.py at 2018-05-30 19:39:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.65 Mbit/s  
95th percentile per-packet one-way delay: 65.956 ms  
Loss rate: 28.46%  
-- Flow 1:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 65.571 ms  
Loss rate: 23.50%  
-- Flow 2:  
Average throughput: 33.66 Mbit/s  
95th percentile per-packet one-way delay: 66.631 ms  
Loss rate: 32.37%  
-- Flow 3:  
Average throughput: 34.77 Mbit/s  
95th percentile per-packet one-way delay: 66.419 ms  
Loss rate: 41.51%

Run 10: Report of FillP — Data Link



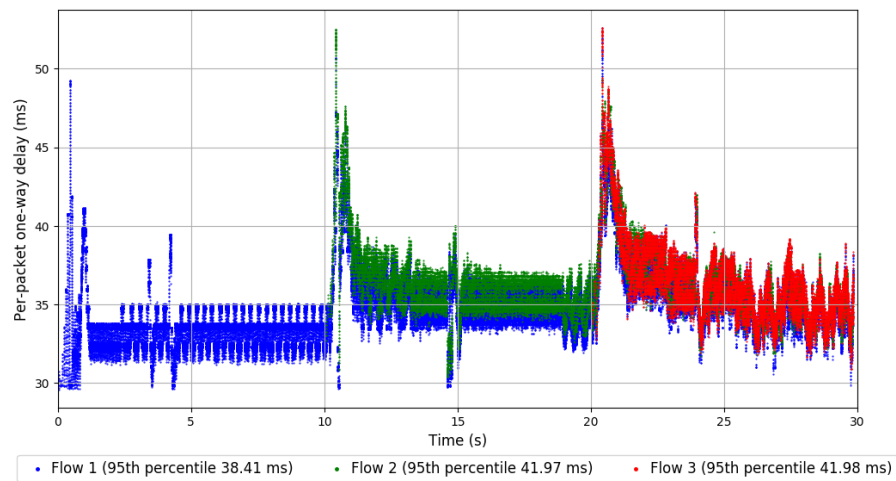
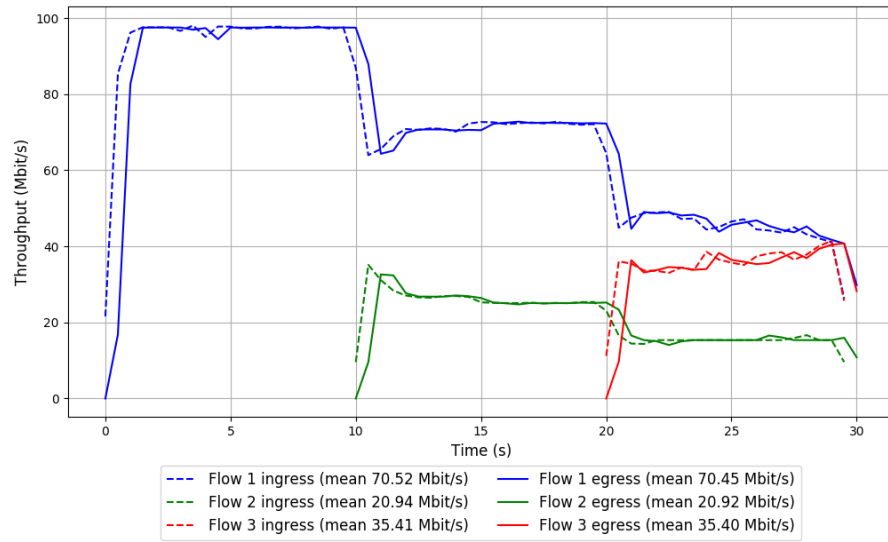
```
Run 1: Statistics of Indigo

Start at: 2018-05-30 15:54:14
End at: 2018-05-30 15:54:44
Local clock offset: 0.973 ms
Remote clock offset: -1.038 ms

# Below is generated by plot.py at 2018-05-30 19:39:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 39.582 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 38.415 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 41.966 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 41.979 ms
Loss rate: 0.00%
```



## Run 1: Report of Indigo — Data Link

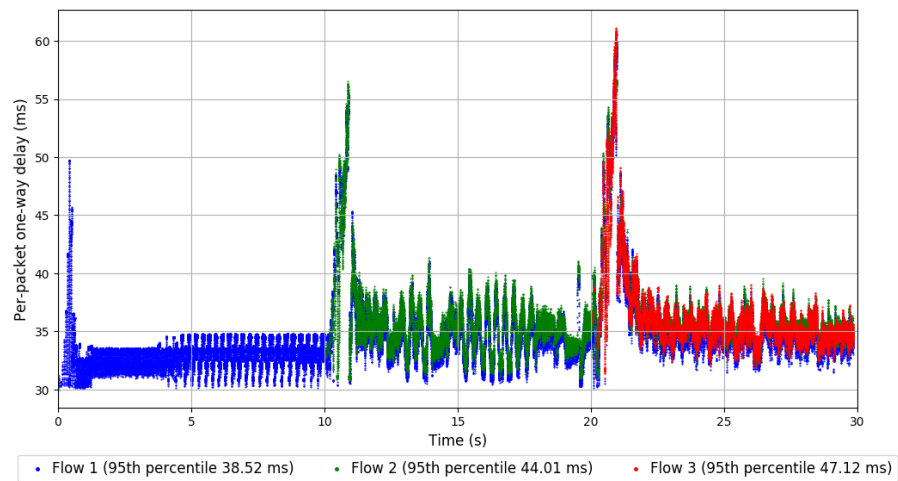
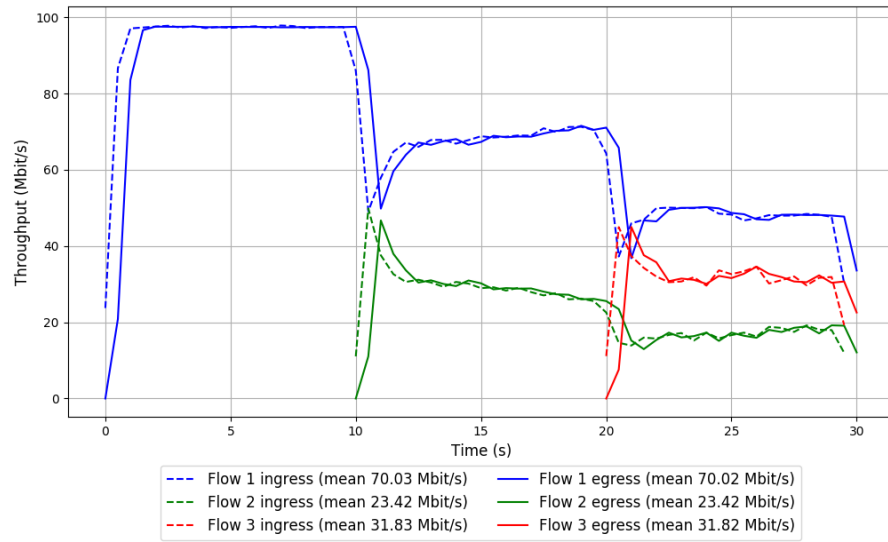


Run 2: Statistics of Indigo

Start at: 2018-05-30 16:15:44  
End at: 2018-05-30 16:16:14  
Local clock offset: 0.773 ms  
Remote clock offset: -0.373 ms

# Below is generated by plot.py at 2018-05-30 19:39:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.97 Mbit/s  
95th percentile per-packet one-way delay: 40.346 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 70.02 Mbit/s  
95th percentile per-packet one-way delay: 38.522 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 23.42 Mbit/s  
95th percentile per-packet one-way delay: 44.010 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 47.119 ms  
Loss rate: 0.02%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 16:37:23

End at: 2018-05-30 16:37:53

Local clock offset: 0.763 ms

Remote clock offset: -0.4 ms

# Below is generated by plot.py at 2018-05-30 19:39:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 40.969 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 40.205 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 34.15 Mbit/s

95th percentile per-packet one-way delay: 41.974 ms

Loss rate: 0.23%

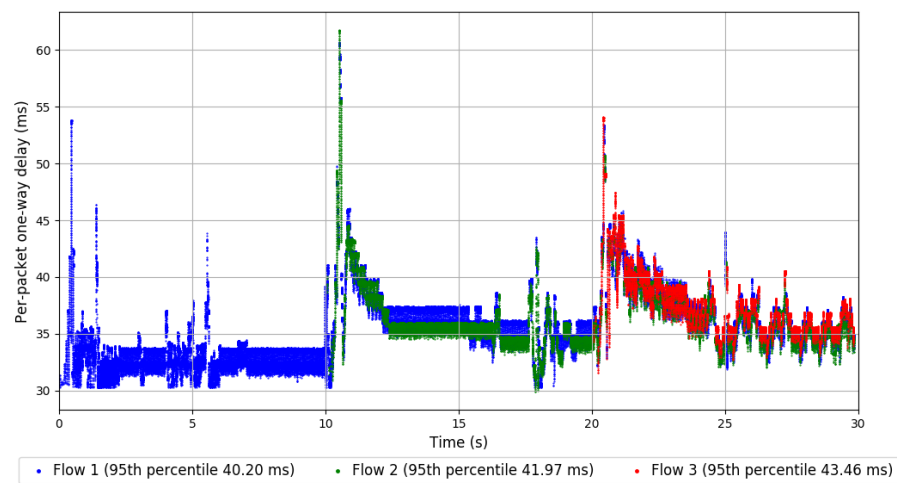
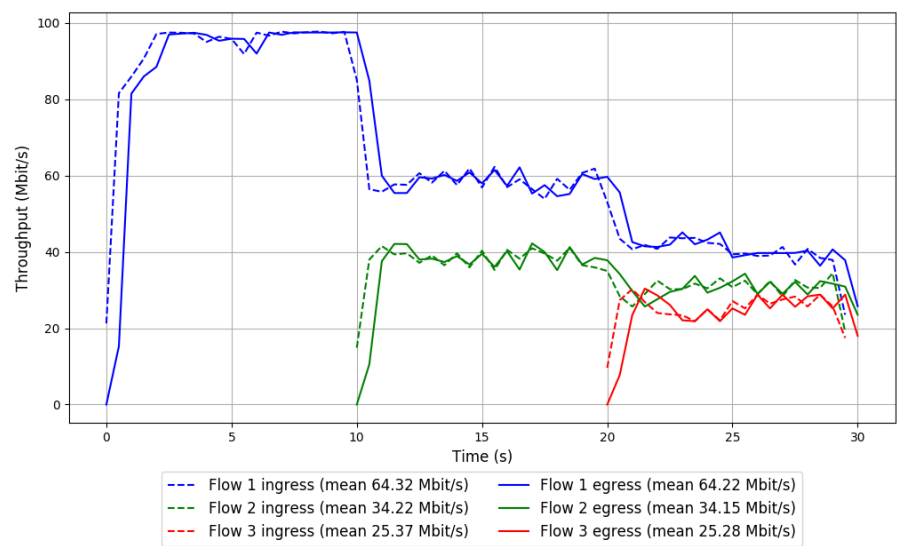
-- Flow 3:

Average throughput: 25.28 Mbit/s

95th percentile per-packet one-way delay: 43.458 ms

Loss rate: 0.36%

Run 3: Report of Indigo — Data Link

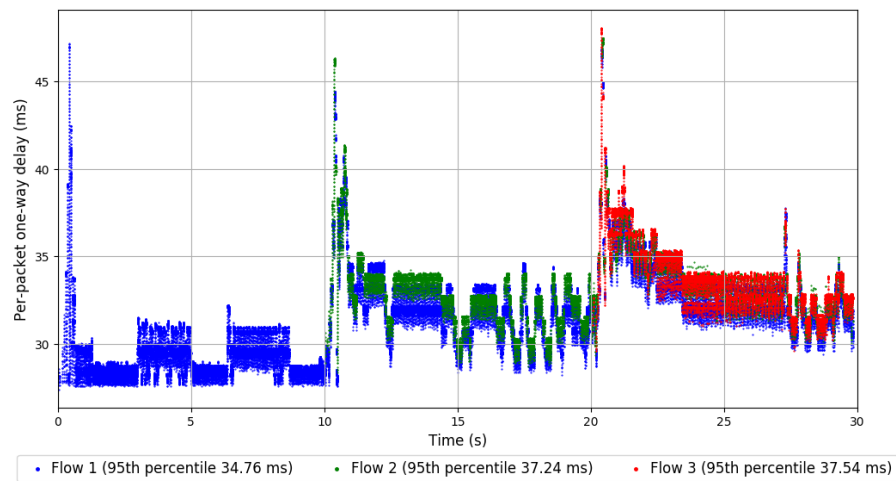
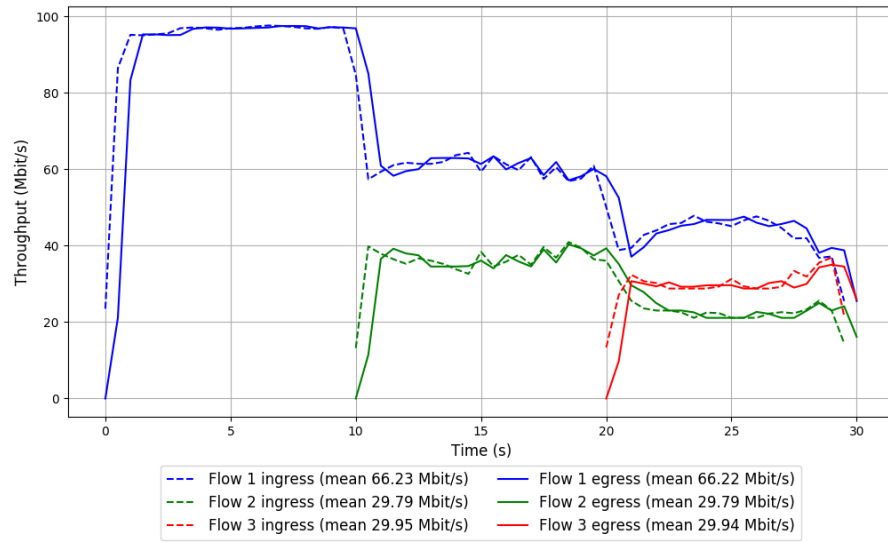


Run 4: Statistics of Indigo

Start at: 2018-05-30 16:58:51  
End at: 2018-05-30 16:59:21  
Local clock offset: 0.347 ms  
Remote clock offset: -1.749 ms

# Below is generated by plot.py at 2018-05-30 19:39:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 36.221 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.22 Mbit/s  
95th percentile per-packet one-way delay: 34.759 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.79 Mbit/s  
95th percentile per-packet one-way delay: 37.244 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.94 Mbit/s  
95th percentile per-packet one-way delay: 37.544 ms  
Loss rate: 0.00%

# Run 4: Report of Indigo — Data Link



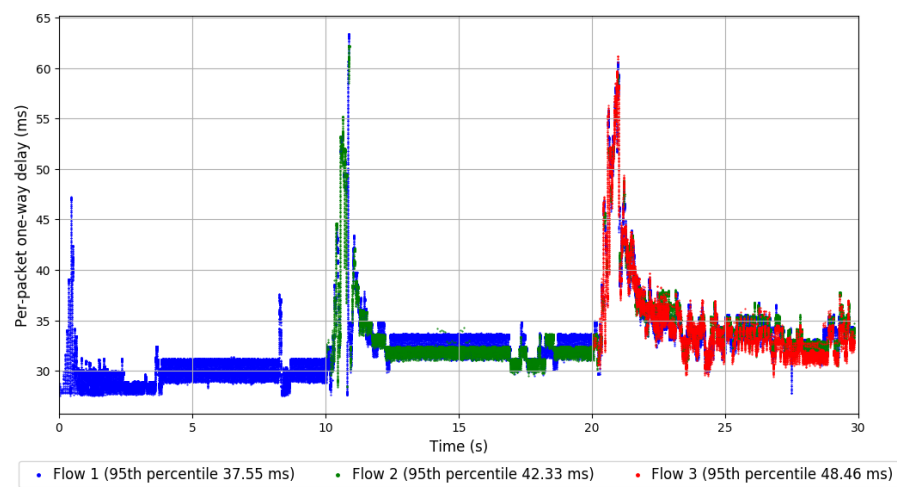
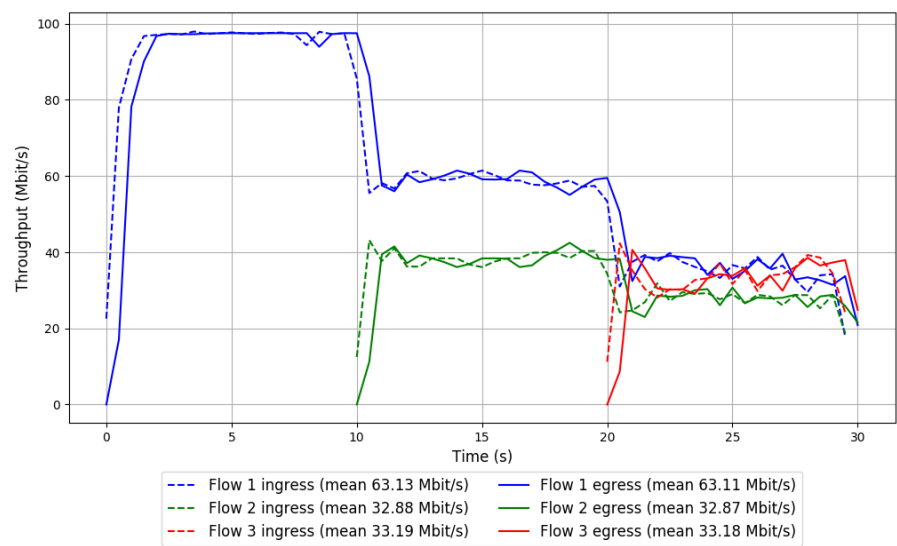
Run 5: Statistics of Indigo

Start at: 2018-05-30 17:22:58  
End at: 2018-05-30 17:23:28  
Local clock offset: 0.132 ms  
Remote clock offset: -1.928 ms

# Below is generated by plot.py at 2018-05-30 19:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 40.161 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 63.11 Mbit/s  
95th percentile per-packet one-way delay: 37.554 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 32.87 Mbit/s  
95th percentile per-packet one-way delay: 42.331 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 33.18 Mbit/s  
95th percentile per-packet one-way delay: 48.464 ms  
Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-30 17:47:14

End at: 2018-05-30 17:47:44

Local clock offset: 0.484 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2018-05-30 19:39:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.72 Mbit/s

95th percentile per-packet one-way delay: 40.864 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.17 Mbit/s

95th percentile per-packet one-way delay: 39.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 41.184 ms

Loss rate: 0.00%

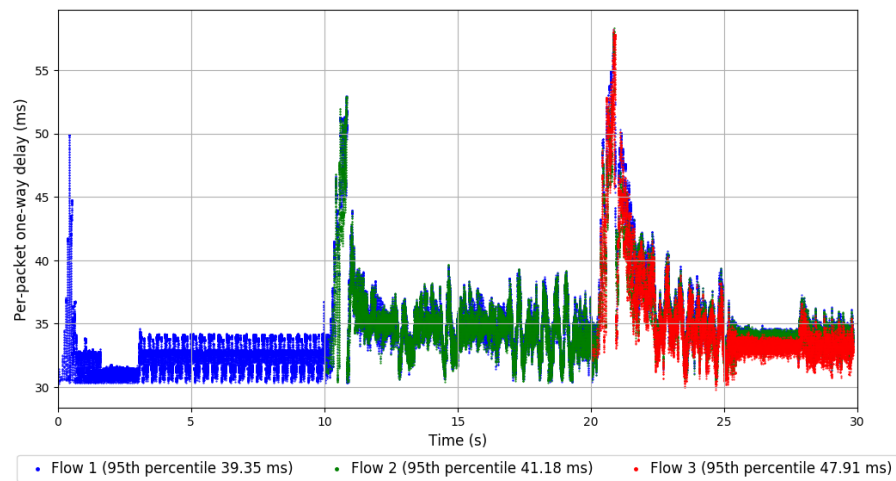
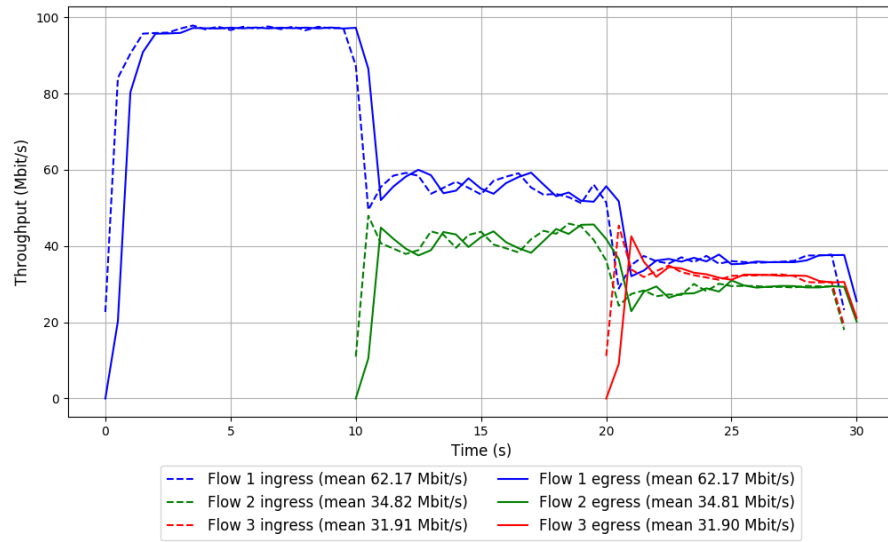
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 47.910 ms

Loss rate: 0.00%

## Run 6: Report of Indigo — Data Link

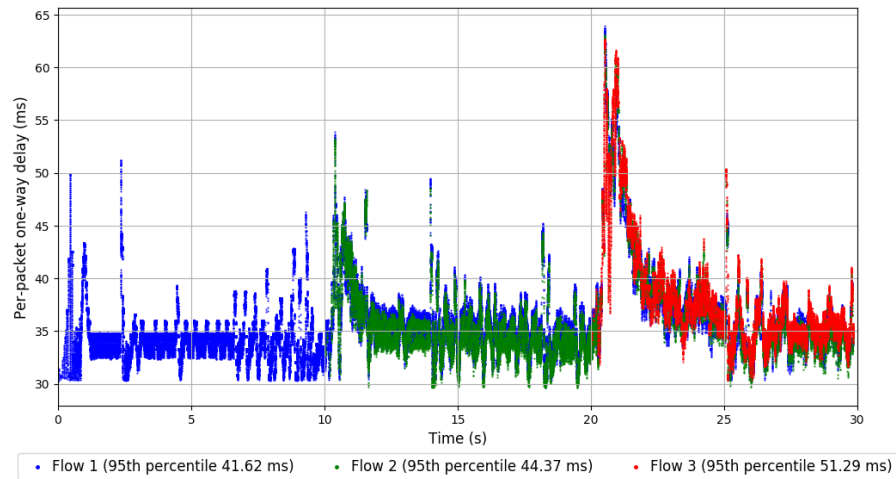
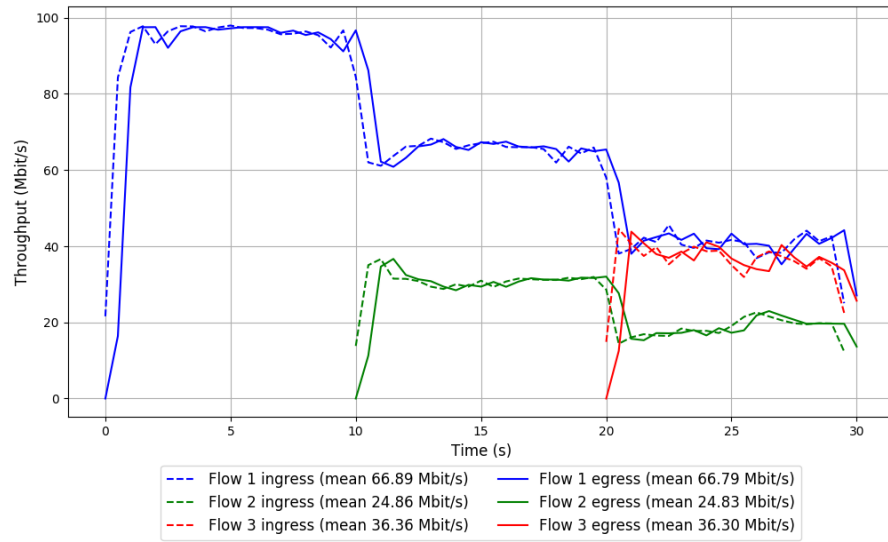


Run 7: Statistics of Indigo

Start at: 2018-05-30 18:08:42  
End at: 2018-05-30 18:09:12  
Local clock offset: 0.702 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-05-30 19:40:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.18 Mbit/s  
95th percentile per-packet one-way delay: 43.364 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 66.79 Mbit/s  
95th percentile per-packet one-way delay: 41.617 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 44.368 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 36.30 Mbit/s  
95th percentile per-packet one-way delay: 51.292 ms  
Loss rate: 0.14%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 18:30:12

End at: 2018-05-30 18:30:42

Local clock offset: 0.782 ms

Remote clock offset: 0.491 ms

# Below is generated by plot.py at 2018-05-30 19:40:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 40.112 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 38.636 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 41.238 ms

Loss rate: 0.04%

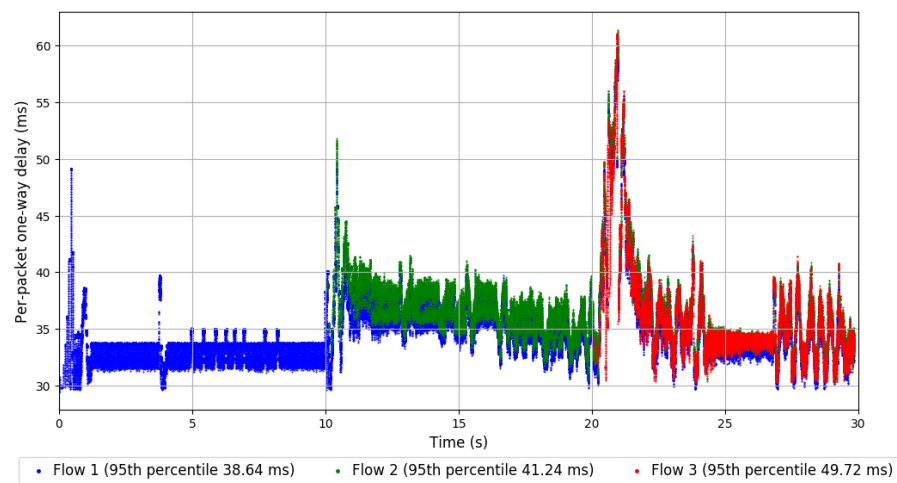
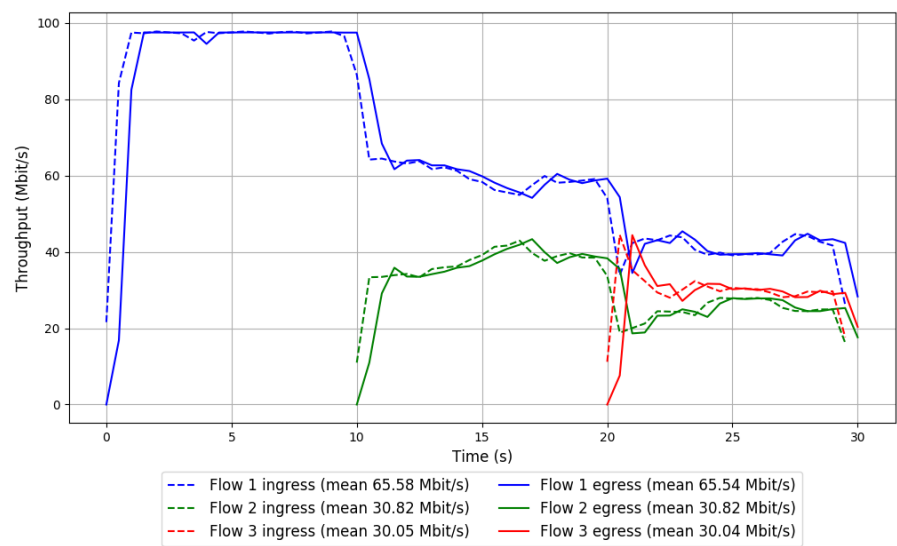
-- Flow 3:

Average throughput: 30.04 Mbit/s

95th percentile per-packet one-way delay: 49.721 ms

Loss rate: 0.05%

Run 8: Report of Indigo — Data Link



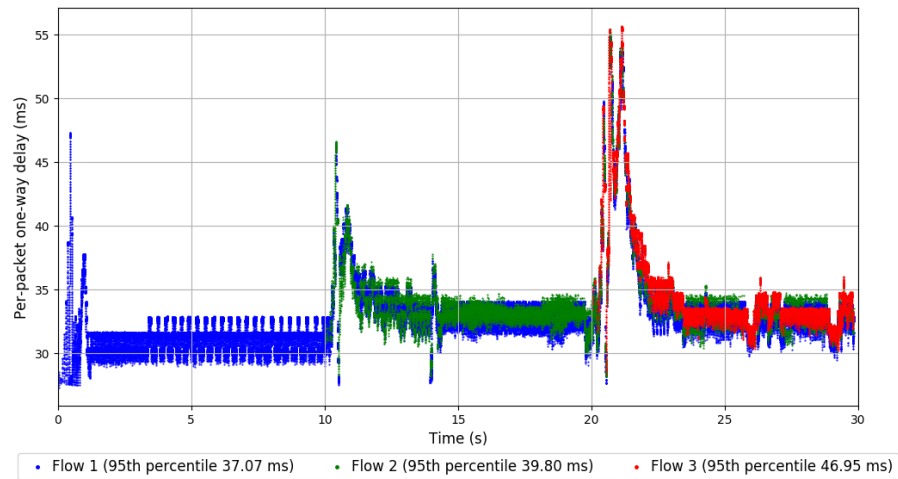
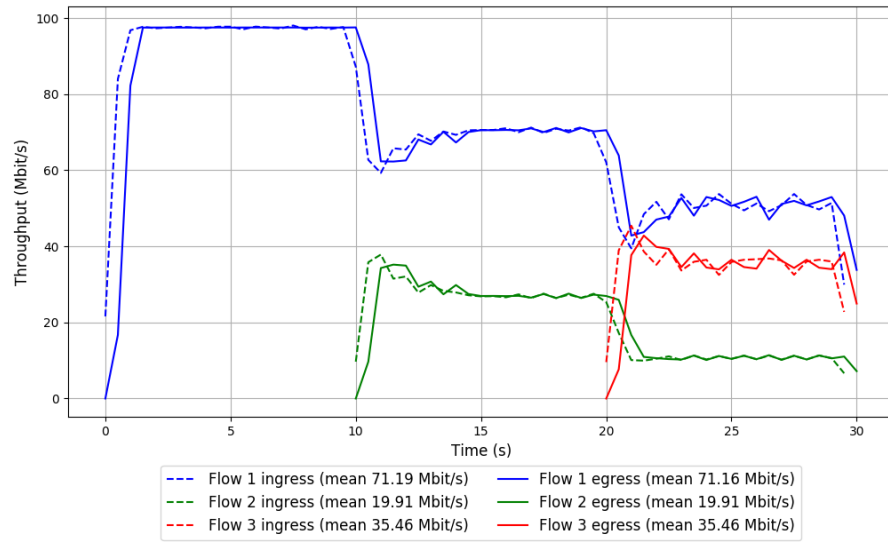
Run 9: Statistics of Indigo

Start at: 2018-05-30 18:51:42  
End at: 2018-05-30 18:52:12  
Local clock offset: 0.539 ms  
Remote clock offset: -0.827 ms

# Below is generated by plot.py at 2018-05-30 19:40:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 38.748 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 71.16 Mbit/s  
95th percentile per-packet one-way delay: 37.071 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 19.91 Mbit/s  
95th percentile per-packet one-way delay: 39.801 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 35.46 Mbit/s  
95th percentile per-packet one-way delay: 46.951 ms  
Loss rate: 0.00%



## Run 9: Report of Indigo — Data Link

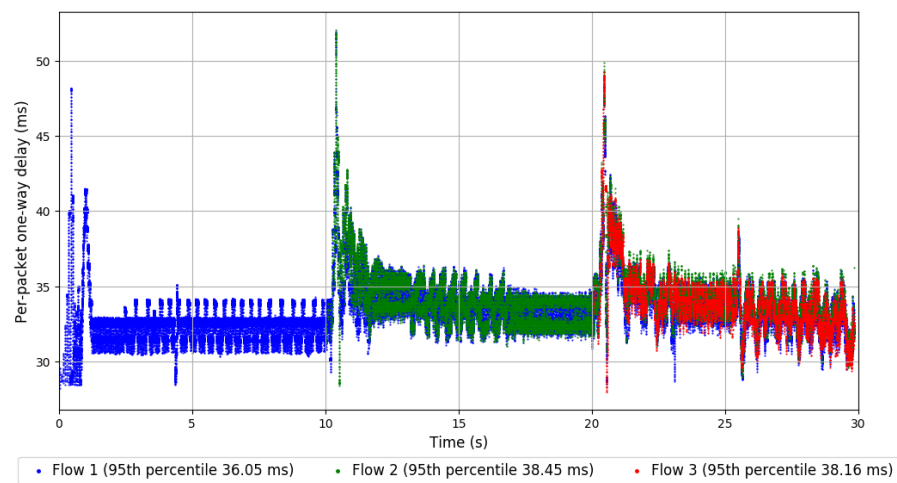
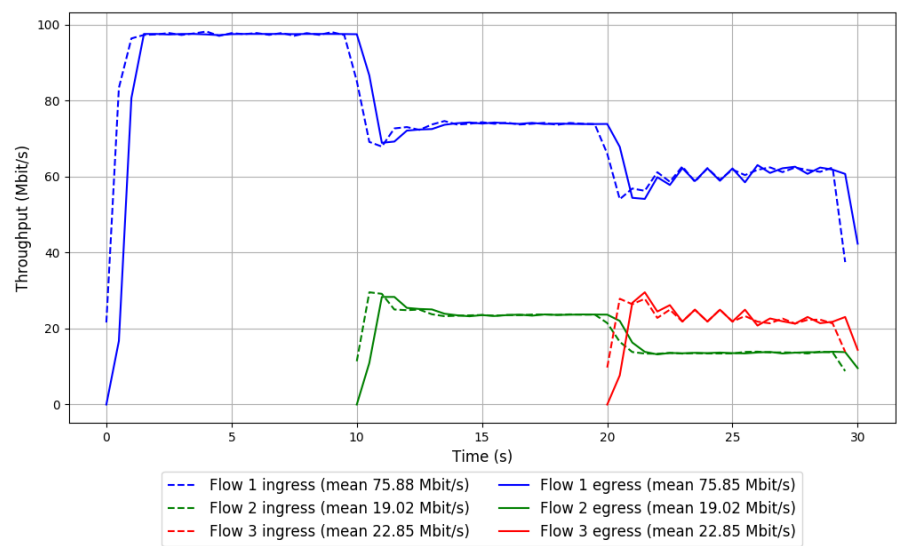


Run 10: Statistics of Indigo

Start at: 2018-05-30 19:13:13  
End at: 2018-05-30 19:13:43  
Local clock offset: 0.443 ms  
Remote clock offset: -2.002 ms

# Below is generated by plot.py at 2018-05-30 19:40:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 36.552 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 75.85 Mbit/s  
95th percentile per-packet one-way delay: 36.045 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 19.02 Mbit/s  
95th percentile per-packet one-way delay: 38.446 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 38.164 ms  
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

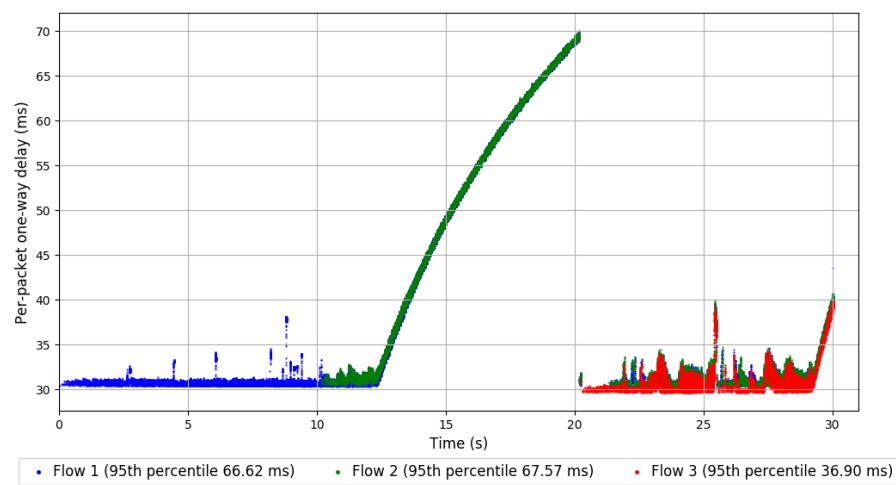
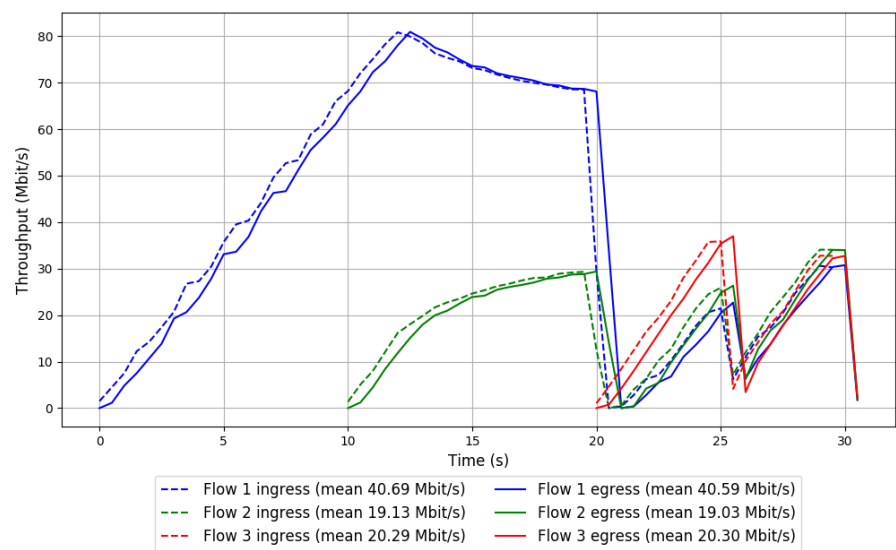


Run 1: Statistics of LEDBAT

Start at: 2018-05-30 15:56:59  
End at: 2018-05-30 15:57:29  
Local clock offset: 0.957 ms  
Remote clock offset: -0.988 ms

# Below is generated by plot.py at 2018-05-30 19:40:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.00 Mbit/s  
95th percentile per-packet one-way delay: 66.594 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 40.59 Mbit/s  
95th percentile per-packet one-way delay: 66.620 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 19.03 Mbit/s  
95th percentile per-packet one-way delay: 67.567 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 20.30 Mbit/s  
95th percentile per-packet one-way delay: 36.898 ms  
Loss rate: 0.24%

Run 1: Report of LEDBAT — Data Link

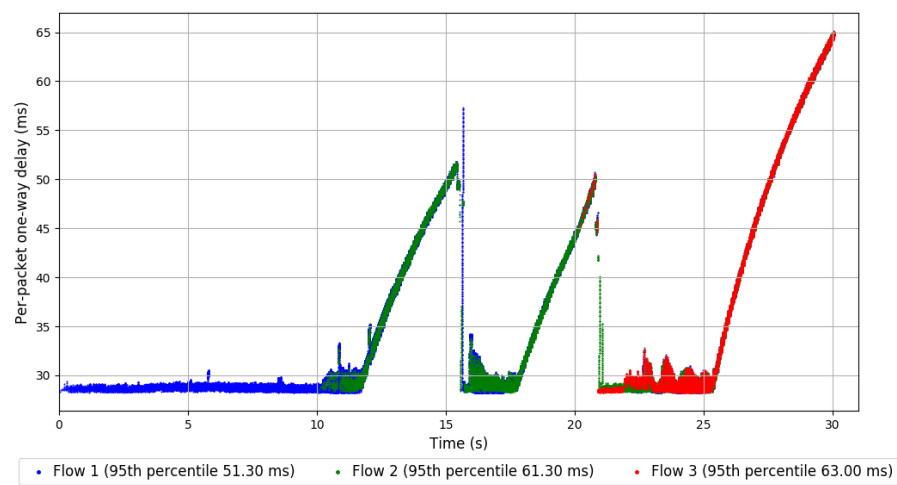
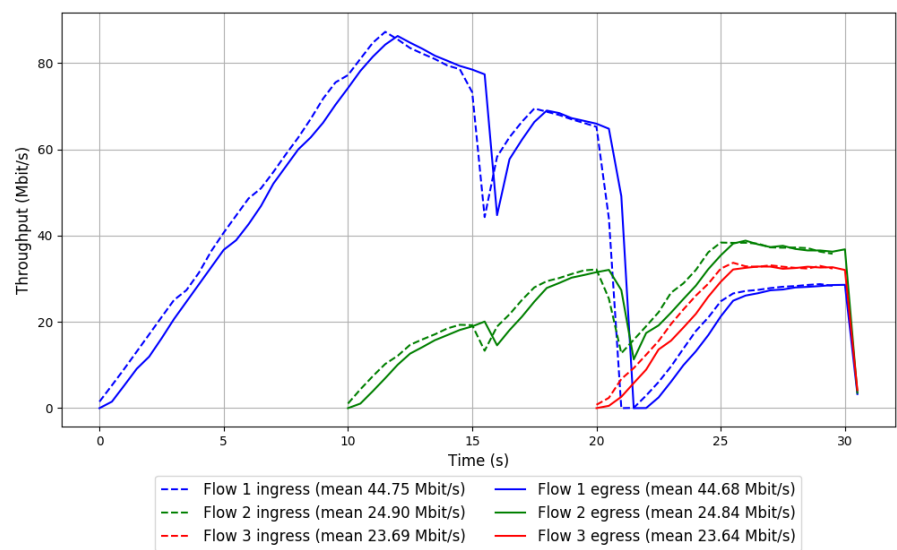


Run 2: Statistics of LEDBAT

Start at: 2018-05-30 16:18:30  
End at: 2018-05-30 16:19:00  
Local clock offset: 0.871 ms  
Remote clock offset: -2.809 ms

# Below is generated by plot.py at 2018-05-30 19:40:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.09 Mbit/s  
95th percentile per-packet one-way delay: 59.098 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 44.68 Mbit/s  
95th percentile per-packet one-way delay: 51.305 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 24.84 Mbit/s  
95th percentile per-packet one-way delay: 61.298 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 23.64 Mbit/s  
95th percentile per-packet one-way delay: 62.997 ms  
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-30 16:40:07

End at: 2018-05-30 16:40:37

Local clock offset: 0.674 ms

Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2018-05-30 19:40:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.51 Mbit/s

95th percentile per-packet one-way delay: 65.267 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 65.556 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 25.34 Mbit/s

95th percentile per-packet one-way delay: 65.768 ms

Loss rate: 0.19%

-- Flow 3:

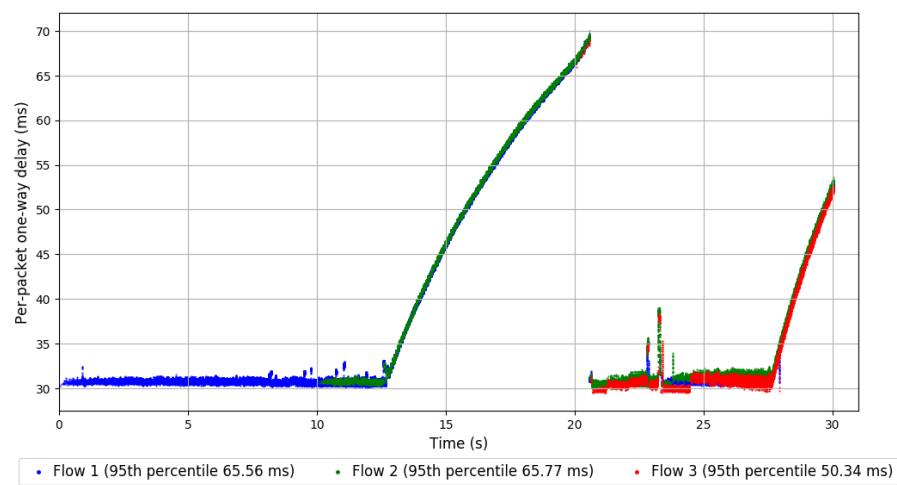
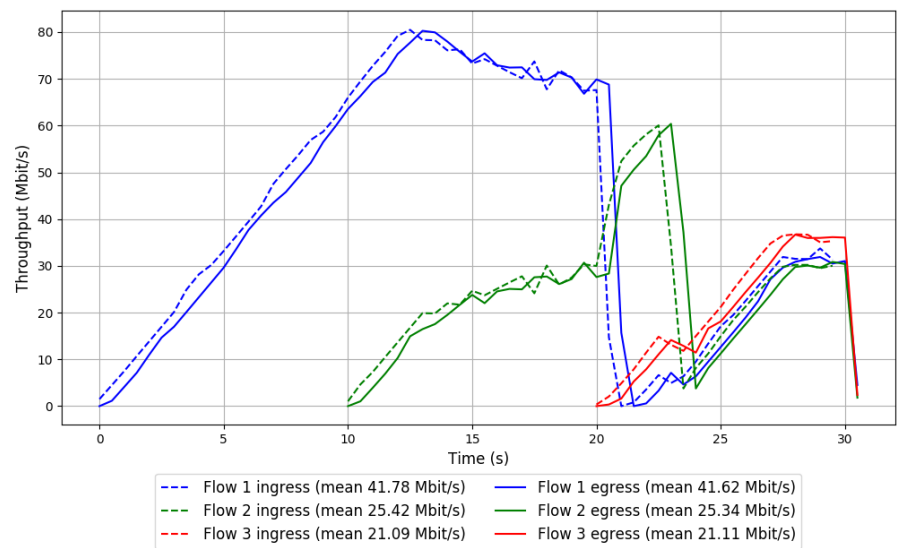
Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.02%



Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-30 17:01:50

End at: 2018-05-30 17:02:20

Local clock offset: 0.237 ms

Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2018-05-30 19:40:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 66.461 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 42.50 Mbit/s

95th percentile per-packet one-way delay: 66.468 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 68.120 ms

Loss rate: 0.64%

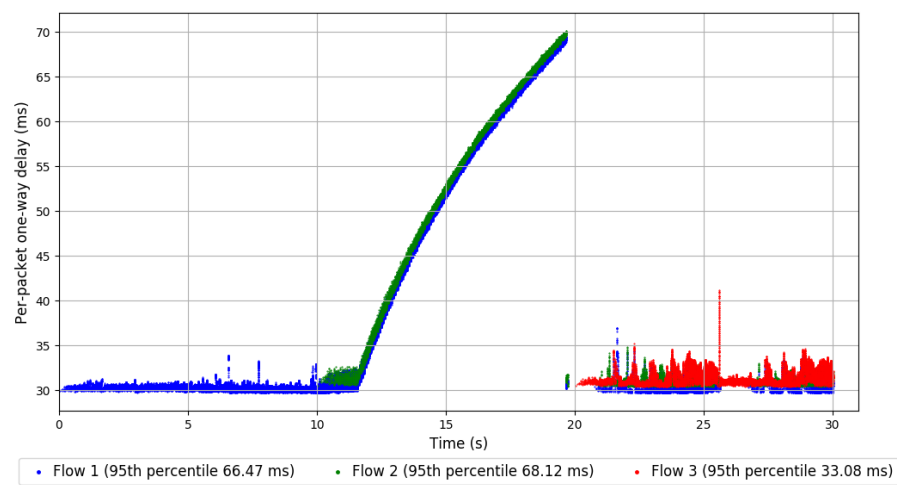
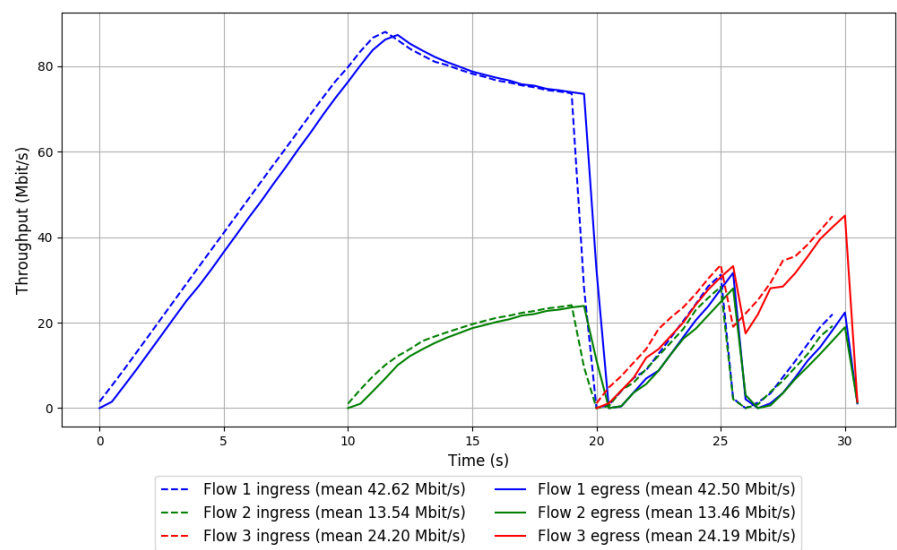
-- Flow 3:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 33.075 ms

Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-30 17:26:13

End at: 2018-05-30 17:26:43

Local clock offset: 0.105 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-05-30 19:41:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 66.929 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 43.82 Mbit/s

95th percentile per-packet one-way delay: 67.053 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 21.33 Mbit/s

95th percentile per-packet one-way delay: 67.127 ms

Loss rate: 0.22%

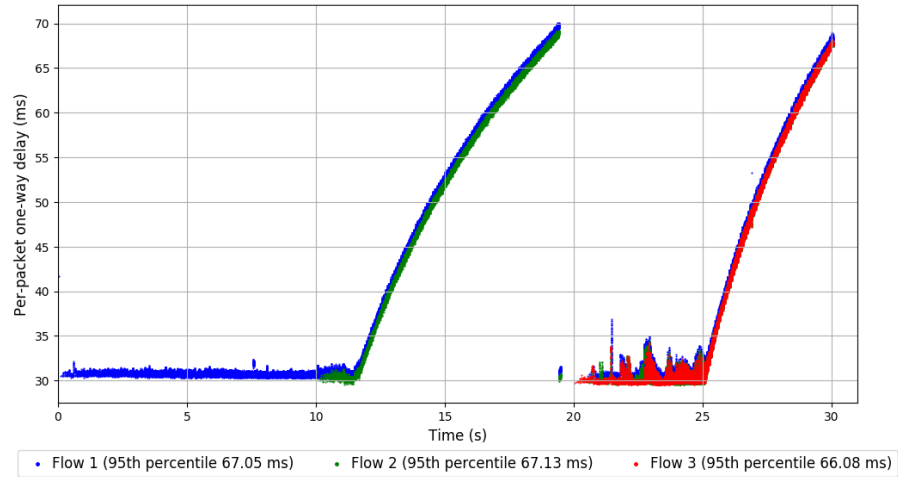
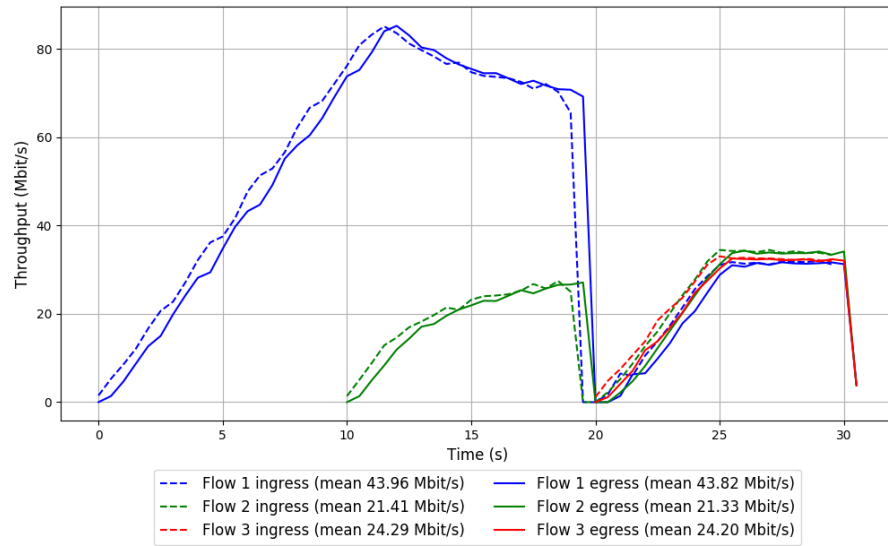
-- Flow 3:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 66.078 ms

Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-30 17:49:59

End at: 2018-05-30 17:50:29

Local clock offset: 0.548 ms

Remote clock offset: 0.487 ms

# Below is generated by plot.py at 2018-05-30 19:41:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.13 Mbit/s

95th percentile per-packet one-way delay: 64.868 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 63.139 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 66.613 ms

Loss rate: 0.27%

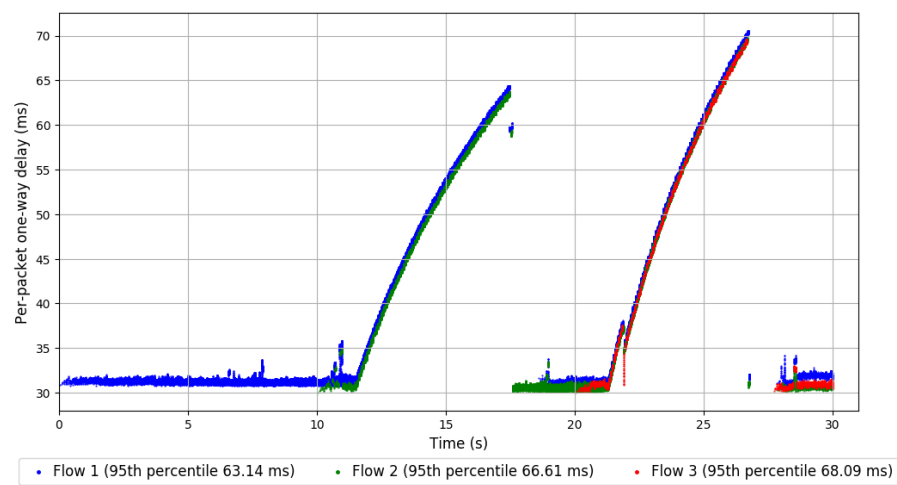
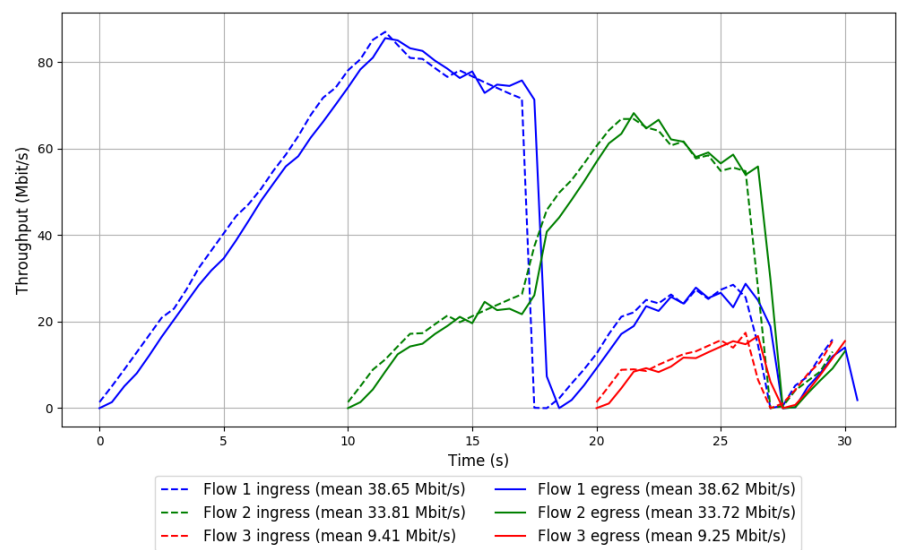
-- Flow 3:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 68.086 ms

Loss rate: 1.67%

Run 6: Report of LEDBAT — Data Link



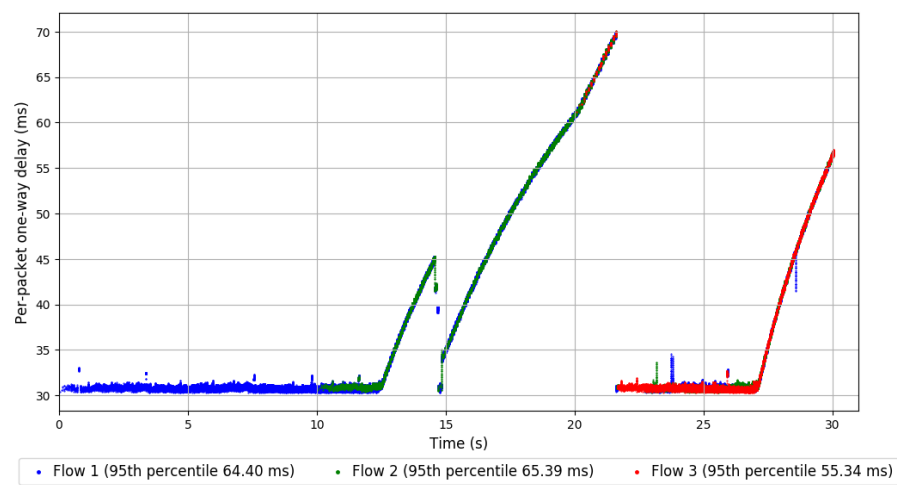
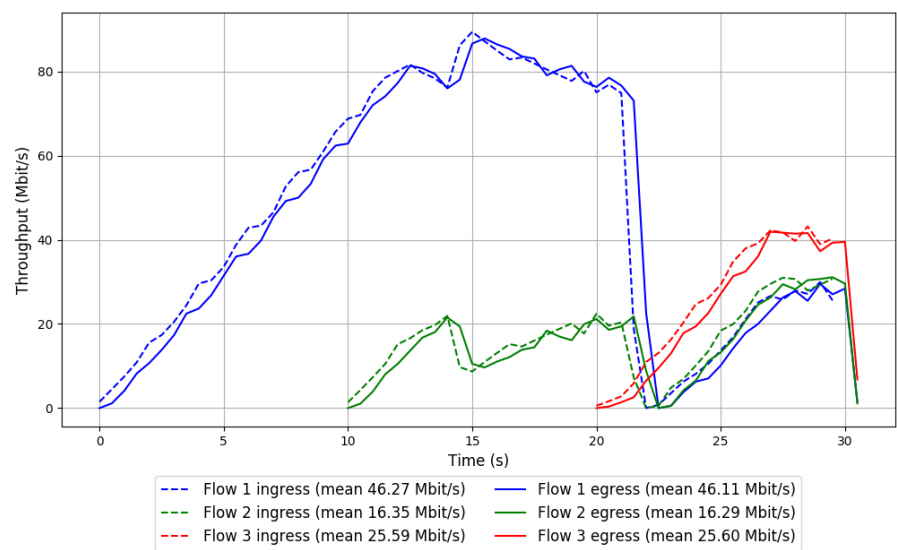
Run 7: Statistics of LEDBAT

Start at: 2018-05-30 18:11:27  
End at: 2018-05-30 18:11:57  
Local clock offset: 0.727 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-30 19:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.44 Mbit/s  
95th percentile per-packet one-way delay: 64.068 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 46.11 Mbit/s  
95th percentile per-packet one-way delay: 64.400 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 16.29 Mbit/s  
95th percentile per-packet one-way delay: 65.389 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 25.60 Mbit/s  
95th percentile per-packet one-way delay: 55.335 ms  
Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link

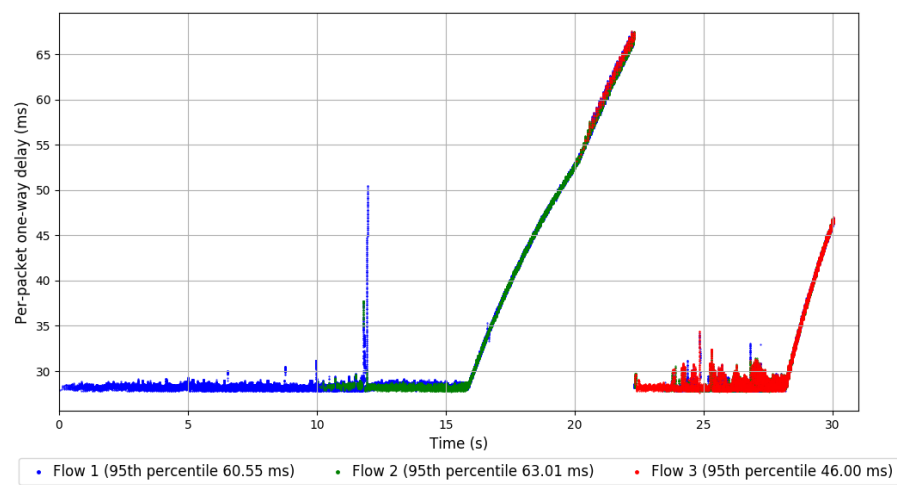
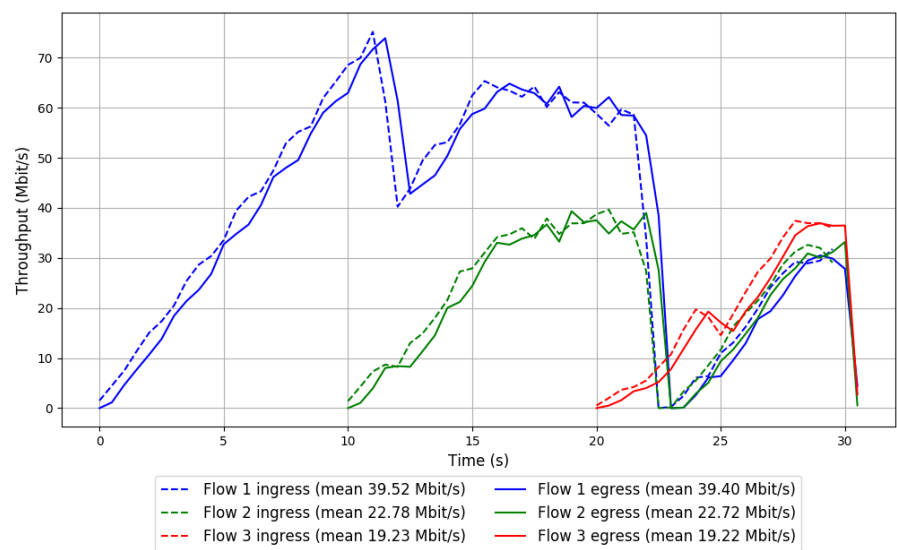


Run 8: Statistics of LEDBAT

Start at: 2018-05-30 18:32:58  
End at: 2018-05-30 18:33:28  
Local clock offset: 0.699 ms  
Remote clock offset: -1.358 ms

# Below is generated by plot.py at 2018-05-30 19:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.89 Mbit/s  
95th percentile per-packet one-way delay: 61.312 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 60.549 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 22.72 Mbit/s  
95th percentile per-packet one-way delay: 63.014 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 19.22 Mbit/s  
95th percentile per-packet one-way delay: 46.001 ms  
Loss rate: 0.15%

Run 8: Report of LEDBAT — Data Link

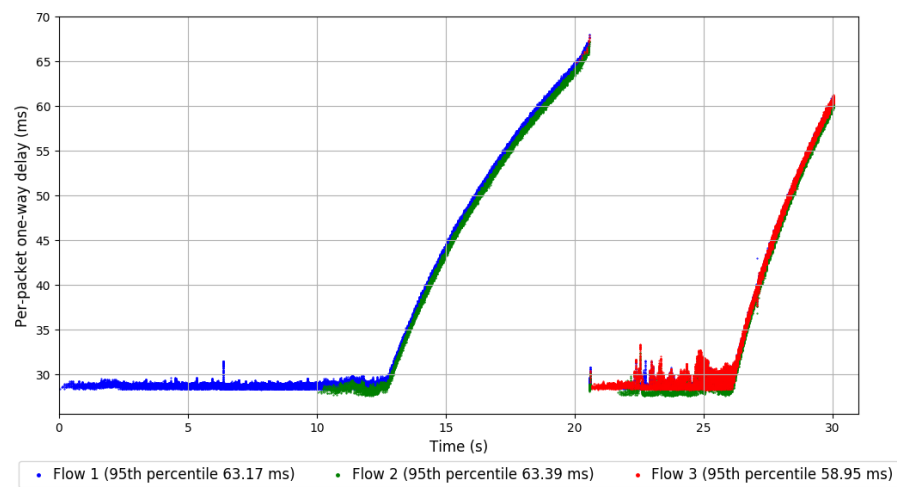
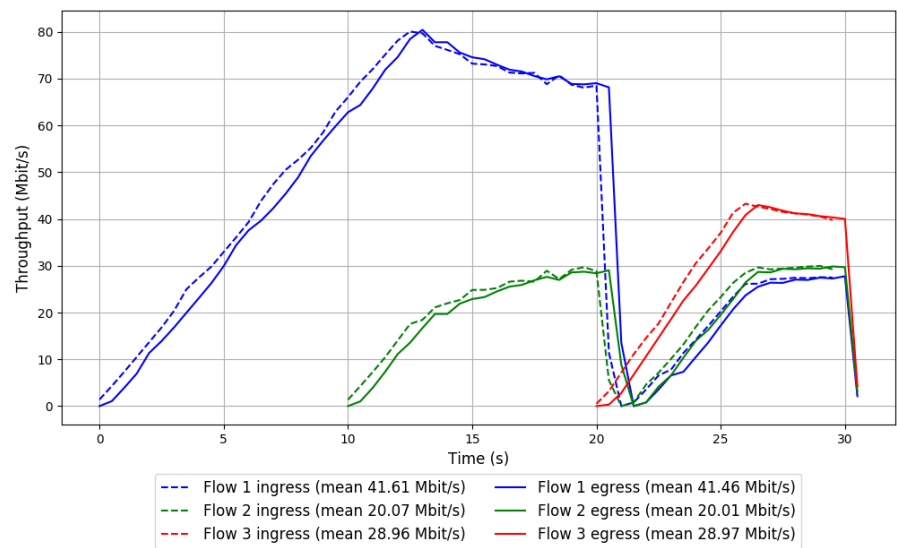


Run 9: Statistics of LEDBAT

Start at: 2018-05-30 18:54:28  
End at: 2018-05-30 18:54:58  
Local clock offset: 0.418 ms  
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2018-05-30 19:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.40 Mbit/s  
95th percentile per-packet one-way delay: 62.854 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 41.46 Mbit/s  
95th percentile per-packet one-way delay: 63.172 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 20.01 Mbit/s  
95th percentile per-packet one-way delay: 63.391 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 28.97 Mbit/s  
95th percentile per-packet one-way delay: 58.954 ms  
Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-30 19:15:58

End at: 2018-05-30 19:16:28

Local clock offset: 0.563 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-30 19:41:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.70 Mbit/s

95th percentile per-packet one-way delay: 57.350 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 43.07 Mbit/s

95th percentile per-packet one-way delay: 56.436 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 27.87 Mbit/s

95th percentile per-packet one-way delay: 58.184 ms

Loss rate: 0.07%

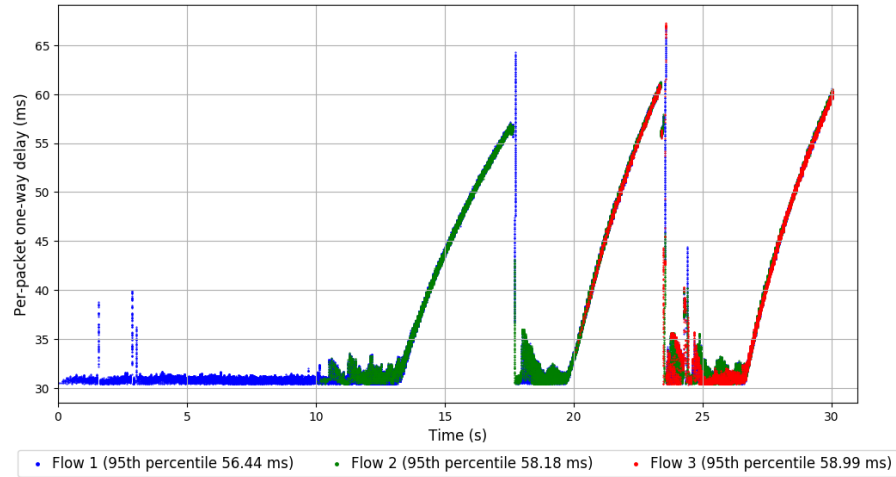
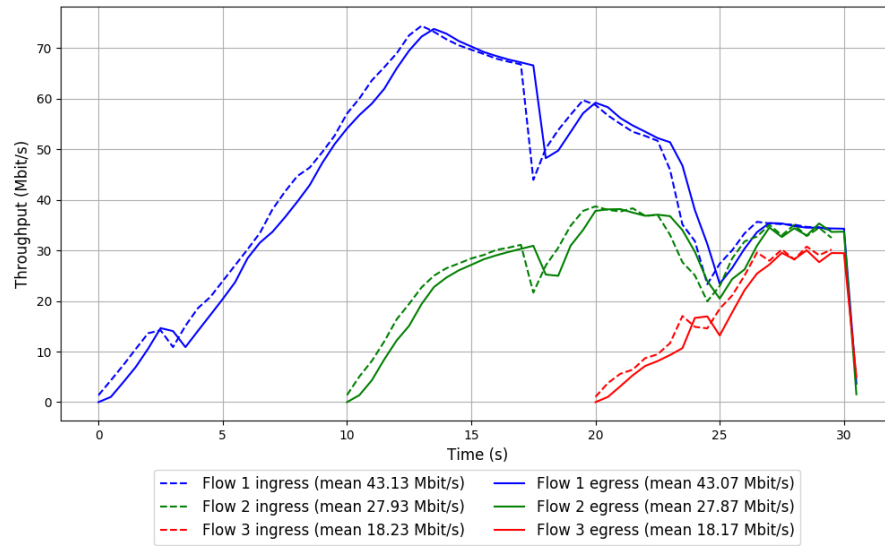
-- Flow 3:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 58.995 ms

Loss rate: 0.06%

# Run 10: Report of LEDBAT — Data Link



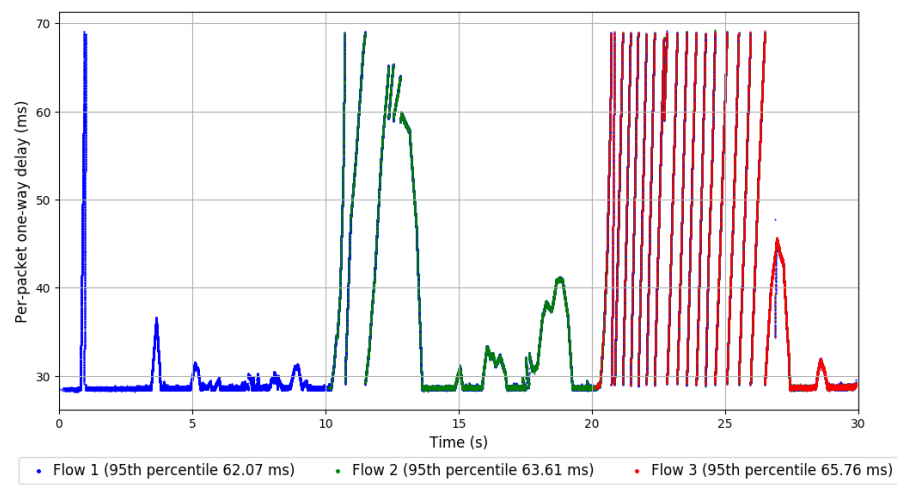
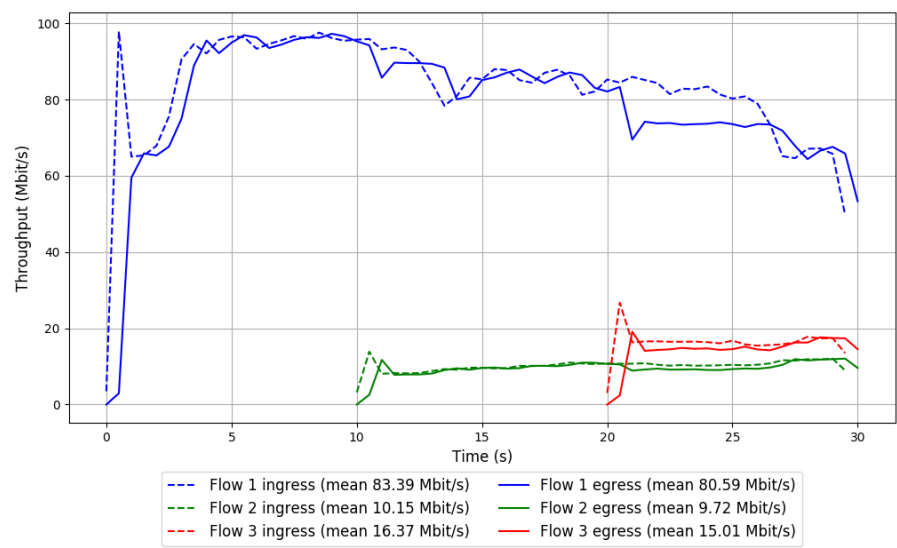
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 16:03:42  
End at: 2018-05-30 16:04:12  
Local clock offset: 0.815 ms  
Remote clock offset: -2.995 ms

# Below is generated by plot.py at 2018-05-30 19:41:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 62.552 ms  
Loss rate: 3.70%  
-- Flow 1:  
Average throughput: 80.59 Mbit/s  
95th percentile per-packet one-way delay: 62.072 ms  
Loss rate: 3.36%  
-- Flow 2:  
Average throughput: 9.72 Mbit/s  
95th percentile per-packet one-way delay: 63.606 ms  
Loss rate: 4.26%  
-- Flow 3:  
Average throughput: 15.01 Mbit/s  
95th percentile per-packet one-way delay: 65.757 ms  
Loss rate: 8.29%



Run 1: Report of PCC-Allegro — Data Link

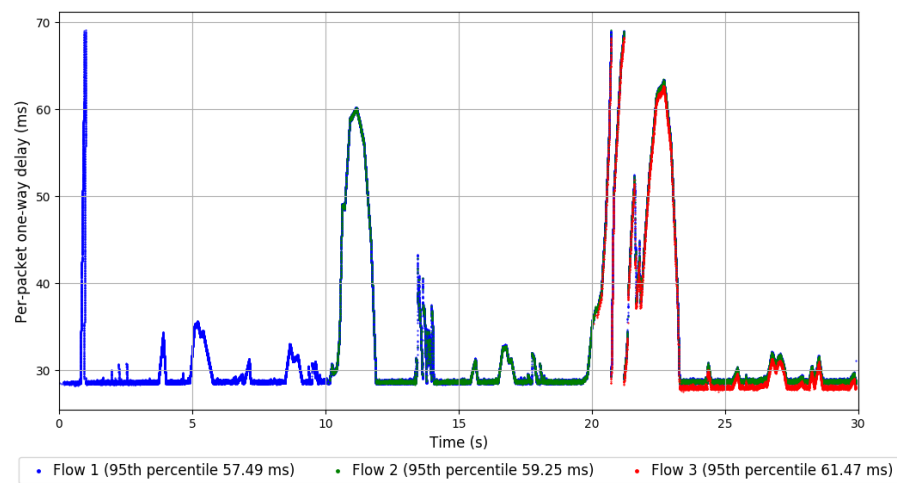
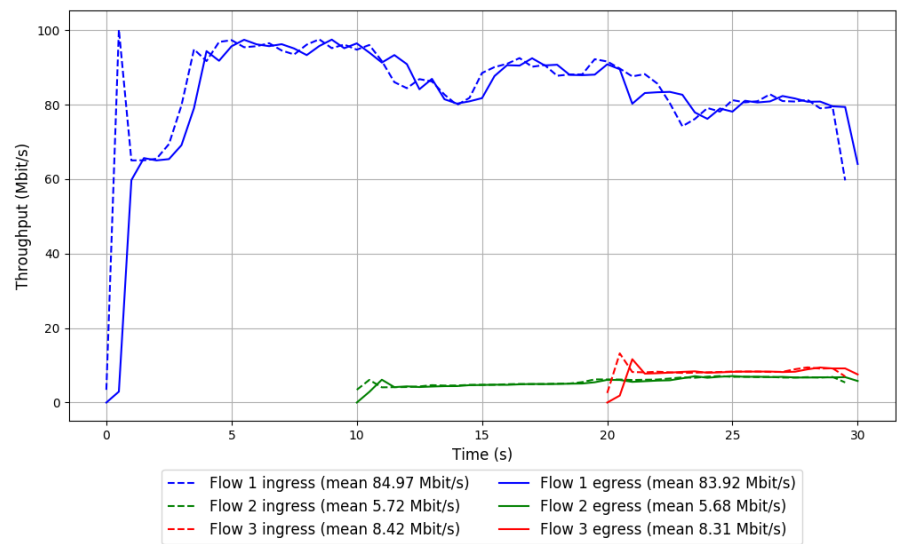


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 16:25:13  
End at: 2018-05-30 16:25:43  
Local clock offset: 0.732 ms  
Remote clock offset: -2.642 ms

# Below is generated by plot.py at 2018-05-30 19:41:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.44 Mbit/s  
95th percentile per-packet one-way delay: 57.864 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 83.92 Mbit/s  
95th percentile per-packet one-way delay: 57.492 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 5.68 Mbit/s  
95th percentile per-packet one-way delay: 59.249 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 8.31 Mbit/s  
95th percentile per-packet one-way delay: 61.473 ms  
Loss rate: 1.33%

Run 2: Report of PCC-Allegro — Data Link

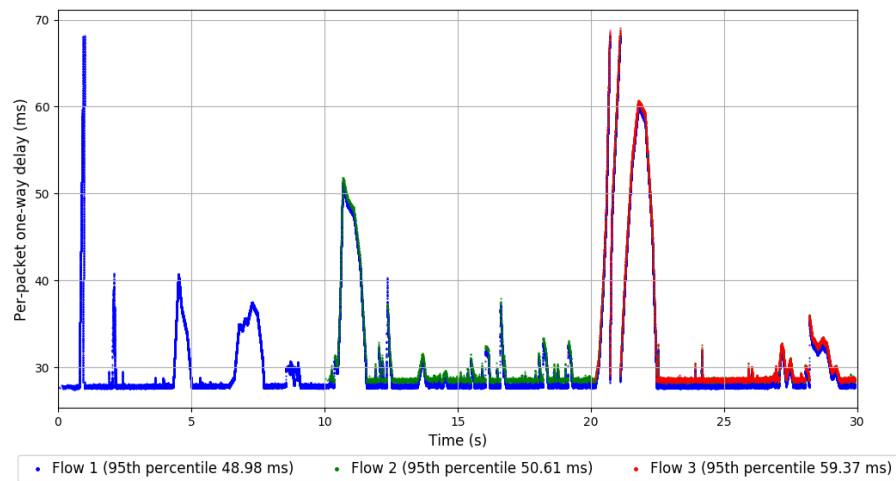
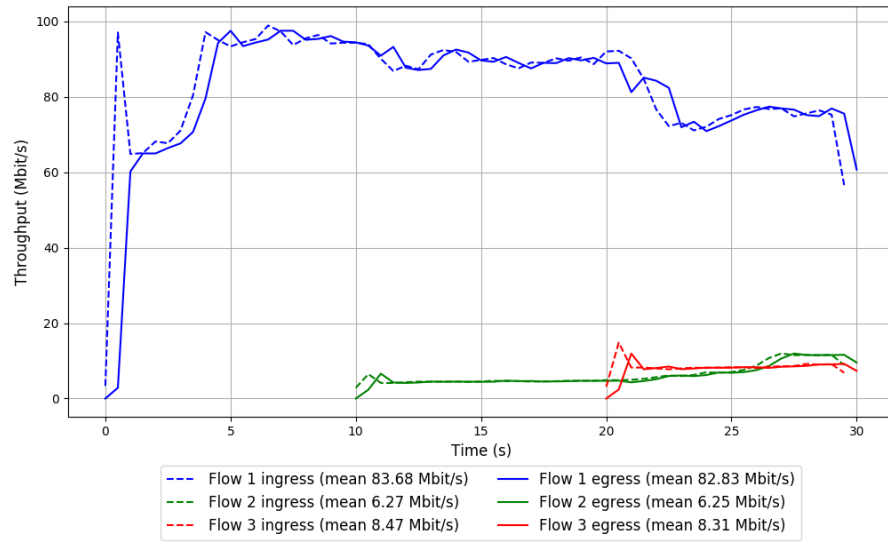


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 16:46:50  
End at: 2018-05-30 16:47:20  
Local clock offset: 0.488 ms  
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-05-30 19:42:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 49.595 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 82.83 Mbit/s  
95th percentile per-packet one-way delay: 48.982 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 6.25 Mbit/s  
95th percentile per-packet one-way delay: 50.612 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 8.31 Mbit/s  
95th percentile per-packet one-way delay: 59.371 ms  
Loss rate: 1.95%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 17:08:45

End at: 2018-05-30 17:09:15

Local clock offset: 0.258 ms

Remote clock offset: 0.561 ms

# Below is generated by plot.py at 2018-05-30 19:42:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.26 Mbit/s

95th percentile per-packet one-way delay: 45.603 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 45.414 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 47.075 ms

Loss rate: 0.24%

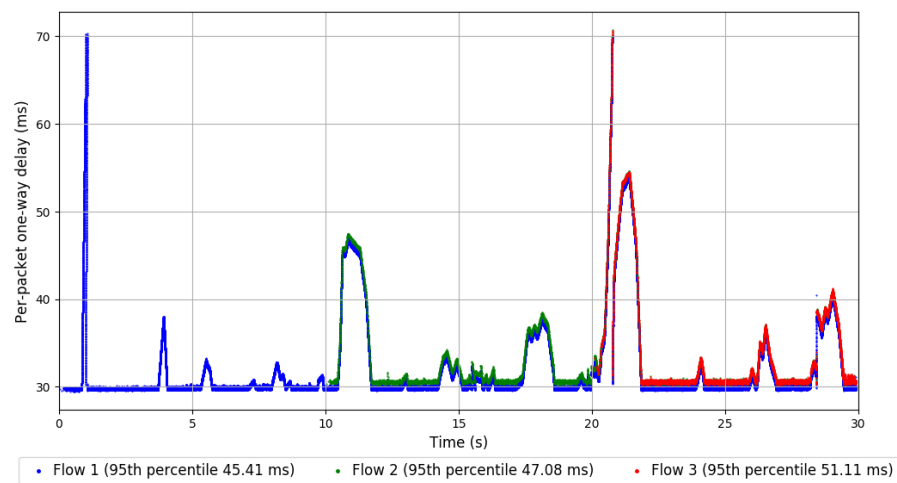
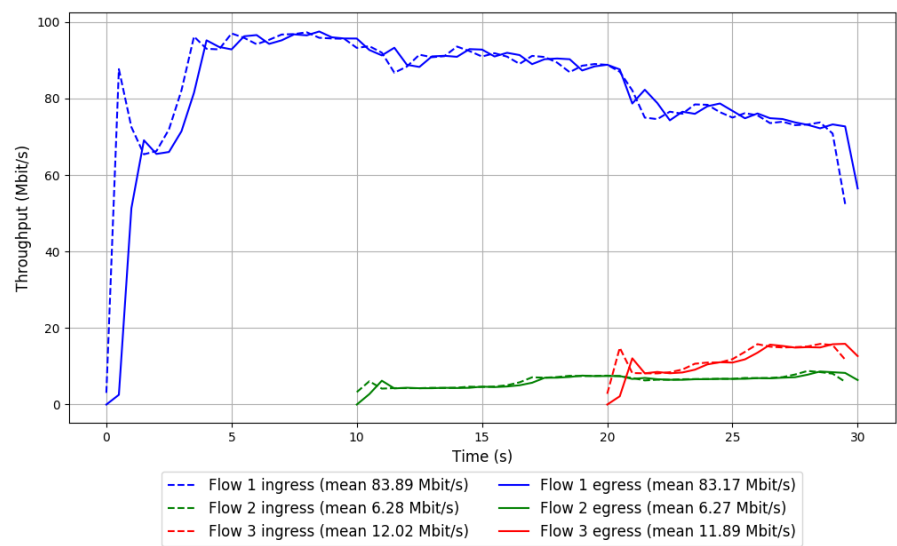
-- Flow 3:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 51.110 ms

Loss rate: 1.11%

Run 4: Report of PCC-Allegro — Data Link



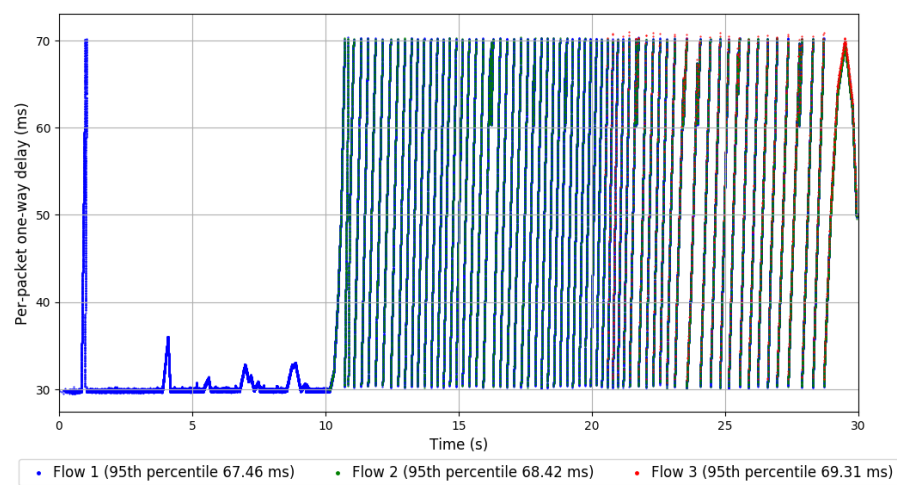
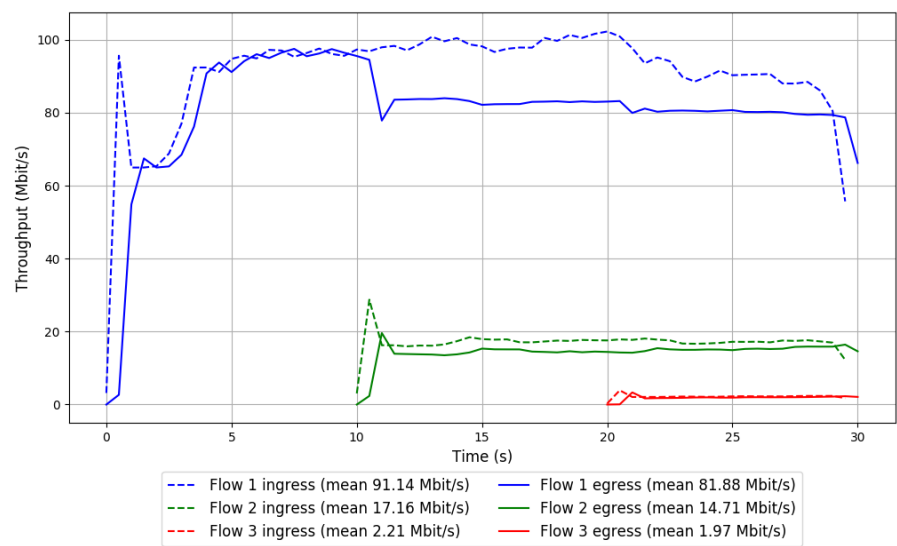
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 17:33:32  
End at: 2018-05-30 17:34:03  
Local clock offset: 0.04 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-05-30 19:42:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 67.647 ms  
Loss rate: 10.56%  
-- Flow 1:  
Average throughput: 81.88 Mbit/s  
95th percentile per-packet one-way delay: 67.461 ms  
Loss rate: 10.10%  
-- Flow 2:  
Average throughput: 14.71 Mbit/s  
95th percentile per-packet one-way delay: 68.422 ms  
Loss rate: 14.20%  
-- Flow 3:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 69.307 ms  
Loss rate: 10.69%



Run 5: Report of PCC-Allegro — Data Link

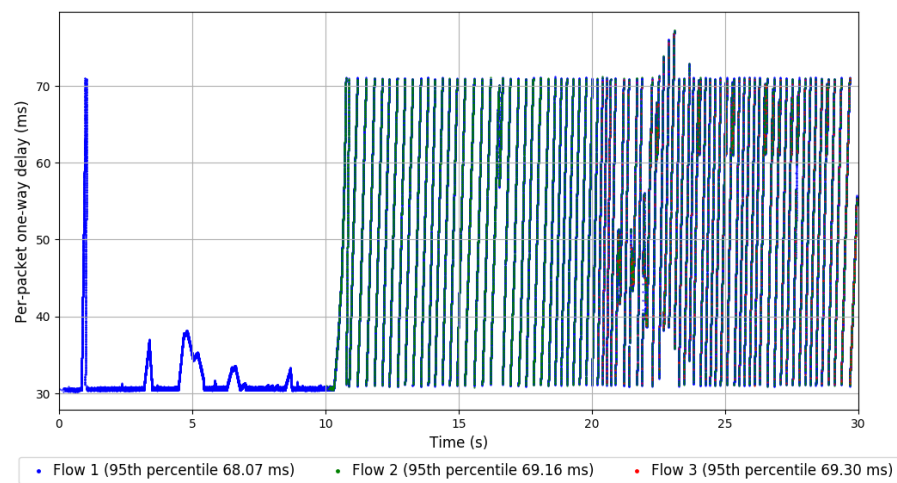
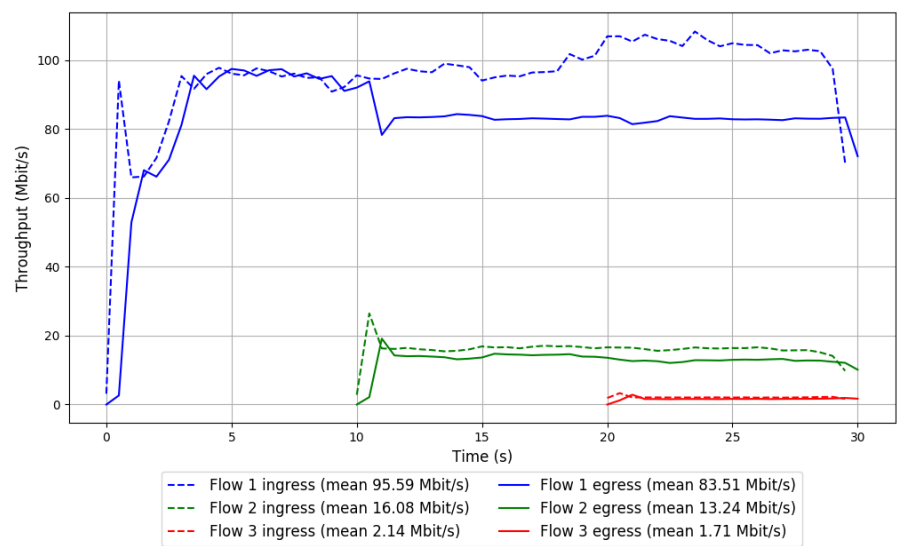


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 17:56:41  
End at: 2018-05-30 17:57:11  
Local clock offset: 0.541 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-30 19:42:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 68.239 ms  
Loss rate: 13.11%  
-- Flow 1:  
Average throughput: 83.51 Mbit/s  
95th percentile per-packet one-way delay: 68.067 ms  
Loss rate: 12.56%  
-- Flow 2:  
Average throughput: 13.24 Mbit/s  
95th percentile per-packet one-way delay: 69.158 ms  
Loss rate: 17.56%  
-- Flow 3:  
Average throughput: 1.71 Mbit/s  
95th percentile per-packet one-way delay: 69.298 ms  
Loss rate: 20.02%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 18:18:10

End at: 2018-05-30 18:18:40

Local clock offset: 0.743 ms

Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2018-05-30 19:42:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.30 Mbit/s

95th percentile per-packet one-way delay: 66.906 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 66.686 ms

Loss rate: 4.76%

-- Flow 2:

Average throughput: 14.88 Mbit/s

95th percentile per-packet one-way delay: 68.179 ms

Loss rate: 6.48%

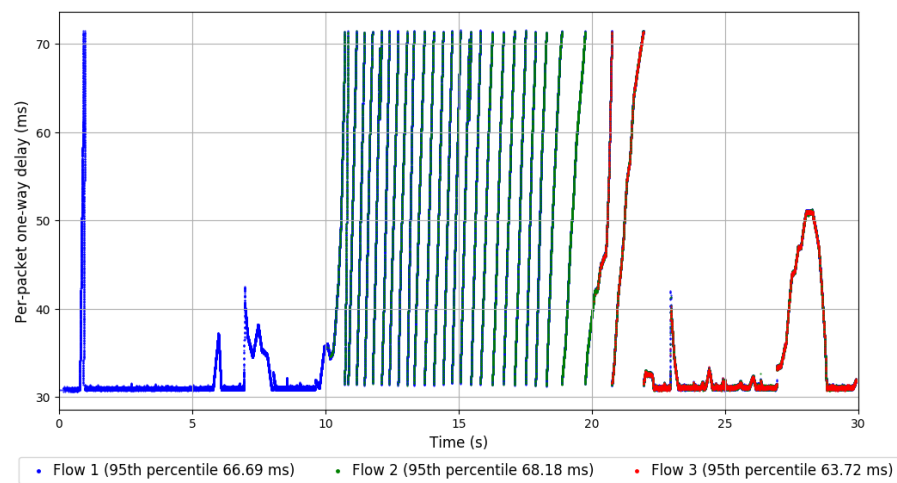
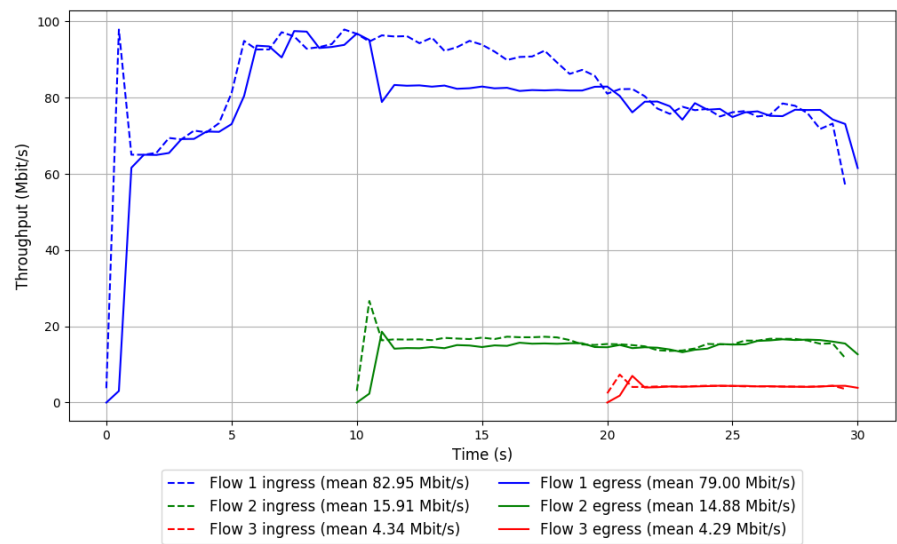
-- Flow 3:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 63.721 ms

Loss rate: 1.08%

Run 7: Report of PCC-Allegro — Data Link

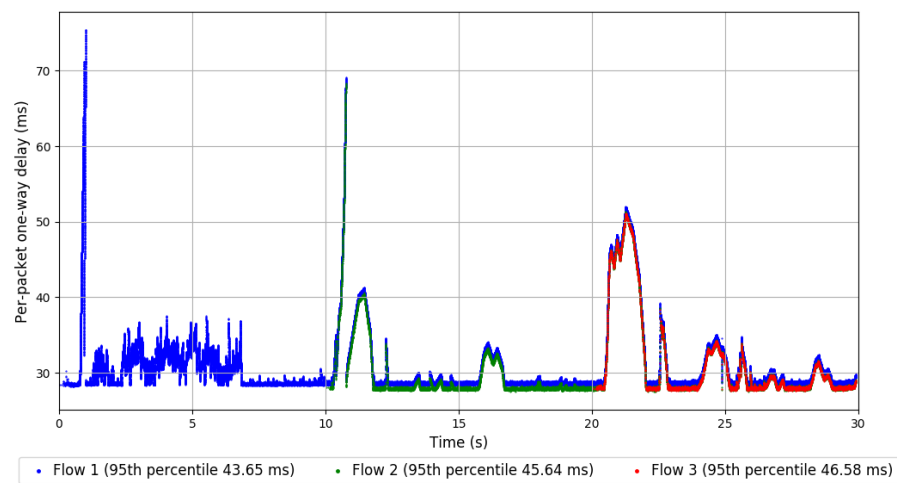
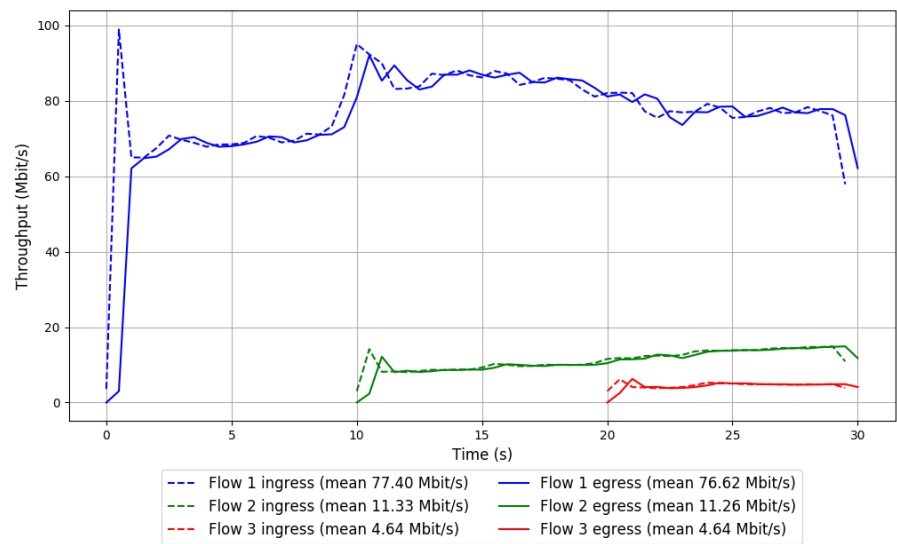


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 18:39:40  
End at: 2018-05-30 18:40:10  
Local clock offset: 0.654 ms  
Remote clock offset: -1.117 ms

# Below is generated by plot.py at 2018-05-30 19:42:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.64 Mbit/s  
95th percentile per-packet one-way delay: 44.619 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 76.62 Mbit/s  
95th percentile per-packet one-way delay: 43.651 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 11.26 Mbit/s  
95th percentile per-packet one-way delay: 45.642 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 4.64 Mbit/s  
95th percentile per-packet one-way delay: 46.581 ms  
Loss rate: 0.03%

Run 8: Report of PCC-Allegro — Data Link



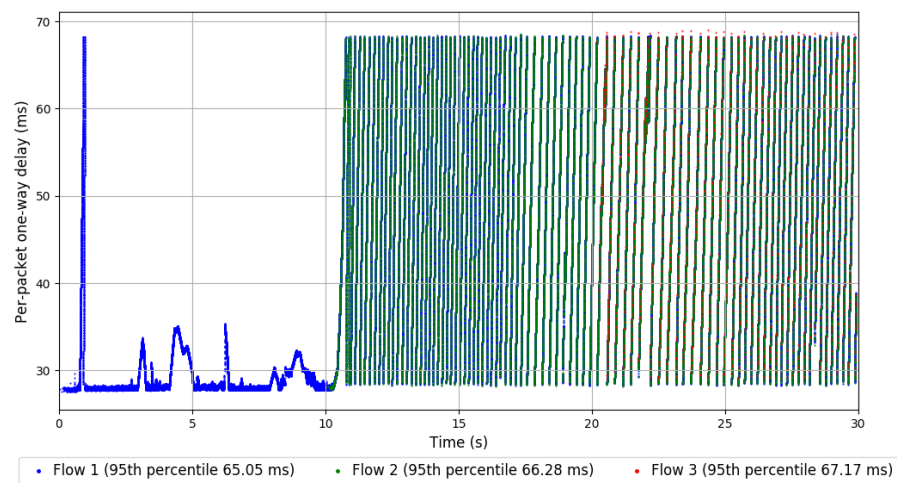
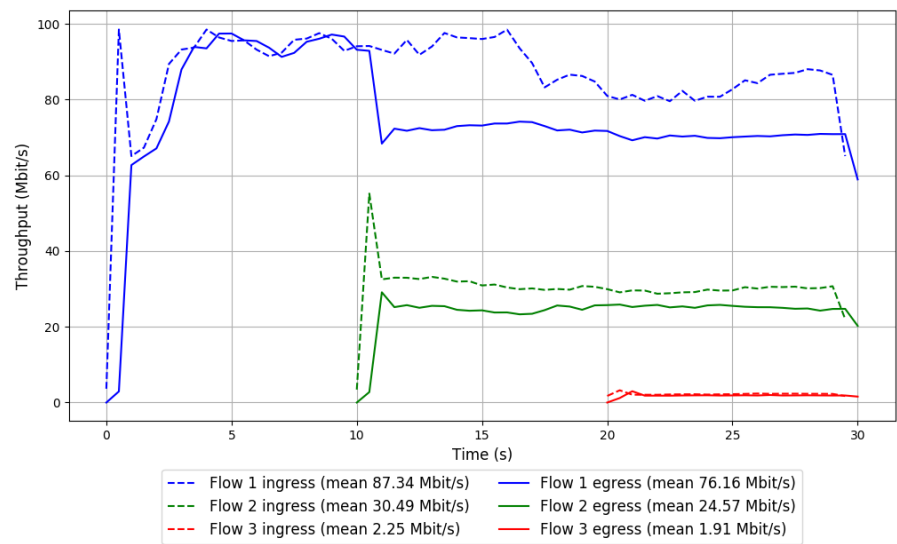
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 19:01:10  
End at: 2018-05-30 19:01:40  
Local clock offset: 0.285 ms  
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2018-05-30 19:42:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.13 Mbit/s  
95th percentile per-packet one-way delay: 65.382 ms  
Loss rate: 14.02%  
-- Flow 1:  
Average throughput: 76.16 Mbit/s  
95th percentile per-packet one-way delay: 65.045 ms  
Loss rate: 12.77%  
-- Flow 2:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 66.275 ms  
Loss rate: 19.38%  
-- Flow 3:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 67.165 ms  
Loss rate: 15.22%



Run 9: Report of PCC-Allegro — Data Link

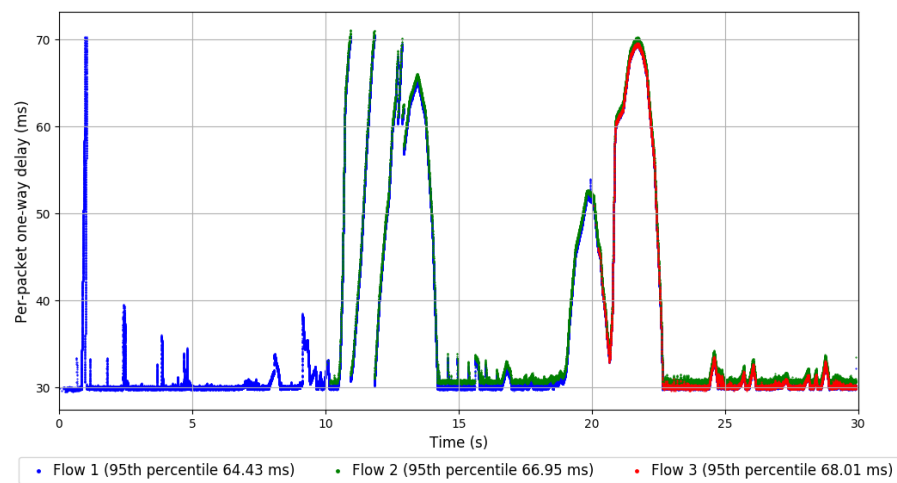
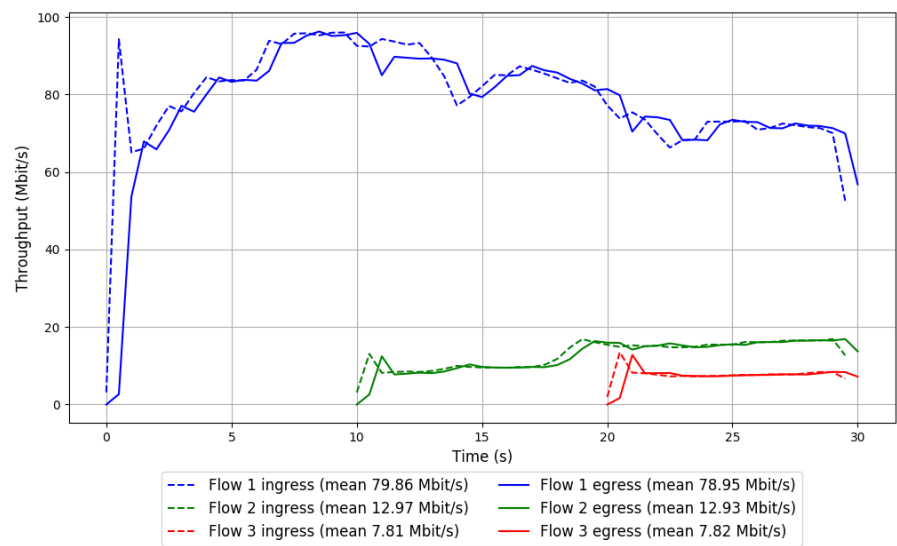


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 19:22:40  
End at: 2018-05-30 19:23:10  
Local clock offset: 0.517 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-30 19:42:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.12 Mbit/s  
95th percentile per-packet one-way delay: 64.751 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 78.95 Mbit/s  
95th percentile per-packet one-way delay: 64.428 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 12.93 Mbit/s  
95th percentile per-packet one-way delay: 66.948 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 7.82 Mbit/s  
95th percentile per-packet one-way delay: 68.007 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link

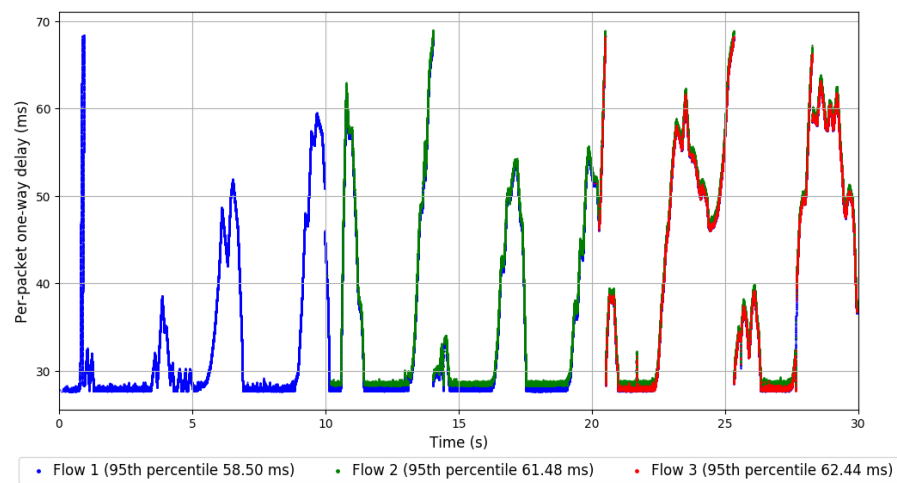
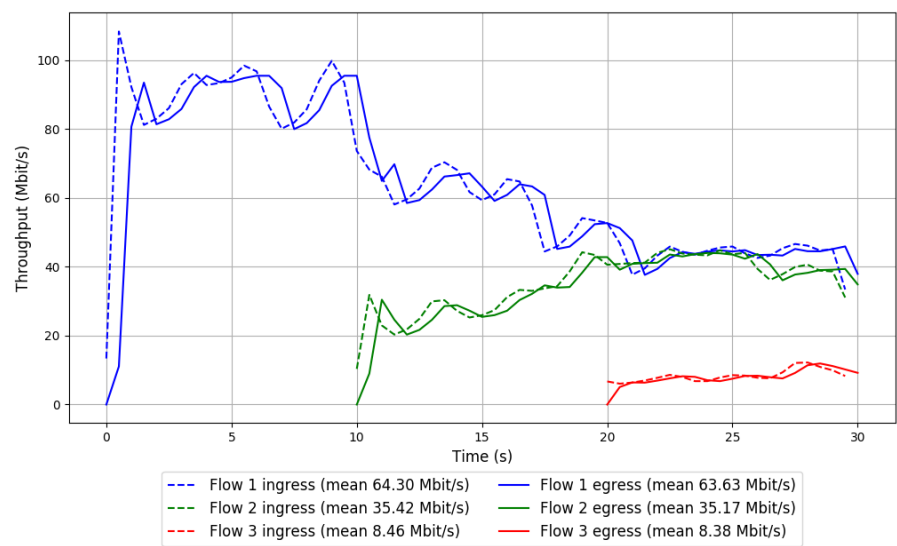


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 15:52:50
End at: 2018-05-30 15:53:20
Local clock offset: 0.891 ms
Remote clock offset: -3.125 ms

# Below is generated by plot.py at 2018-05-30 19:44:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.77 Mbit/s
95th percentile per-packet one-way delay: 59.592 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 63.63 Mbit/s
95th percentile per-packet one-way delay: 58.497 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 61.483 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 62.438 ms
Loss rate: 1.07%
```

Run 1: Report of PCC-Expr — Data Link

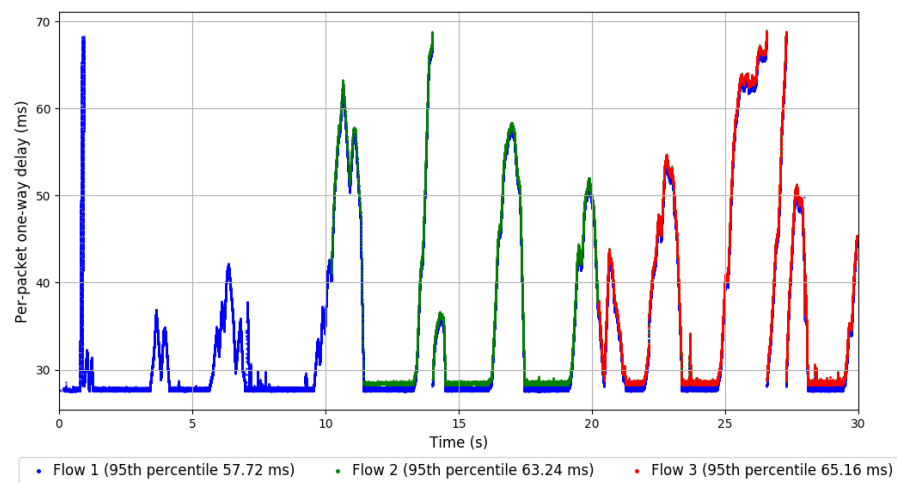
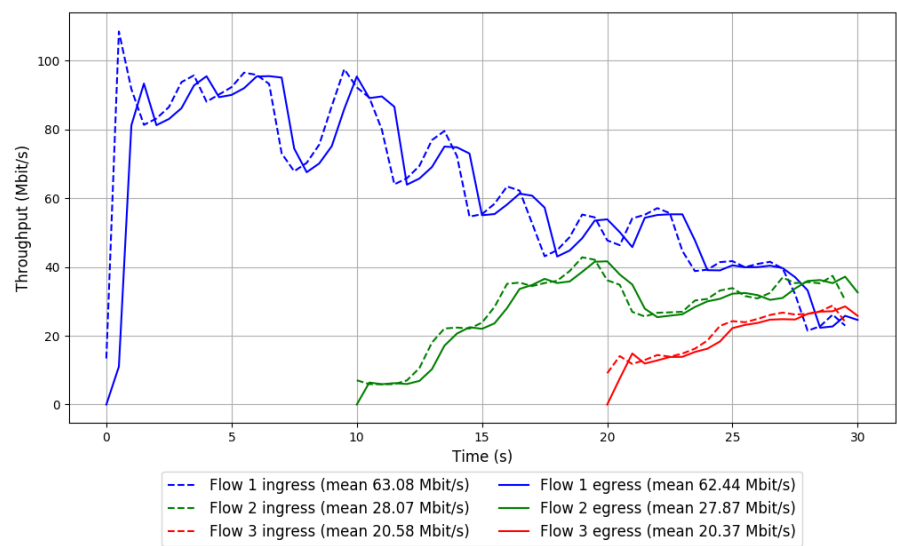


Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 16:14:21  
End at: 2018-05-30 16:14:51  
Local clock offset: 0.863 ms  
Remote clock offset: -2.928 ms

# Below is generated by plot.py at 2018-05-30 19:44:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.71 Mbit/s  
95th percentile per-packet one-way delay: 61.845 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 62.44 Mbit/s  
95th percentile per-packet one-way delay: 57.722 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 27.87 Mbit/s  
95th percentile per-packet one-way delay: 63.242 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 20.37 Mbit/s  
95th percentile per-packet one-way delay: 65.156 ms  
Loss rate: 1.06%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 16:35:59

End at: 2018-05-30 16:36:29

Local clock offset: 0.708 ms

Remote clock offset: -2.48 ms

# Below is generated by plot.py at 2018-05-30 19:44:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 54.867 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 67.06 Mbit/s

95th percentile per-packet one-way delay: 54.551 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 25.29 Mbit/s

95th percentile per-packet one-way delay: 56.545 ms

Loss rate: 0.79%

-- Flow 3:

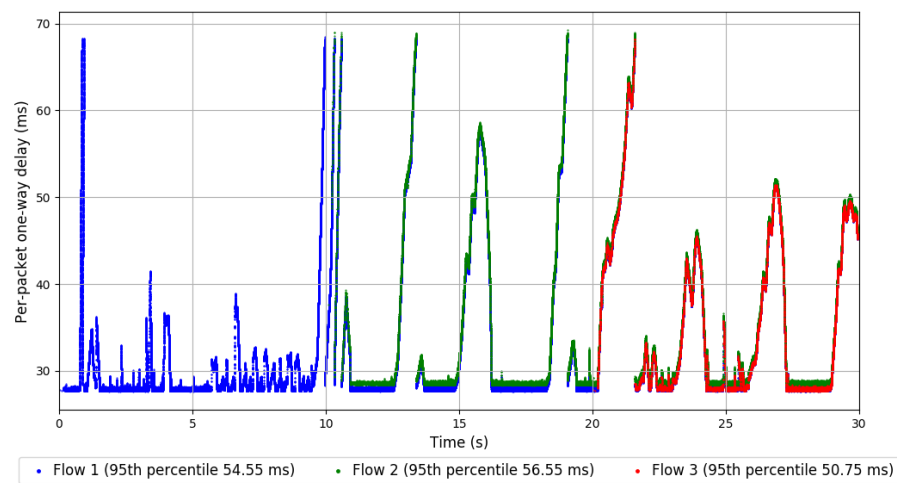
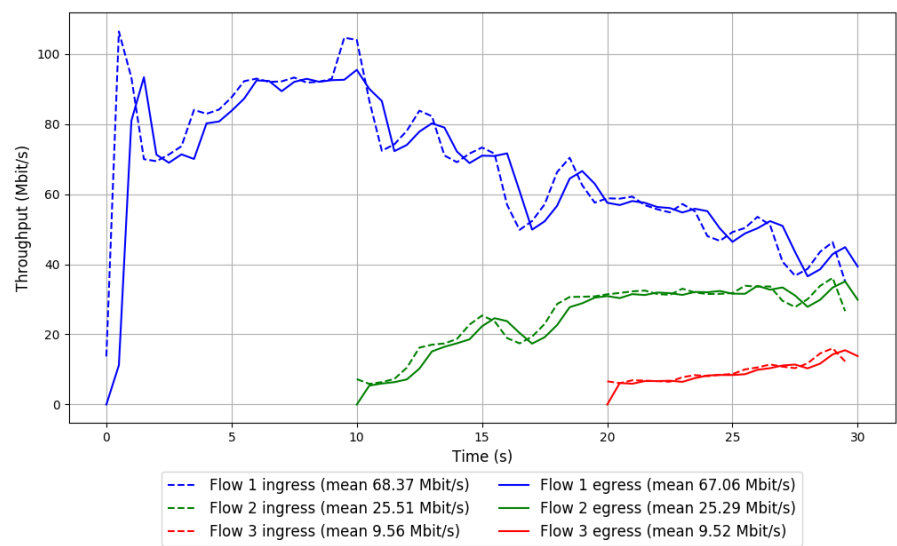
Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.27%



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 16:57:27

End at: 2018-05-30 16:57:57

Local clock offset: 0.277 ms

Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-05-30 19:44:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 60.821 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 59.951 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 18.70 Mbit/s

95th percentile per-packet one-way delay: 63.003 ms

Loss rate: 0.99%

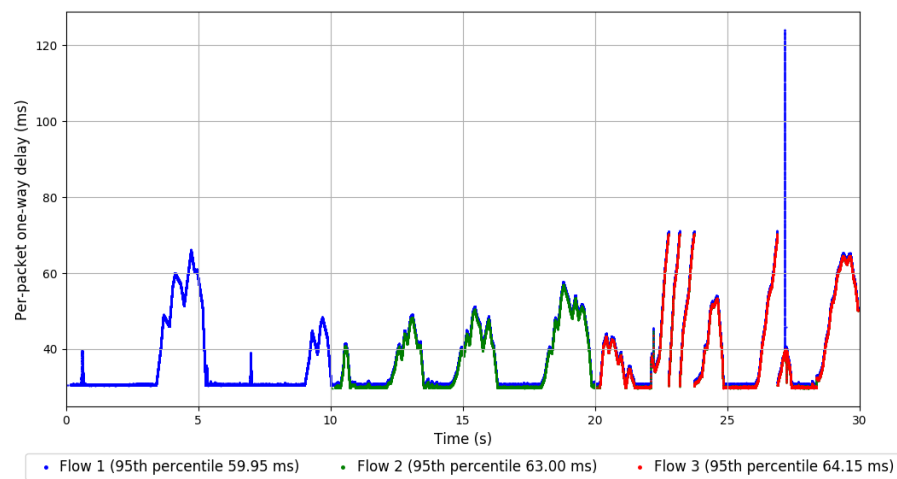
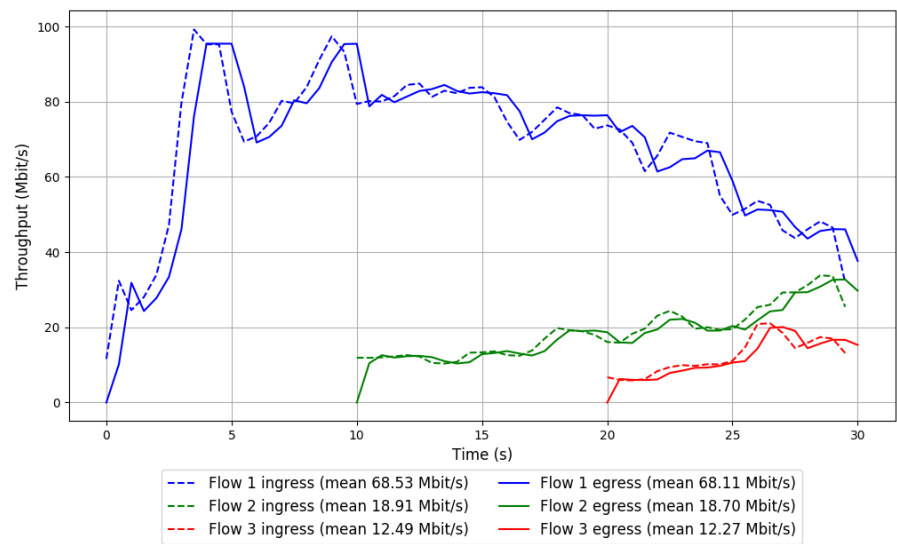
-- Flow 3:

Average throughput: 12.27 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 1.63%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 17:21:15

End at: 2018-05-30 17:21:45

Local clock offset: 0.148 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2018-05-30 19:44:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 62.494 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 63.90 Mbit/s

95th percentile per-packet one-way delay: 60.460 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 65.148 ms

Loss rate: 2.93%

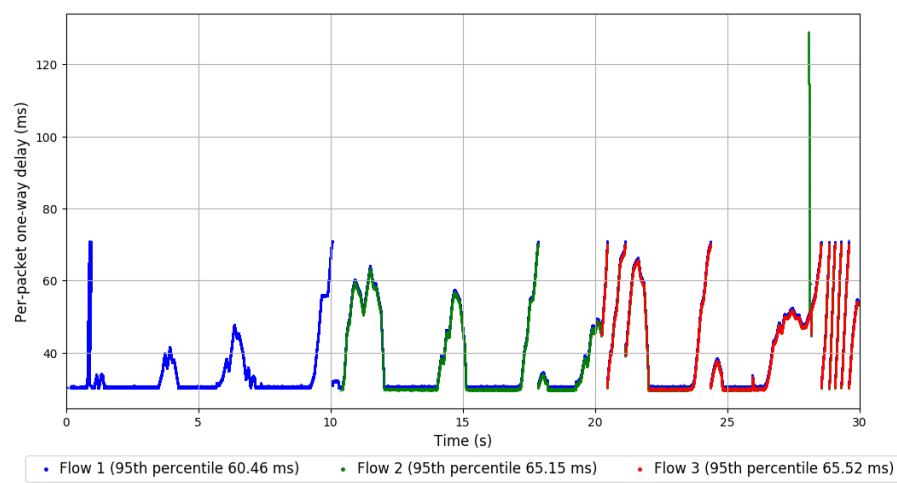
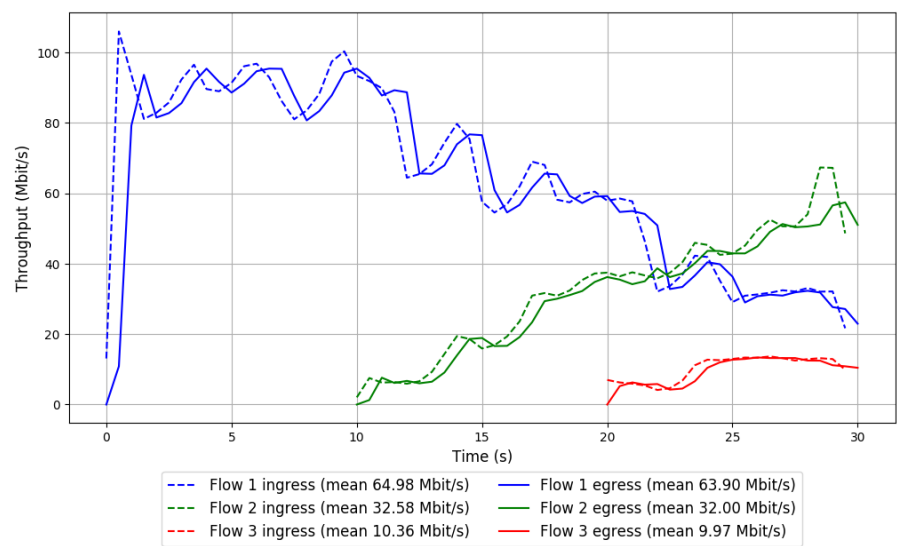
-- Flow 3:

Average throughput: 9.97 Mbit/s

95th percentile per-packet one-way delay: 65.522 ms

Loss rate: 3.69%

Run 5: Report of PCC-Expr — Data Link

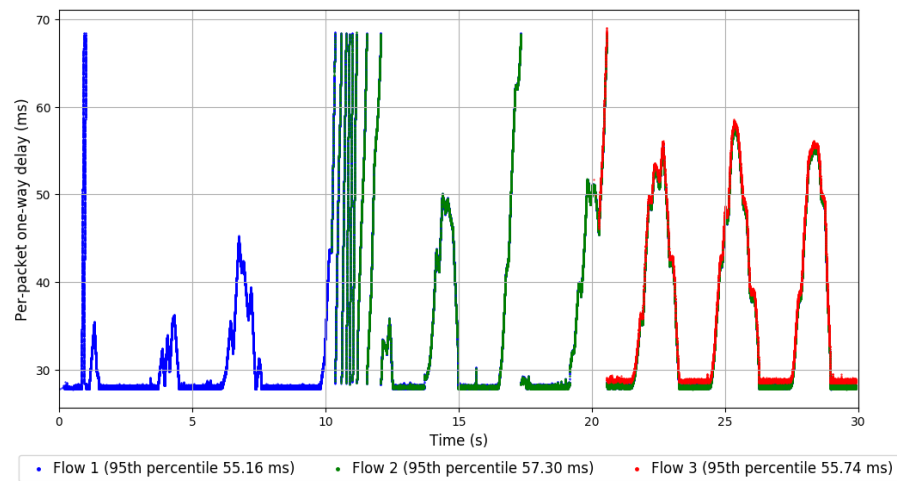
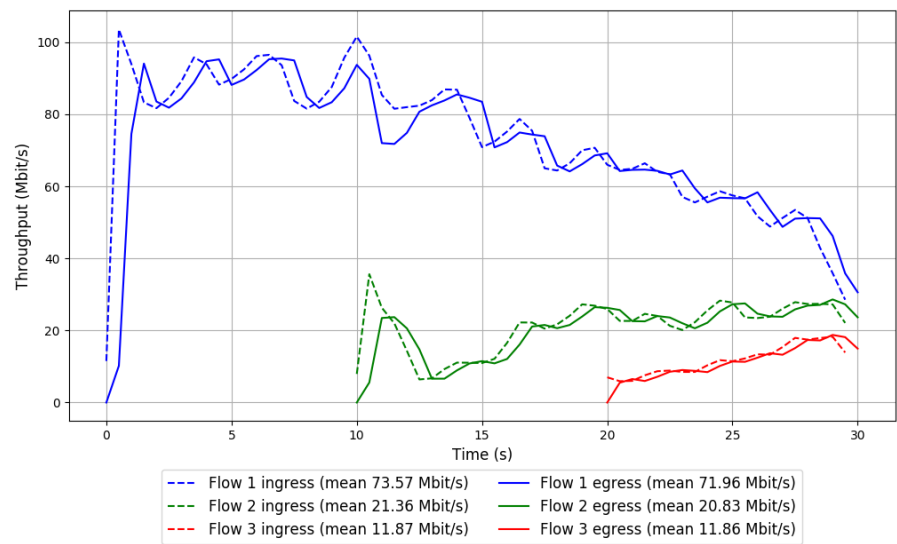


Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 17:45:45  
End at: 2018-05-30 17:46:15  
Local clock offset: 0.371 ms  
Remote clock offset: -1.885 ms

# Below is generated by plot.py at 2018-05-30 19:44:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.73 Mbit/s  
95th percentile per-packet one-way delay: 55.826 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 71.96 Mbit/s  
95th percentile per-packet one-way delay: 55.164 ms  
Loss rate: 2.19%  
-- Flow 2:  
Average throughput: 20.83 Mbit/s  
95th percentile per-packet one-way delay: 57.302 ms  
Loss rate: 2.51%  
-- Flow 3:  
Average throughput: 11.86 Mbit/s  
95th percentile per-packet one-way delay: 55.743 ms  
Loss rate: 0.25%

Run 6: Report of PCC-Expr — Data Link



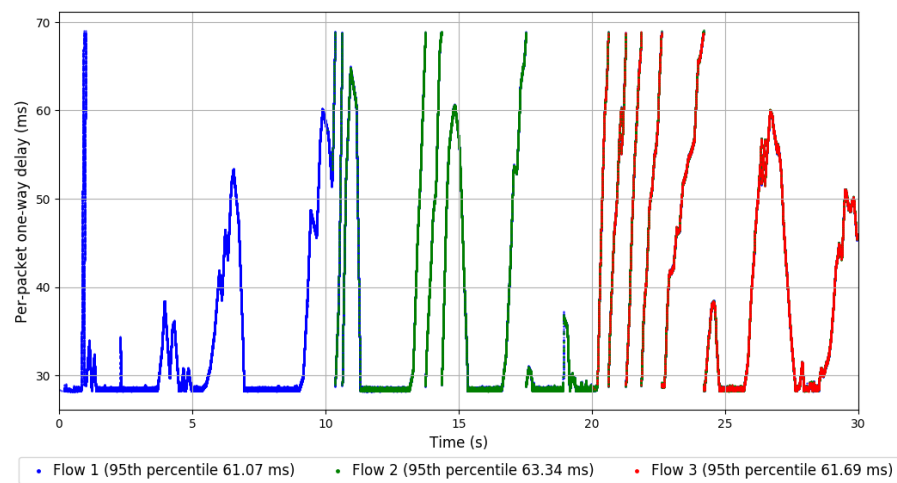
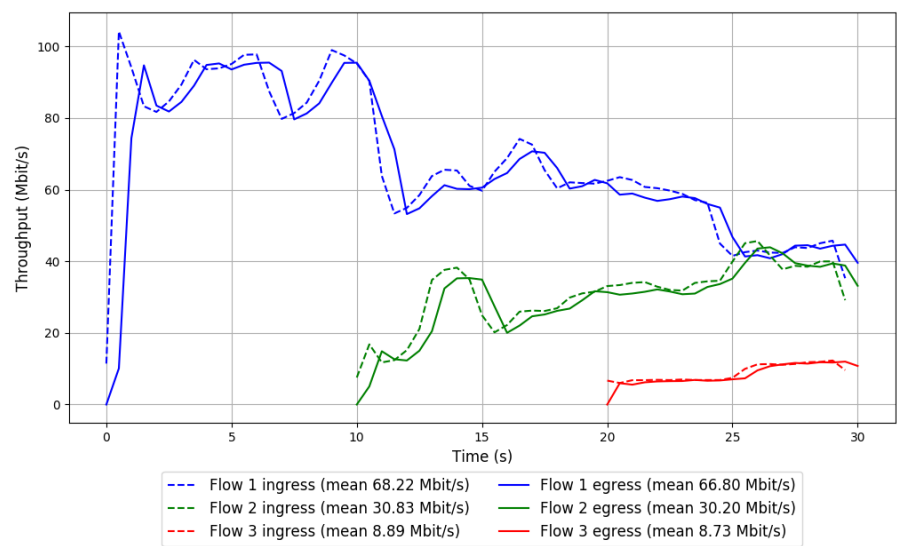
Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 18:07:19  
End at: 2018-05-30 18:07:49  
Local clock offset: 0.722 ms  
Remote clock offset: -2.165 ms

# Below is generated by plot.py at 2018-05-30 19:45:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.75 Mbit/s  
95th percentile per-packet one-way delay: 61.675 ms  
Loss rate: 2.03%  
-- Flow 1:  
Average throughput: 66.80 Mbit/s  
95th percentile per-packet one-way delay: 61.067 ms  
Loss rate: 2.03%  
-- Flow 2:  
Average throughput: 30.20 Mbit/s  
95th percentile per-packet one-way delay: 63.336 ms  
Loss rate: 2.08%  
-- Flow 3:  
Average throughput: 8.73 Mbit/s  
95th percentile per-packet one-way delay: 61.687 ms  
Loss rate: 1.65%



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 18:28:49

End at: 2018-05-30 18:29:19

Local clock offset: 0.801 ms

Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2018-05-30 19:45:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 64.286 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 67.04 Mbit/s

95th percentile per-packet one-way delay: 63.592 ms

Loss rate: 1.42%

-- Flow 2:

Average throughput: 26.46 Mbit/s

95th percentile per-packet one-way delay: 65.344 ms

Loss rate: 1.68%

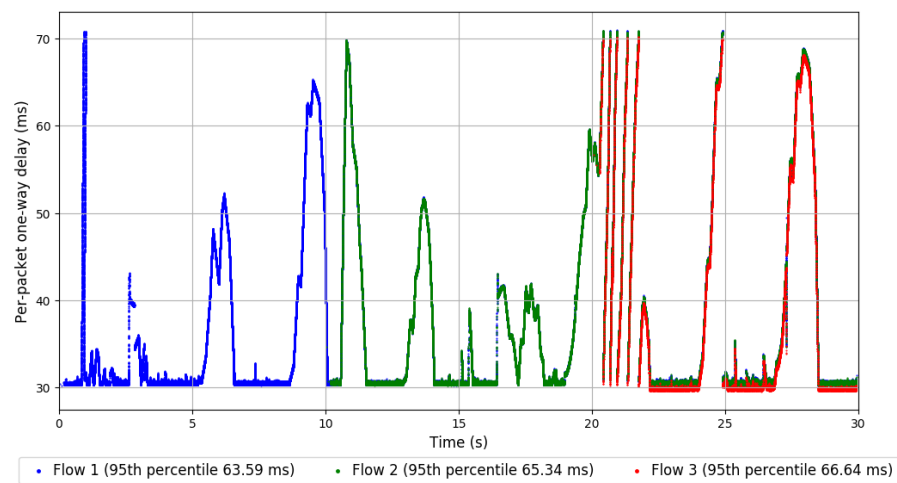
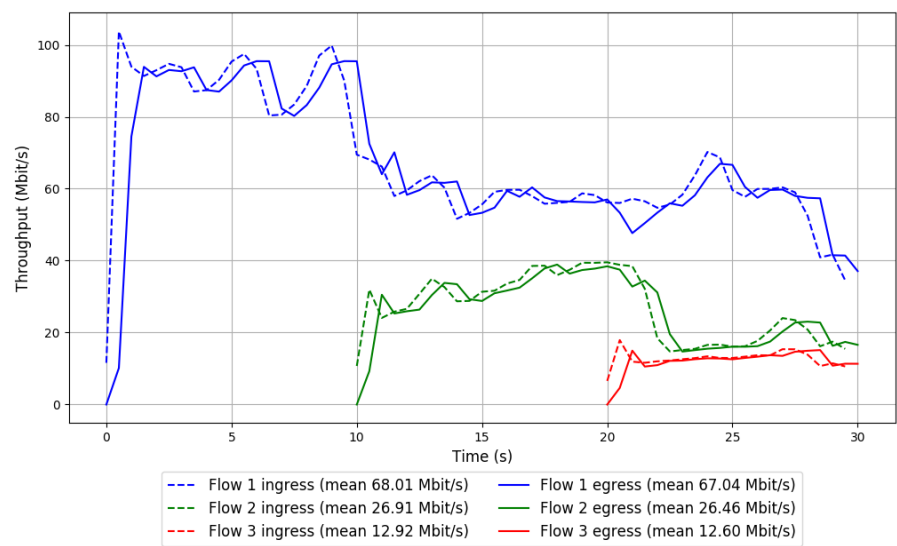
-- Flow 3:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 66.645 ms

Loss rate: 2.77%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 18:50:18

End at: 2018-05-30 18:50:48

Local clock offset: 0.569 ms

Remote clock offset: 1.713 ms

# Below is generated by plot.py at 2018-05-30 19:46:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 62.448 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 62.548 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 20.97 Mbit/s

95th percentile per-packet one-way delay: 60.195 ms

Loss rate: 0.77%

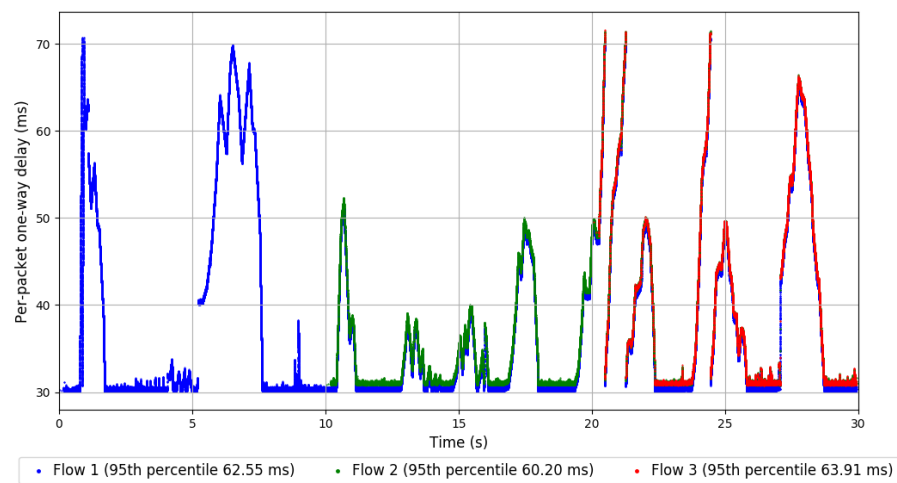
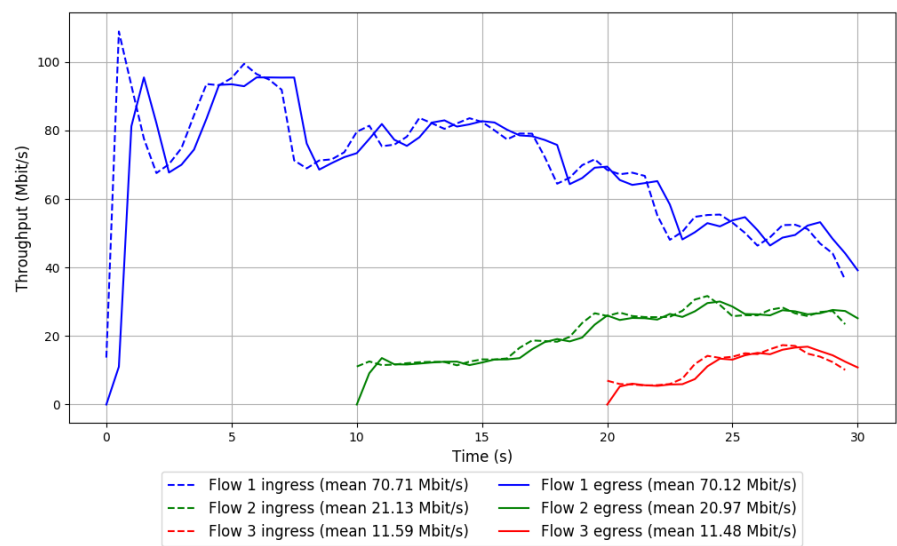
-- Flow 3:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 63.914 ms

Loss rate: 1.13%

Run 9: Report of PCC-Expr — Data Link

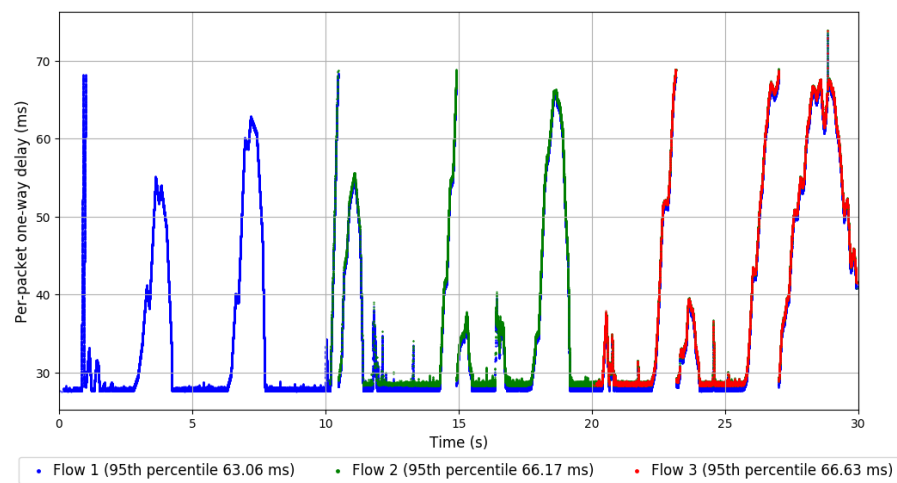
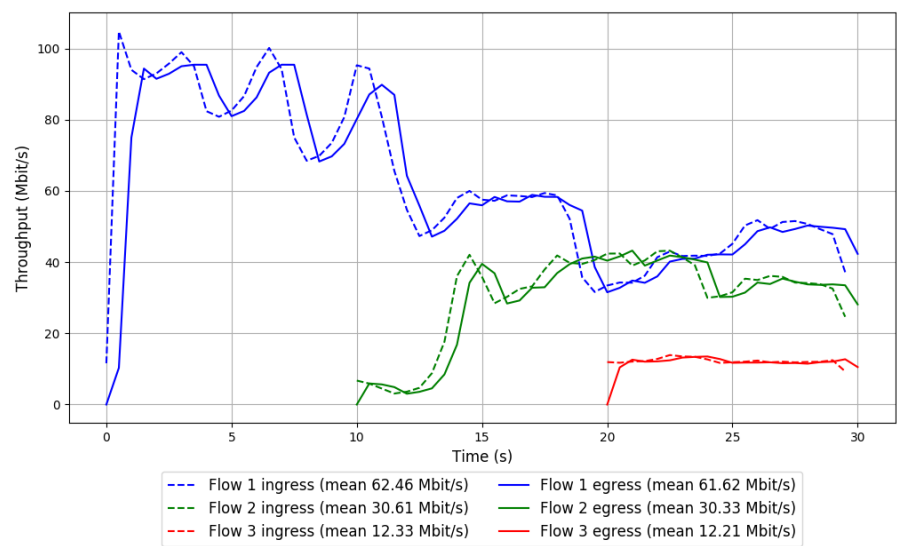


Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 19:11:50  
End at: 2018-05-30 19:12:20  
Local clock offset: 0.487 ms  
Remote clock offset: -2.027 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.84 Mbit/s  
95th percentile per-packet one-way delay: 64.931 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 61.62 Mbit/s  
95th percentile per-packet one-way delay: 63.056 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 30.33 Mbit/s  
95th percentile per-packet one-way delay: 66.172 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 12.21 Mbit/s  
95th percentile per-packet one-way delay: 66.627 ms  
Loss rate: 0.86%

Run 10: Report of PCC-Expr — Data Link



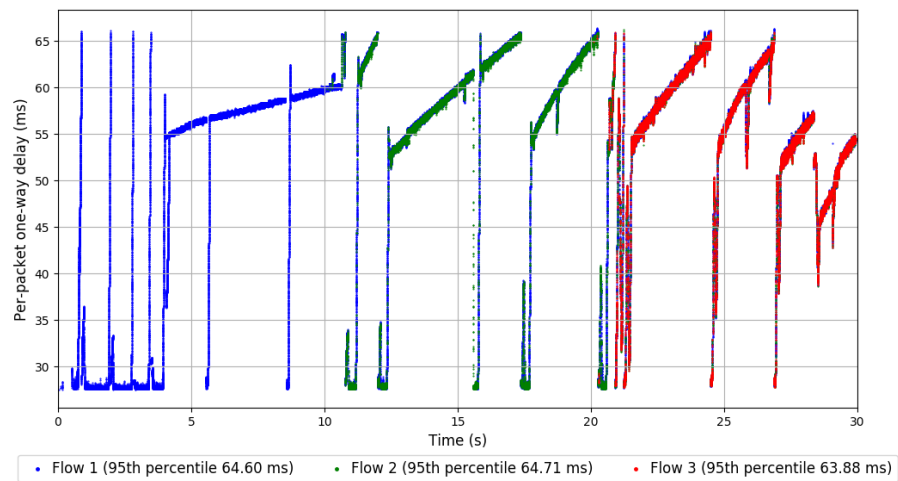
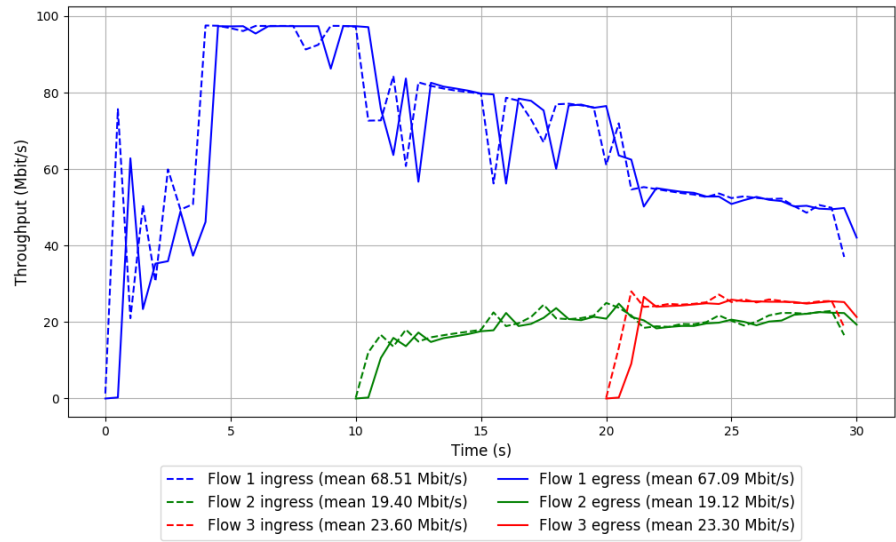
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 15:48:51  
End at: 2018-05-30 15:49:21  
Local clock offset: 0.928 ms  
Remote clock offset: -3.073 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.42 Mbit/s  
95th percentile per-packet one-way delay: 64.552 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 67.09 Mbit/s  
95th percentile per-packet one-way delay: 64.598 ms  
Loss rate: 1.99%  
-- Flow 2:  
Average throughput: 19.12 Mbit/s  
95th percentile per-packet one-way delay: 64.712 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 23.30 Mbit/s  
95th percentile per-packet one-way delay: 63.881 ms  
Loss rate: 1.38%



# Run 1: Report of QUIC Cubic — Data Link

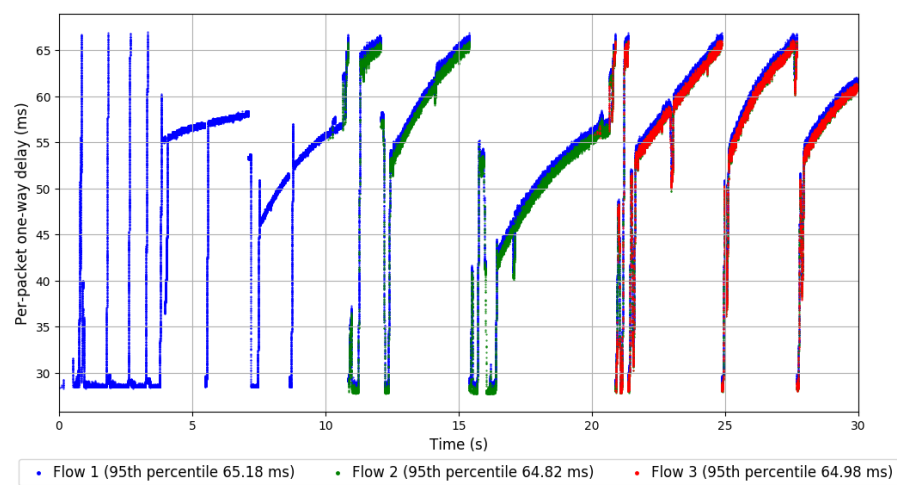
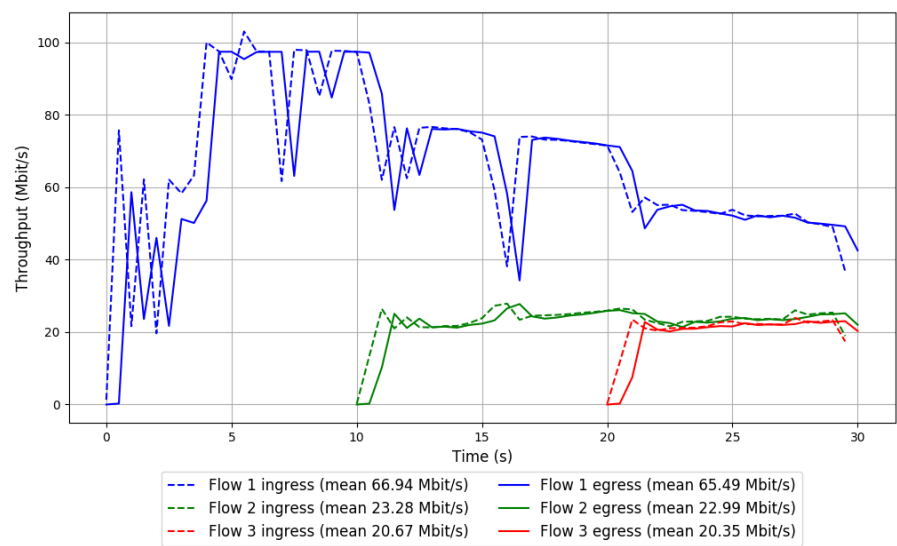


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 16:10:22  
End at: 2018-05-30 16:10:52  
Local clock offset: 0.794 ms  
Remote clock offset: -2.828 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.44 Mbit/s  
95th percentile per-packet one-way delay: 65.104 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 65.49 Mbit/s  
95th percentile per-packet one-way delay: 65.177 ms  
Loss rate: 2.06%  
-- Flow 2:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 64.823 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 20.35 Mbit/s  
95th percentile per-packet one-way delay: 64.977 ms  
Loss rate: 1.50%

Run 2: Report of QUIC Cubic — Data Link

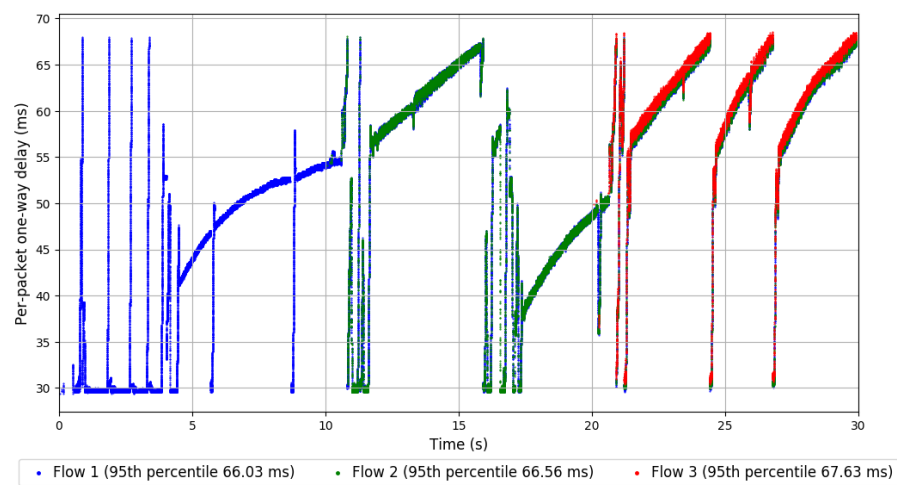
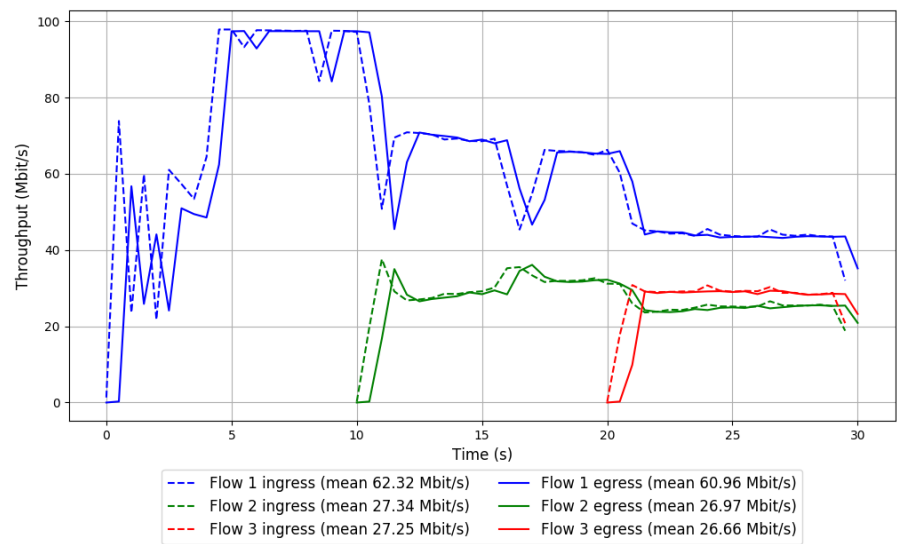


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 16:32:01  
End at: 2018-05-30 16:32:31  
Local clock offset: 0.796 ms  
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.64 Mbit/s  
95th percentile per-packet one-way delay: 66.440 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 60.96 Mbit/s  
95th percentile per-packet one-way delay: 66.033 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 26.97 Mbit/s  
95th percentile per-packet one-way delay: 66.557 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 26.66 Mbit/s  
95th percentile per-packet one-way delay: 67.634 ms  
Loss rate: 2.26%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 16:53:30

End at: 2018-05-30 16:54:00

Local clock offset: 0.421 ms

Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-05-30 19:46:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 60.263 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 58.739 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 24.47 Mbit/s

95th percentile per-packet one-way delay: 60.684 ms

Loss rate: 0.72%

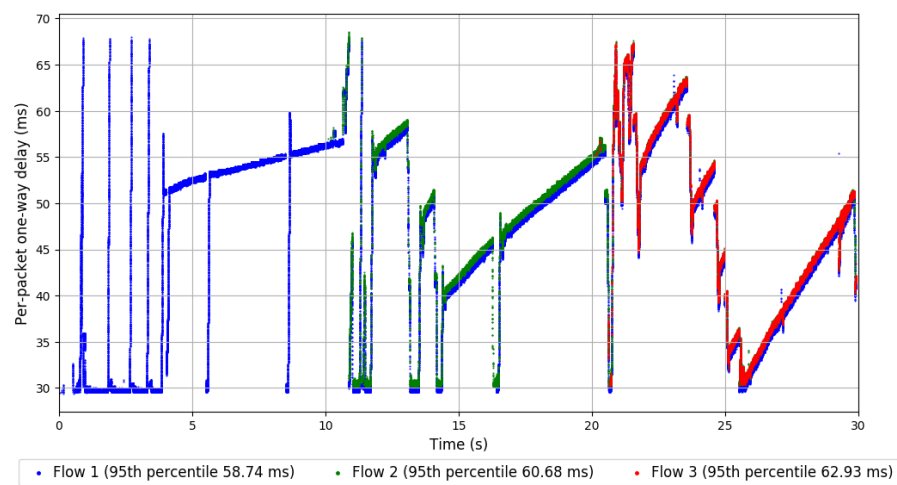
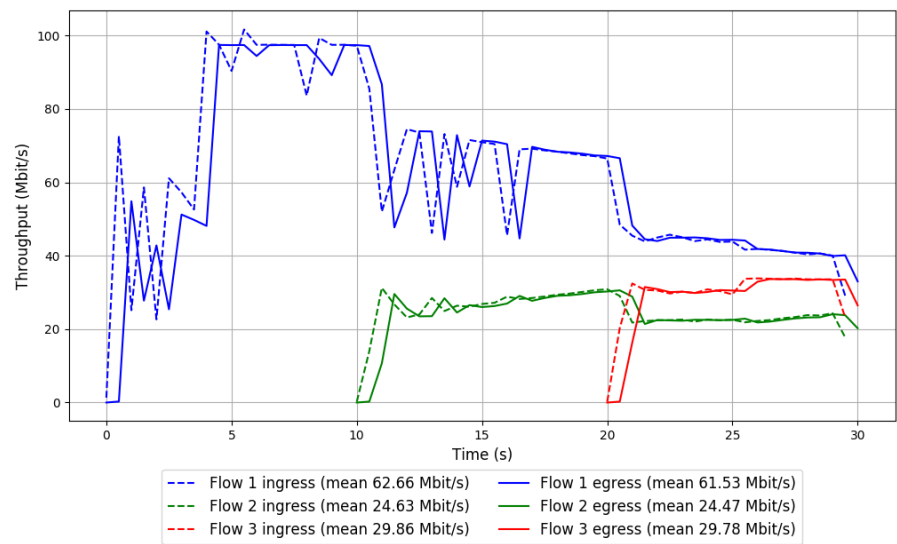
-- Flow 3:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 62.930 ms

Loss rate: 0.40%

Run 4: Report of QUIC Cubic — Data Link



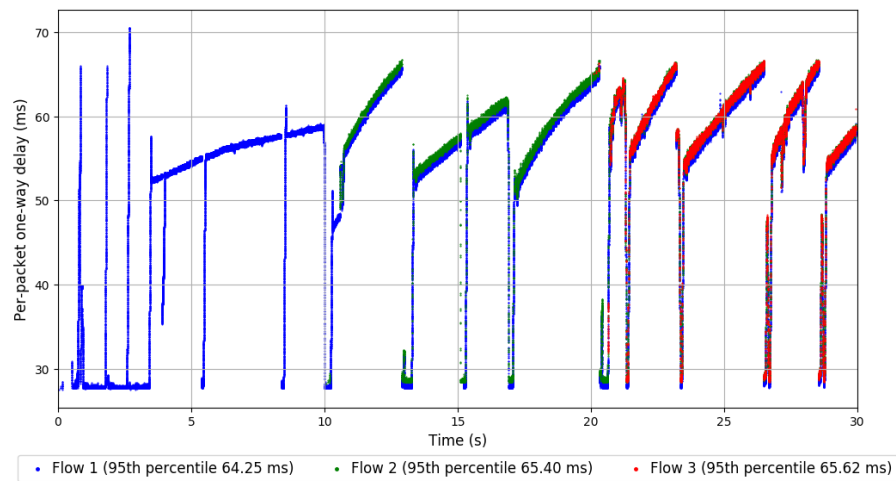
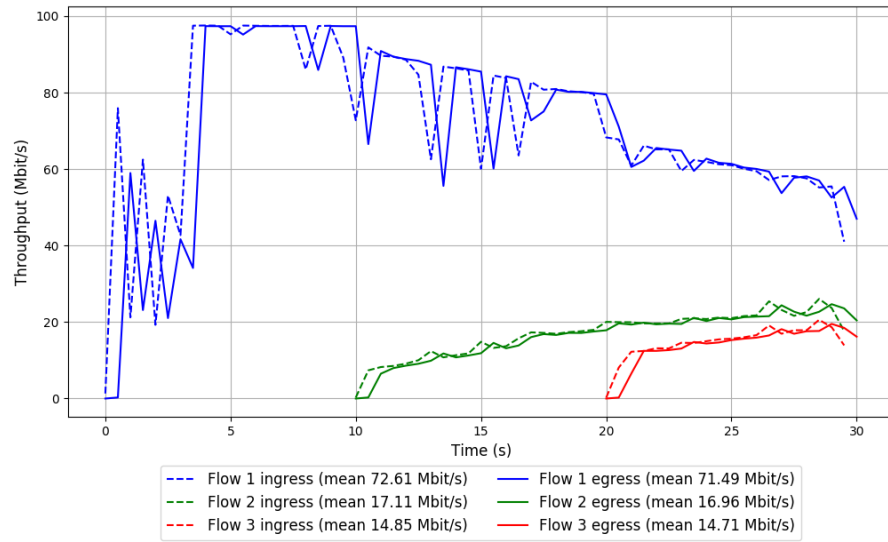
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 17:16:06  
End at: 2018-05-30 17:16:36  
Local clock offset: 0.087 ms  
Remote clock offset: -1.536 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.59 Mbit/s  
95th percentile per-packet one-way delay: 64.547 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 71.49 Mbit/s  
95th percentile per-packet one-way delay: 64.246 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 16.96 Mbit/s  
95th percentile per-packet one-way delay: 65.404 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 14.71 Mbit/s  
95th percentile per-packet one-way delay: 65.616 ms  
Loss rate: 0.98%



# Run 5: Report of QUIC Cubic — Data Link

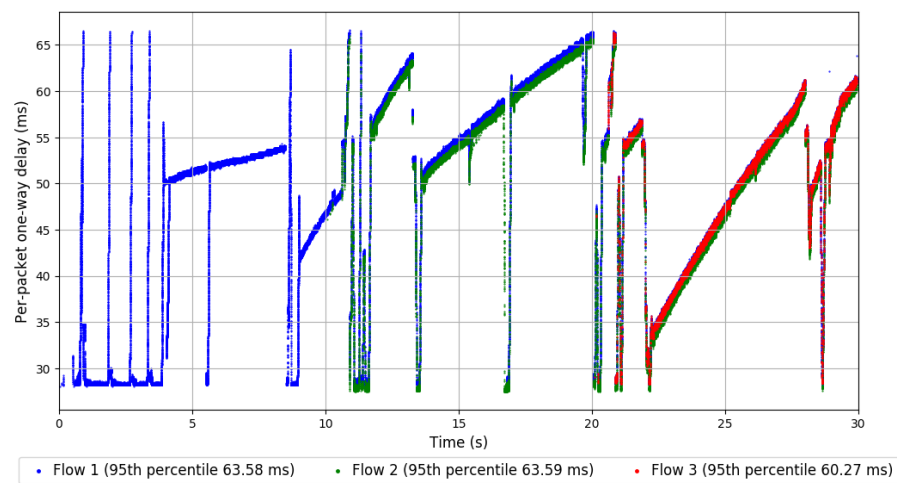
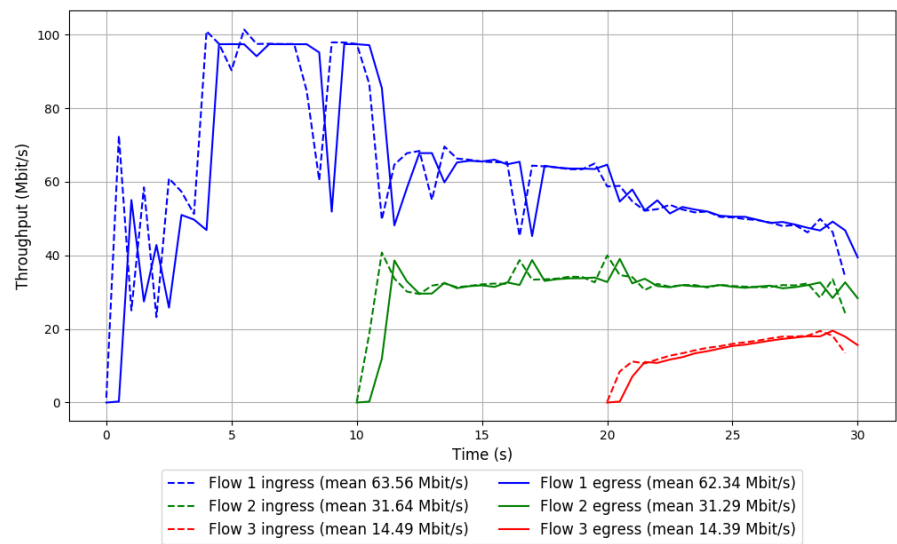


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 17:40:54  
End at: 2018-05-30 17:41:24  
Local clock offset: 0.297 ms  
Remote clock offset: -2.125 ms

# Below is generated by plot.py at 2018-05-30 19:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 63.456 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 62.34 Mbit/s  
95th percentile per-packet one-way delay: 63.584 ms  
Loss rate: 1.80%  
-- Flow 2:  
Average throughput: 31.29 Mbit/s  
95th percentile per-packet one-way delay: 63.592 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 14.39 Mbit/s  
95th percentile per-packet one-way delay: 60.268 ms  
Loss rate: 0.37%

Run 6: Report of QUIC Cubic — Data Link

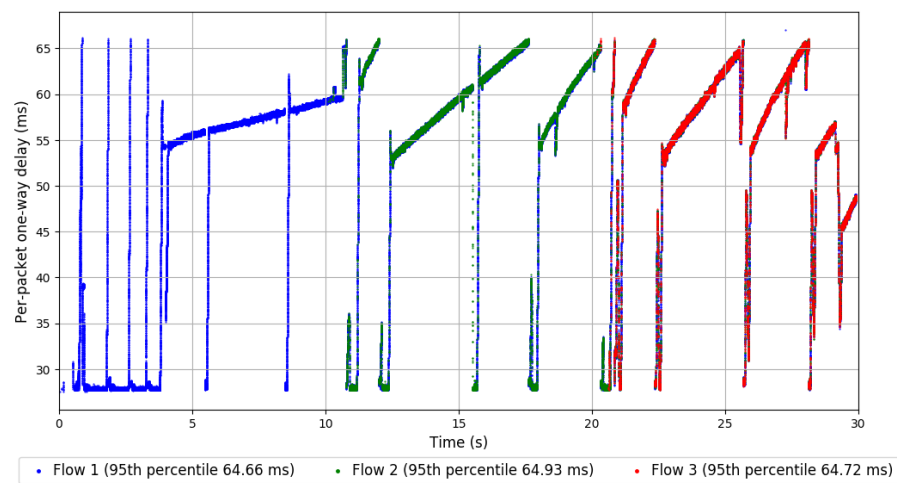
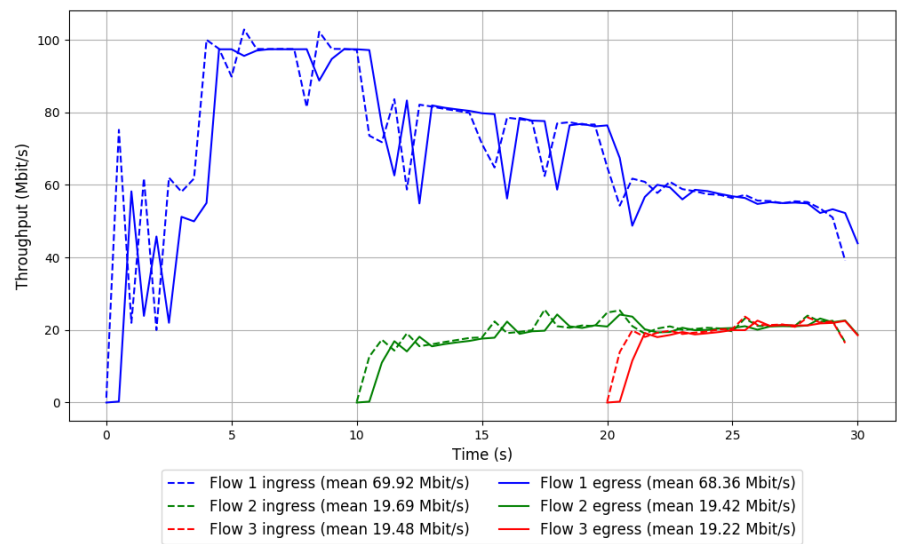


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 18:03:21  
End at: 2018-05-30 18:03:51  
Local clock offset: 0.608 ms  
Remote clock offset: -2.064 ms

# Below is generated by plot.py at 2018-05-30 19:47:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.54 Mbit/s  
95th percentile per-packet one-way delay: 64.698 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 68.36 Mbit/s  
95th percentile per-packet one-way delay: 64.656 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 19.42 Mbit/s  
95th percentile per-packet one-way delay: 64.933 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 19.22 Mbit/s  
95th percentile per-packet one-way delay: 64.719 ms  
Loss rate: 1.51%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 18:24:51

End at: 2018-05-30 18:25:21

Local clock offset: 0.775 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2018-05-30 19:47:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.59 Mbit/s

95th percentile per-packet one-way delay: 65.754 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 65.386 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 66.862 ms

Loss rate: 1.16%

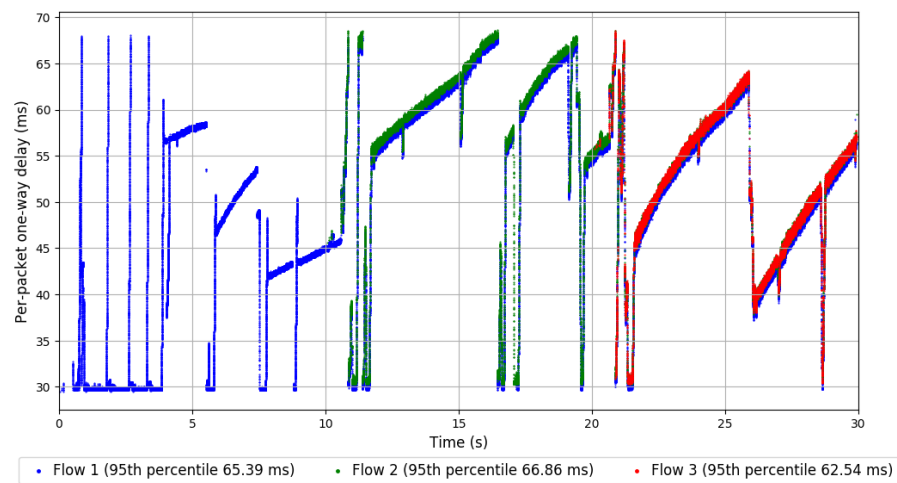
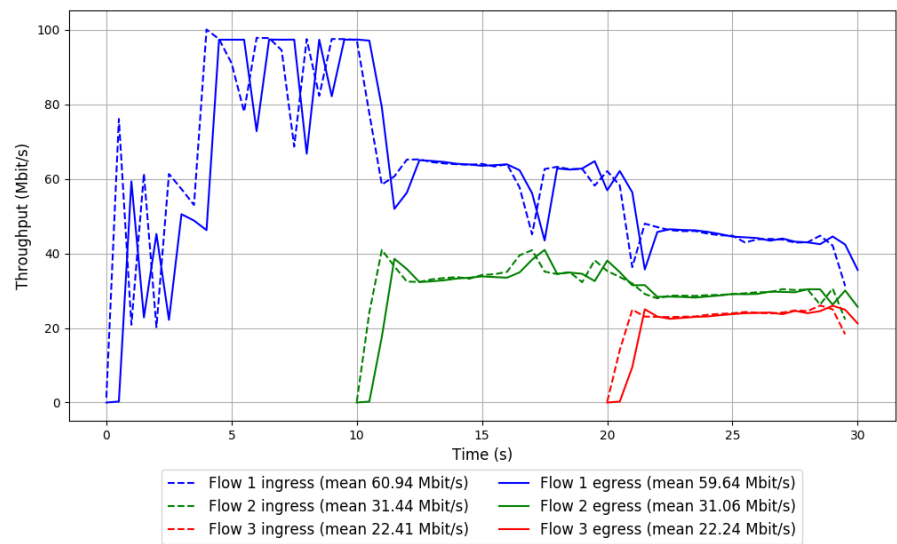
-- Flow 3:

Average throughput: 22.24 Mbit/s

95th percentile per-packet one-way delay: 62.539 ms

Loss rate: 0.76%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 18:46:20

End at: 2018-05-30 18:46:50

Local clock offset: 0.619 ms

Remote clock offset: -0.98 ms

# Below is generated by plot.py at 2018-05-30 19:47:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.68 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 61.06 Mbit/s

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

Loss rate: 2.04%

-- Flow 2:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 1.43%

-- Flow 3:

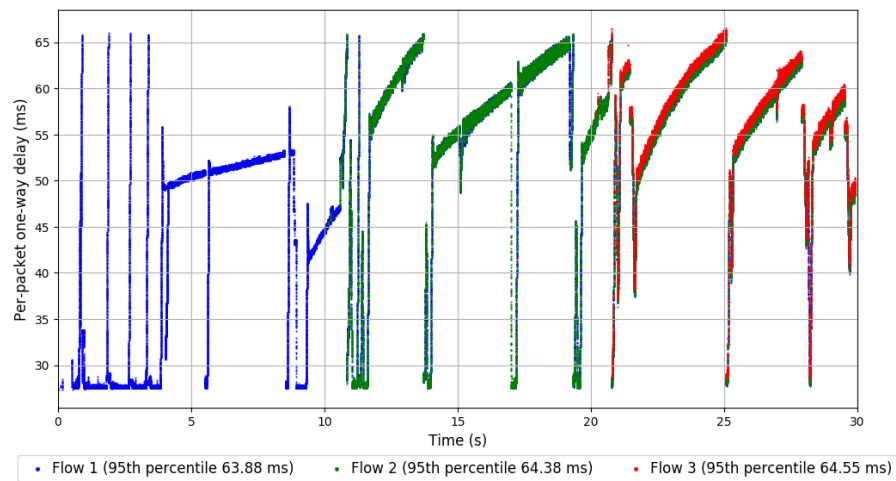
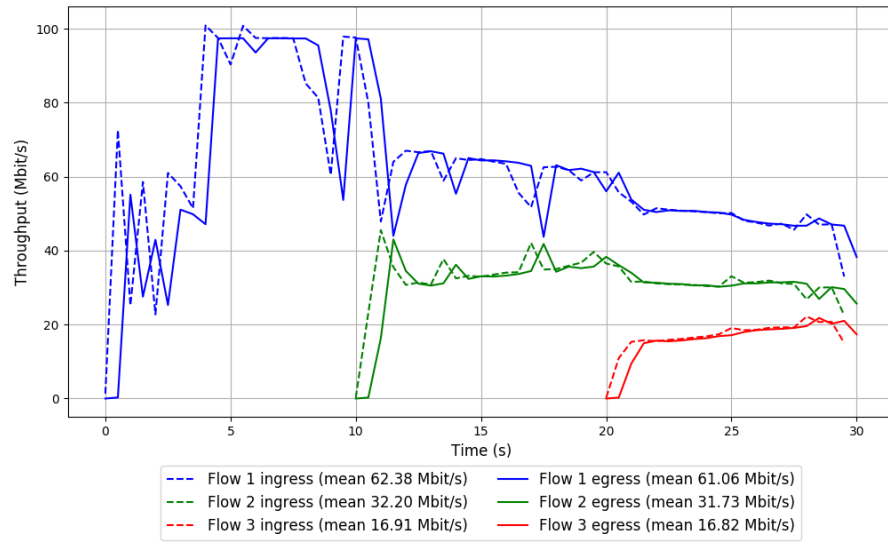
Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 64.552 ms

Loss rate: 0.59%



# Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 19:07:51

End at: 2018-05-30 19:08:21

Local clock offset: 0.34 ms

Remote clock offset: 0.645 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 67.023 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 66.933 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 28.59 Mbit/s

95th percentile per-packet one-way delay: 66.927 ms

Loss rate: 0.98%

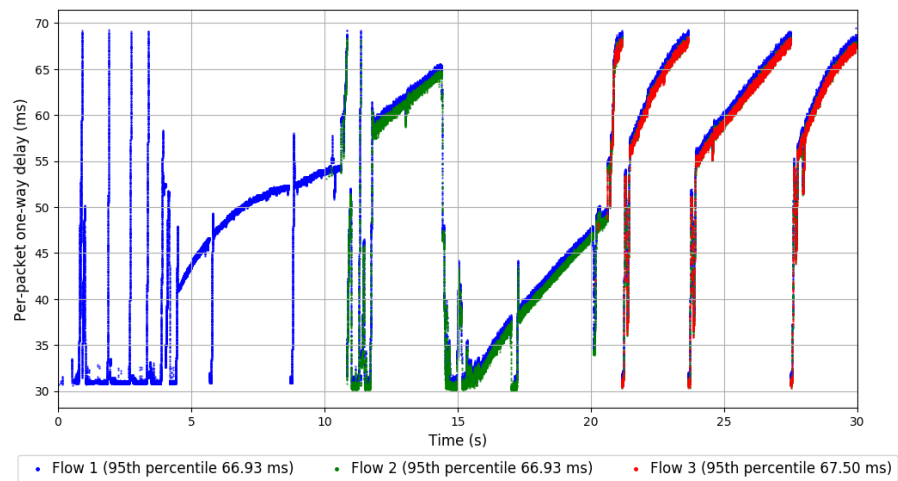
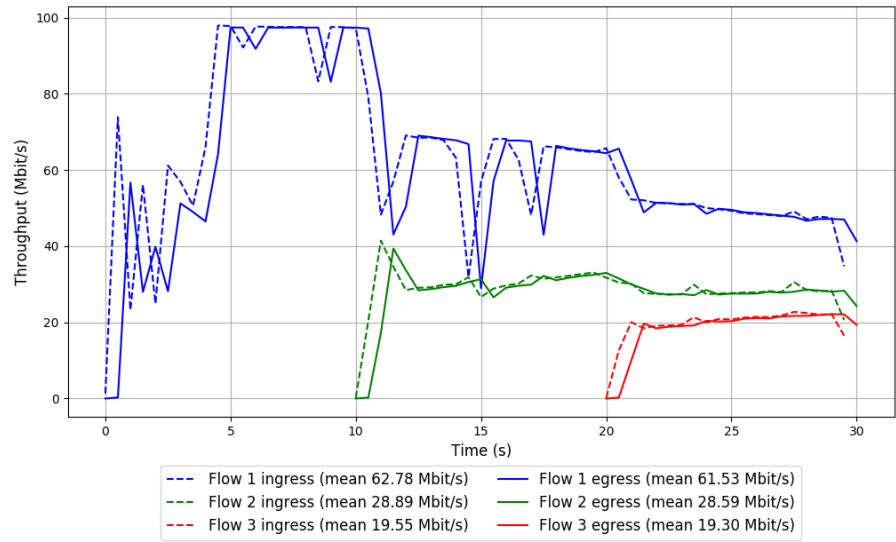
-- Flow 3:

Average throughput: 19.30 Mbit/s

95th percentile per-packet one-way delay: 67.497 ms

Loss rate: 0.97%

# Run 10: Report of QUIC Cubic — Data Link

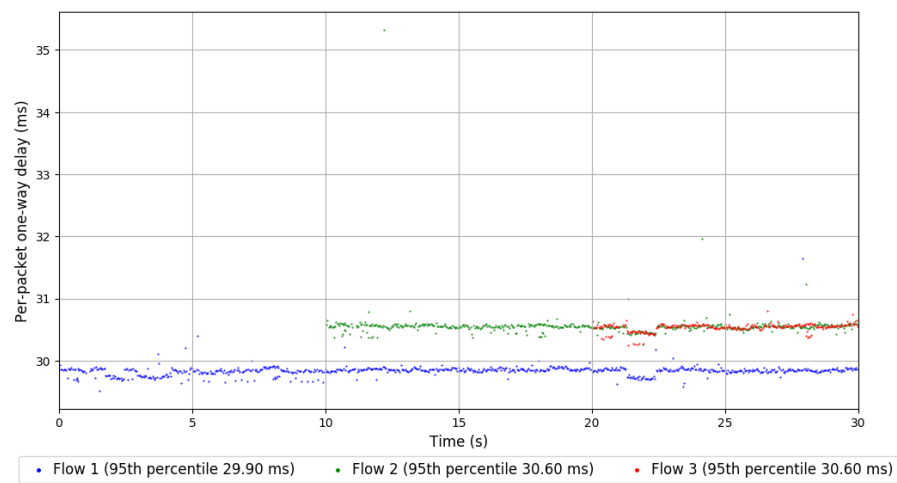
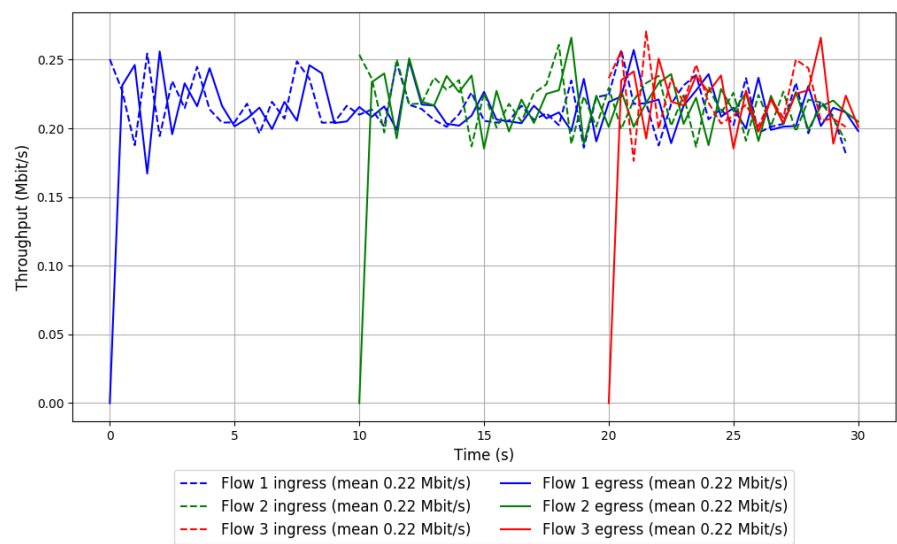


```
Run 1: Statistics of SReAM

Start at: 2018-05-30 15:50:12
End at: 2018-05-30 15:50:42
Local clock offset: 0.918 ms
Remote clock offset: -1.01 ms

# Below is generated by plot.py at 2018-05-30 19:47:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.600 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

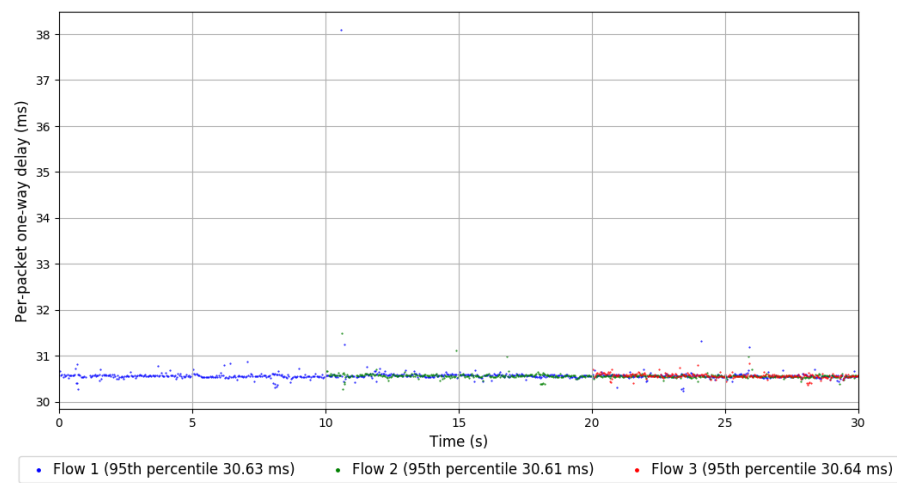
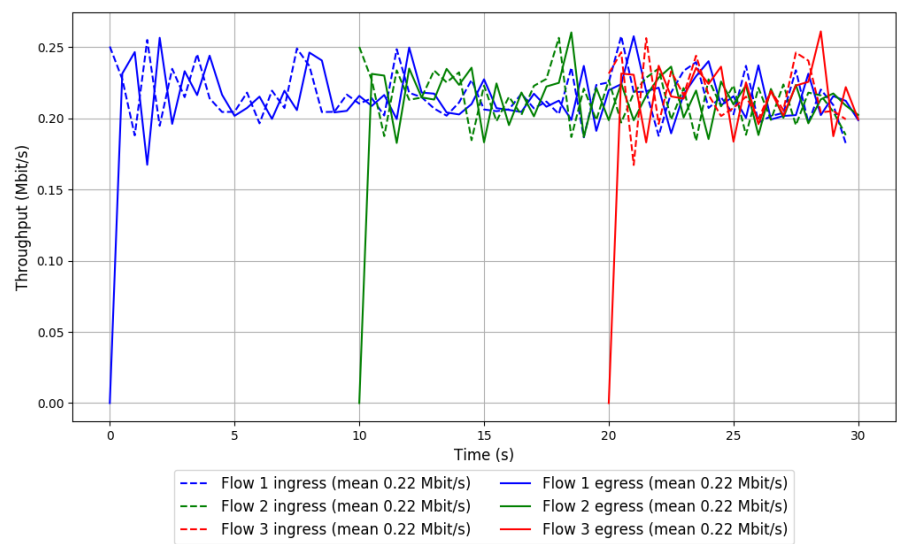


Run 2: Statistics of SReAM

Start at: 2018-05-30 16:11:43  
End at: 2018-05-30 16:12:13  
Local clock offset: 0.787 ms  
Remote clock offset: -0.873 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 30.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.631 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.606 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.636 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



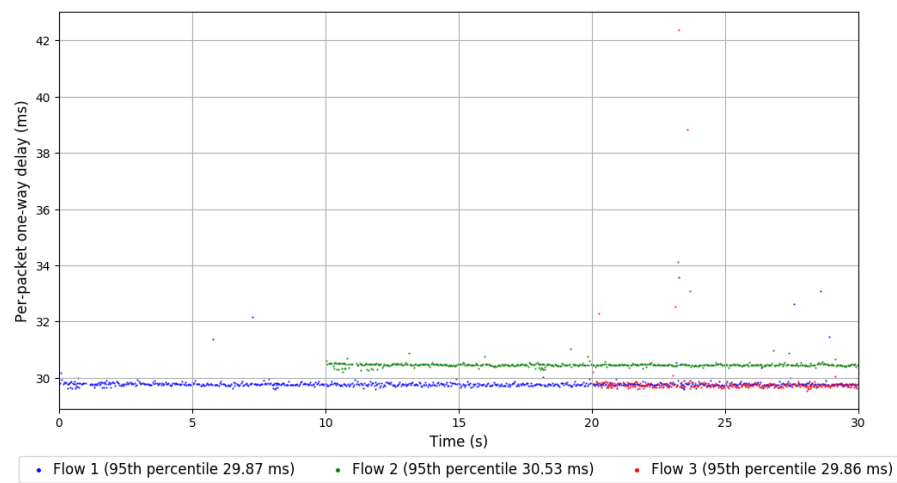
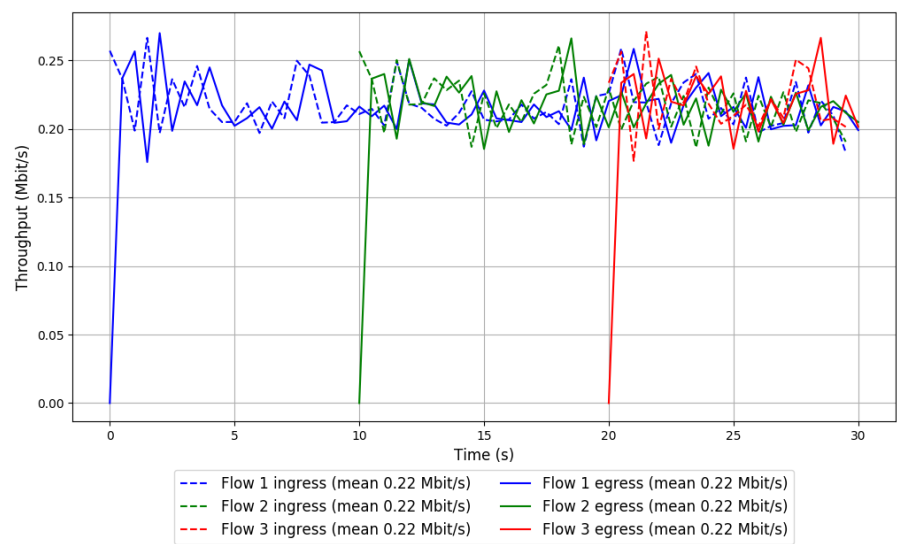
Run 3: Statistics of SReAM

Start at: 2018-05-30 16:33:21  
End at: 2018-05-30 16:33:51  
Local clock offset: 0.786 ms  
Remote clock offset: -0.489 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.500 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.870 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.531 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.855 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-30 16:54:50

End at: 2018-05-30 16:55:20

Local clock offset: 0.403 ms

Remote clock offset: 0.182 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 29.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.852 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.850 ms

Loss rate: 0.00%

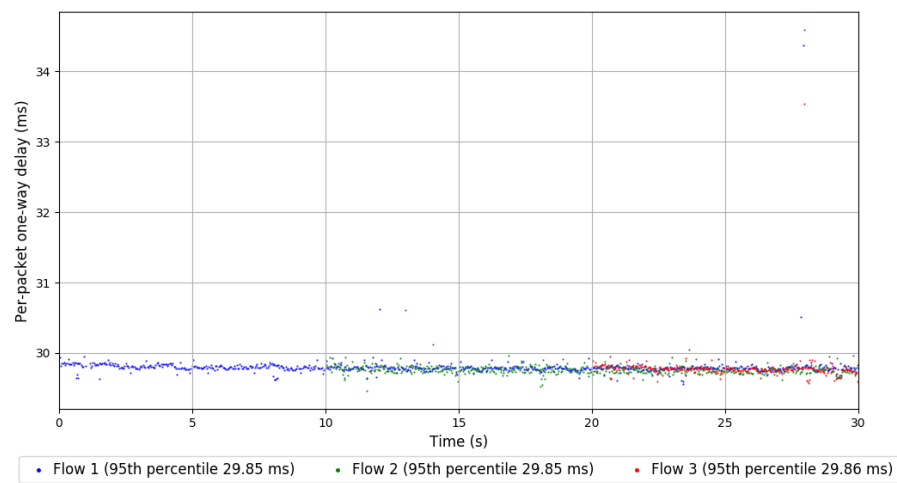
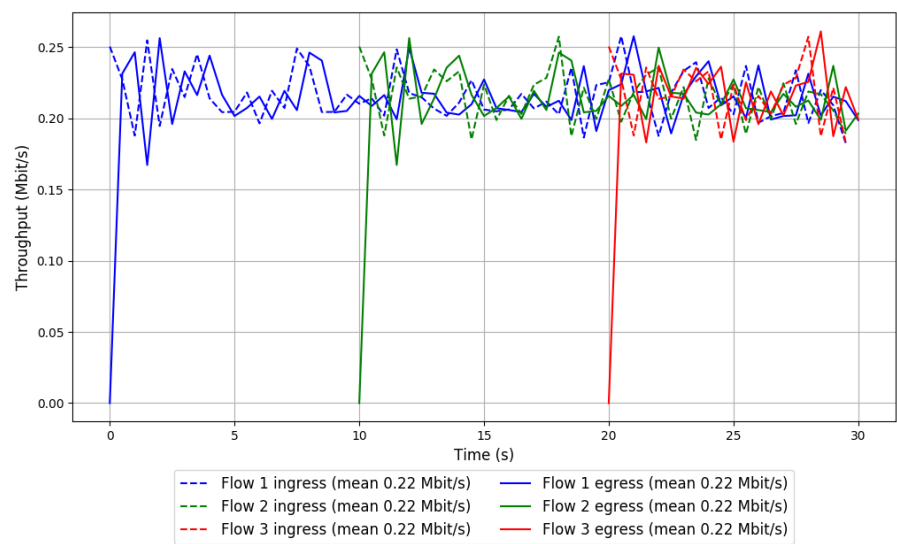
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.858 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

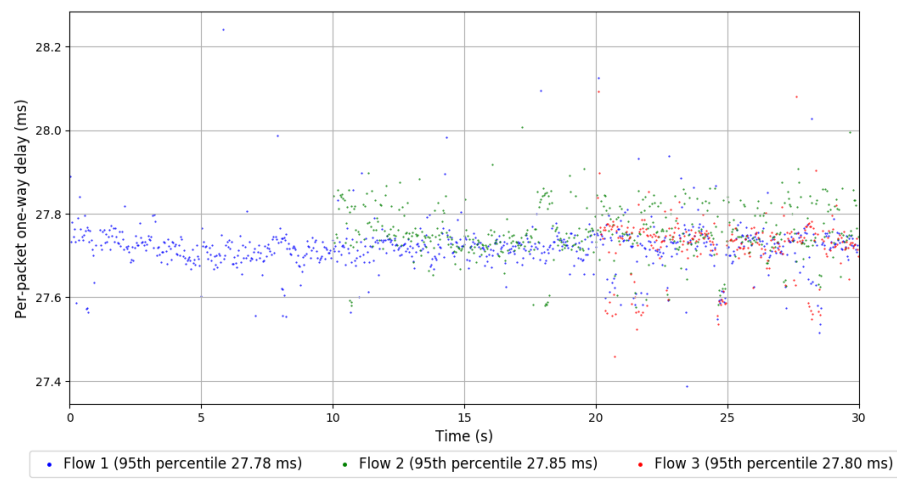
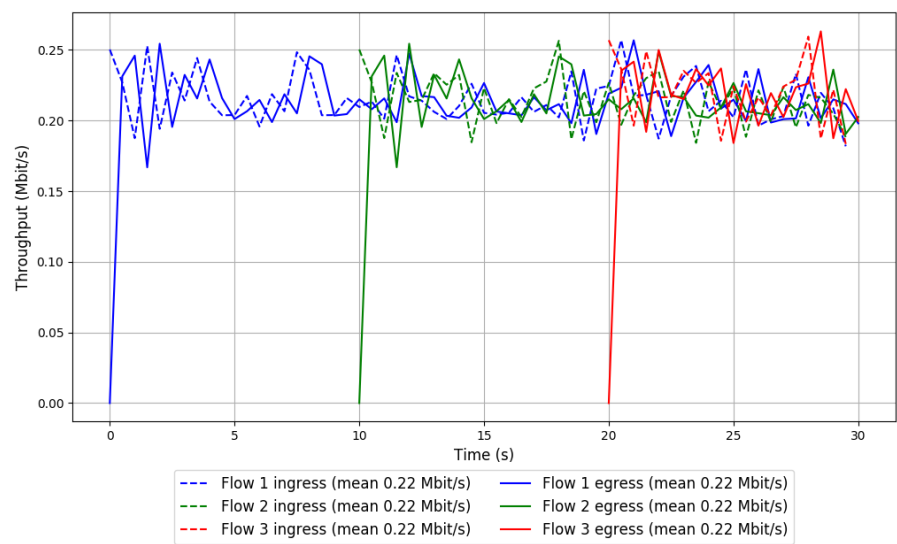


Run 5: Statistics of SReAM

Start at: 2018-05-30 17:17:41  
End at: 2018-05-30 17:18:11  
Local clock offset: 0.181 ms  
Remote clock offset: -1.703 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 27.836 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.782 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.854 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.799 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-30 17:42:15

End at: 2018-05-30 17:42:45

Local clock offset: 0.27 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 29.925 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.918 ms

Loss rate: 0.00%

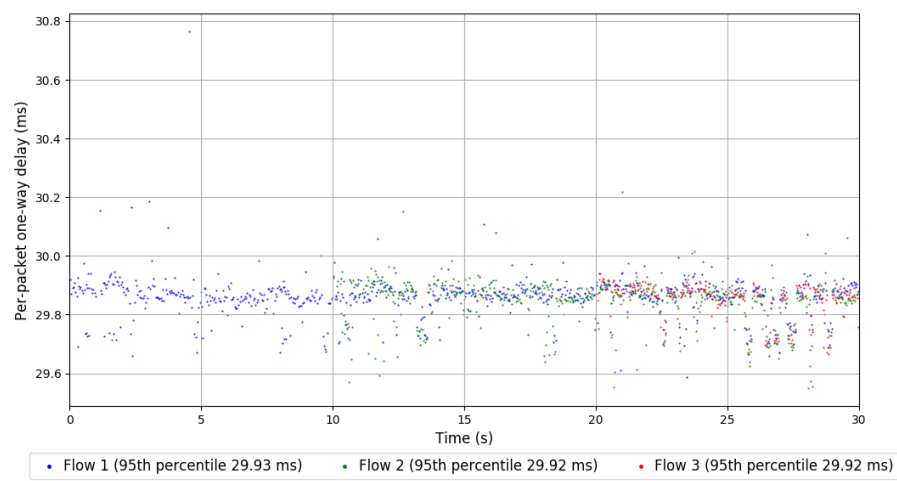
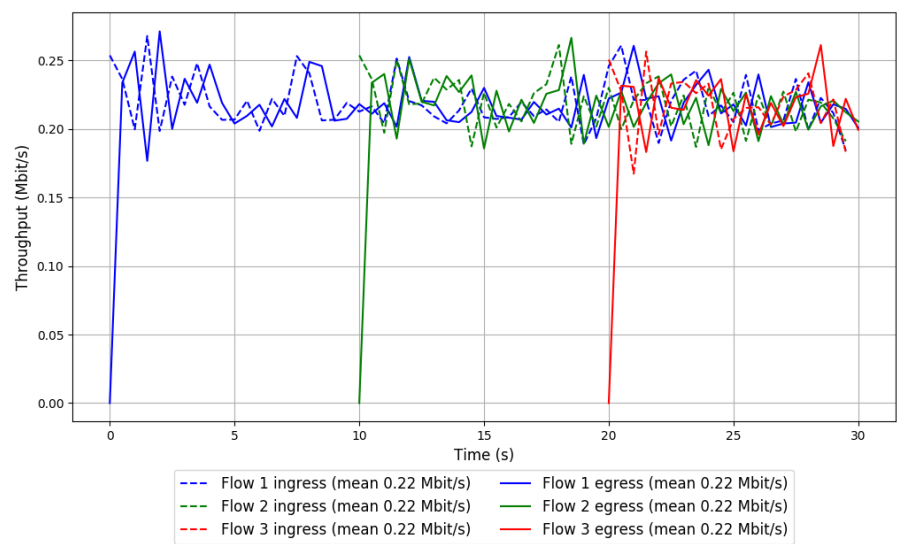
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.916 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



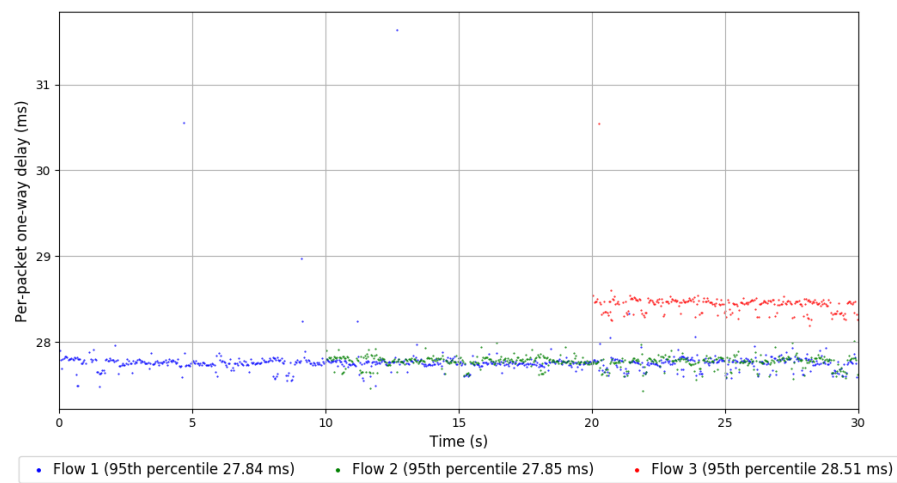
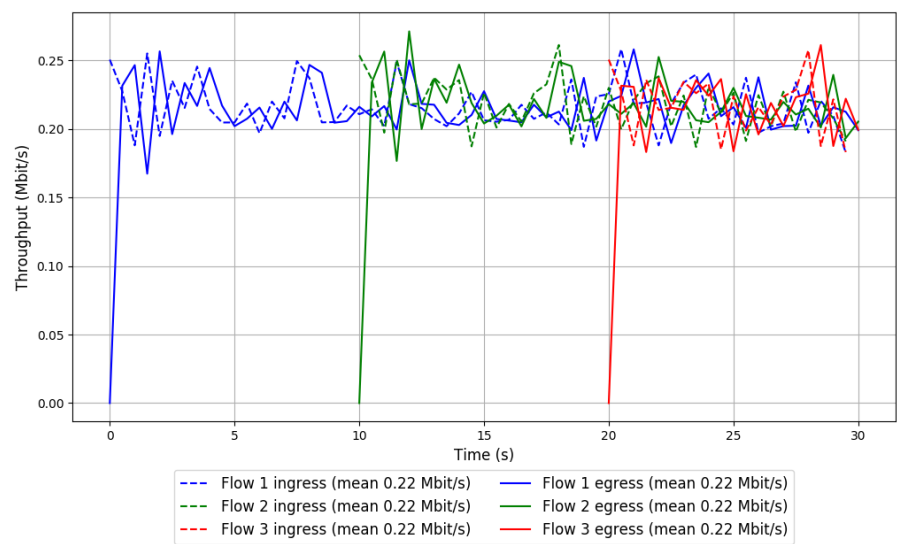
Run 7: Statistics of SReAM

Start at: 2018-05-30 18:04:42  
End at: 2018-05-30 18:05:12  
Local clock offset: 0.689 ms  
Remote clock offset: -2.117 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 28.476 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.840 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.852 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.513 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-30 18:26:11

End at: 2018-05-30 18:26:41

Local clock offset: 0.779 ms

Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.258 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.261 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.239 ms

Loss rate: 0.00%

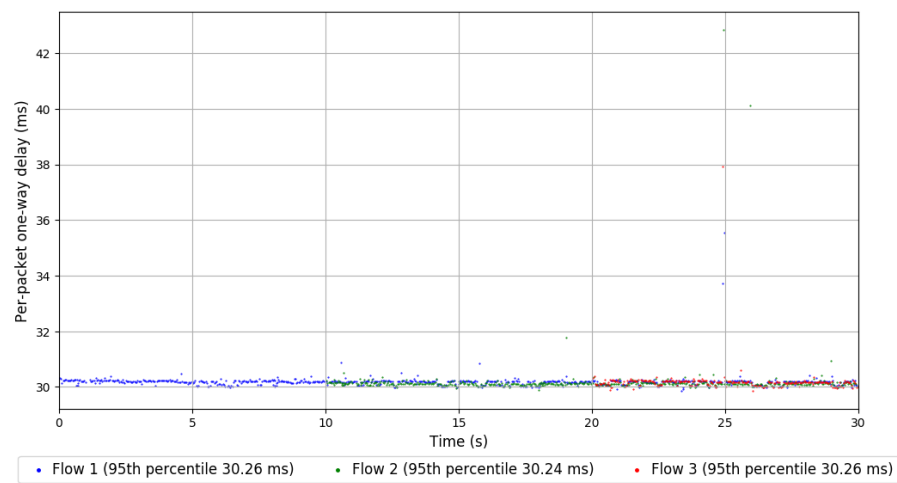
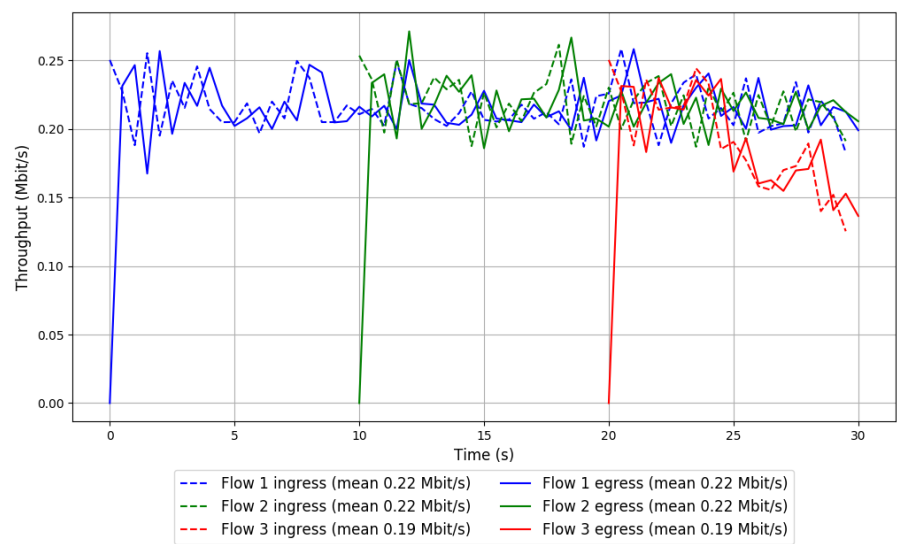
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 30.260 ms

Loss rate: 0.79%

Run 8: Report of SReAM — Data Link

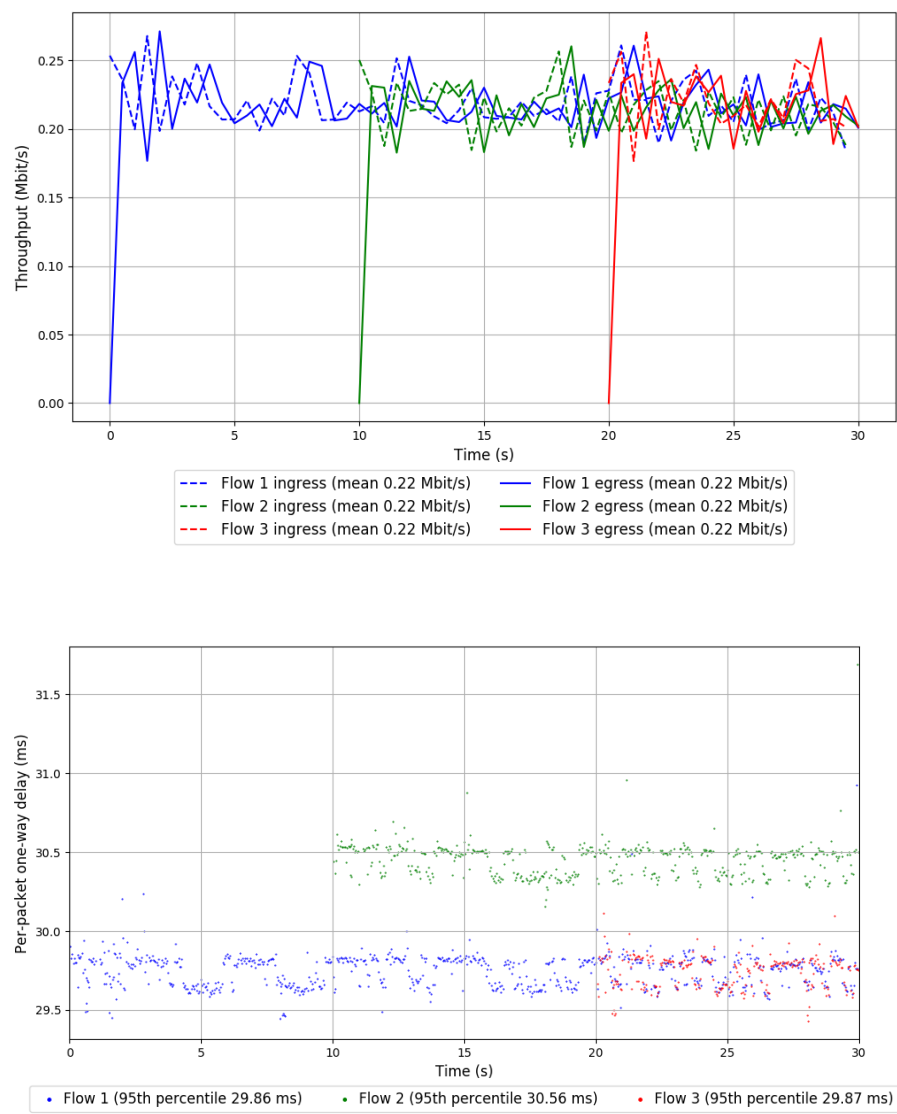


Run 9: Statistics of SReAM

Start at: 2018-05-30 18:47:40  
End at: 2018-05-30 18:48:10  
Local clock offset: 0.63 ms  
Remote clock offset: 1.185 ms

```
# Below is generated by plot.py at 2018-05-30 19:47:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.866 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-30 19:09:12

End at: 2018-05-30 19:09:42

Local clock offset: 0.401 ms

Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 30.636 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.653 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.984 ms

Loss rate: 0.00%

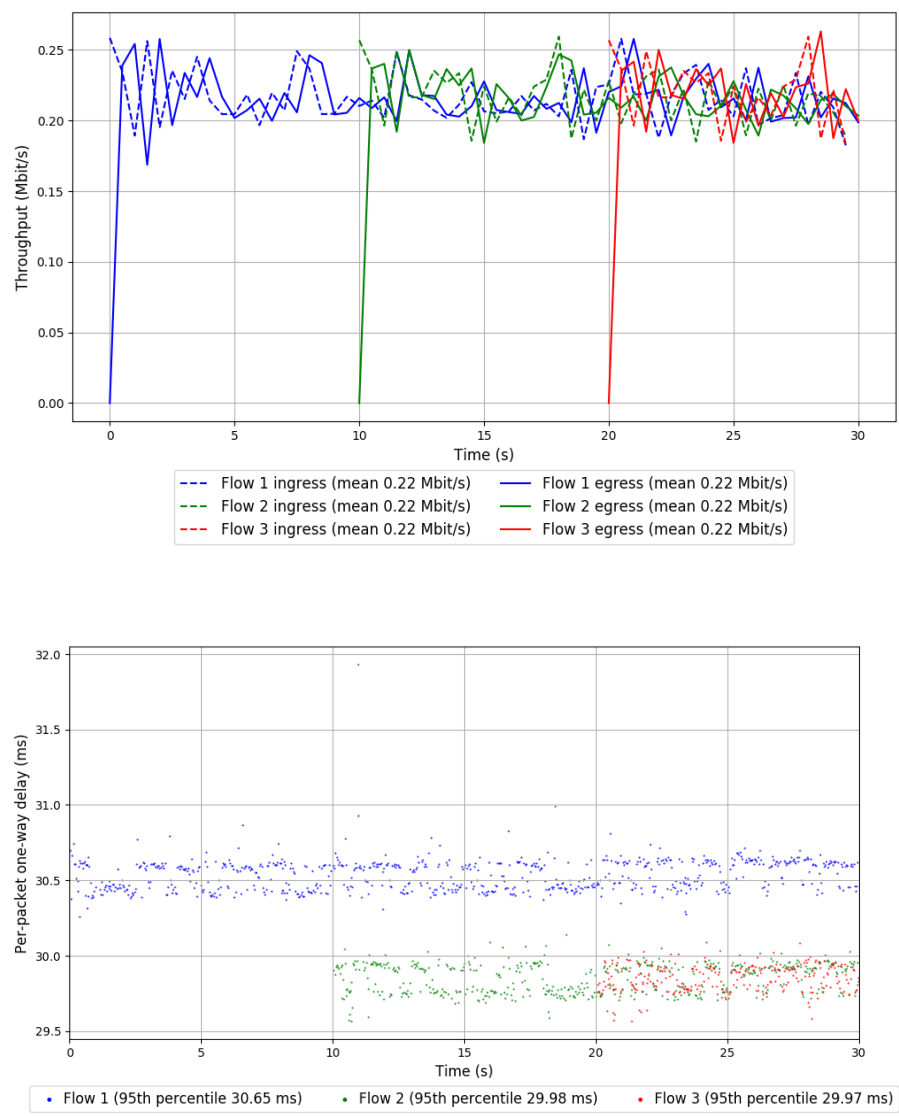
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.972 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



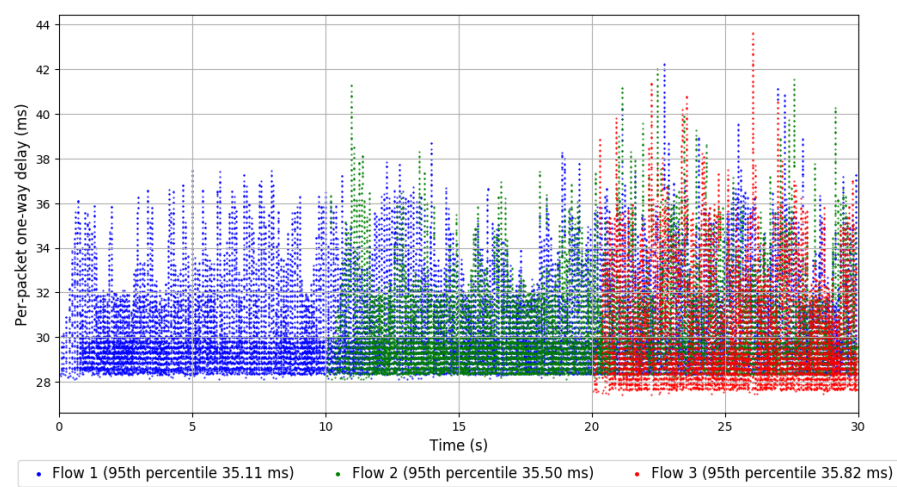
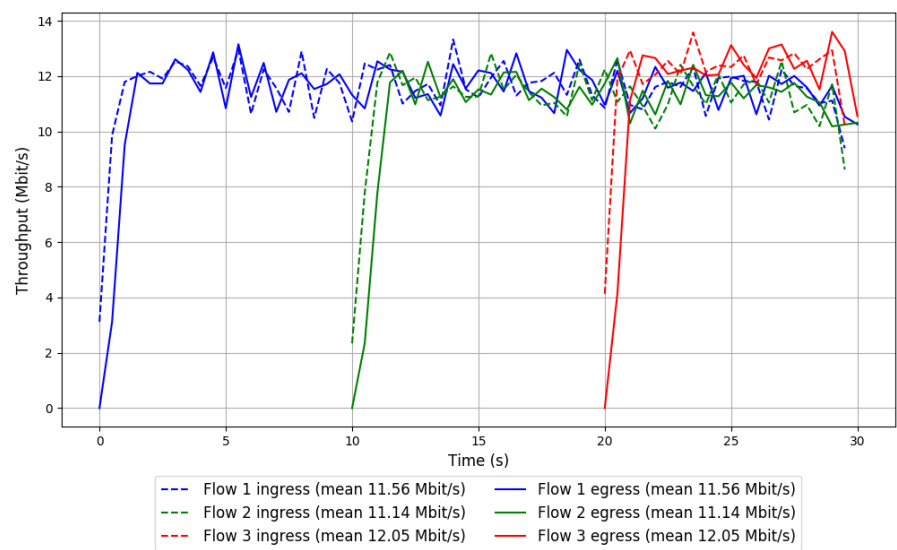
Run 1: Statistics of Sprout

Start at: 2018-05-30 16:06:22  
End at: 2018-05-30 16:06:52  
Local clock offset: 0.816 ms  
Remote clock offset: -3.037 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.95 Mbit/s  
95th percentile per-packet one-way delay: 35.340 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.56 Mbit/s  
95th percentile per-packet one-way delay: 35.111 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 35.503 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.05 Mbit/s  
95th percentile per-packet one-way delay: 35.824 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

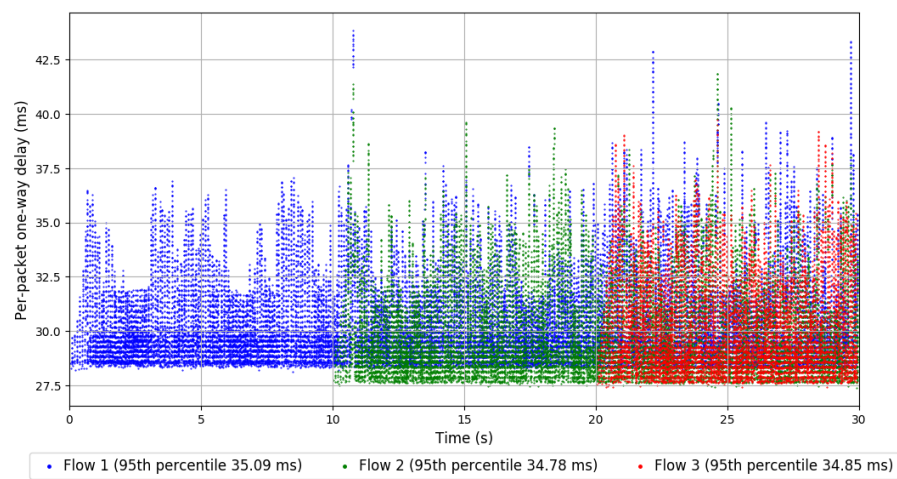
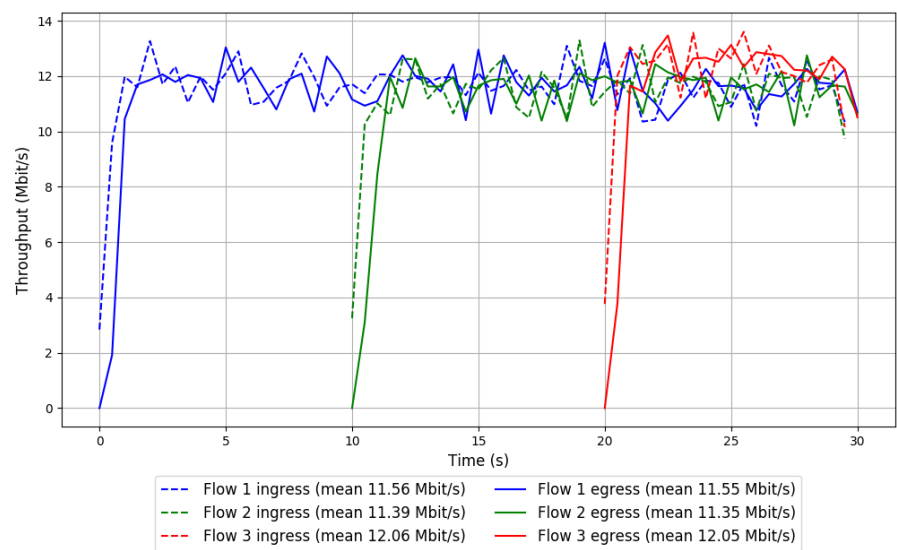


Run 2: Statistics of Sprout

Start at: 2018-05-30 16:27:58  
End at: 2018-05-30 16:28:28  
Local clock offset: 0.736 ms  
Remote clock offset: -2.697 ms

# Below is generated by plot.py at 2018-05-30 19:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.08 Mbit/s  
95th percentile per-packet one-way delay: 34.935 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 11.55 Mbit/s  
95th percentile per-packet one-way delay: 35.094 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 11.35 Mbit/s  
95th percentile per-packet one-way delay: 34.785 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 12.05 Mbit/s  
95th percentile per-packet one-way delay: 34.846 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

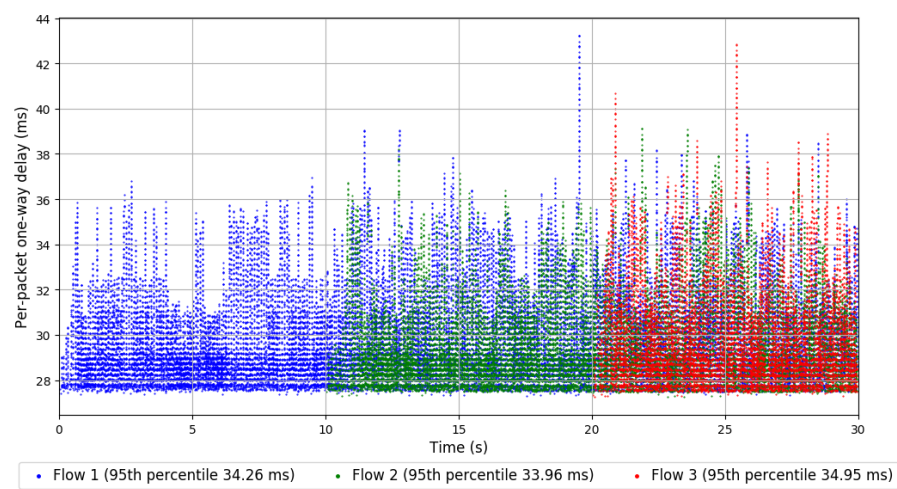
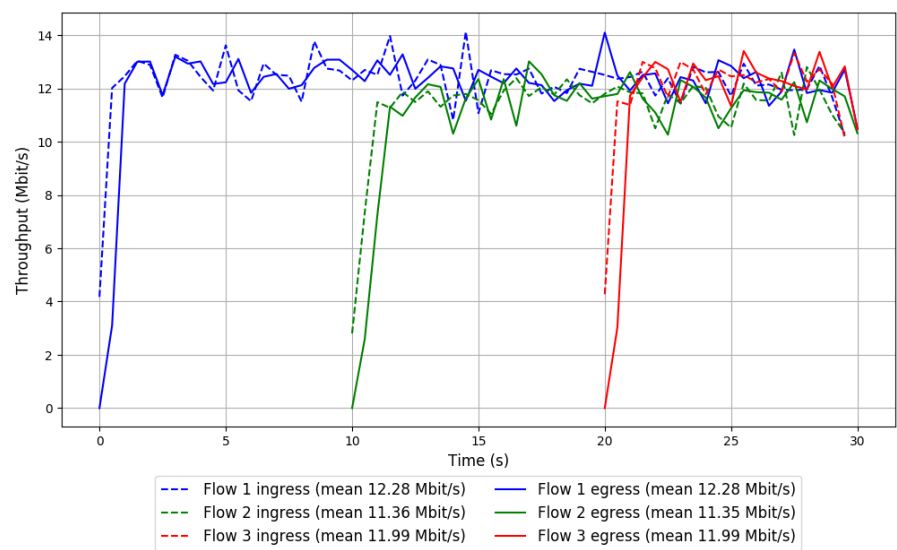


### Run 3: Statistics of Sprout

Start at: 2018-05-30 16:49:30  
End at: 2018-05-30 16:50:00  
Local clock offset: 0.44 ms  
Remote clock offset: -2.156 ms

```
# Below is generated by plot.py at 2018-05-30 19:47:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 34.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 34.264 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 33.961 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 34.948 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



#### Run 4: Statistics of Sprout

Start at: 2018-05-30 17:11:25

End at: 2018-05-30 17:11:55

Local clock offset: 0.235 ms

Remote clock offset: 0.658 ms

# Below is generated by plot.py at 2018-05-30 19:47:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.93 Mbit/s

95th percentile per-packet one-way delay: 37.340 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 11.63 Mbit/s

95th percentile per-packet one-way delay: 36.860 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 37.479 ms

Loss rate: 0.00%

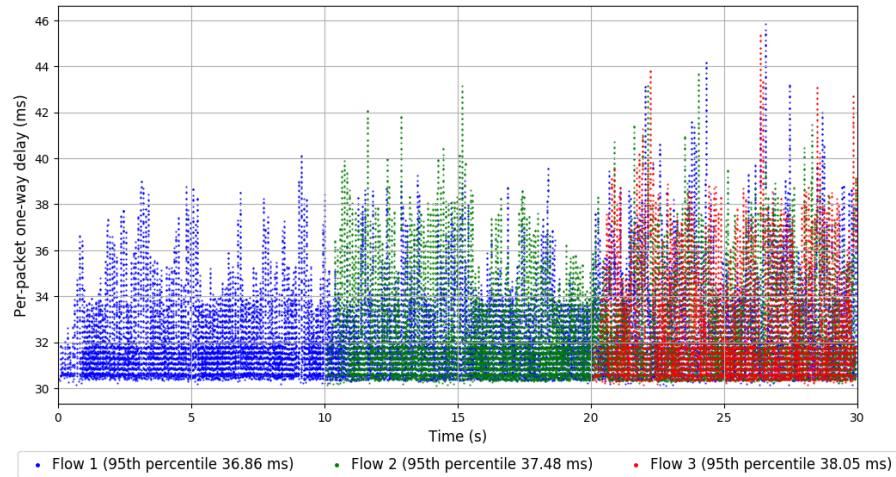
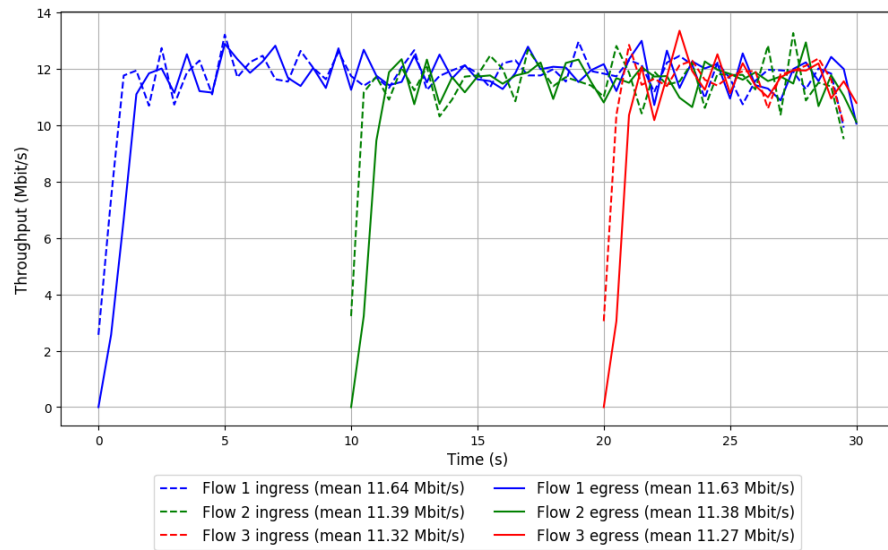
-- Flow 3:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 38.052 ms

Loss rate: 0.43%

#### Run 4: Report of Sprout — Data Link



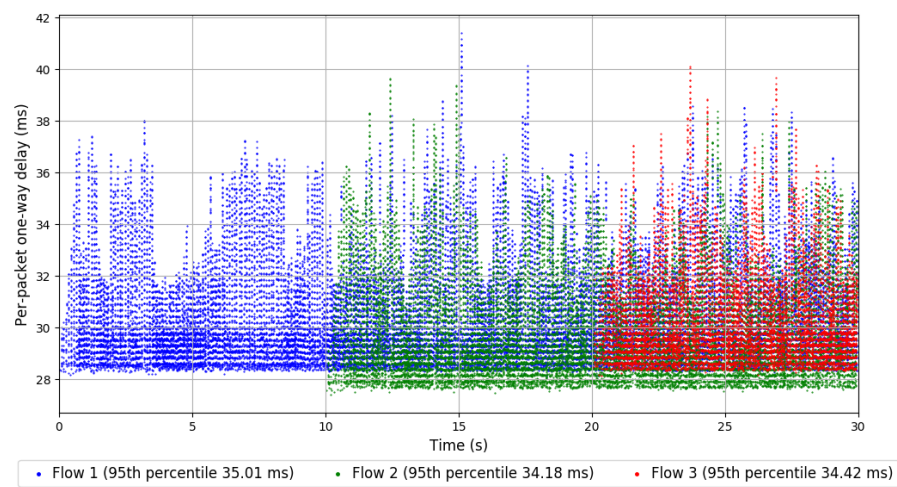
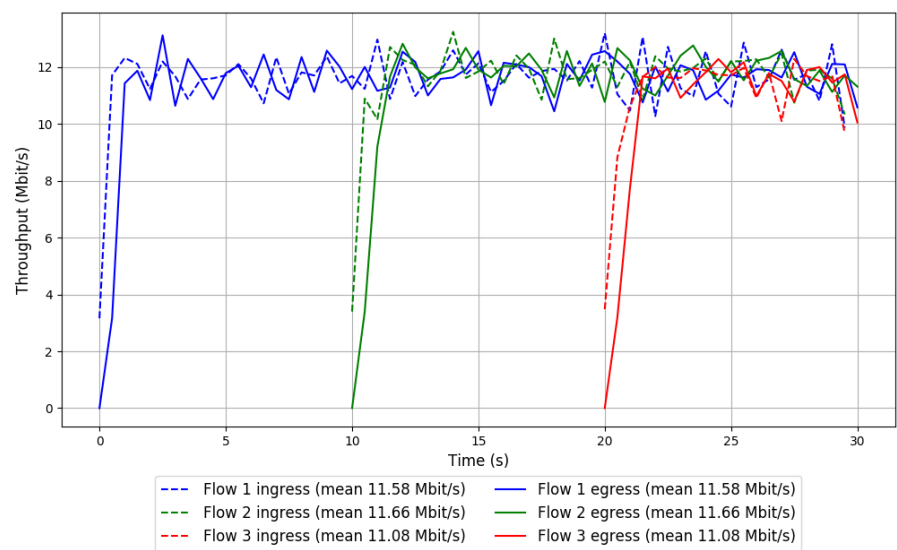
Run 5: Statistics of Sprout

Start at: 2018-05-30 17:36:55  
End at: 2018-05-30 17:37:25  
Local clock offset: 0.036 ms  
Remote clock offset: -2.122 ms

```
# Below is generated by plot.py at 2018-05-30 19:47:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 34.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 35.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 34.182 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 34.416 ms
Loss rate: 0.00%
```



Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-30 17:59:22

End at: 2018-05-30 17:59:52

Local clock offset: 0.672 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-30 19:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.72 Mbit/s

95th percentile per-packet one-way delay: 37.985 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 37.368 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 38.117 ms

Loss rate: 0.20%

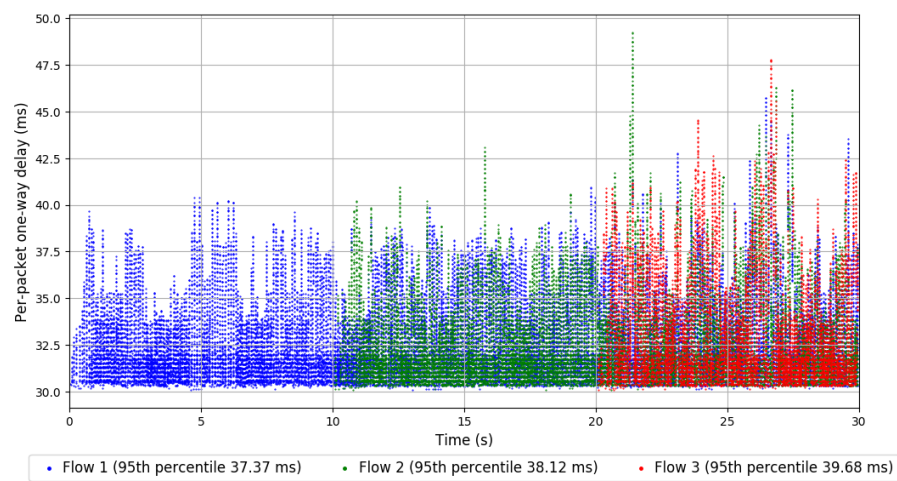
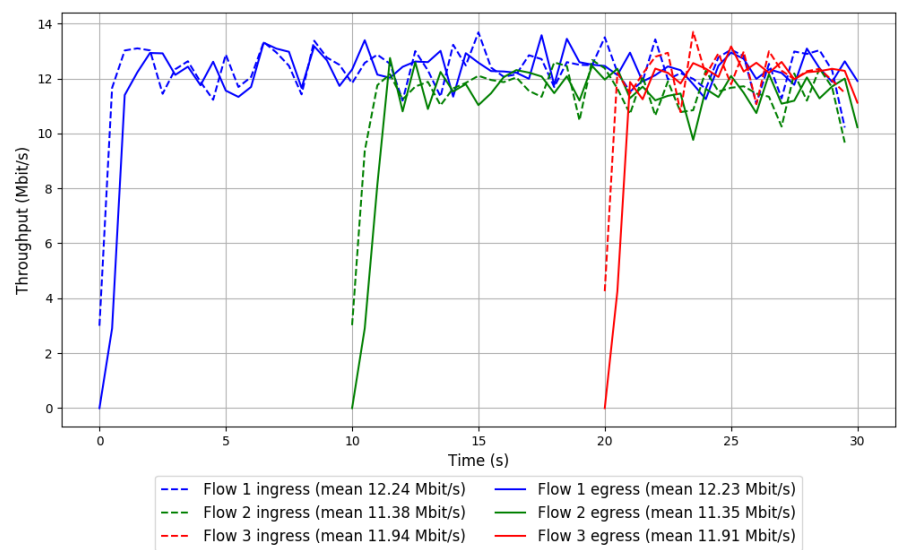
-- Flow 3:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 39.682 ms

Loss rate: 0.29%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-30 18:20:51

End at: 2018-05-30 18:21:21

Local clock offset: 0.76 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-30 19:47:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.34 Mbit/s

95th percentile per-packet one-way delay: 37.400 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.24 Mbit/s

95th percentile per-packet one-way delay: 37.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 37.379 ms

Loss rate: 0.00%

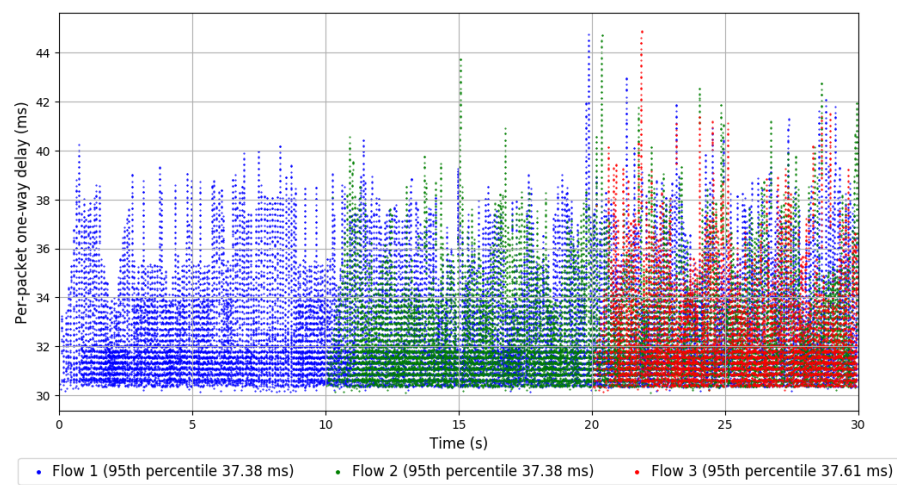
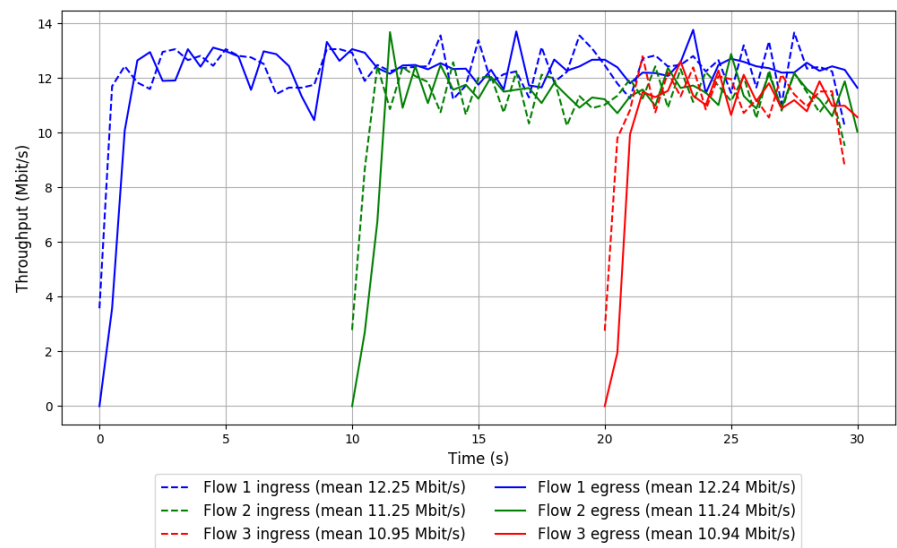
-- Flow 3:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 37.614 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

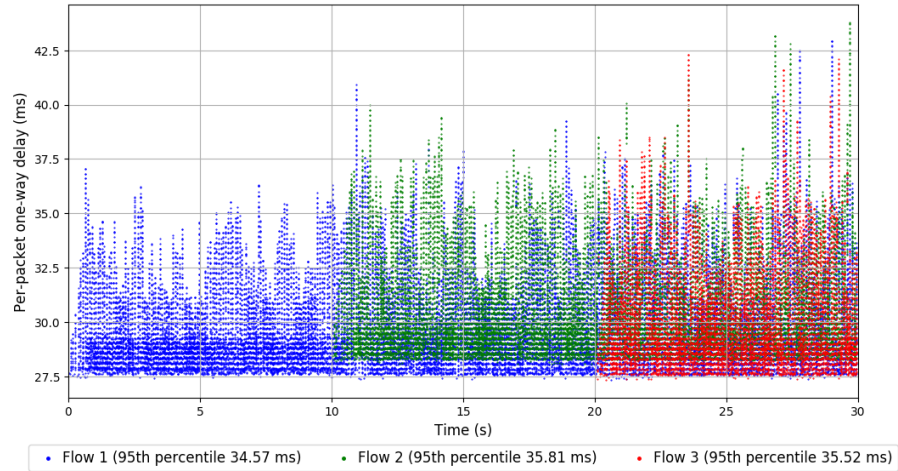
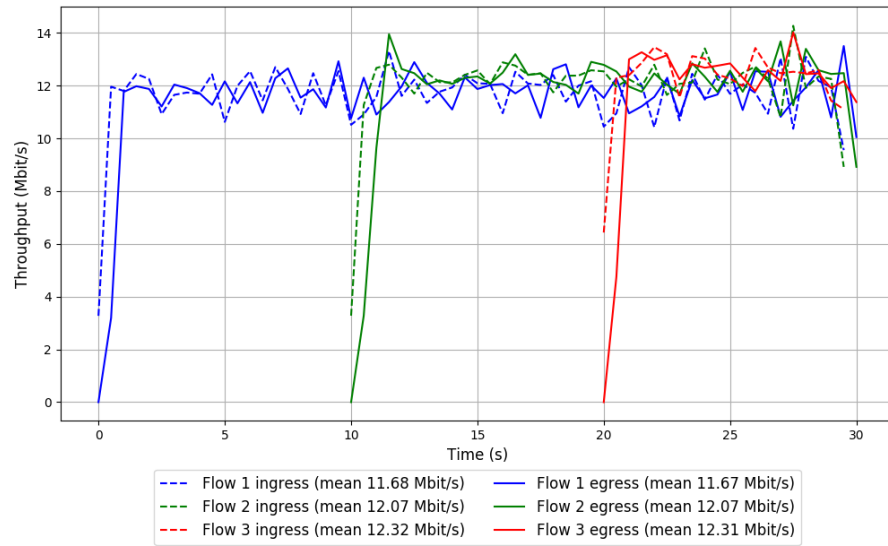


Run 8: Statistics of Sprout

Start at: 2018-05-30 18:42:19  
End at: 2018-05-30 18:42:49  
Local clock offset: 0.688 ms  
Remote clock offset: -1.061 ms

```
# Below is generated by plot.py at 2018-05-30 19:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 35.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 34.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 35.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 35.518 ms
Loss rate: 0.00%
```

## Run 8: Report of Sprout — Data Link



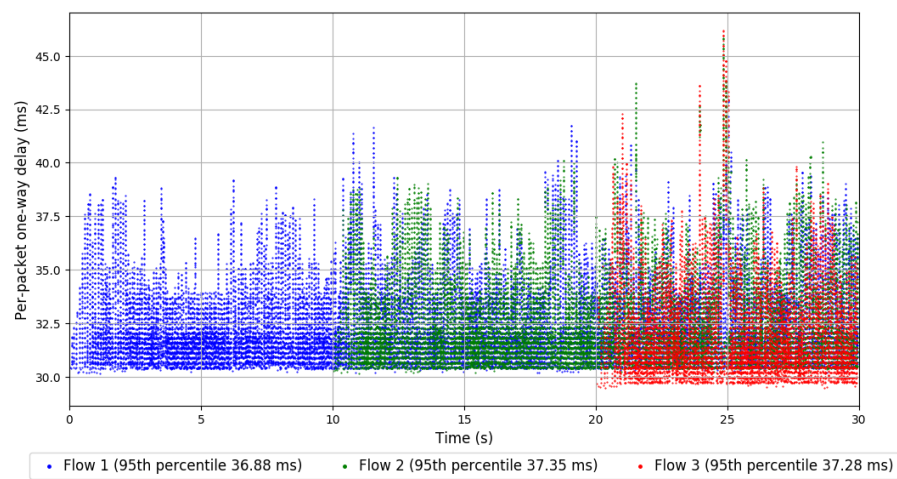
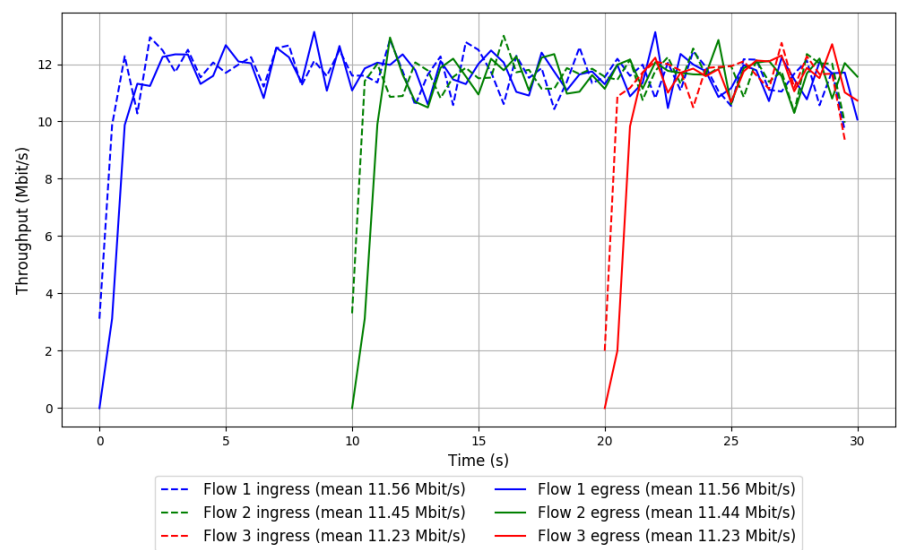
Run 9: Statistics of Sprout

Start at: 2018-05-30 19:03:50  
End at: 2018-05-30 19:04:20  
Local clock offset: 0.315 ms  
Remote clock offset: 0.461 ms

```
# Below is generated by plot.py at 2018-05-30 19:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 37.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 36.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 37.350 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 37.279 ms
Loss rate: 0.00%
```



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-30 19:25:21

End at: 2018-05-30 19:25:51

Local clock offset: 0.576 ms

Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2018-05-30 19:47:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 37.551 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 37.155 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 11.48 Mbit/s

95th percentile per-packet one-way delay: 37.718 ms

Loss rate: 0.03%

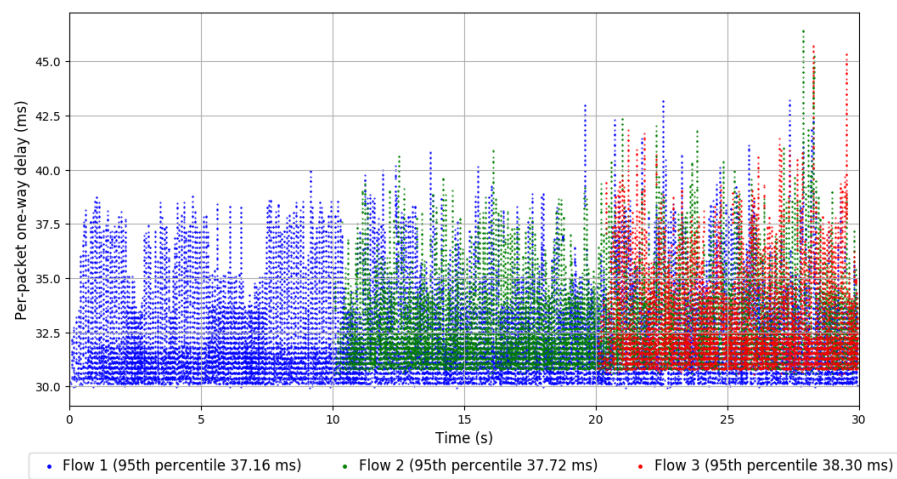
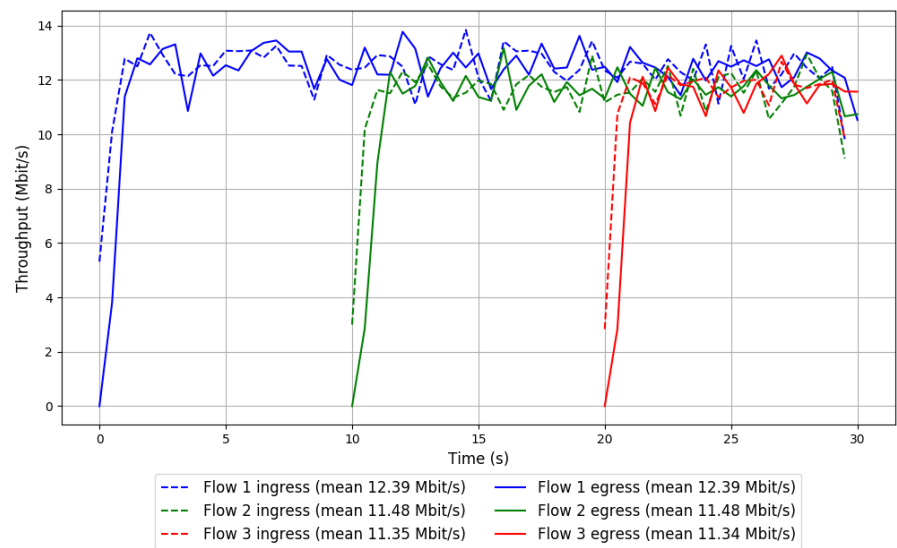
-- Flow 3:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 38.304 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

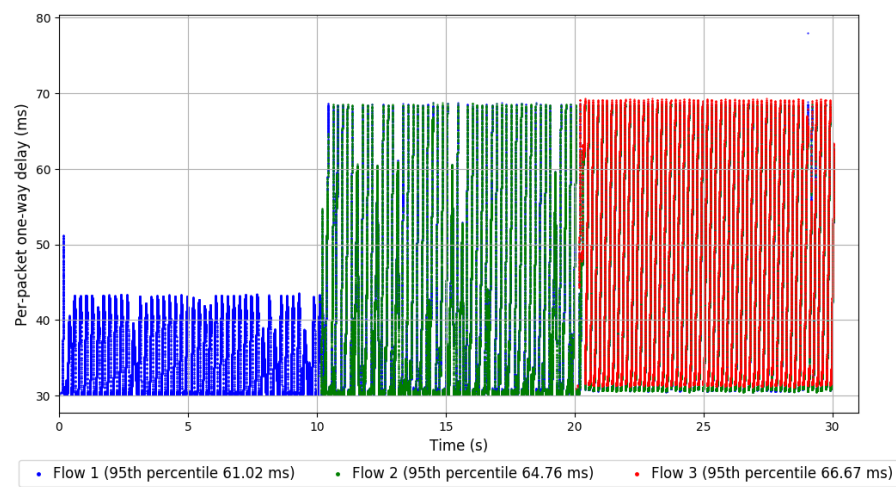
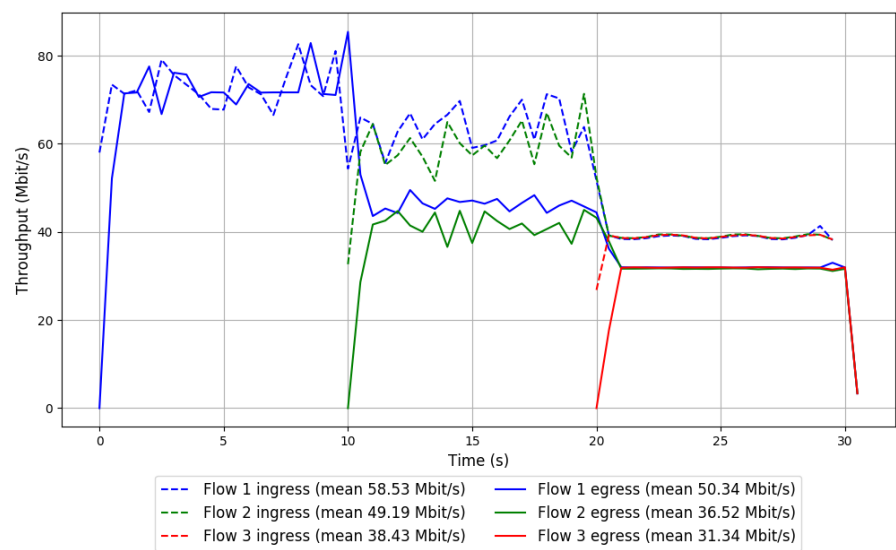


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 16:02:18  
End at: 2018-05-30 16:02:48  
Local clock offset: 0.825 ms  
Remote clock offset: -0.549 ms

# Below is generated by plot.py at 2018-05-30 19:49:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.12 Mbit/s  
95th percentile per-packet one-way delay: 63.776 ms  
Loss rate: 18.12%  
-- Flow 1:  
Average throughput: 50.34 Mbit/s  
95th percentile per-packet one-way delay: 61.021 ms  
Loss rate: 13.90%  
-- Flow 2:  
Average throughput: 36.52 Mbit/s  
95th percentile per-packet one-way delay: 64.761 ms  
Loss rate: 25.64%  
-- Flow 3:  
Average throughput: 31.34 Mbit/s  
95th percentile per-packet one-way delay: 66.668 ms  
Loss rate: 18.19%

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

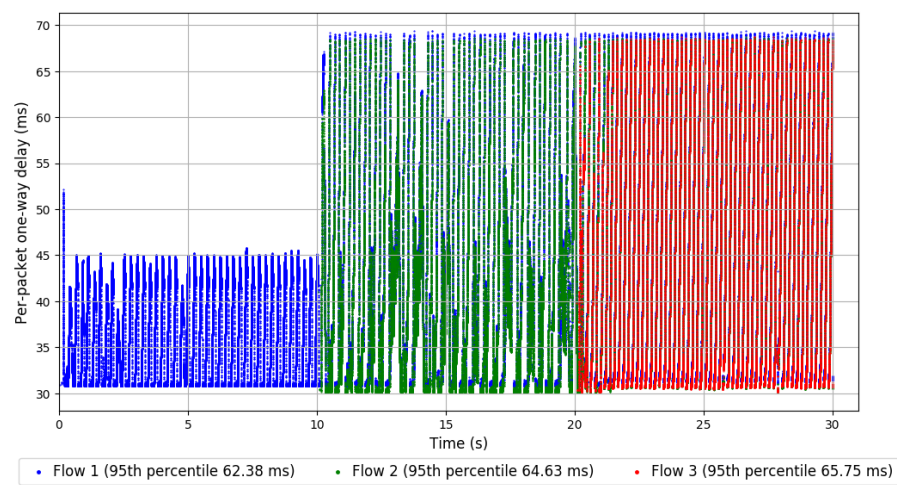
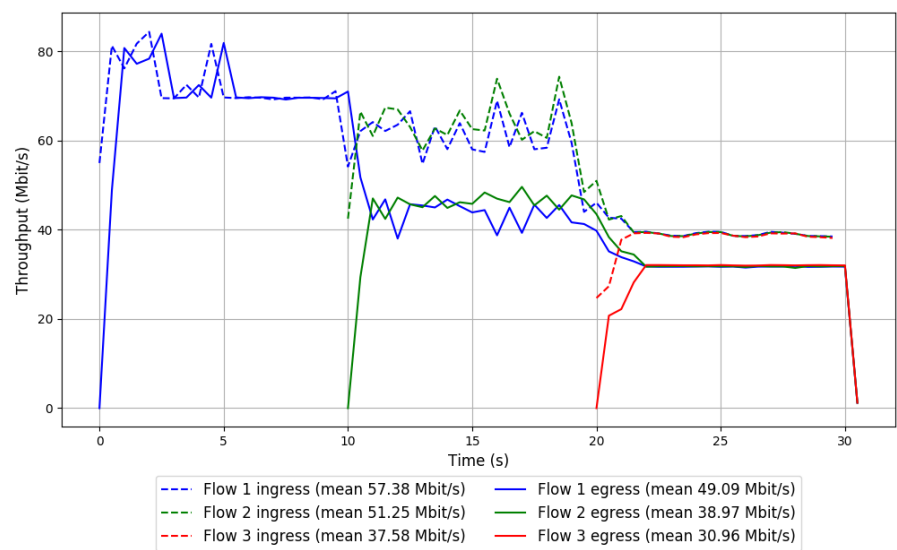


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 16:23:49  
End at: 2018-05-30 16:24:19  
Local clock offset: 0.843 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-05-30 19:49:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.32 Mbit/s  
95th percentile per-packet one-way delay: 64.036 ms  
Loss rate: 17.97%  
-- Flow 1:  
Average throughput: 49.09 Mbit/s  
95th percentile per-packet one-way delay: 62.382 ms  
Loss rate: 14.44%  
-- Flow 2:  
Average throughput: 38.97 Mbit/s  
95th percentile per-packet one-way delay: 64.626 ms  
Loss rate: 24.00%  
-- Flow 3:  
Average throughput: 30.96 Mbit/s  
95th percentile per-packet one-way delay: 65.746 ms  
Loss rate: 17.70%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 16:45:26

End at: 2018-05-30 16:45:56

Local clock offset: 0.537 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2018-05-30 19:49:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.57 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 16.42%

-- Flow 1:

Average throughput: 52.42 Mbit/s

95th percentile per-packet one-way delay: 60.880 ms

Loss rate: 12.40%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 65.404 ms

Loss rate: 23.39%

-- Flow 3:

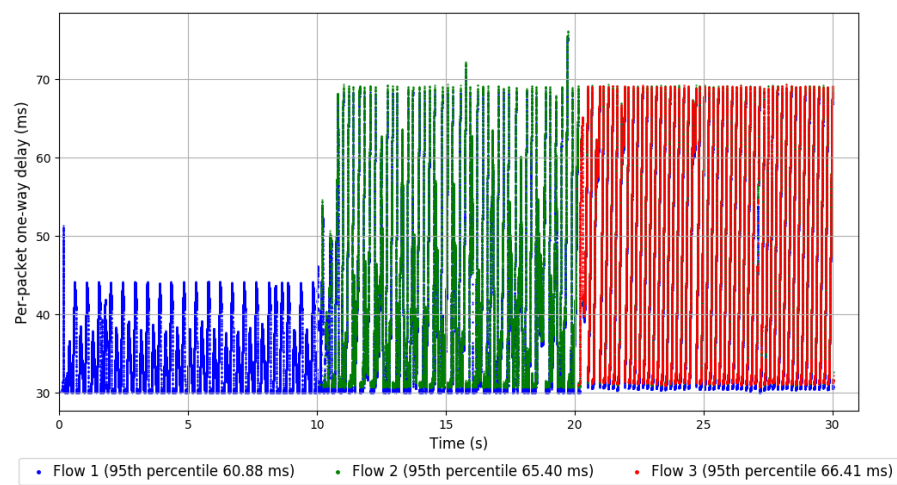
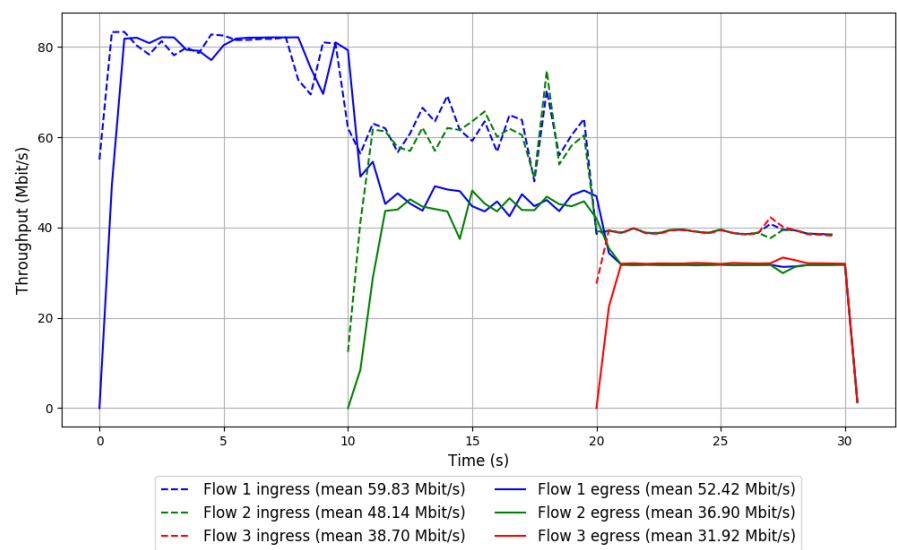
Average throughput: 31.92 Mbit/s

95th percentile per-packet one-way delay: 66.408 ms

Loss rate: 17.73%



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

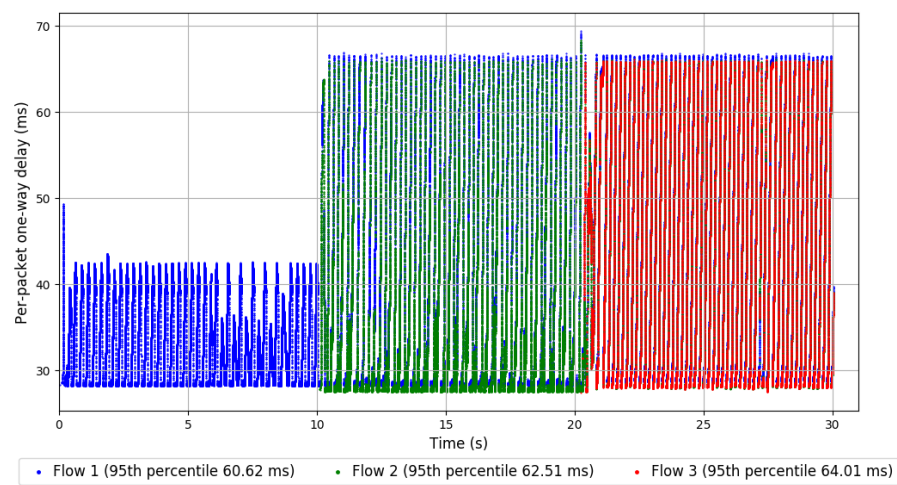
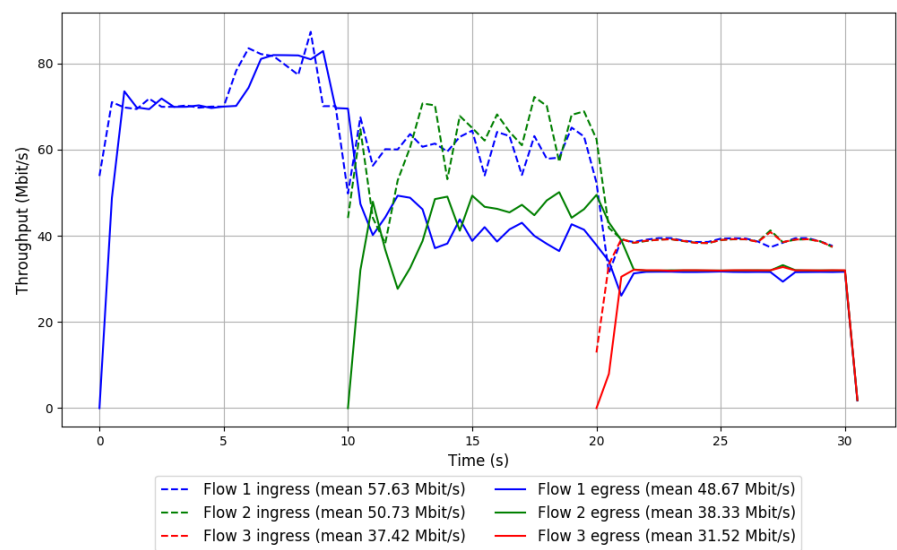


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 17:07:14  
End at: 2018-05-30 17:07:44  
Local clock offset: 0.276 ms  
Remote clock offset: -1.517 ms

# Below is generated by plot.py at 2018-05-30 19:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.49 Mbit/s  
95th percentile per-packet one-way delay: 62.135 ms  
Loss rate: 18.63%  
-- Flow 1:  
Average throughput: 48.67 Mbit/s  
95th percentile per-packet one-way delay: 60.625 ms  
Loss rate: 15.51%  
-- Flow 2:  
Average throughput: 38.33 Mbit/s  
95th percentile per-packet one-way delay: 62.505 ms  
Loss rate: 24.41%  
-- Flow 3:  
Average throughput: 31.52 Mbit/s  
95th percentile per-packet one-way delay: 64.012 ms  
Loss rate: 17.37%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 17:31:45

End at: 2018-05-30 17:32:15

Local clock offset: -0.016 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-05-30 19:49:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 17.43%

-- Flow 1:

Average throughput: 52.01 Mbit/s

95th percentile per-packet one-way delay: 61.109 ms

Loss rate: 13.25%

-- Flow 2:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 65.080 ms

Loss rate: 24.83%

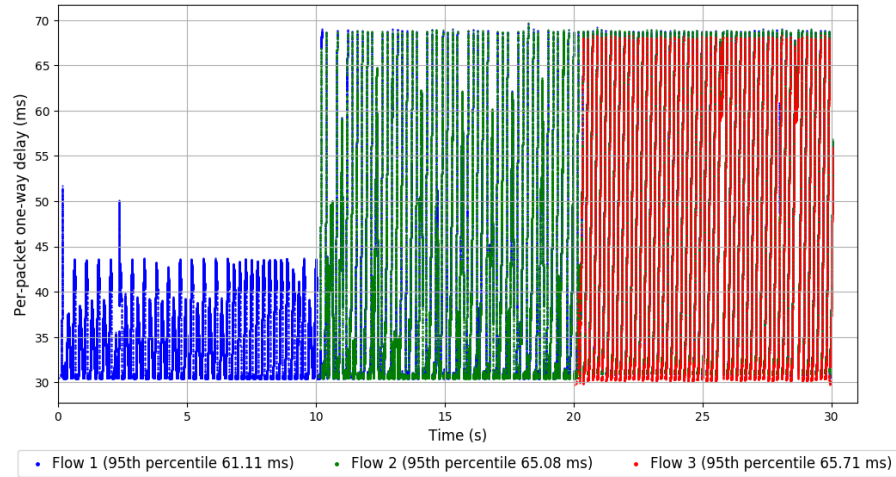
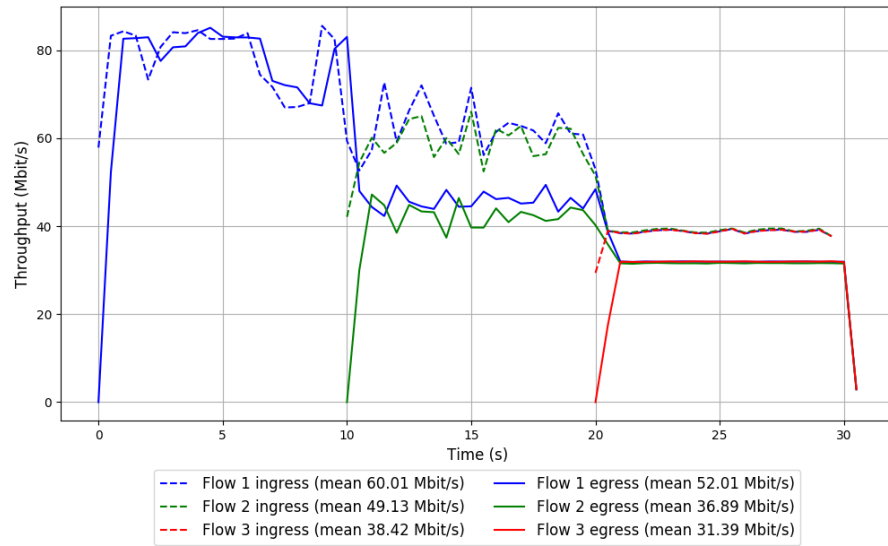
-- Flow 3:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 65.711 ms

Loss rate: 18.08%

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

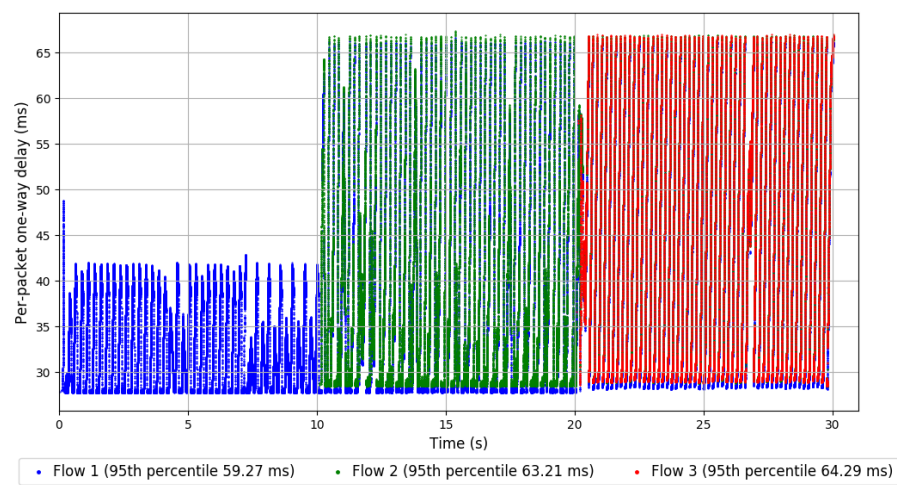
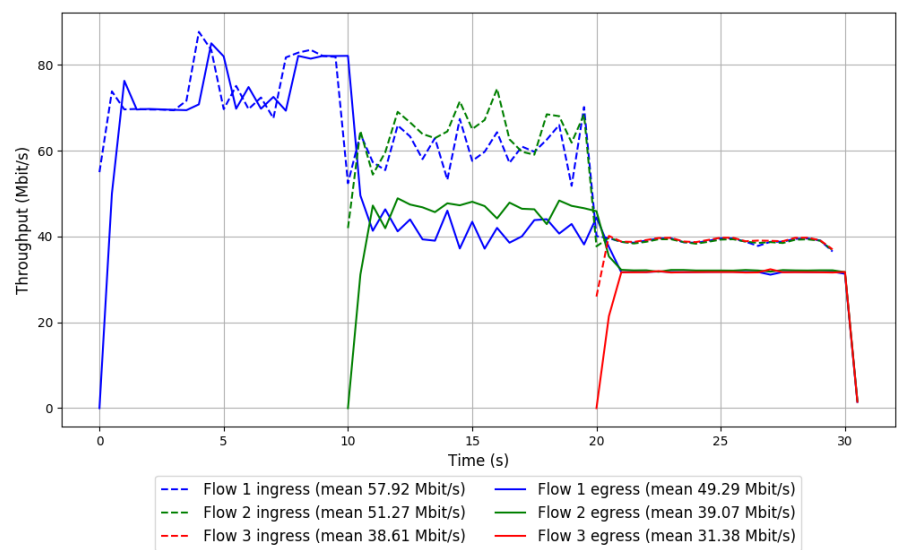


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 17:55:17  
End at: 2018-05-30 17:55:47  
Local clock offset: 0.524 ms  
Remote clock offset: -2.061 ms

# Below is generated by plot.py at 2018-05-30 19:49:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.74 Mbit/s  
95th percentile per-packet one-way delay: 61.981 ms  
Loss rate: 18.25%  
-- Flow 1:  
Average throughput: 49.29 Mbit/s  
95th percentile per-packet one-way delay: 59.265 ms  
Loss rate: 14.87%  
-- Flow 2:  
Average throughput: 39.07 Mbit/s  
95th percentile per-packet one-way delay: 63.212 ms  
Loss rate: 23.80%  
-- Flow 3:  
Average throughput: 31.38 Mbit/s  
95th percentile per-packet one-way delay: 64.294 ms  
Loss rate: 18.73%

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



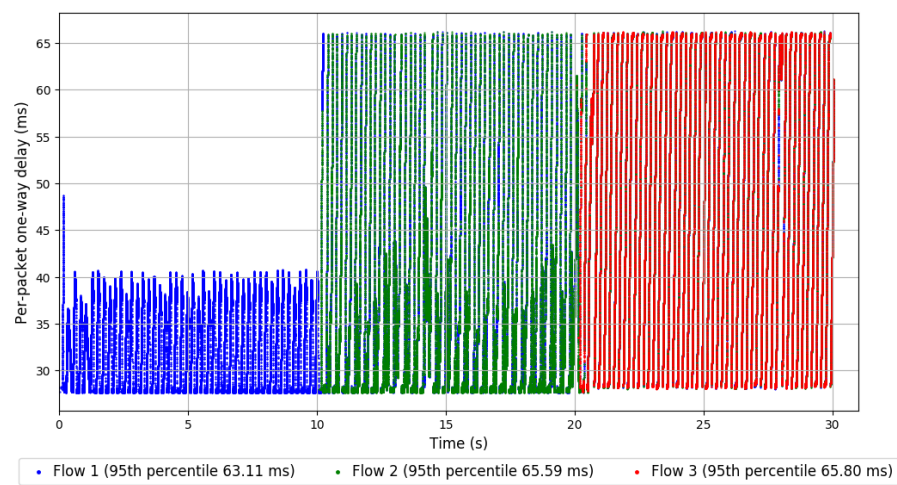
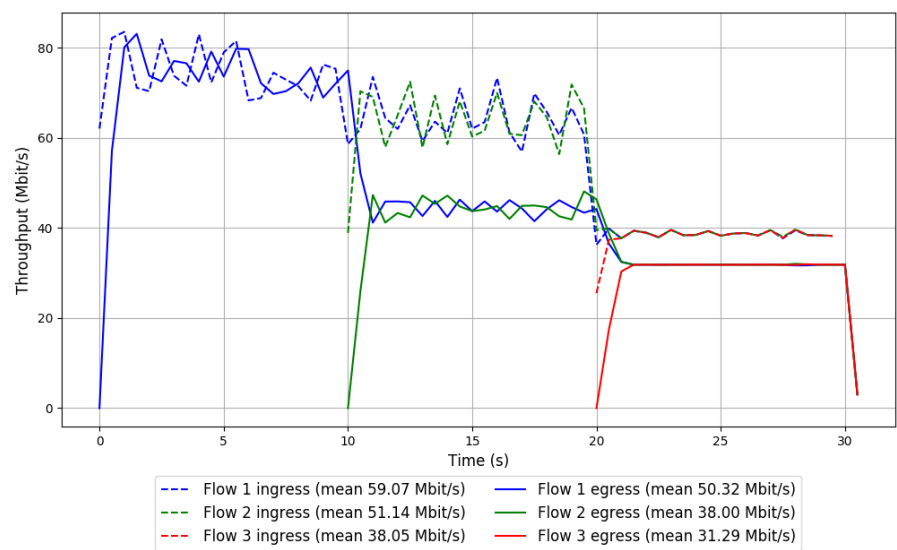
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 18:16:46  
End at: 2018-05-30 18:17:16  
Local clock offset: 0.659 ms  
Remote clock offset: -2.052 ms

# Below is generated by plot.py at 2018-05-30 19:49:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.03 Mbit/s  
95th percentile per-packet one-way delay: 65.508 ms  
Loss rate: 18.59%  
-- Flow 1:  
Average throughput: 50.32 Mbit/s  
95th percentile per-packet one-way delay: 63.114 ms  
Loss rate: 14.72%  
-- Flow 2:  
Average throughput: 38.00 Mbit/s  
95th percentile per-packet one-way delay: 65.591 ms  
Loss rate: 25.61%  
-- Flow 3:  
Average throughput: 31.29 Mbit/s  
95th percentile per-packet one-way delay: 65.797 ms  
Loss rate: 17.77%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 18:38:16

End at: 2018-05-30 18:38:46

Local clock offset: 0.743 ms

Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2018-05-30 19:49:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 63.874 ms

Loss rate: 17.53%

-- Flow 1:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 61.405 ms

Loss rate: 13.54%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 24.46%

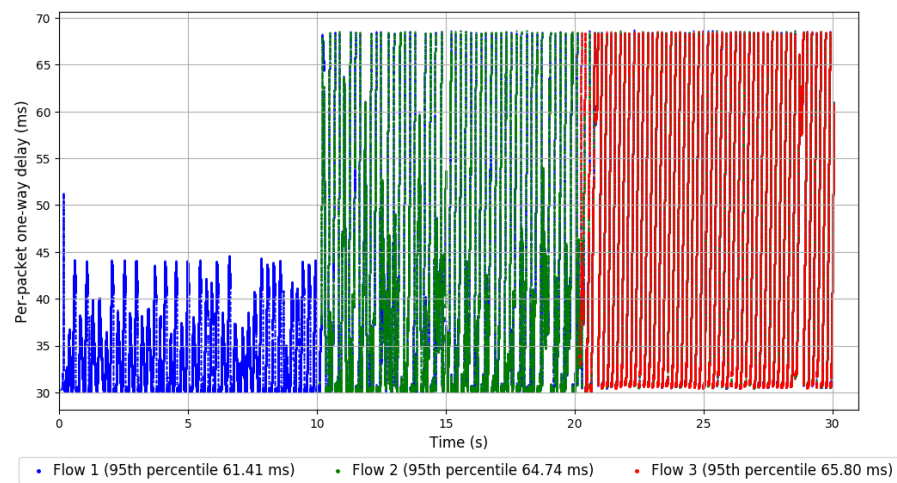
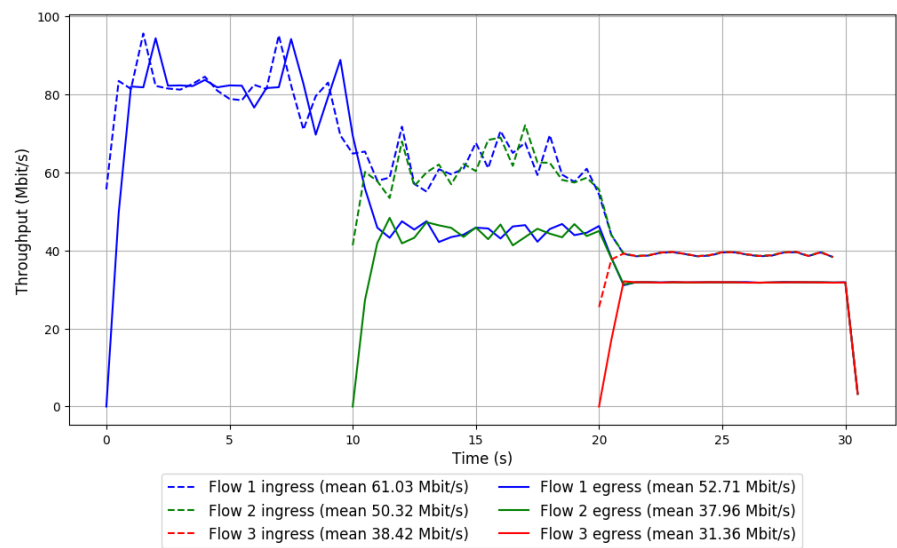
-- Flow 3:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 65.795 ms

Loss rate: 18.42%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 18:59:46

End at: 2018-05-30 19:00:16

Local clock offset: 0.415 ms

Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-05-30 19:51:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 17.85%

-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 61.686 ms

Loss rate: 14.57%

-- Flow 2:

Average throughput: 38.86 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 23.26%

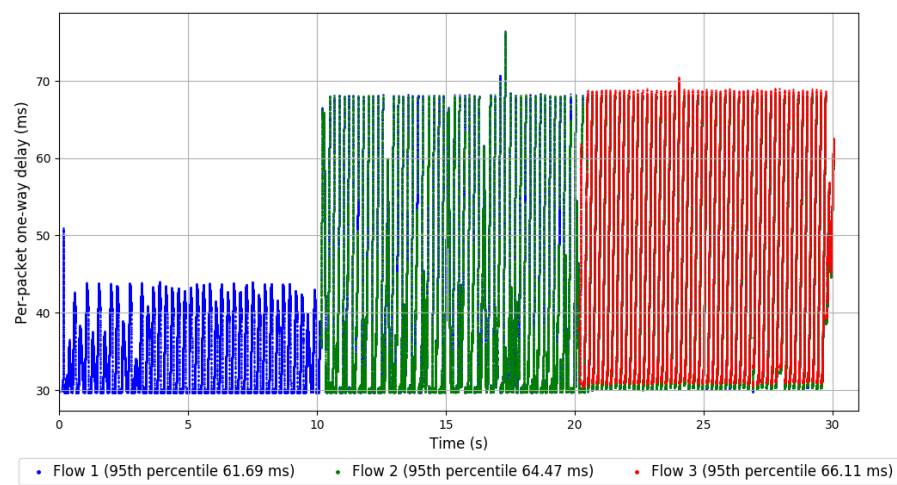
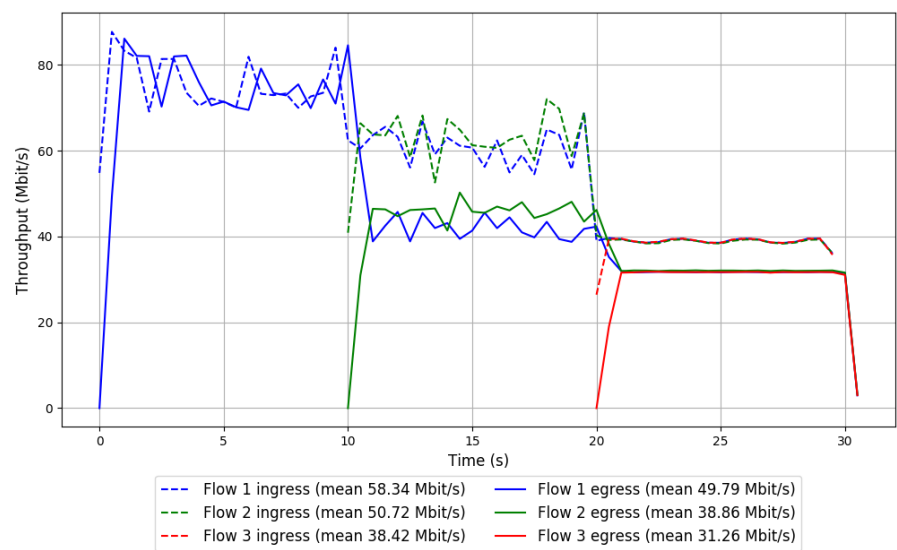
-- Flow 3:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 66.110 ms

Loss rate: 18.54%

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

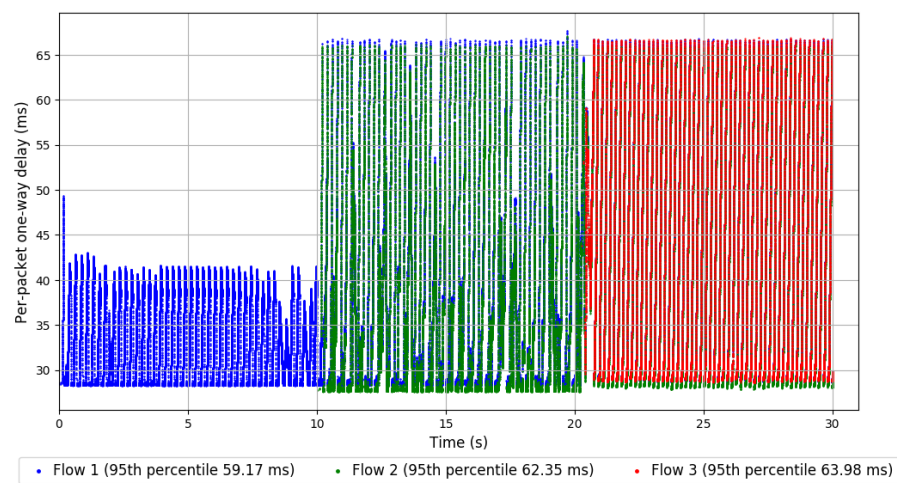
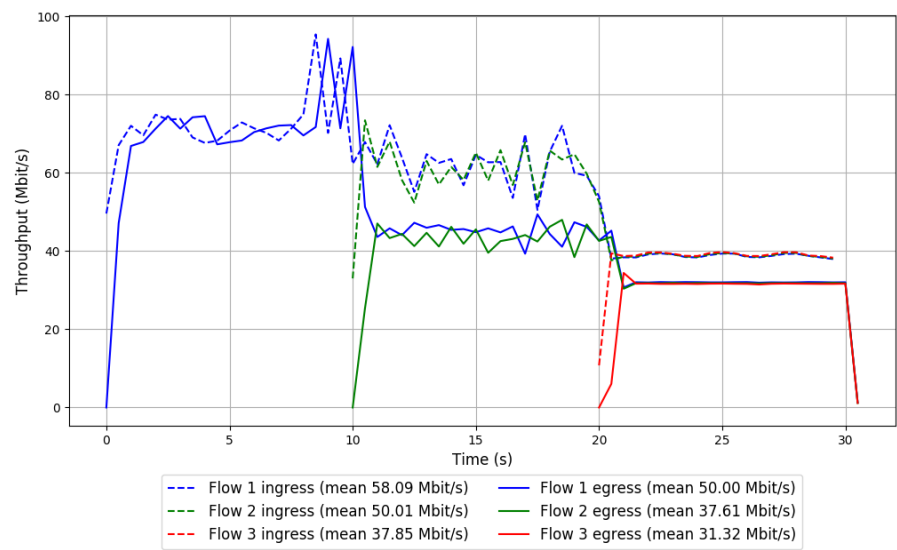


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 19:21:16  
End at: 2018-05-30 19:21:46  
Local clock offset: 0.583 ms  
Remote clock offset: -2.095 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.24 Mbit/s  
95th percentile per-packet one-way delay: 61.581 ms  
Loss rate: 18.02%  
-- Flow 1:  
Average throughput: 50.00 Mbit/s  
95th percentile per-packet one-way delay: 59.173 ms  
Loss rate: 13.92%  
-- Flow 2:  
Average throughput: 37.61 Mbit/s  
95th percentile per-packet one-way delay: 62.346 ms  
Loss rate: 24.79%  
-- Flow 3:  
Average throughput: 31.32 Mbit/s  
95th percentile per-packet one-way delay: 63.980 ms  
Loss rate: 19.04%

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



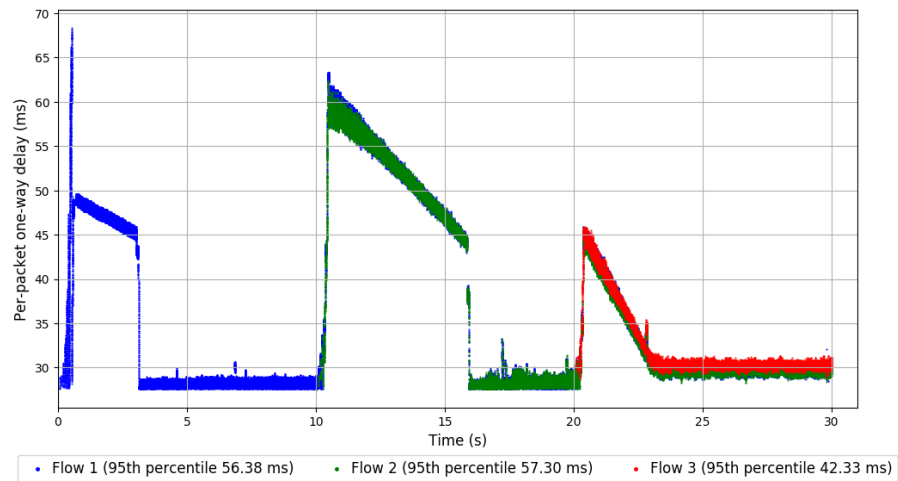
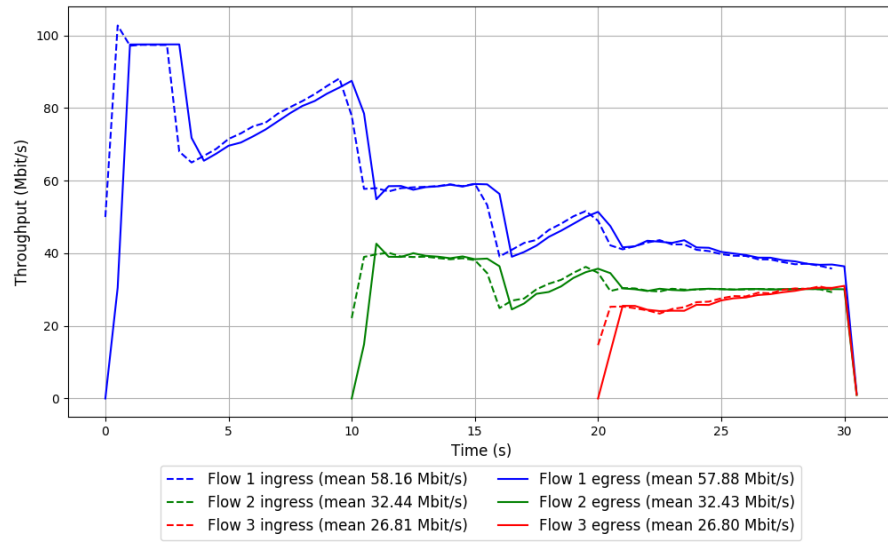
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 16:07:39  
End at: 2018-05-30 16:08:09  
Local clock offset: 0.898 ms  
Remote clock offset: -2.915 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.39 Mbit/s  
95th percentile per-packet one-way delay: 56.507 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 57.88 Mbit/s  
95th percentile per-packet one-way delay: 56.379 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 32.43 Mbit/s  
95th percentile per-packet one-way delay: 57.297 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 26.80 Mbit/s  
95th percentile per-packet one-way delay: 42.331 ms  
Loss rate: 0.00%



# Run 1: Report of TCP Vegas — Data Link

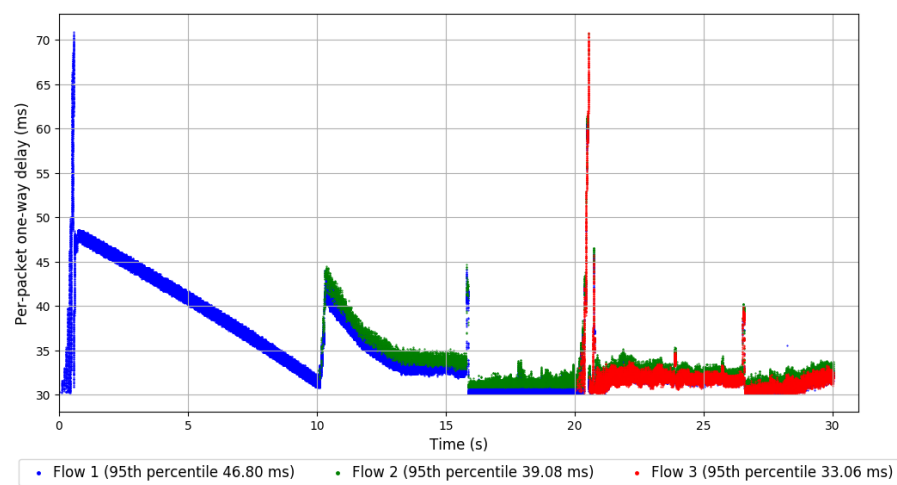
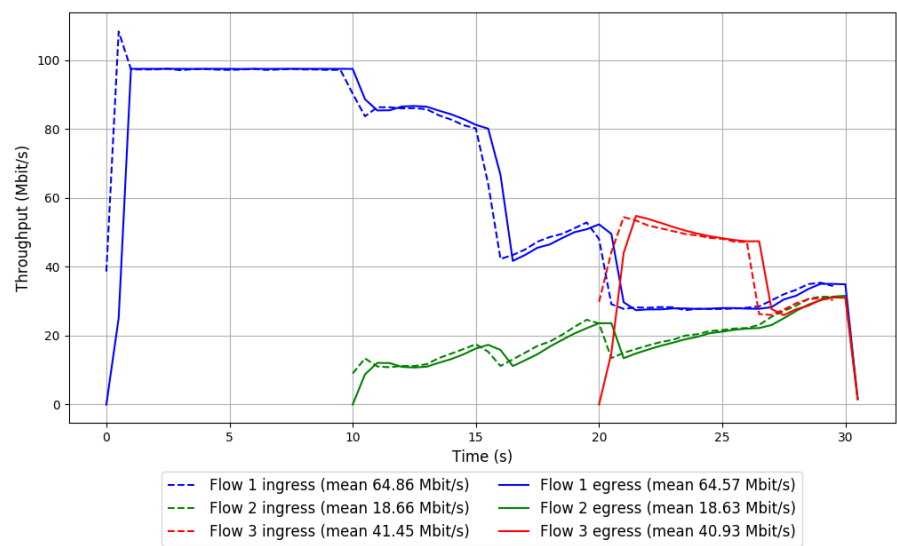


Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 16:29:17  
End at: 2018-05-30 16:29:47  
Local clock offset: 0.821 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 46.298 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 64.57 Mbit/s  
95th percentile per-packet one-way delay: 46.797 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 18.63 Mbit/s  
95th percentile per-packet one-way delay: 39.076 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 40.93 Mbit/s  
95th percentile per-packet one-way delay: 33.057 ms  
Loss rate: 1.22%

Run 2: Report of TCP Vegas — Data Link

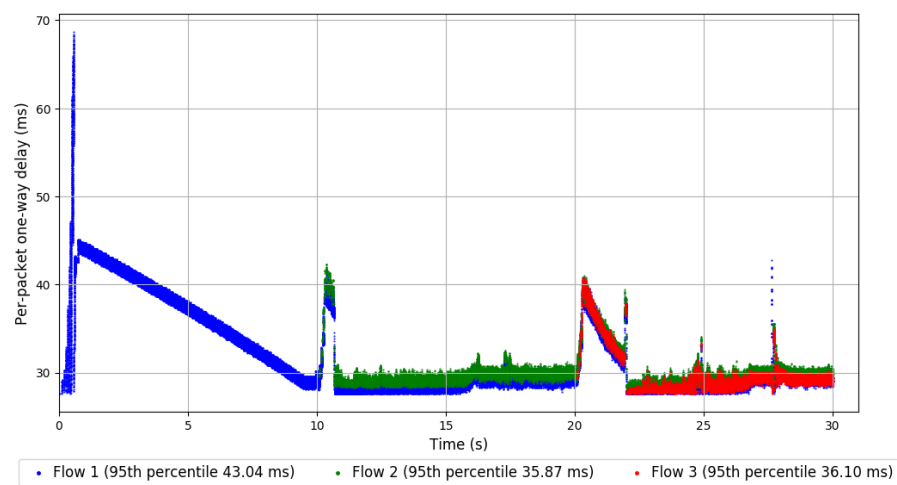
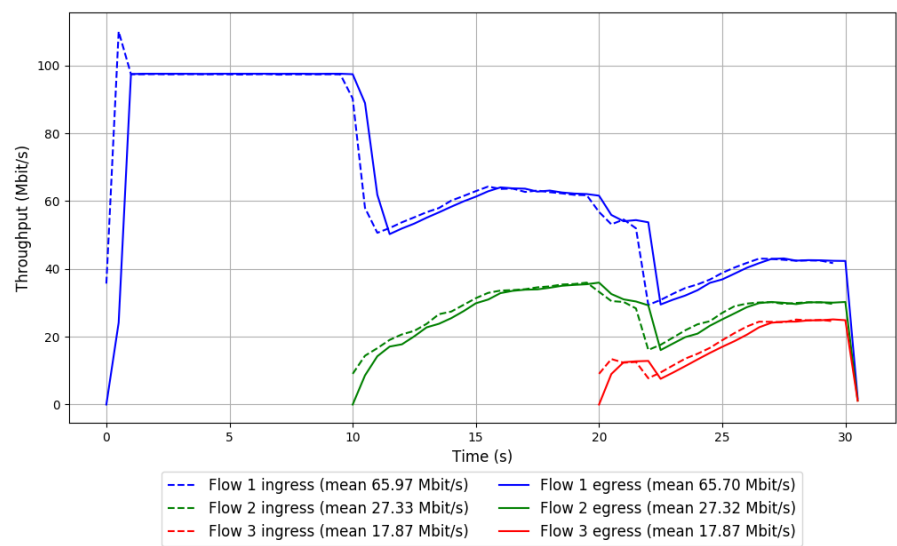


Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 16:50:48  
End at: 2018-05-30 16:51:18  
Local clock offset: 0.362 ms  
Remote clock offset: -2.013 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.85 Mbit/s  
95th percentile per-packet one-way delay: 42.563 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 65.70 Mbit/s  
95th percentile per-packet one-way delay: 43.040 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 27.32 Mbit/s  
95th percentile per-packet one-way delay: 35.873 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 17.87 Mbit/s  
95th percentile per-packet one-way delay: 36.097 ms  
Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 17:12:42

End at: 2018-05-30 17:13:12

Local clock offset: 0.24 ms

Remote clock offset: 1.117 ms

# Below is generated by plot.py at 2018-05-30 19:51:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 46.370 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 49.96 Mbit/s

95th percentile per-packet one-way delay: 46.445 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 45.141 ms

Loss rate: 0.42%

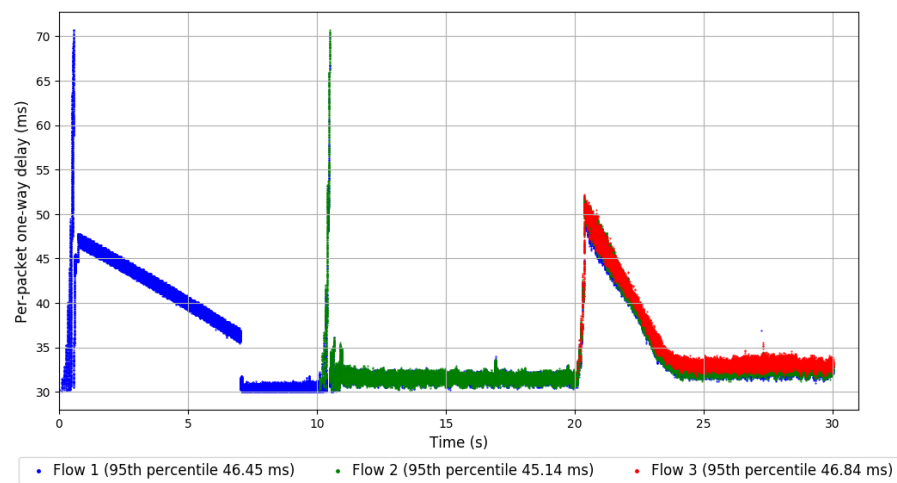
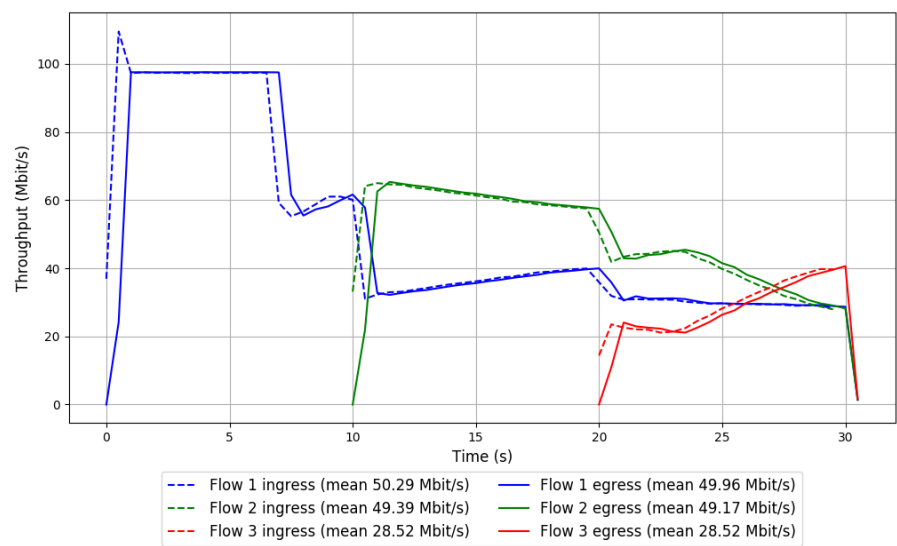
-- Flow 3:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 46.840 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



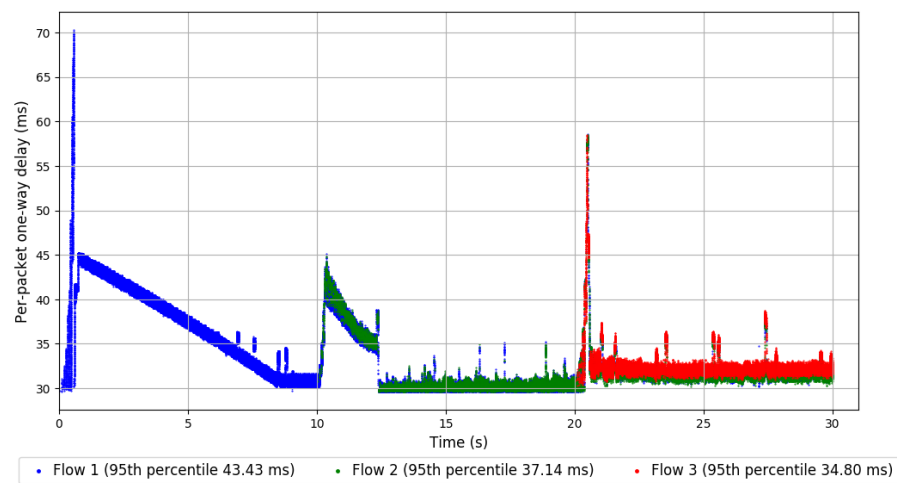
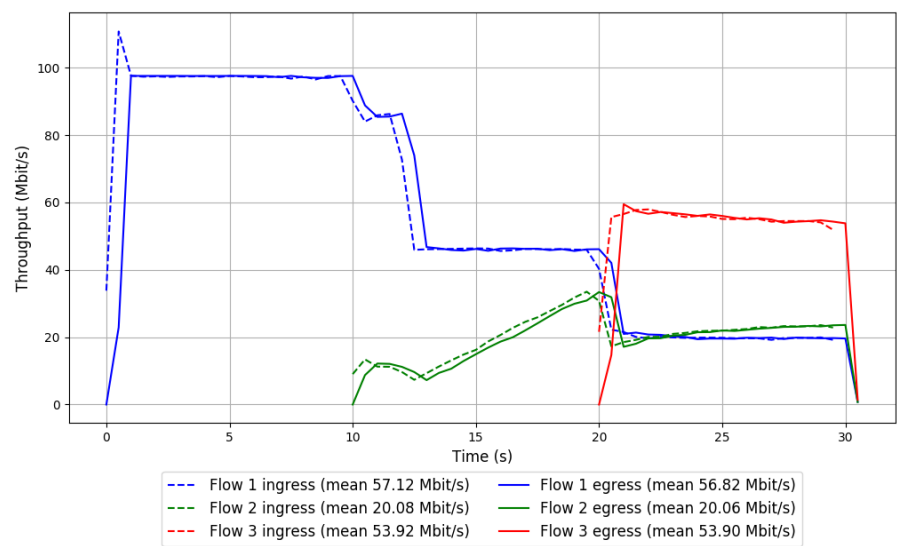
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 17:38:12  
End at: 2018-05-30 17:38:42  
Local clock offset: 0.15 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.09 Mbit/s  
95th percentile per-packet one-way delay: 42.897 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 56.82 Mbit/s  
95th percentile per-packet one-way delay: 43.429 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 20.06 Mbit/s  
95th percentile per-packet one-way delay: 37.140 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 53.90 Mbit/s  
95th percentile per-packet one-way delay: 34.803 ms  
Loss rate: 0.01%



Run 5: Report of TCP Vegas — Data Link

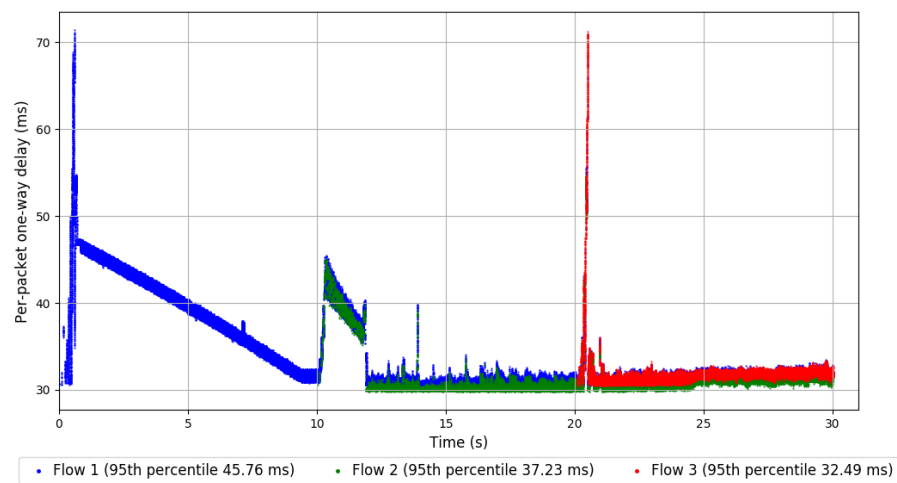
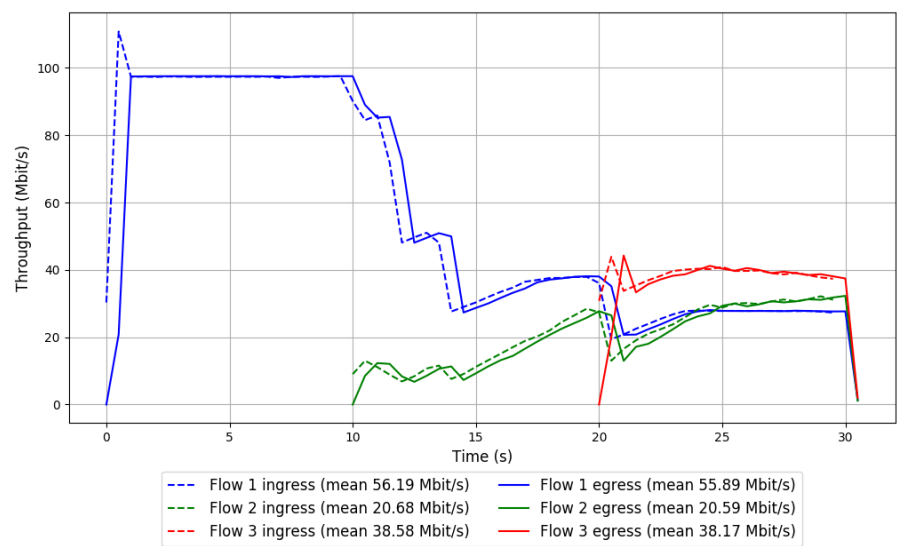


Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 18:00:39  
End at: 2018-05-30 18:01:09  
Local clock offset: 0.577 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-05-30 19:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.30 Mbit/s  
95th percentile per-packet one-way delay: 45.255 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 55.89 Mbit/s  
95th percentile per-packet one-way delay: 45.761 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 37.232 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 38.17 Mbit/s  
95th percentile per-packet one-way delay: 32.495 ms  
Loss rate: 1.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 18:22:08

End at: 2018-05-30 18:22:38

Local clock offset: 0.761 ms

Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2018-05-30 19:51:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 65.93 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 20.67 Mbit/s

95th percentile per-packet one-way delay: 48.574 ms

Loss rate: 0.20%

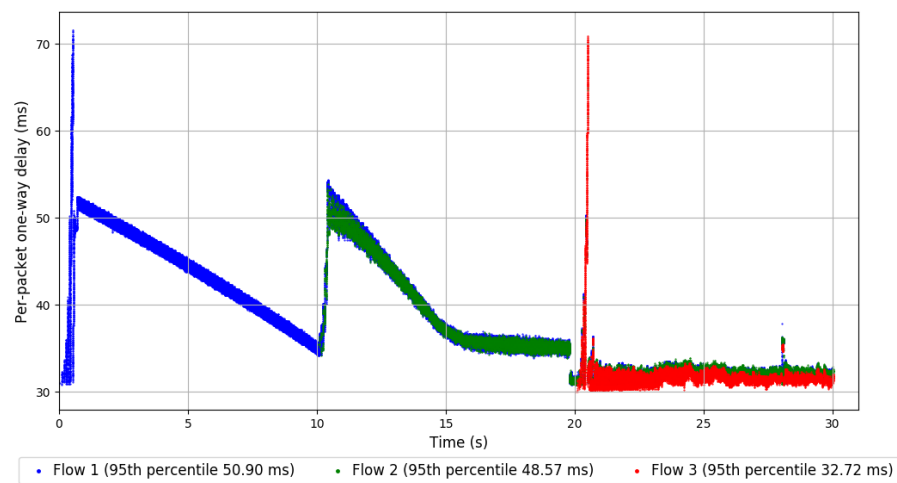
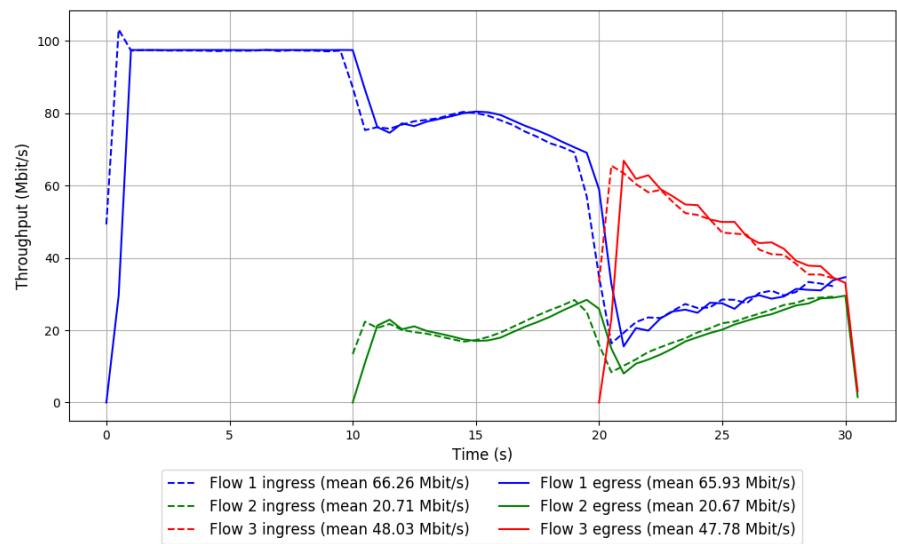
-- Flow 3:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 32.723 ms

Loss rate: 0.51%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 18:43:37

End at: 2018-05-30 18:44:07

Local clock offset: 0.597 ms

Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2018-05-30 19:51:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 45.635 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 46.146 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 27.00 Mbit/s

95th percentile per-packet one-way delay: 33.867 ms

Loss rate: 0.28%

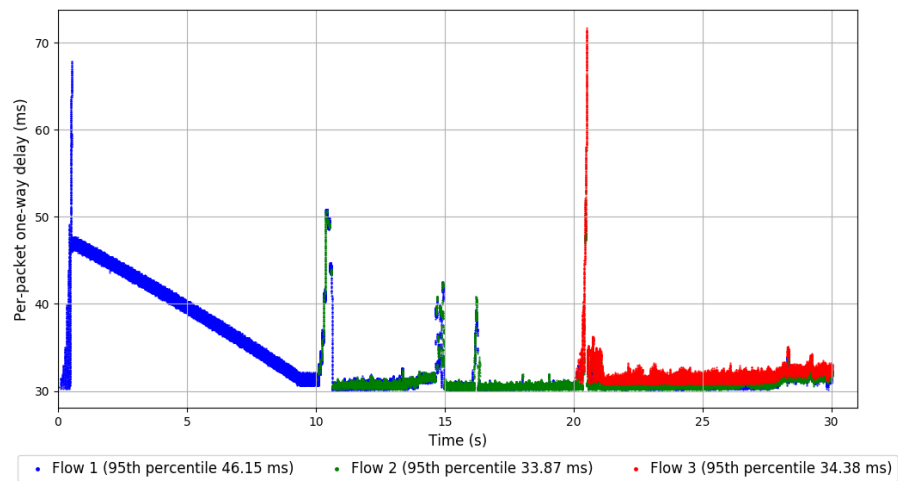
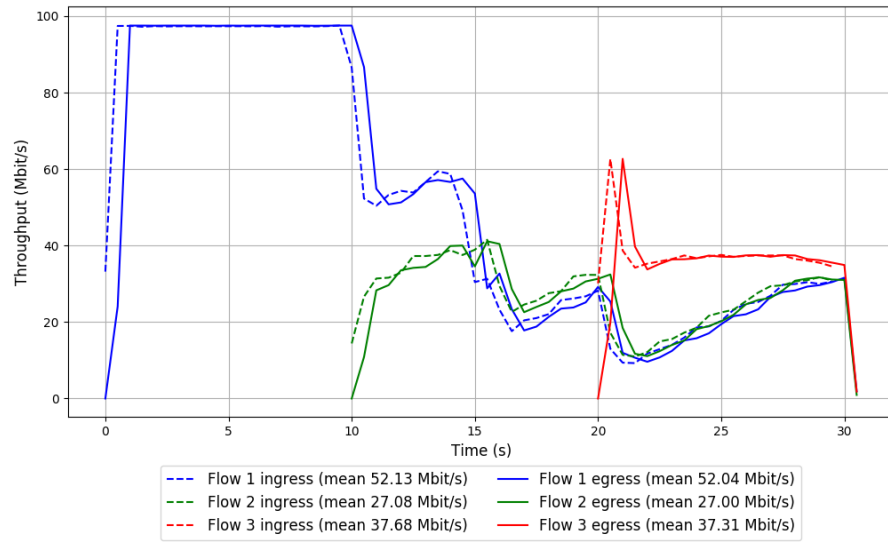
-- Flow 3:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 34.382 ms

Loss rate: 0.97%

# Run 8: Report of TCP Vegas — Data Link



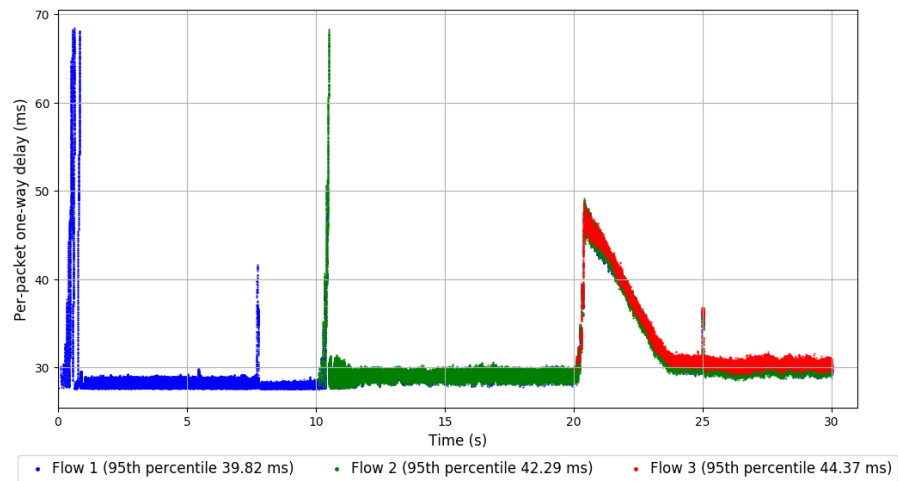
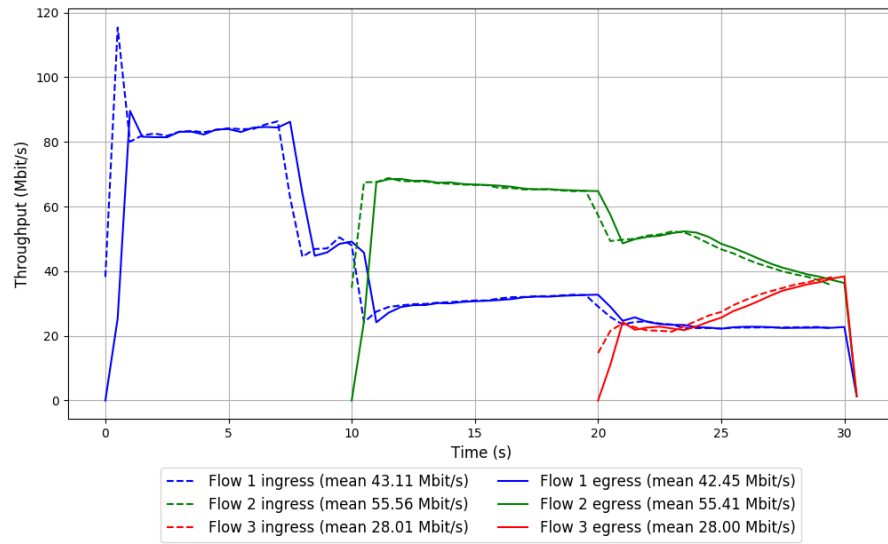
Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 19:05:09  
End at: 2018-05-30 19:05:39  
Local clock offset: 0.275 ms  
Remote clock offset: -1.669 ms

# Below is generated by plot.py at 2018-05-30 19:51:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.68 Mbit/s  
95th percentile per-packet one-way delay: 42.073 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 42.45 Mbit/s  
95th percentile per-packet one-way delay: 39.817 ms  
Loss rate: 1.51%  
-- Flow 2:  
Average throughput: 55.41 Mbit/s  
95th percentile per-packet one-way delay: 42.286 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 28.00 Mbit/s  
95th percentile per-packet one-way delay: 44.368 ms  
Loss rate: 0.02%



# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 19:26:39

End at: 2018-05-30 19:27:09

Local clock offset: 0.582 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-05-30 19:51:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.35 Mbit/s

95th percentile per-packet one-way delay: 49.789 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 49.740 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 12.31 Mbit/s

95th percentile per-packet one-way delay: 45.263 ms

Loss rate: 0.58%

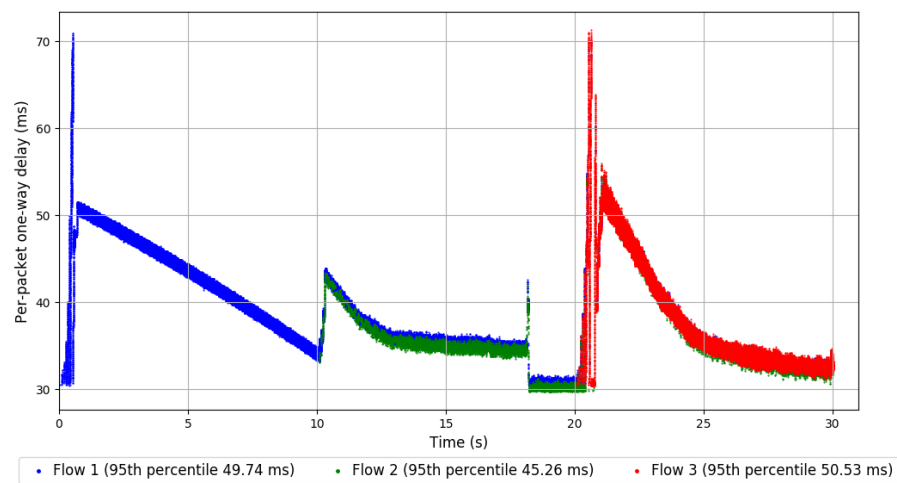
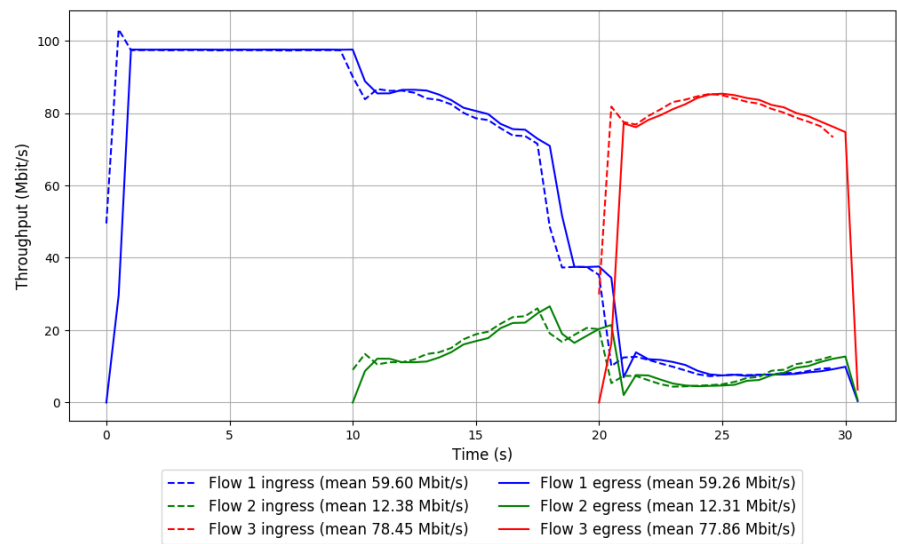
-- Flow 3:

Average throughput: 77.86 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.74%

Run 10: Report of TCP Vegas — Data Link

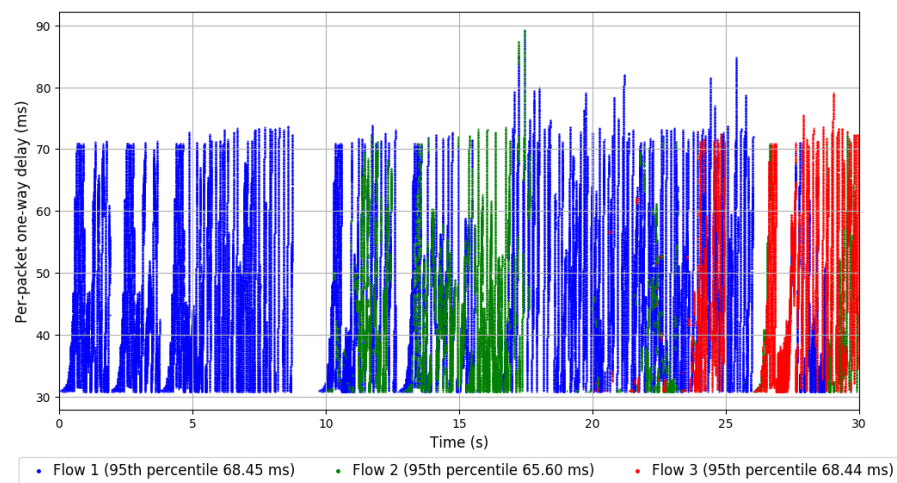
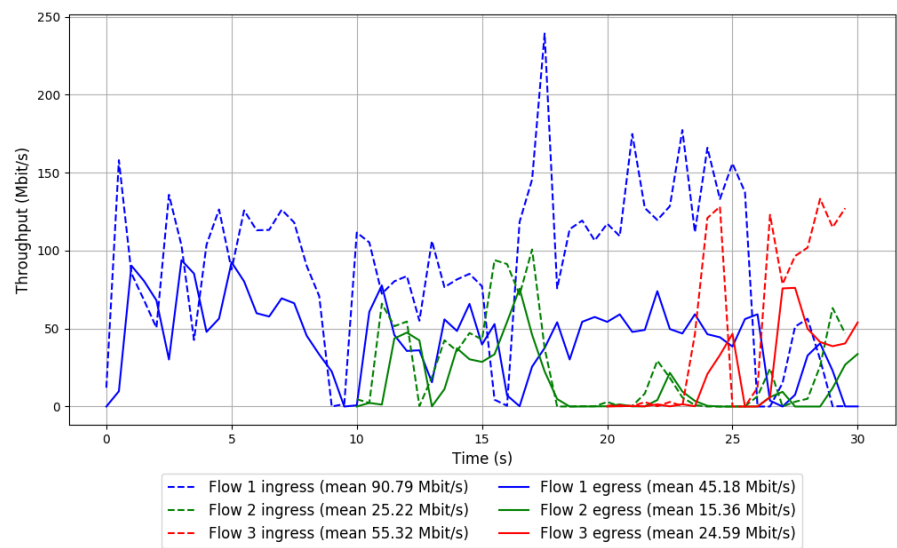


Run 1: Statistics of Verus

Start at: 2018-05-30 15:59:36  
End at: 2018-05-30 16:00:06  
Local clock offset: 0.937 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-05-30 19:51:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.16 Mbit/s  
95th percentile per-packet one-way delay: 68.172 ms  
Loss rate: 49.57%  
-- Flow 1:  
Average throughput: 45.18 Mbit/s  
95th percentile per-packet one-way delay: 68.450 ms  
Loss rate: 50.33%  
-- Flow 2:  
Average throughput: 15.36 Mbit/s  
95th percentile per-packet one-way delay: 65.601 ms  
Loss rate: 39.15%  
-- Flow 3:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 68.437 ms  
Loss rate: 55.38%

Run 1: Report of Verus — Data Link

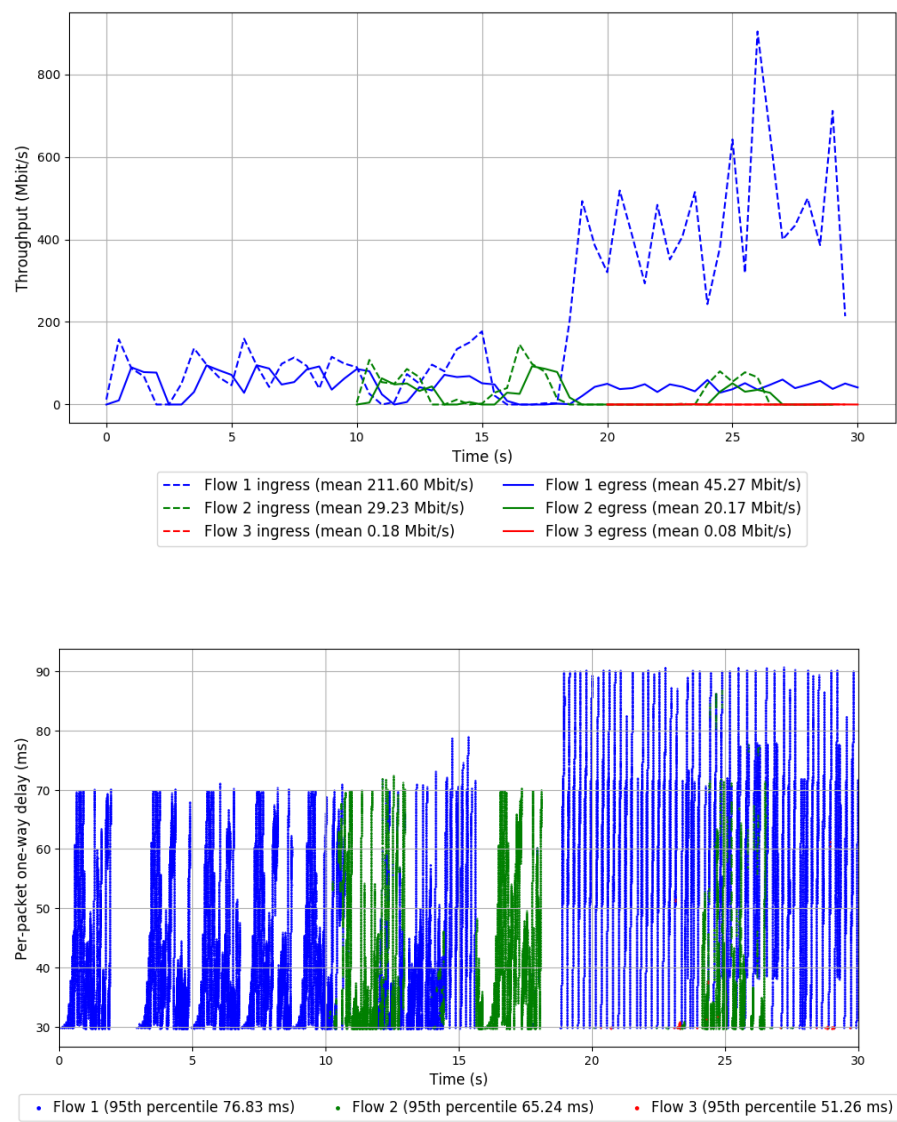


Run 2: Statistics of Verus

Start at: 2018-05-30 16:21:07  
End at: 2018-05-30 16:21:37  
Local clock offset: 0.752 ms  
Remote clock offset: -0.711 ms

# Below is generated by plot.py at 2018-05-30 19:52:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.98 Mbit/s  
95th percentile per-packet one-way delay: 74.233 ms  
Loss rate: 74.81%  
-- Flow 1:  
Average throughput: 45.27 Mbit/s  
95th percentile per-packet one-way delay: 76.832 ms  
Loss rate: 78.59%  
-- Flow 2:  
Average throughput: 20.17 Mbit/s  
95th percentile per-packet one-way delay: 65.244 ms  
Loss rate: 32.31%  
-- Flow 3:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 51.261 ms  
Loss rate: 54.48%

Run 2: Report of Verus — Data Link



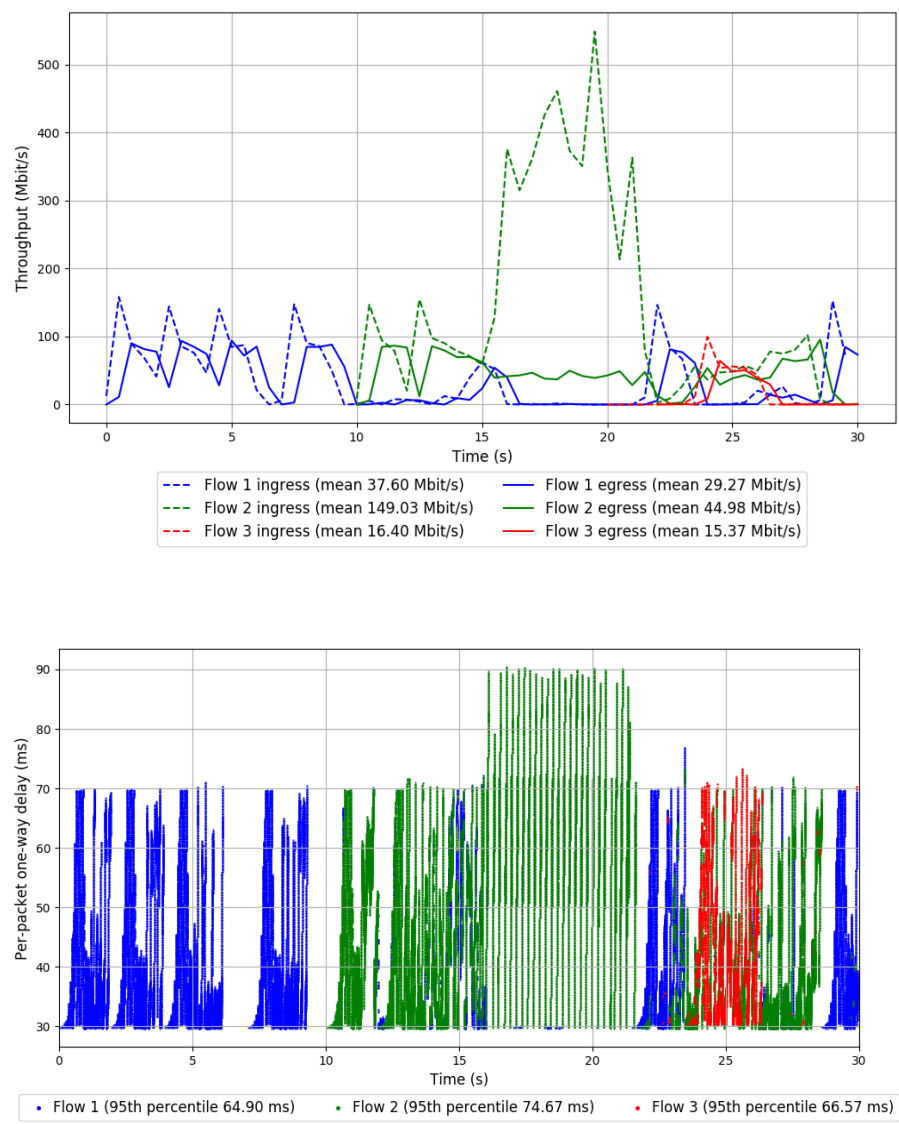
Run 3: Statistics of Verus

Start at: 2018-05-30 16:42:44  
End at: 2018-05-30 16:43:14  
Local clock offset: 0.508 ms  
Remote clock offset: -0.239 ms

```
# Below is generated by plot.py at 2018-05-30 19:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 68.354 ms
Loss rate: 55.56%
-- Flow 1:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 64.899 ms
Loss rate: 22.14%
-- Flow 2:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 74.671 ms
Loss rate: 69.91%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 66.568 ms
Loss rate: 25.02%
```



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-30 17:04:33

End at: 2018-05-30 17:05:03

Local clock offset: 0.306 ms

Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2018-05-30 19:52:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.58 Mbit/s

95th percentile per-packet one-way delay: 65.716 ms

Loss rate: 32.07%

-- Flow 1:

Average throughput: 39.34 Mbit/s

95th percentile per-packet one-way delay: 65.102 ms

Loss rate: 28.10%

-- Flow 2:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 65.672 ms

Loss rate: 33.03%

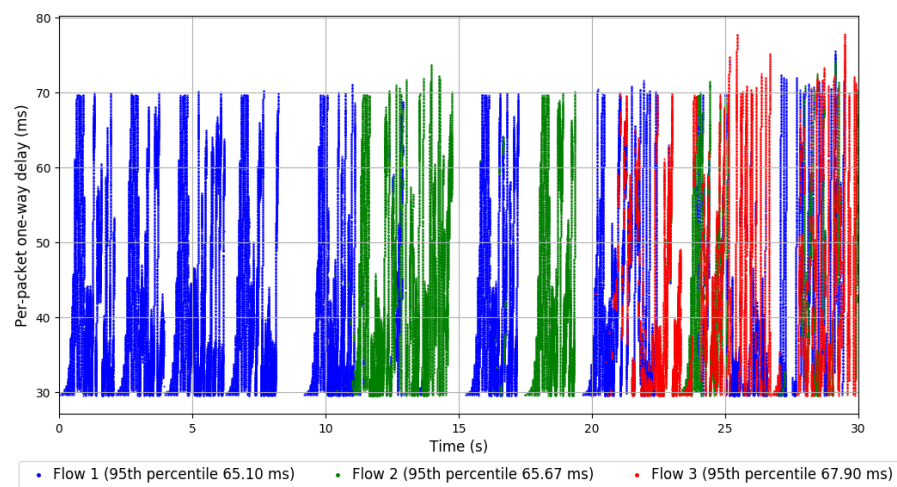
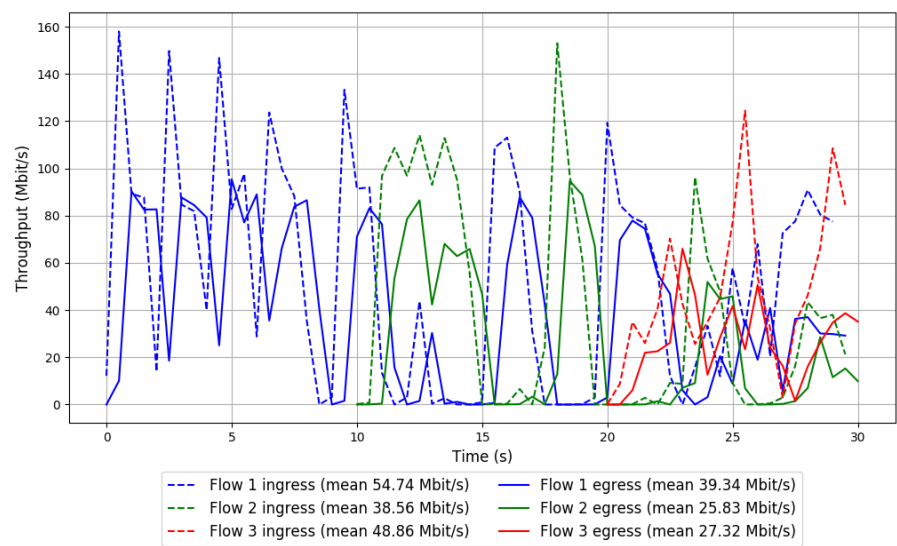
-- Flow 3:

Average throughput: 27.32 Mbit/s

95th percentile per-packet one-way delay: 67.901 ms

Loss rate: 43.86%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-30 17:28:50

End at: 2018-05-30 17:29:20

Local clock offset: 0.084 ms

Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2018-05-30 19:52:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.33 Mbit/s

95th percentile per-packet one-way delay: 66.328 ms

Loss rate: 35.82%

-- Flow 1:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 65.836 ms

Loss rate: 23.91%

-- Flow 2:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 65.432 ms

Loss rate: 34.77%

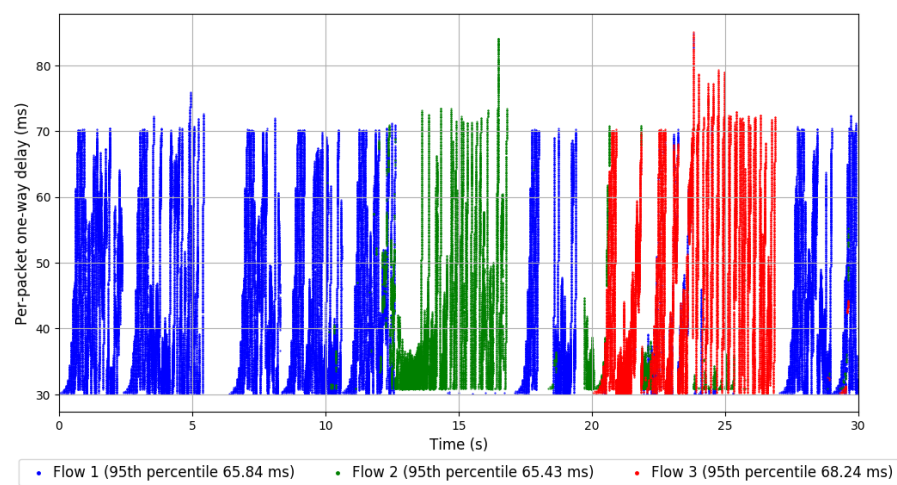
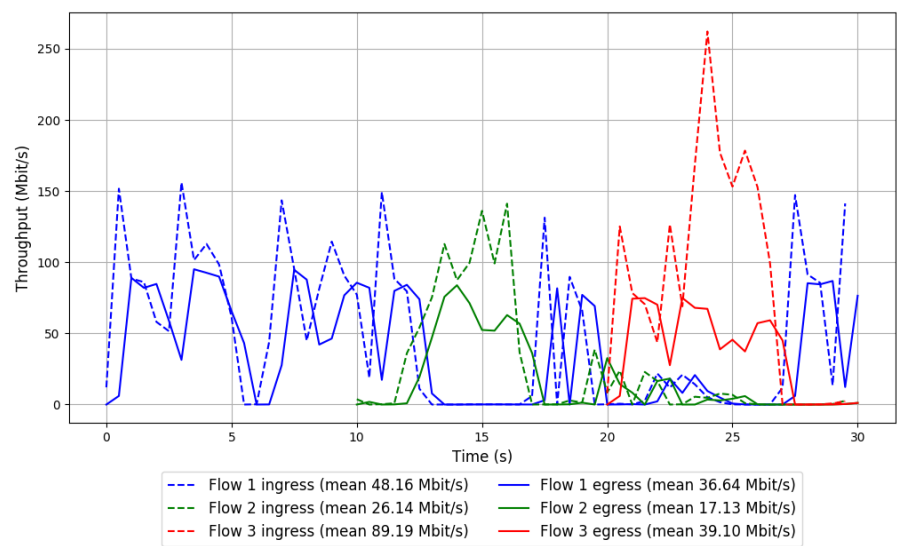
-- Flow 3:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 68.238 ms

Loss rate: 56.44%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-30 17:52:36

End at: 2018-05-30 17:53:06

Local clock offset: 0.596 ms

Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2018-05-30 19:52:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 70.399 ms

Loss rate: 64.74%

-- Flow 1:

Average throughput: 35.86 Mbit/s

95th percentile per-packet one-way delay: 67.917 ms

Loss rate: 37.92%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 74.058 ms

Loss rate: 79.47%

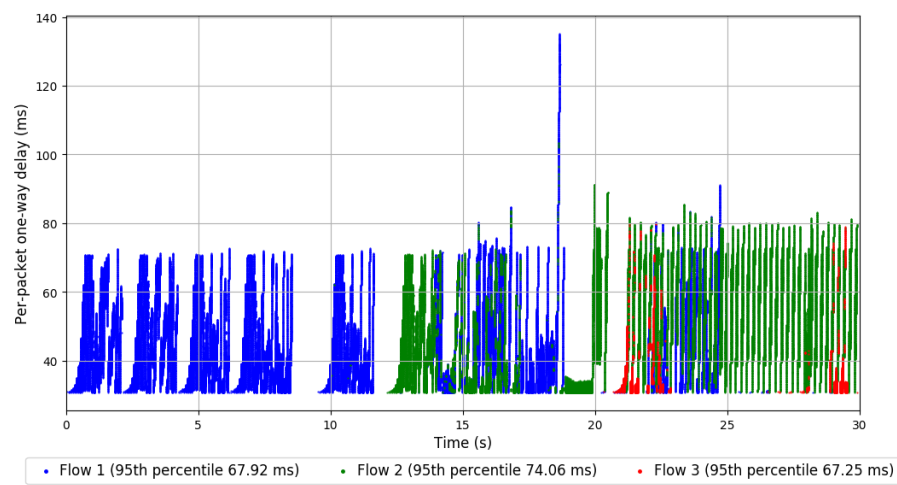
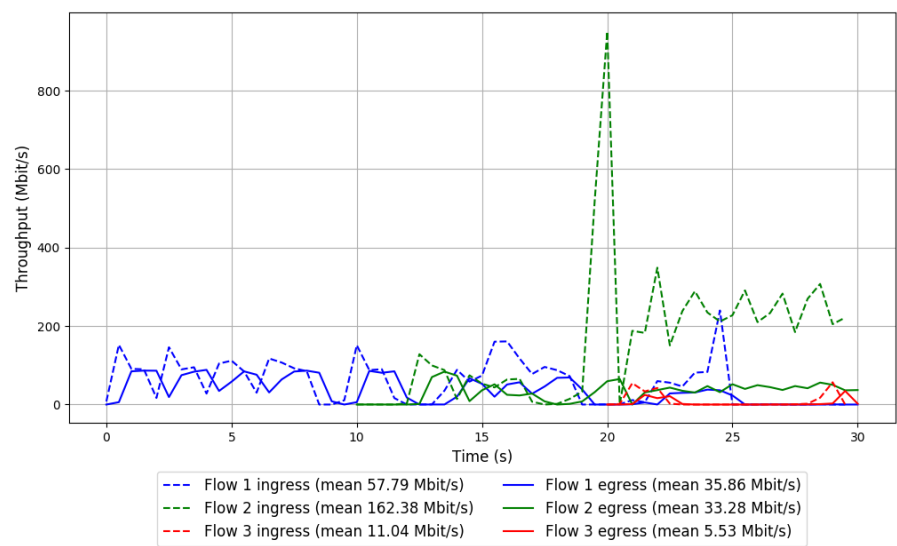
-- Flow 3:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 67.246 ms

Loss rate: 49.92%

Run 6: Report of Verus — Data Link



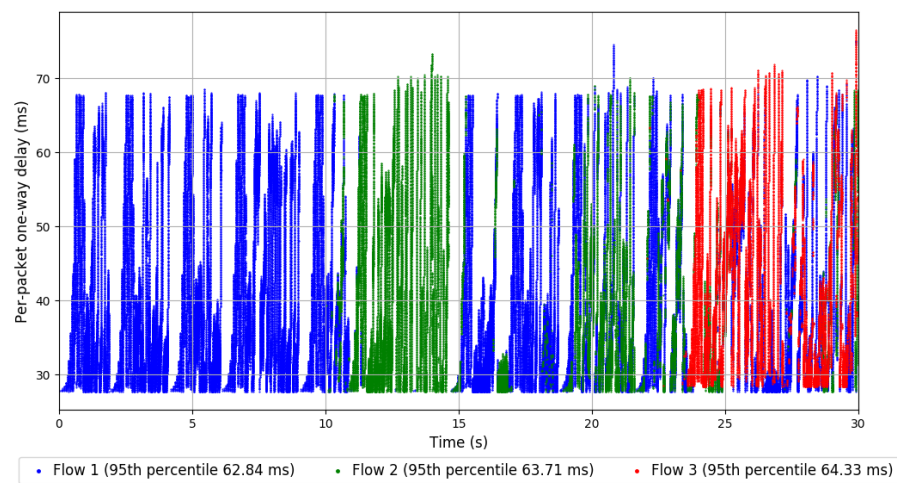
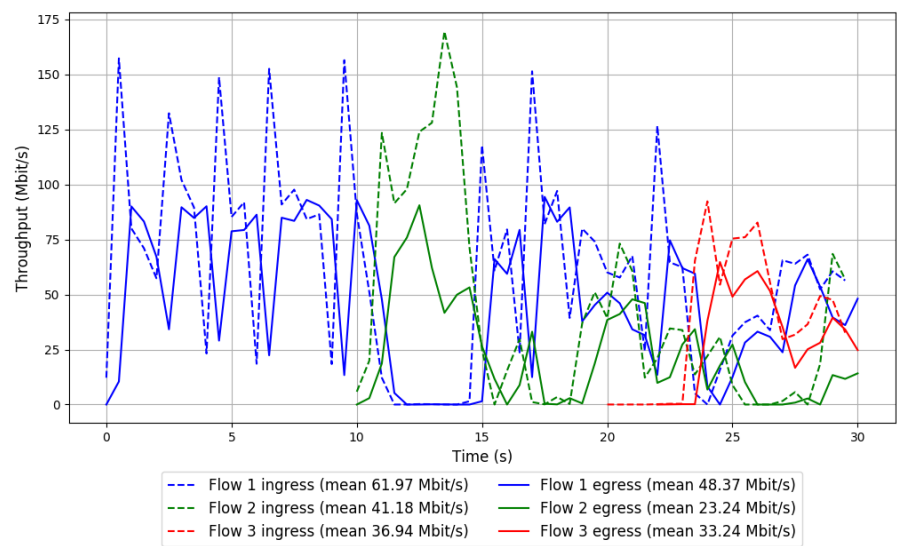
Run 7: Statistics of Verus

Start at: 2018-05-30 18:14:04  
End at: 2018-05-30 18:14:34  
Local clock offset: 0.653 ms  
Remote clock offset: -2.052 ms

# Below is generated by plot.py at 2018-05-30 19:52:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.57 Mbit/s  
95th percentile per-packet one-way delay: 63.131 ms  
Loss rate: 28.45%  
-- Flow 1:  
Average throughput: 48.37 Mbit/s  
95th percentile per-packet one-way delay: 62.837 ms  
Loss rate: 21.87%  
-- Flow 2:  
Average throughput: 23.24 Mbit/s  
95th percentile per-packet one-way delay: 63.711 ms  
Loss rate: 43.49%  
-- Flow 3:  
Average throughput: 33.24 Mbit/s  
95th percentile per-packet one-way delay: 64.329 ms  
Loss rate: 28.13%



Run 7: Report of Verus — Data Link

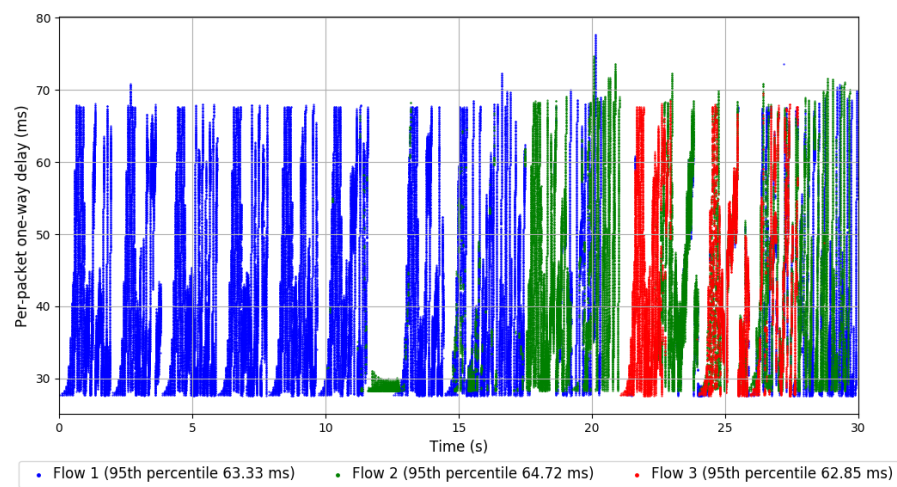
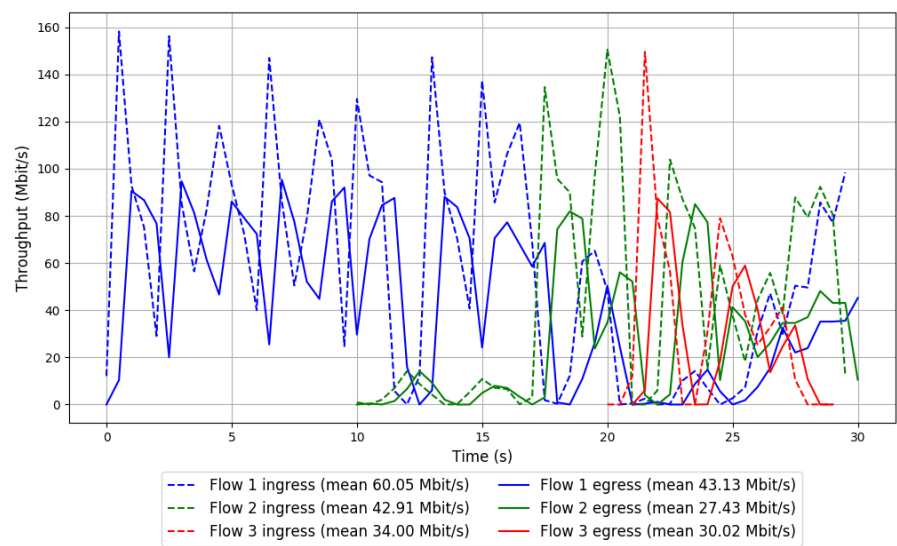


Run 8: Statistics of Verus

Start at: 2018-05-30 18:35:34  
End at: 2018-05-30 18:36:04  
Local clock offset: 0.817 ms  
Remote clock offset: -1.286 ms

# Below is generated by plot.py at 2018-05-30 19:52:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.81 Mbit/s  
95th percentile per-packet one-way delay: 63.659 ms  
Loss rate: 30.12%  
-- Flow 1:  
Average throughput: 43.13 Mbit/s  
95th percentile per-packet one-way delay: 63.334 ms  
Loss rate: 28.13%  
-- Flow 2:  
Average throughput: 27.43 Mbit/s  
95th percentile per-packet one-way delay: 64.721 ms  
Loss rate: 35.98%  
-- Flow 3:  
Average throughput: 30.02 Mbit/s  
95th percentile per-packet one-way delay: 62.854 ms  
Loss rate: 25.71%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-30 18:57:05

End at: 2018-05-30 18:57:35

Local clock offset: 0.449 ms

Remote clock offset: 1.429 ms

# Below is generated by plot.py at 2018-05-30 19:52:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 66.683 ms

Loss rate: 39.82%

-- Flow 1:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 64.842 ms

Loss rate: 22.69%

-- Flow 2:

Average throughput: 42.75 Mbit/s

95th percentile per-packet one-way delay: 67.582 ms

Loss rate: 47.79%

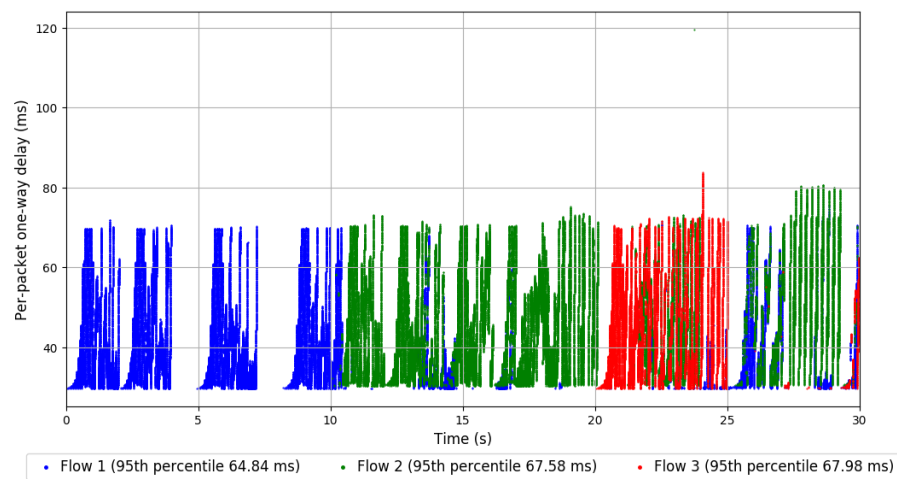
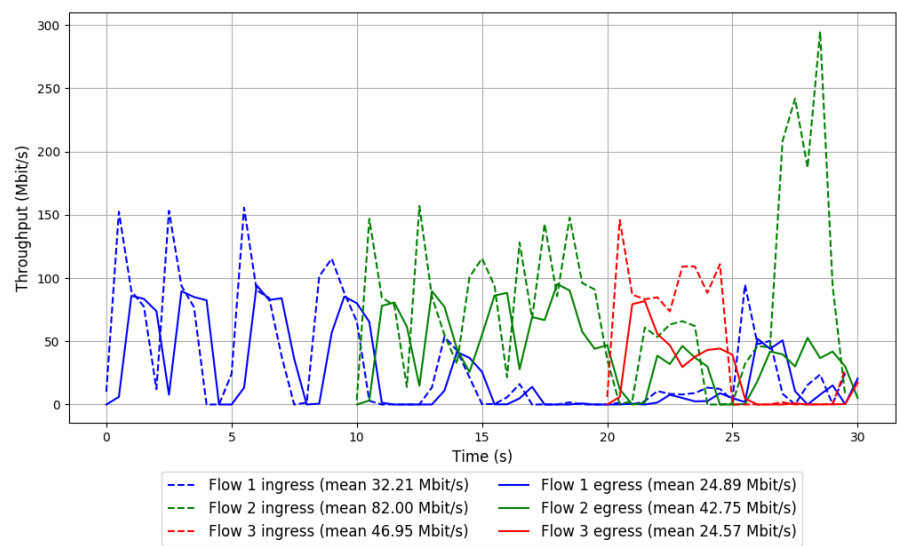
-- Flow 3:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 67.979 ms

Loss rate: 47.48%

Run 9: Report of Verus — Data Link

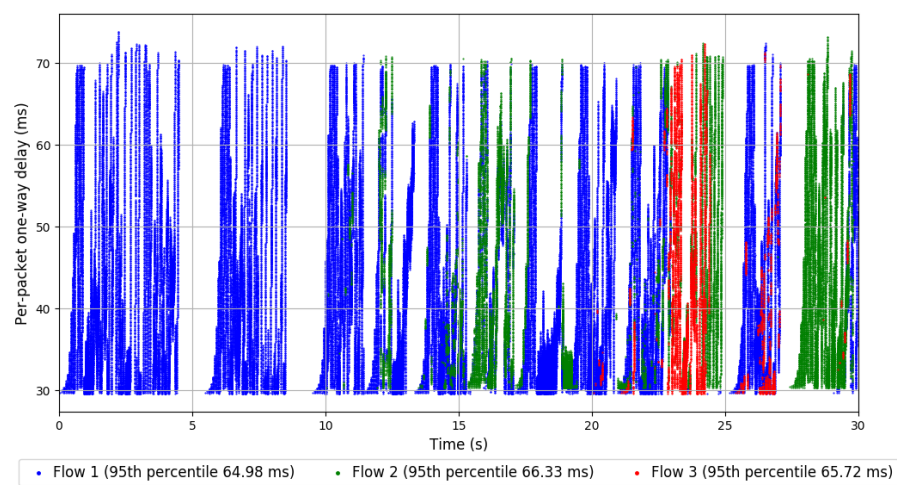
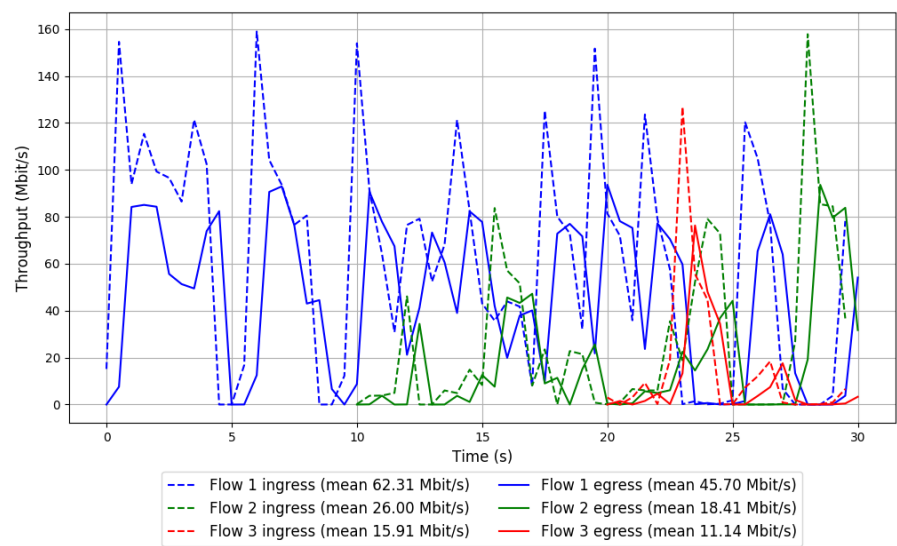


Run 10: Statistics of Verus

Start at: 2018-05-30 19:18:35  
End at: 2018-05-30 19:19:05  
Local clock offset: 0.592 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-30 19:53:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.44 Mbit/s  
95th percentile per-packet one-way delay: 65.367 ms  
Loss rate: 27.41%  
-- Flow 1:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 64.983 ms  
Loss rate: 26.60%  
-- Flow 2:  
Average throughput: 18.41 Mbit/s  
95th percentile per-packet one-way delay: 66.328 ms  
Loss rate: 29.44%  
-- Flow 3:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 65.724 ms  
Loss rate: 30.42%

Run 10: Report of Verus — Data Link



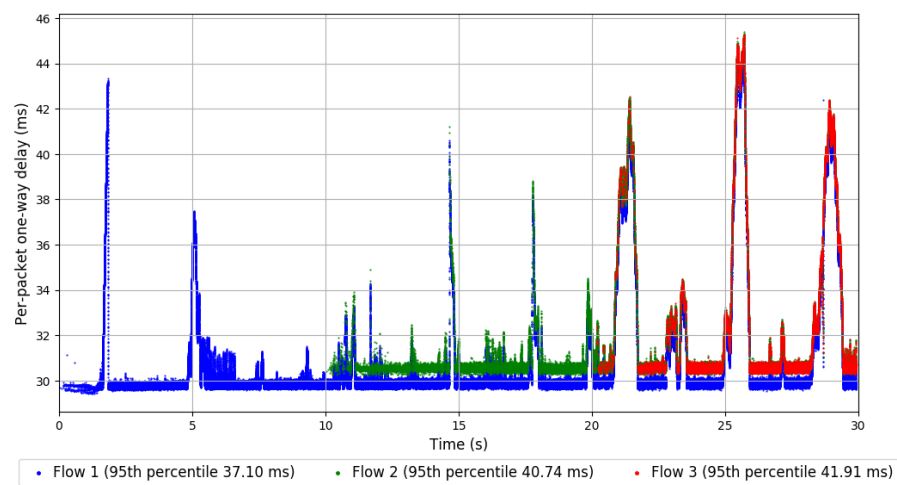
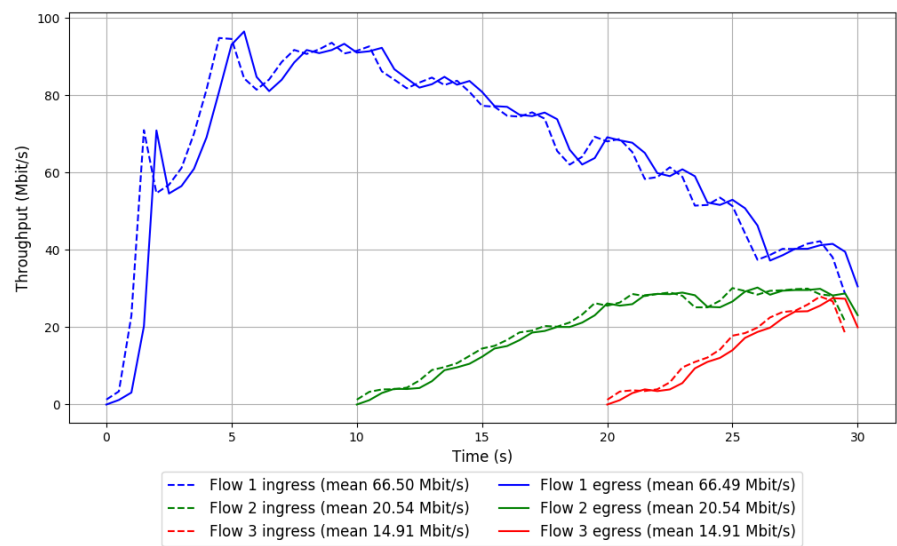
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 15:47:30  
End at: 2018-05-30 15:48:00  
Local clock offset: 1.031 ms  
Remote clock offset: -1.009 ms

# Below is generated by plot.py at 2018-05-30 19:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.07 Mbit/s  
95th percentile per-packet one-way delay: 38.573 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 66.49 Mbit/s  
95th percentile per-packet one-way delay: 37.098 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 20.54 Mbit/s  
95th percentile per-packet one-way delay: 40.736 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 14.91 Mbit/s  
95th percentile per-packet one-way delay: 41.911 ms  
Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link

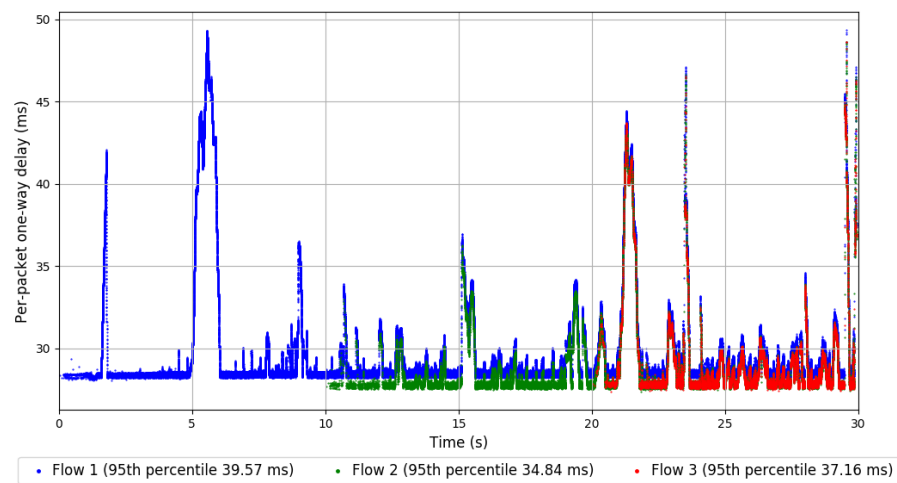
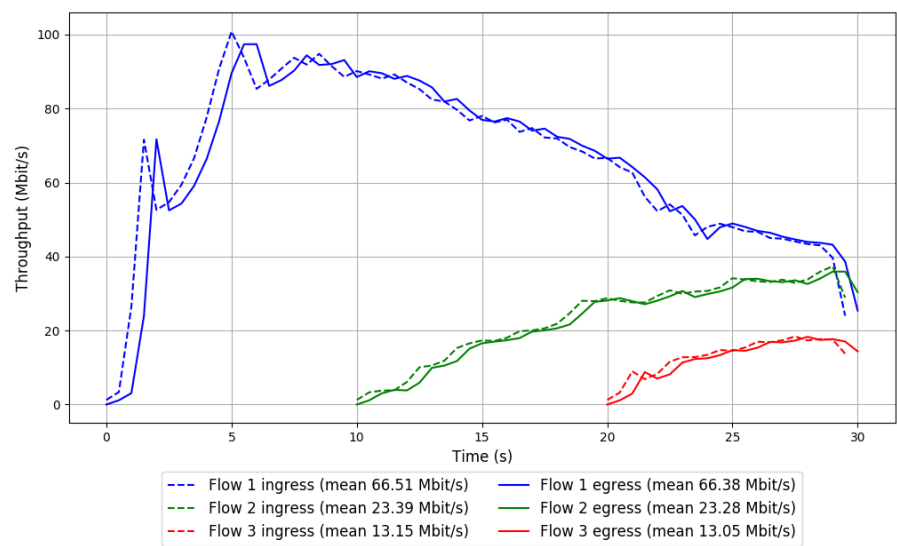


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 16:09:00  
End at: 2018-05-30 16:09:30  
Local clock offset: 0.899 ms  
Remote clock offset: -3.007 ms

# Below is generated by plot.py at 2018-05-30 19:53:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.18 Mbit/s  
95th percentile per-packet one-way delay: 38.509 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 66.38 Mbit/s  
95th percentile per-packet one-way delay: 39.572 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 23.28 Mbit/s  
95th percentile per-packet one-way delay: 34.838 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 13.05 Mbit/s  
95th percentile per-packet one-way delay: 37.161 ms  
Loss rate: 0.68%

Run 2: Report of PCC-Vivace — Data Link

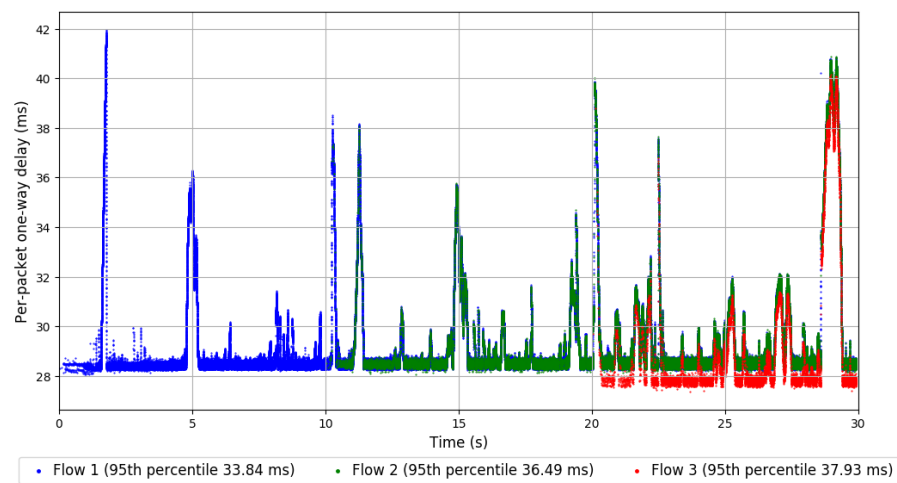
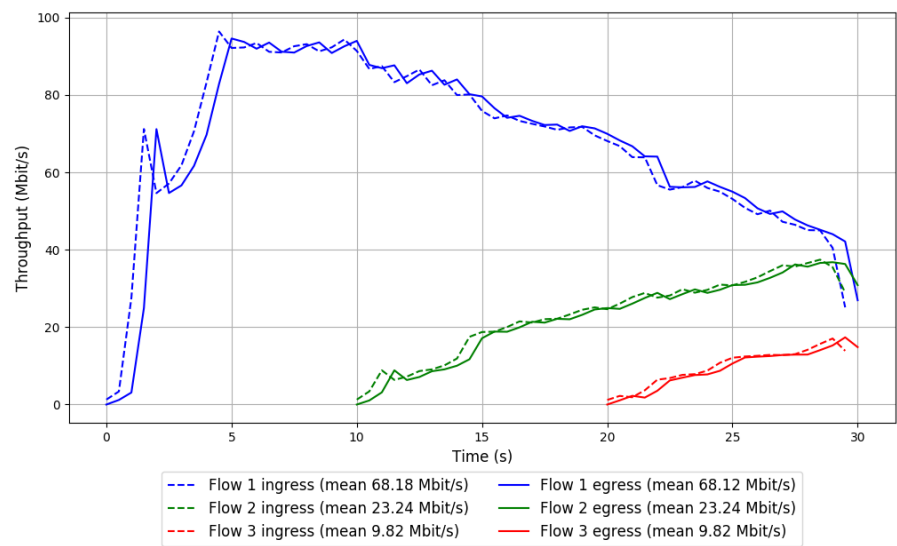


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 16:30:38  
End at: 2018-05-30 16:31:08  
Local clock offset: 0.797 ms  
Remote clock offset: -2.612 ms

# Below is generated by plot.py at 2018-05-30 19:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.81 Mbit/s  
95th percentile per-packet one-way delay: 34.519 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 68.12 Mbit/s  
95th percentile per-packet one-way delay: 33.839 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 23.24 Mbit/s  
95th percentile per-packet one-way delay: 36.495 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 9.82 Mbit/s  
95th percentile per-packet one-way delay: 37.932 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

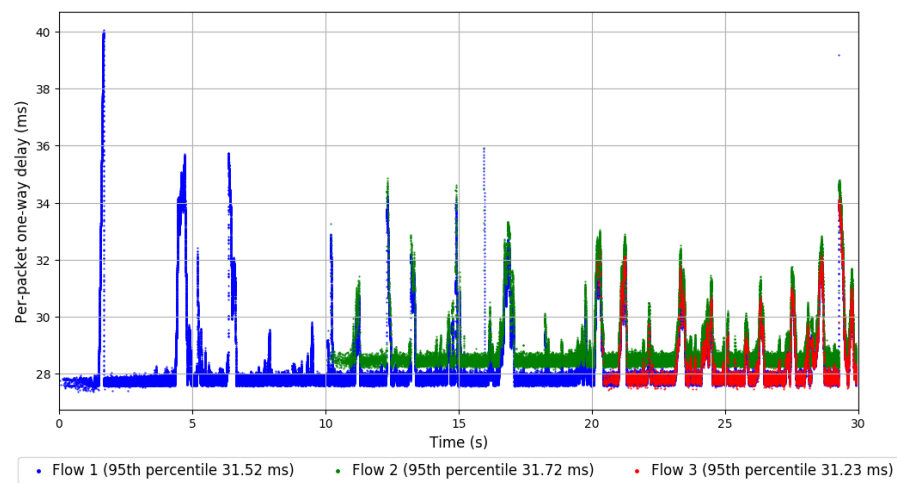
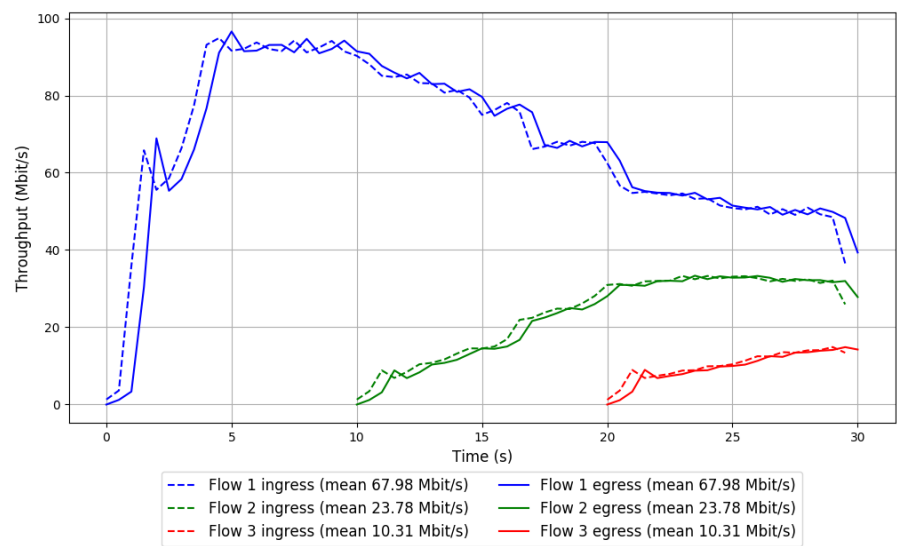


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 16:52:08  
End at: 2018-05-30 16:52:38  
Local clock offset: 0.423 ms  
Remote clock offset: -1.962 ms

# Below is generated by plot.py at 2018-05-30 19:54:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.21 Mbit/s  
95th percentile per-packet one-way delay: 31.555 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.98 Mbit/s  
95th percentile per-packet one-way delay: 31.519 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.78 Mbit/s  
95th percentile per-packet one-way delay: 31.716 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.31 Mbit/s  
95th percentile per-packet one-way delay: 31.225 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 17:14:16

End at: 2018-05-30 17:14:46

Local clock offset: 0.211 ms

Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2018-05-30 19:54:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.42 Mbit/s

95th percentile per-packet one-way delay: 40.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.32 Mbit/s

95th percentile per-packet one-way delay: 38.478 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 44.489 ms

Loss rate: 0.00%

-- Flow 3:

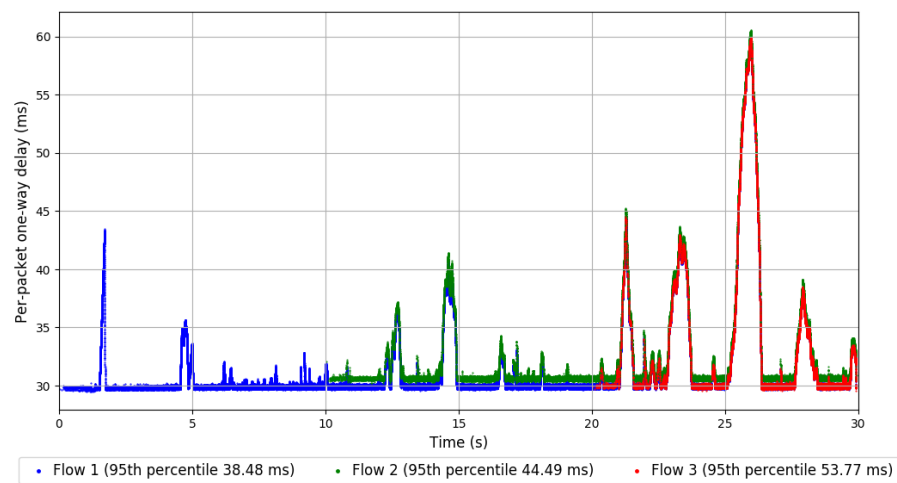
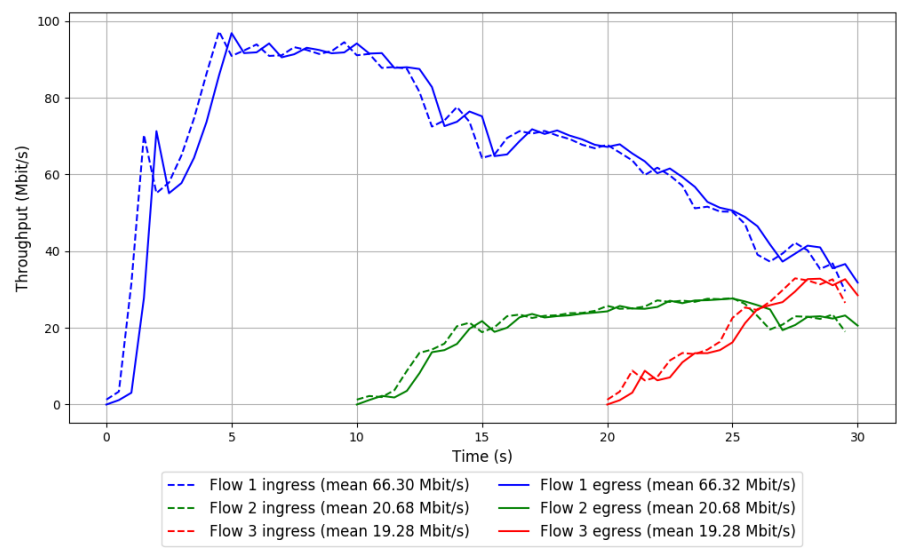
Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 53.769 ms

Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

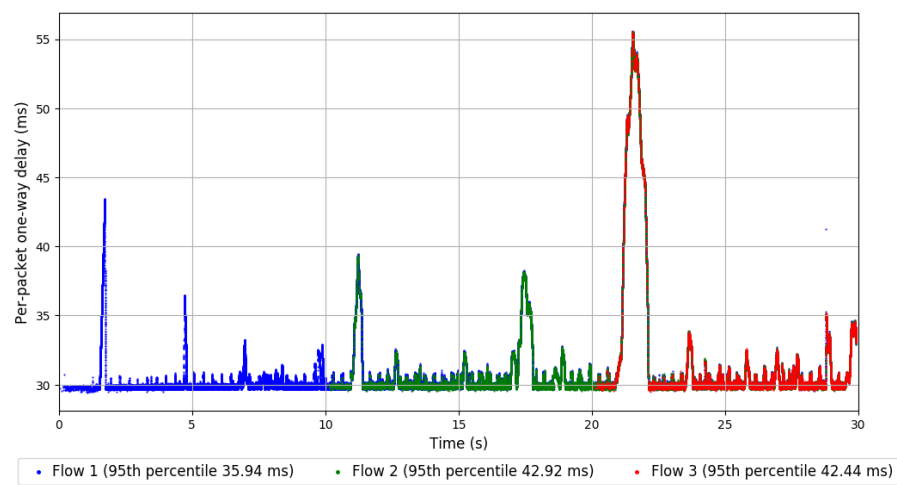
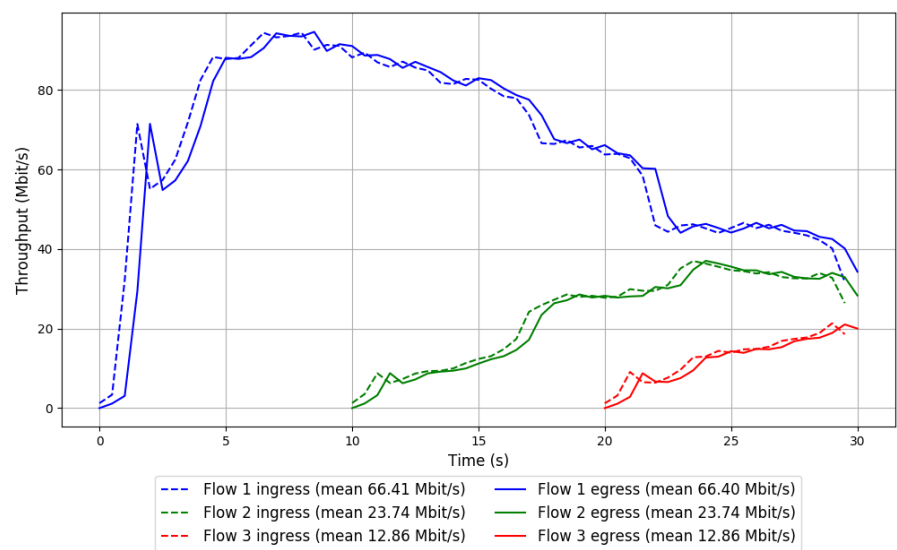


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 17:39:33  
End at: 2018-05-30 17:40:03  
Local clock offset: 0.223 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-05-30 19:54:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.43 Mbit/s  
95th percentile per-packet one-way delay: 36.659 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.40 Mbit/s  
95th percentile per-packet one-way delay: 35.943 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.74 Mbit/s  
95th percentile per-packet one-way delay: 42.924 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.86 Mbit/s  
95th percentile per-packet one-way delay: 42.436 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 18:01:59

End at: 2018-05-30 18:02:29

Local clock offset: 0.598 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-30 19:54:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 38.581 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 38.636 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 38.631 ms

Loss rate: 0.09%

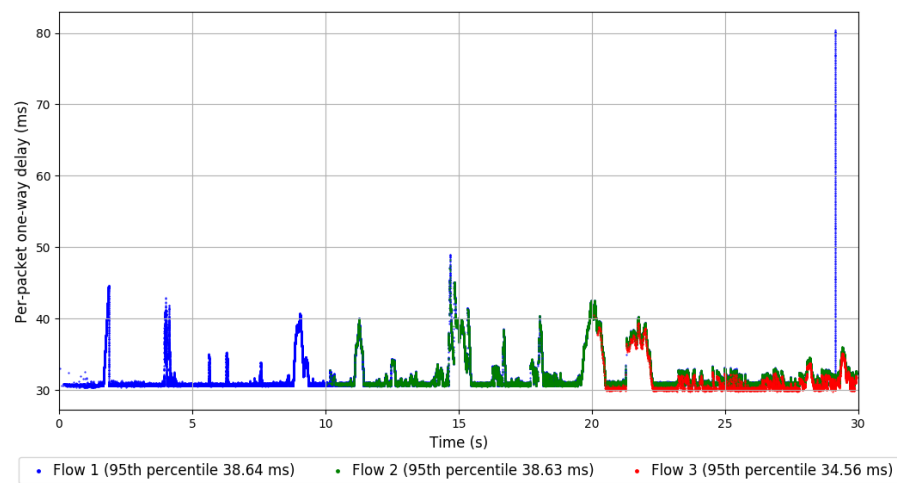
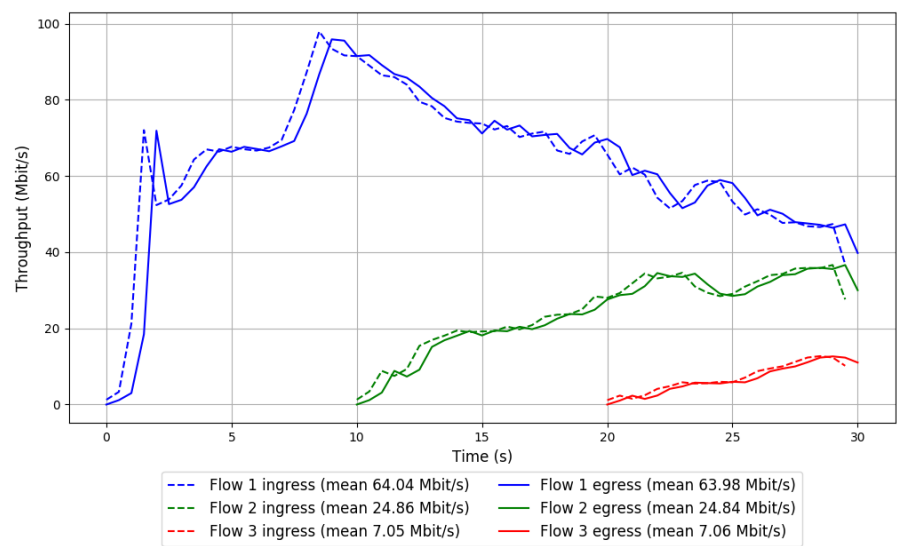
-- Flow 3:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 34.558 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 18:23:29

End at: 2018-05-30 18:23:59

Local clock offset: 0.686 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-05-30 19:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.11 Mbit/s

95th percentile per-packet one-way delay: 46.656 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 67.05 Mbit/s

95th percentile per-packet one-way delay: 43.743 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 23.74 Mbit/s

95th percentile per-packet one-way delay: 58.070 ms

Loss rate: 0.31%

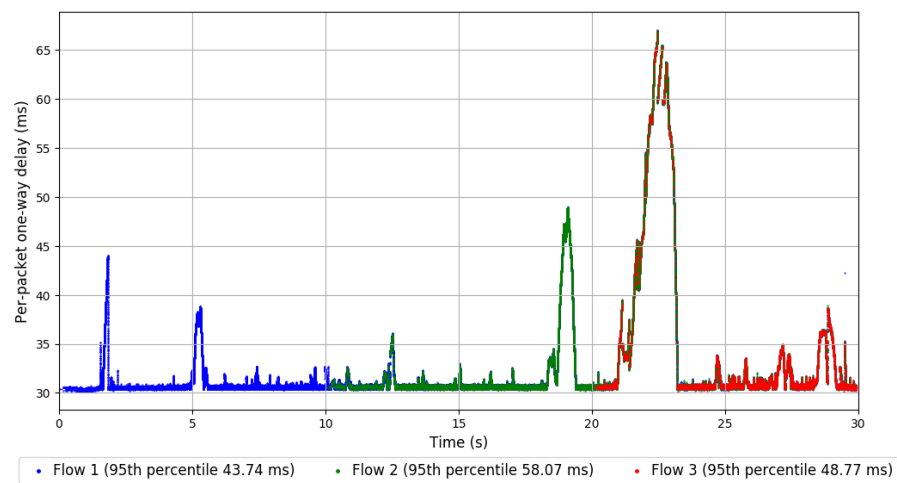
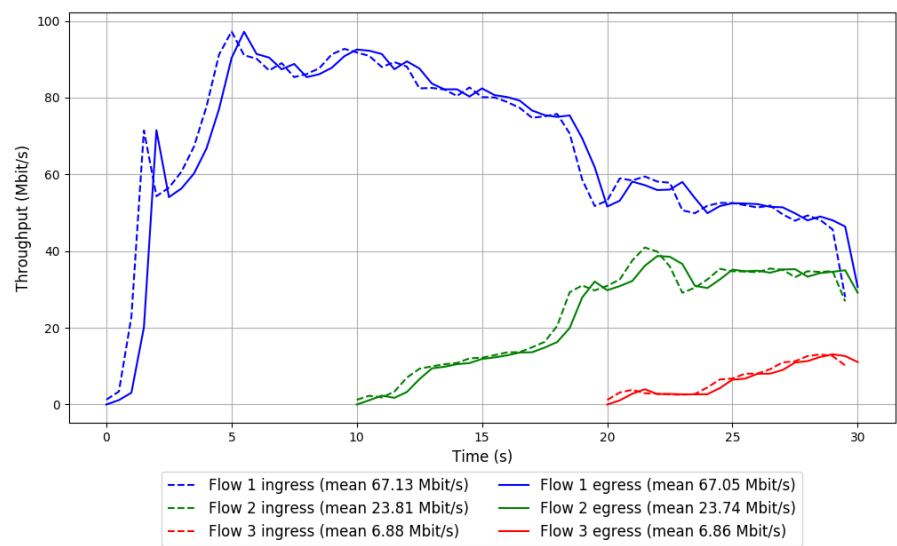
-- Flow 3:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 48.767 ms

Loss rate: 0.19%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 18:44:58

End at: 2018-05-30 18:45:28

Local clock offset: 0.642 ms

Remote clock offset: 1.163 ms

# Below is generated by plot.py at 2018-05-30 19:54:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 34.854 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.96 Mbit/s

95th percentile per-packet one-way delay: 35.779 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 33.407 ms

Loss rate: 0.01%

-- Flow 3:

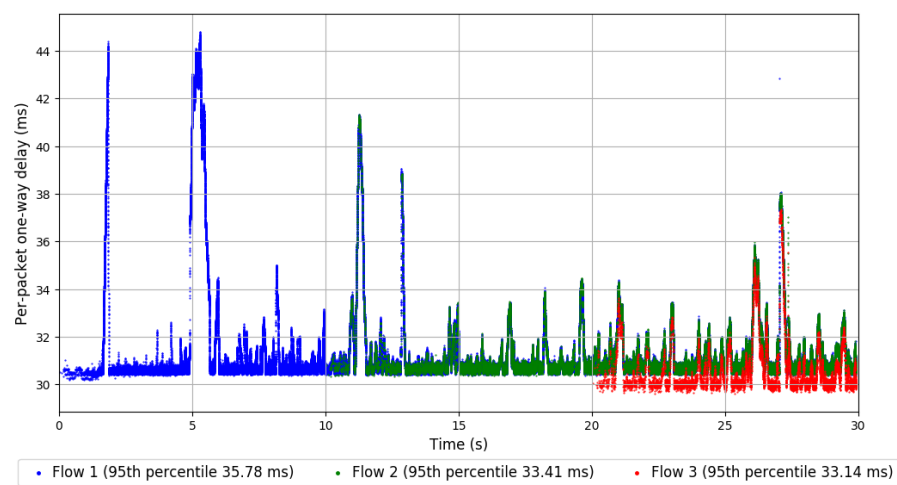
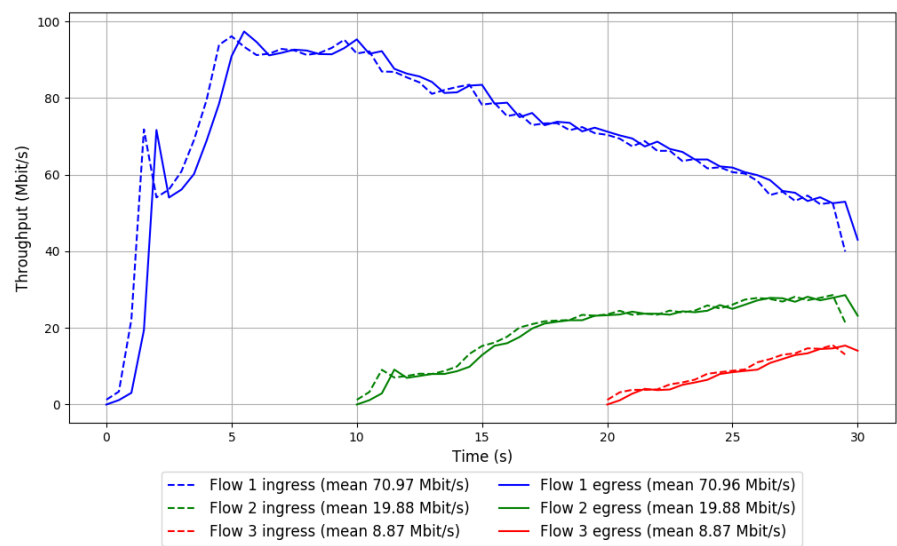
Average throughput: 8.87 Mbit/s

95th percentile per-packet one-way delay: 33.139 ms

Loss rate: 0.01%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 19:06:29

End at: 2018-05-30 19:06:59

Local clock offset: 0.298 ms

Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-05-30 19:54:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.63 Mbit/s

95th percentile per-packet one-way delay: 36.964 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 36.299 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 39.318 ms

Loss rate: 0.06%

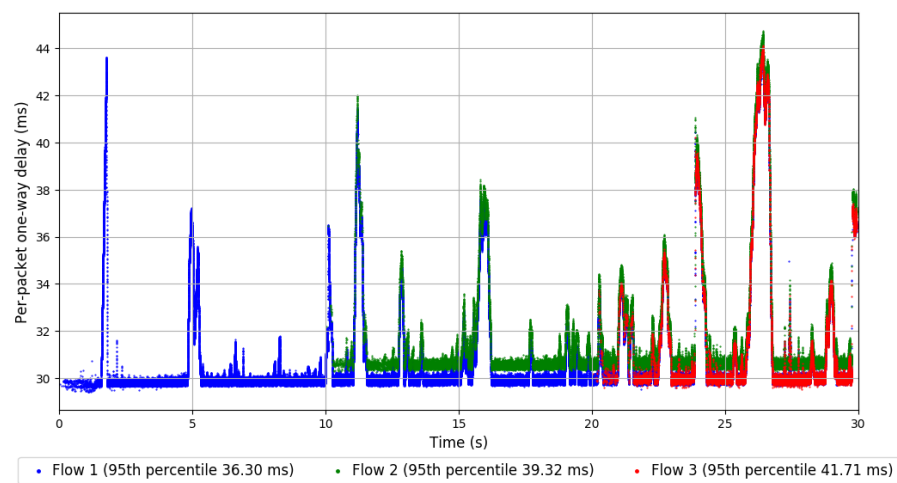
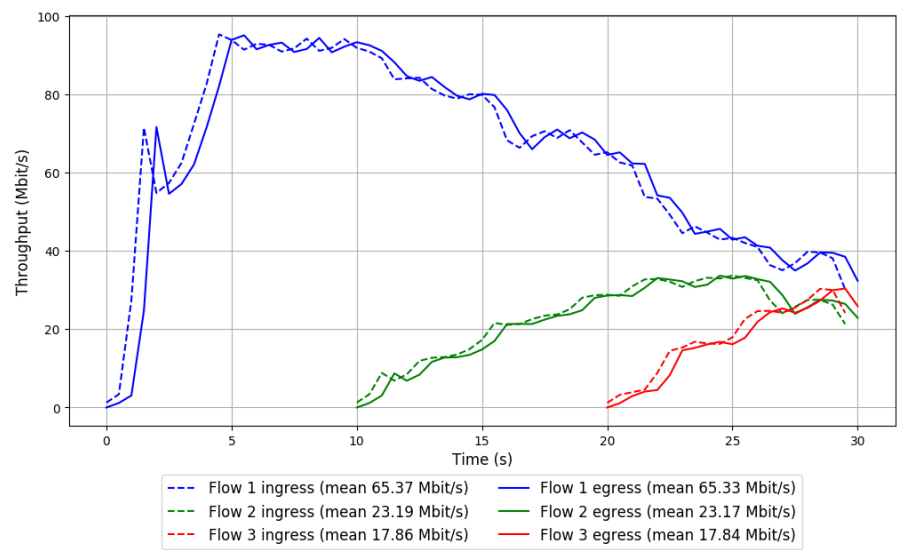
-- Flow 3:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 41.709 ms

Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link

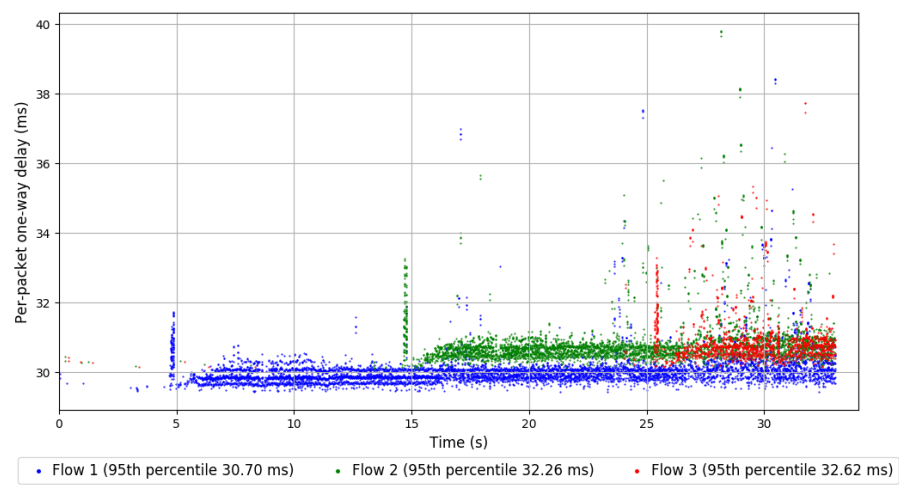
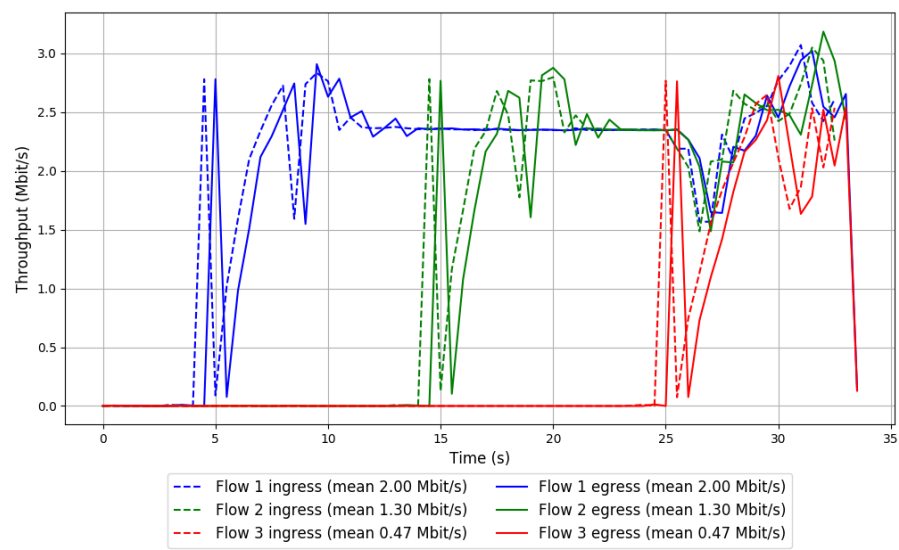


Run 1: Statistics of WebRTC media

Start at: 2018-05-30 15:58:19  
End at: 2018-05-30 15:58:49  
Local clock offset: 0.951 ms  
Remote clock offset: -1.026 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.75 Mbit/s  
95th percentile per-packet one-way delay: 31.556 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 30.705 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 32.260 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 32.616 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

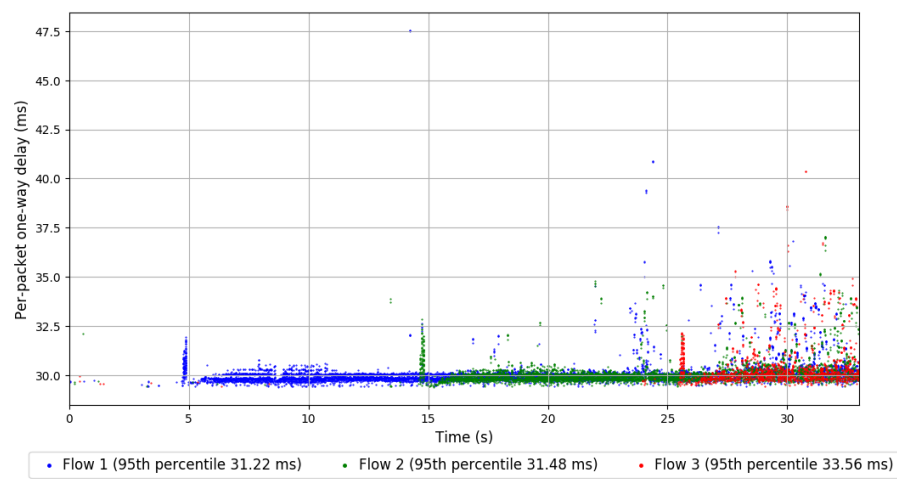
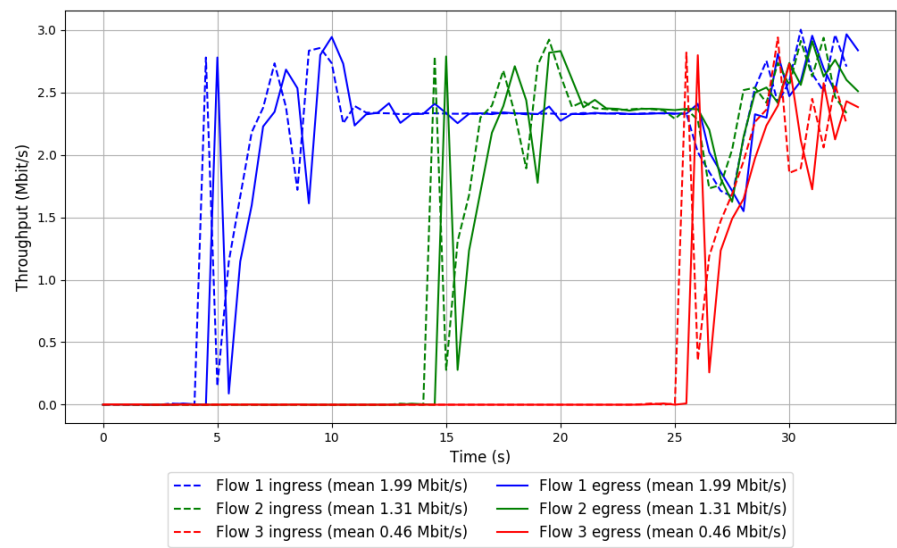


Run 2: Statistics of WebRTC media

Start at: 2018-05-30 16:19:50  
End at: 2018-05-30 16:20:20  
Local clock offset: 0.848 ms  
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.75 Mbit/s  
95th percentile per-packet one-way delay: 31.688 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 31.222 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 31.480 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 33.565 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



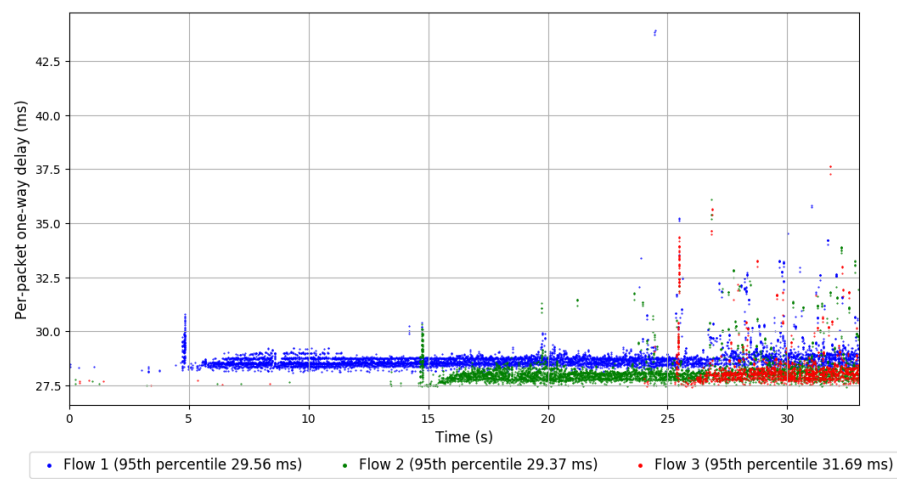
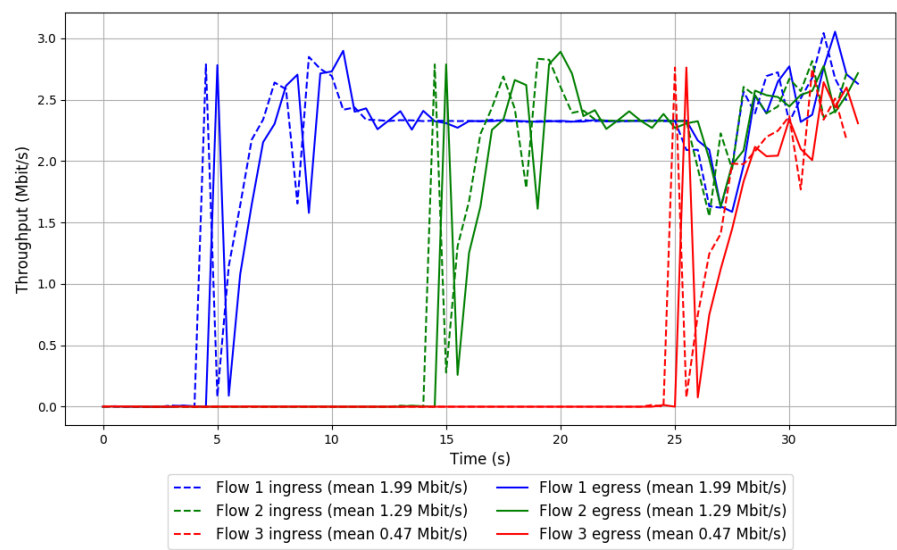
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 16:41:27  
End at: 2018-05-30 16:41:57  
Local clock offset: 0.533 ms  
Remote clock offset: -2.326 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.74 Mbit/s  
95th percentile per-packet one-way delay: 29.648 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 29.561 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 29.373 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 31.691 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-30 17:03:16

End at: 2018-05-30 17:03:46

Local clock offset: 0.214 ms

Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-05-30 19:54:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 32.141 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 31.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 32.347 ms

Loss rate: 0.00%

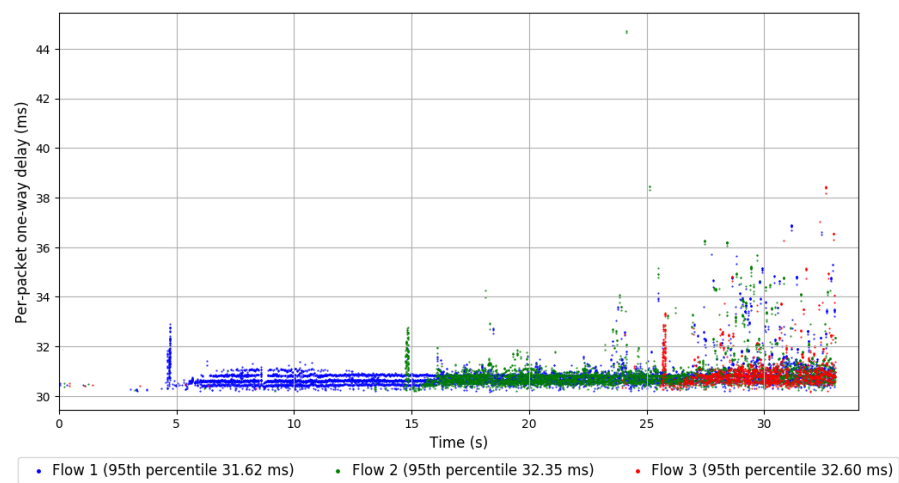
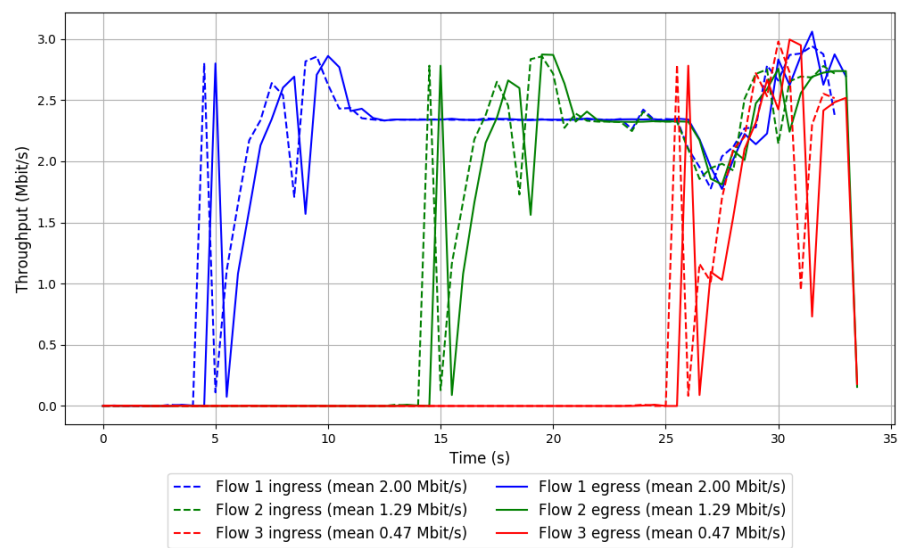
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 32.600 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-30 17:27:33

End at: 2018-05-30 17:28:03

Local clock offset: 0.011 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-30 19:54:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 31.794 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 31.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 31.356 ms

Loss rate: 0.14%

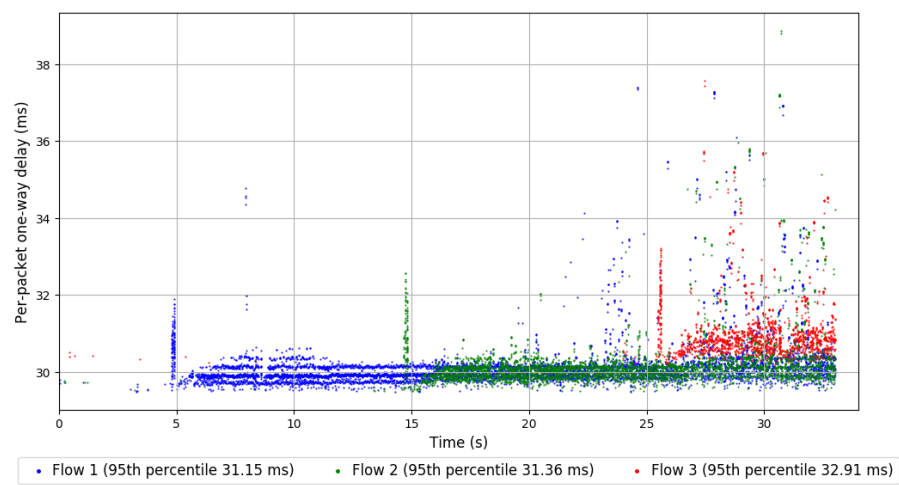
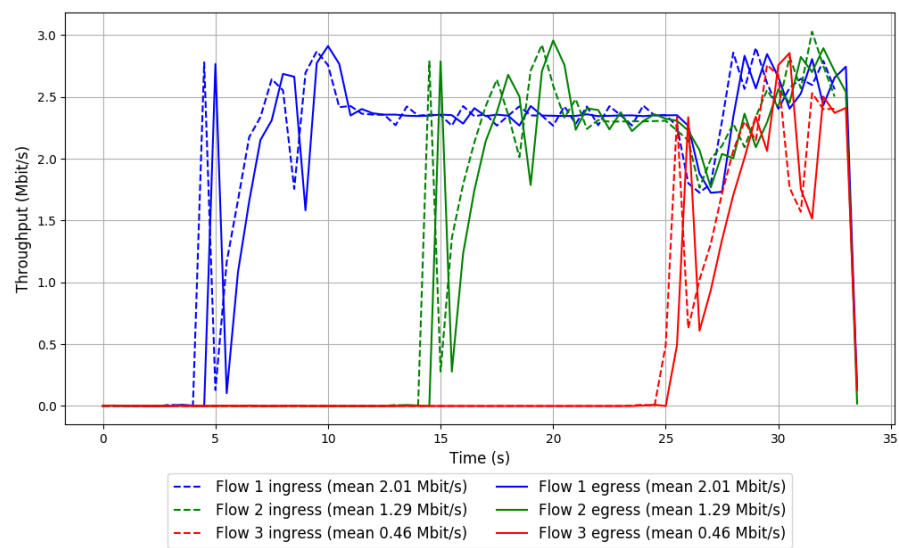
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 32.914 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

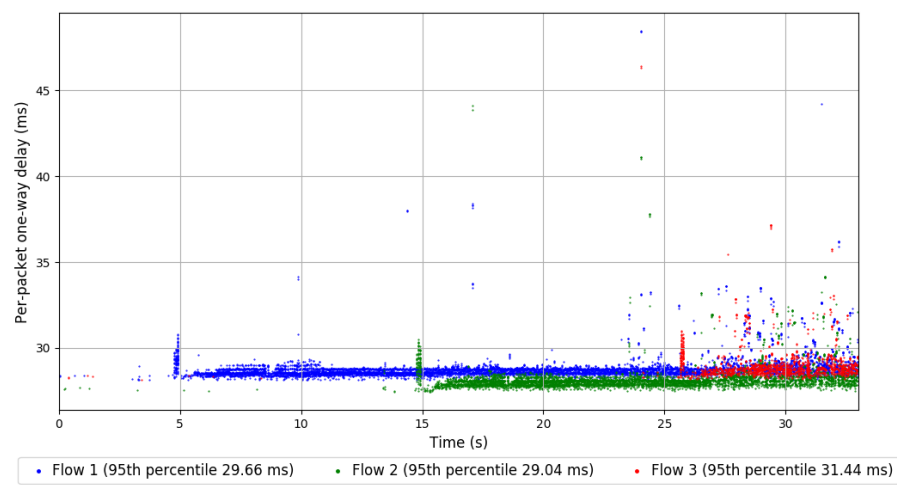
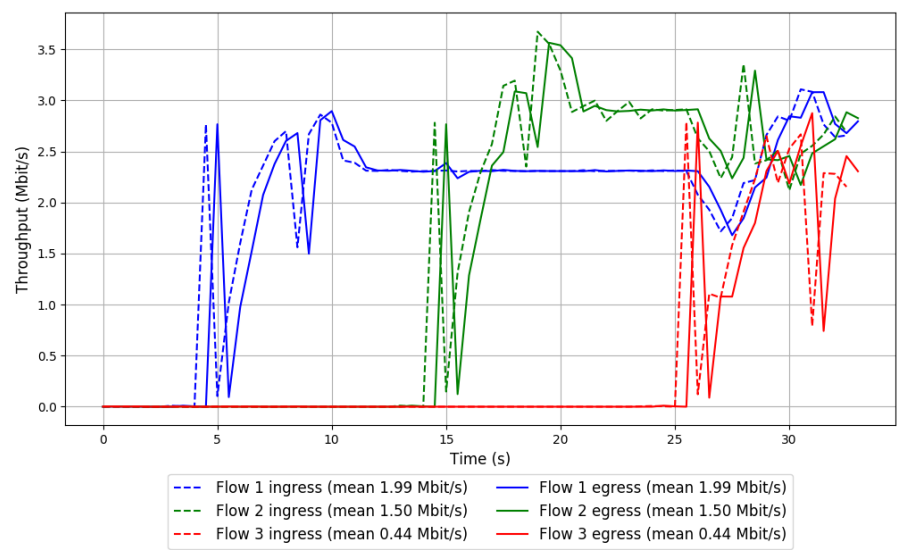


Run 6: Statistics of WebRTC media

Start at: 2018-05-30 17:51:19  
End at: 2018-05-30 17:51:49  
Local clock offset: 0.575 ms  
Remote clock offset: -2.021 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.91 Mbit/s  
95th percentile per-packet one-way delay: 29.691 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 29.658 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 29.042 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 31.436 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



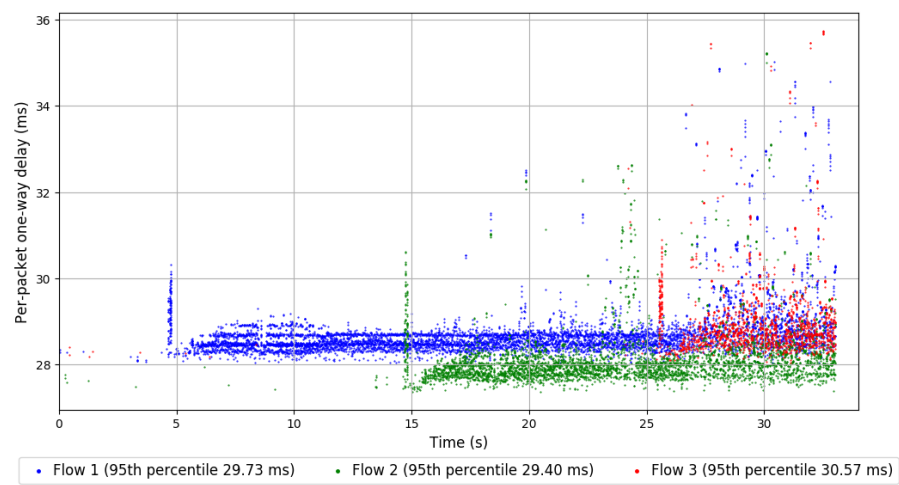
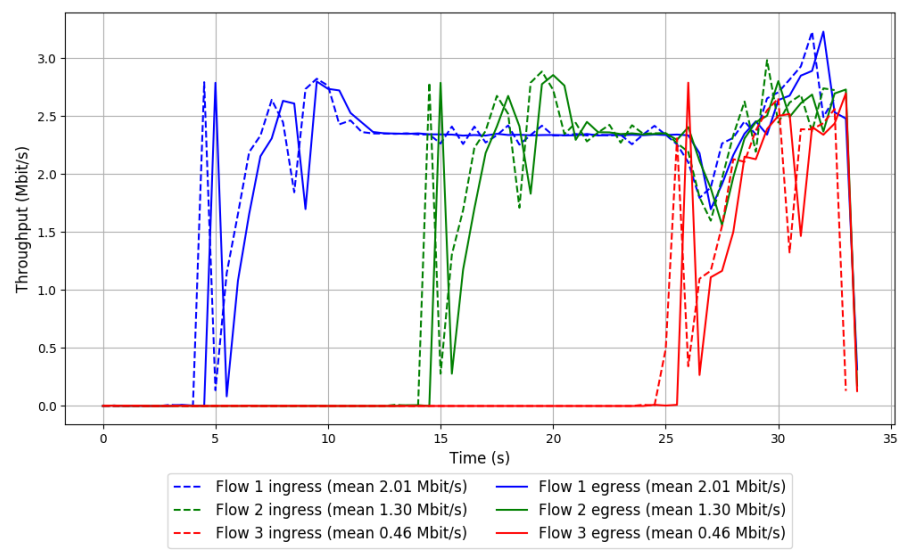
Run 7: Statistics of WebRTC media

Start at: 2018-05-30 18:12:47  
End at: 2018-05-30 18:13:17  
Local clock offset: 0.732 ms  
Remote clock offset: -2.109 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 29.813 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 29.728 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 29.402 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 30.565 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

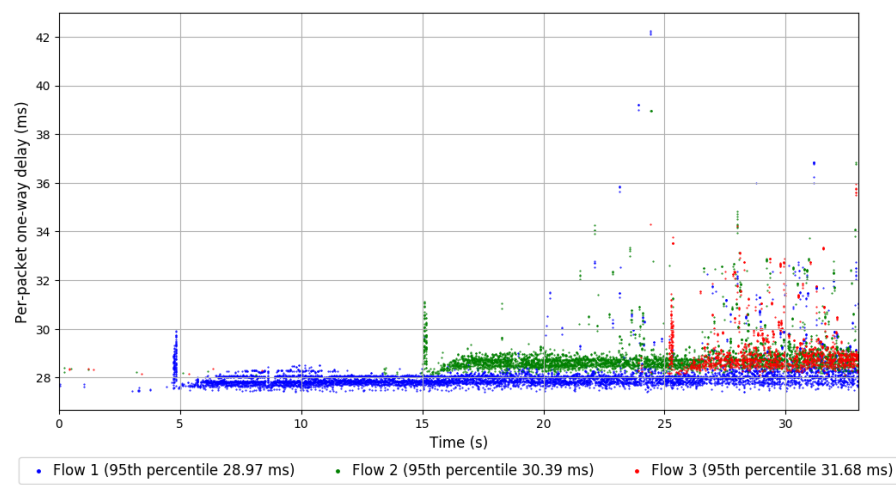
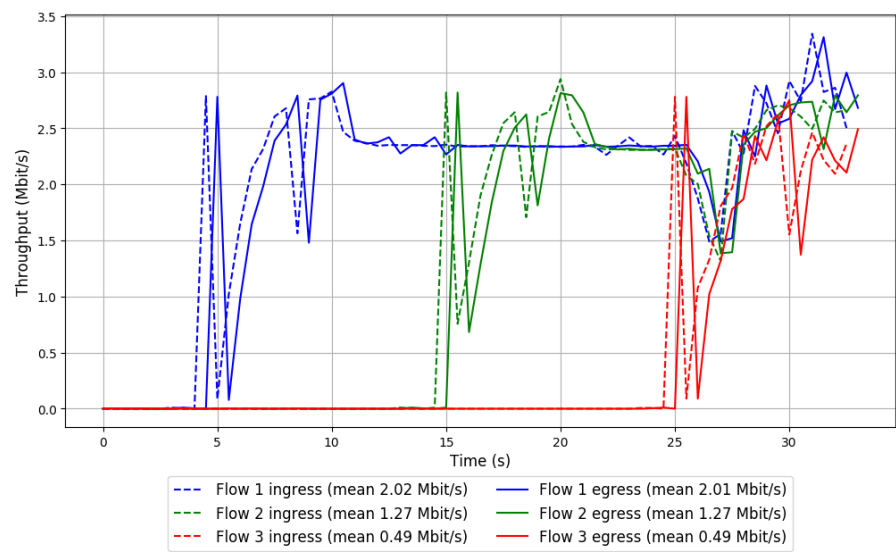


Run 8: Statistics of WebRTC media

Start at: 2018-05-30 18:34:17  
End at: 2018-05-30 18:34:47  
Local clock offset: 0.702 ms  
Remote clock offset: -1.437 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 30.067 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 28.971 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 30.388 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 31.678 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 18:55:48

End at: 2018-05-30 18:56:18

Local clock offset: 0.383 ms

Remote clock offset: -0.65 ms

# Below is generated by plot.py at 2018-05-30 19:54:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 30.444 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 30.366 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 30.109 ms

Loss rate: 0.16%

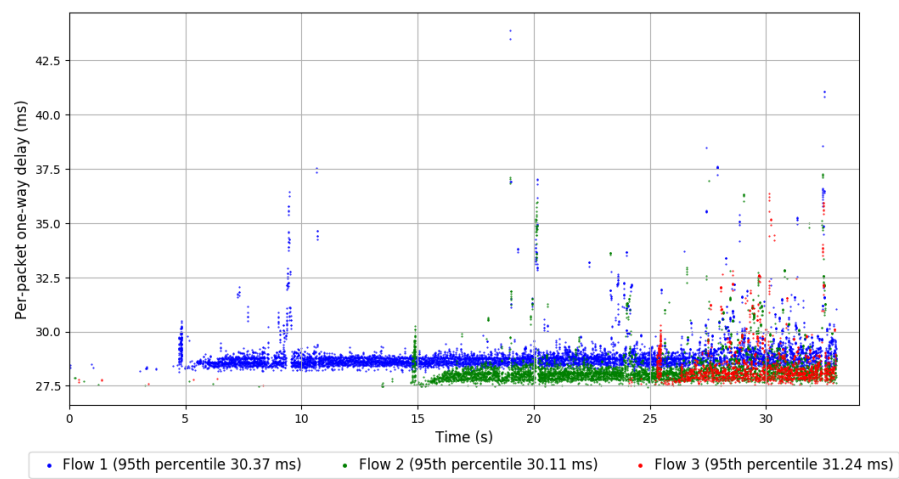
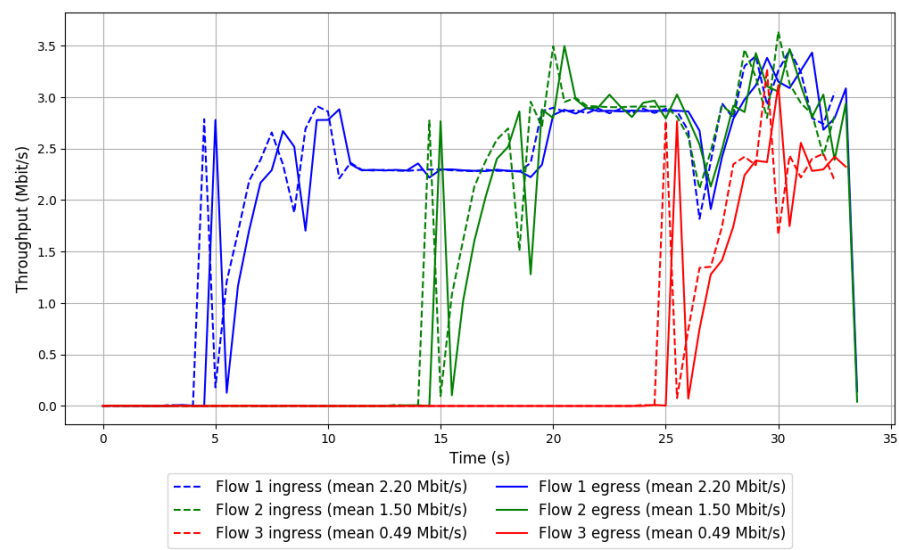
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 31.236 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 19:17:19  
End at: 2018-05-30 19:17:49  
Local clock offset: 0.573 ms  
Remote clock offset: -2.109 ms

# Below is generated by plot.py at 2018-05-30 19:54:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 29.918 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 29.440 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 29.760 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 31.921 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

