

Pantheon Report

Generated at 2018-07-24 08:18:18 (UTC).

Tested in mahimahi: mm-delay 27 mm-link 100.42mbps.trace 100.42mbps.trace
--uplink-queue=droptail --uplink-queue-args=packets=173

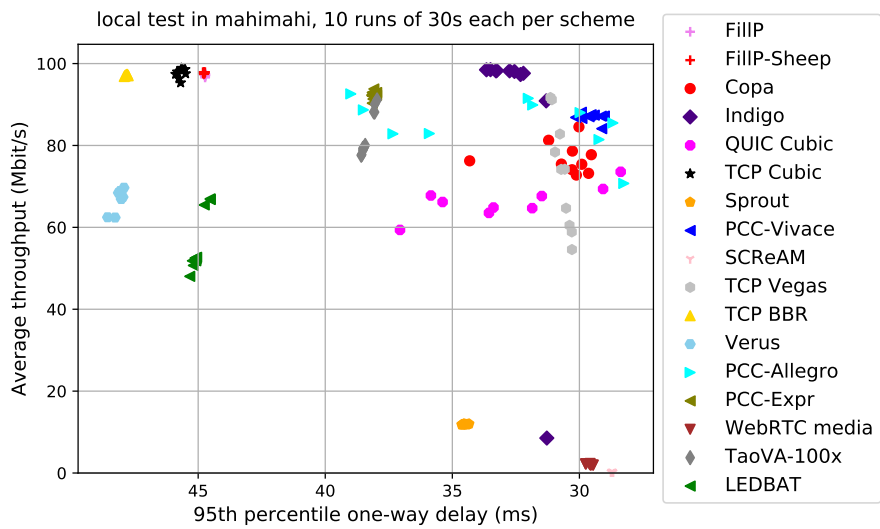
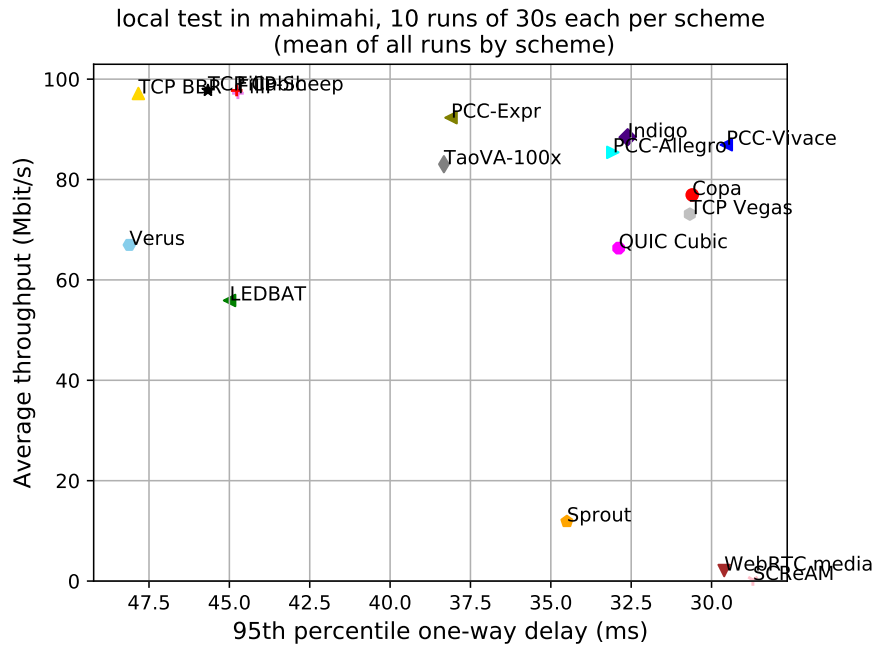
Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

Git summary:

```
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
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 @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	10	97.14	47.83	2.80
Copa	10	76.93	30.60	0.53
TCP Cubic	10	97.75	45.67	0.19
FillP	10	97.19	44.73	8.28
FillP-Sheep	10	97.75	44.77	6.71
Indigo	10	88.42	32.61	0.18
LEDBAT	10	55.91	44.99	0.18
PCC-Allegro	10	85.41	33.07	0.62
PCC-Expr	10	92.32	38.11	1.21
QUIC Cubic	9	66.33	32.89	0.34
SReAM	10	0.22	28.71	0.10
Sprout	10	11.88	34.50	0.11
TaoVA-100x	10	83.05	38.33	1.96
TCP Vegas	10	73.10	30.68	0.17
Verus	9	66.98	48.11	31.80
PCC-Vivace	10	86.92	29.54	0.14
WebRTC media	9	2.09	29.61	0.12

Run 1: Statistics of TCP BBR

Start at: 2018-07-24 05:47:41

End at: 2018-07-24 05:48:11

Below is generated by plot.py at 2018-07-24 07:39:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.10 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 47.866 ms

Loss rate: 2.87%

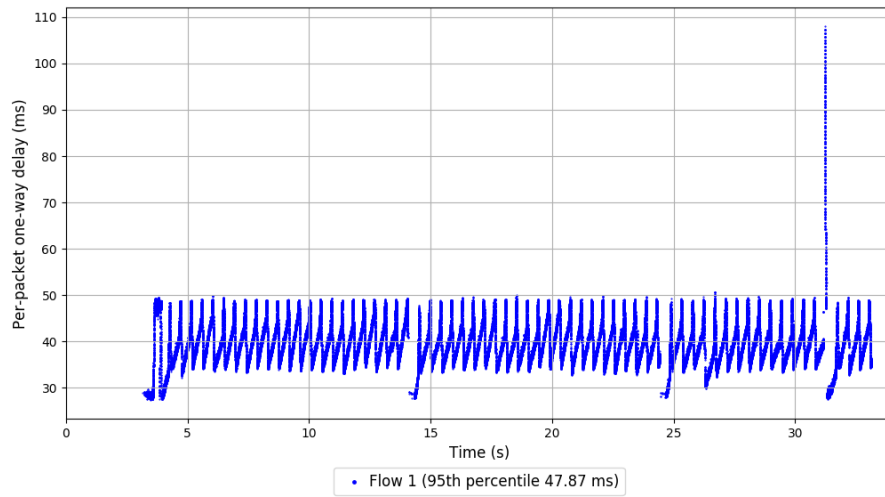
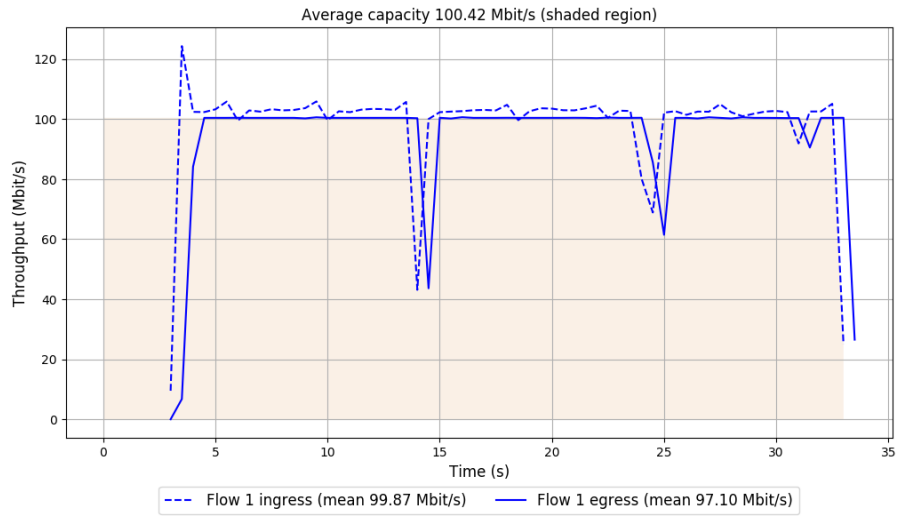
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 47.866 ms

Loss rate: 2.87%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-24 05:58:42

End at: 2018-07-24 05:59:12

Below is generated by plot.py at 2018-07-24 07:39:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.02 Mbit/s (96.6% utilization)

95th percentile per-packet one-way delay: 47.753 ms

Loss rate: 2.66%

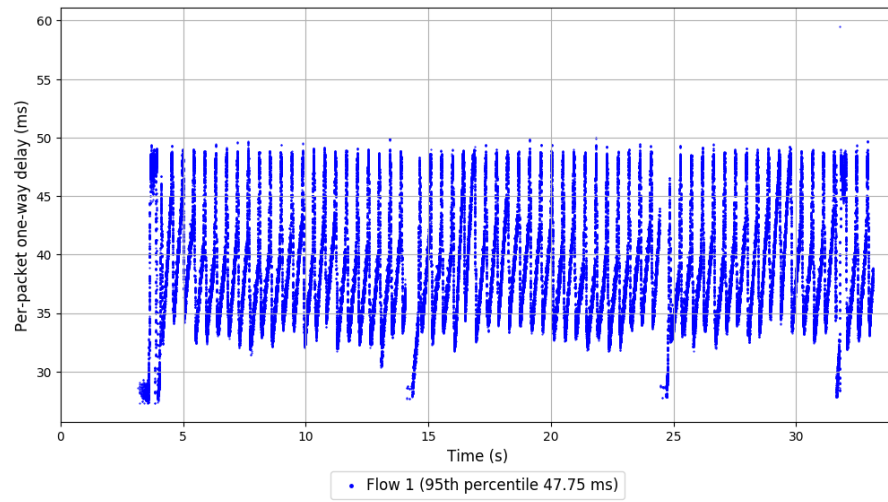
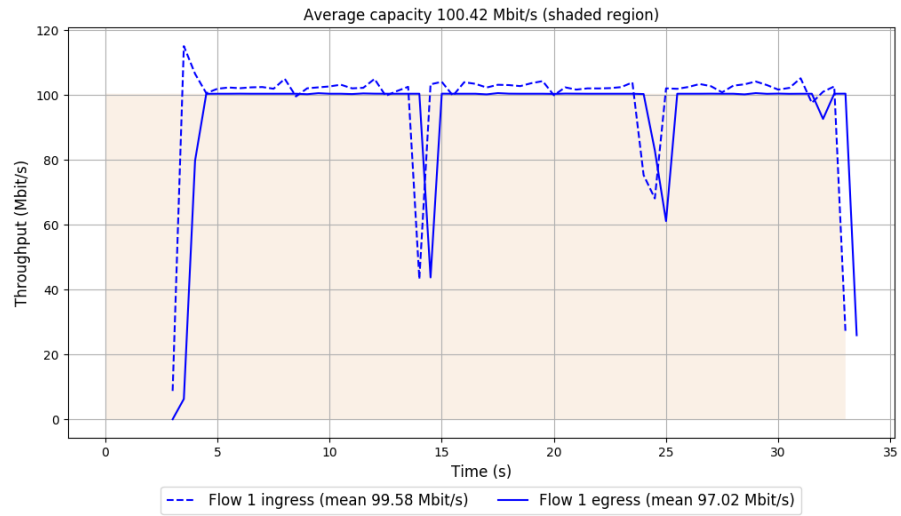
-- Flow 1:

Average throughput: 97.02 Mbit/s

95th percentile per-packet one-way delay: 47.753 ms

Loss rate: 2.66%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-24 06:09:52

End at: 2018-07-24 06:10:22

Below is generated by plot.py at 2018-07-24 07:39:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.39 Mbit/s (97.0% utilization)

95th percentile per-packet one-way delay: 47.801 ms

Loss rate: 2.84%

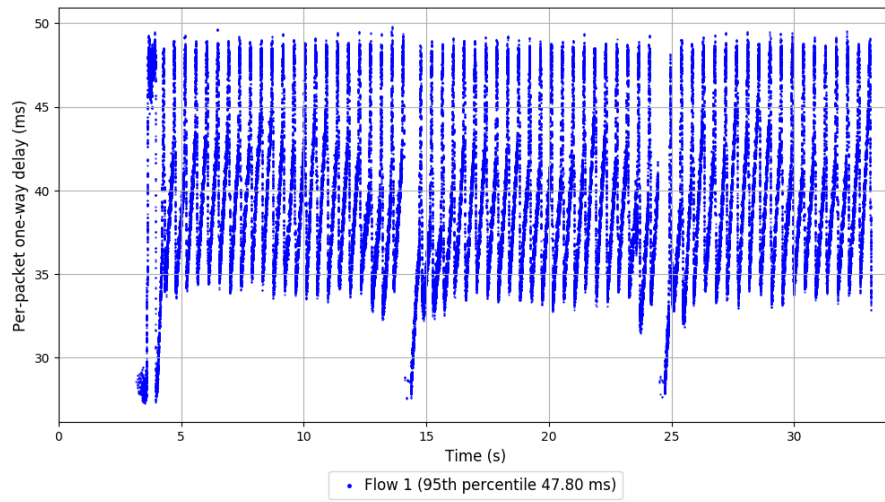
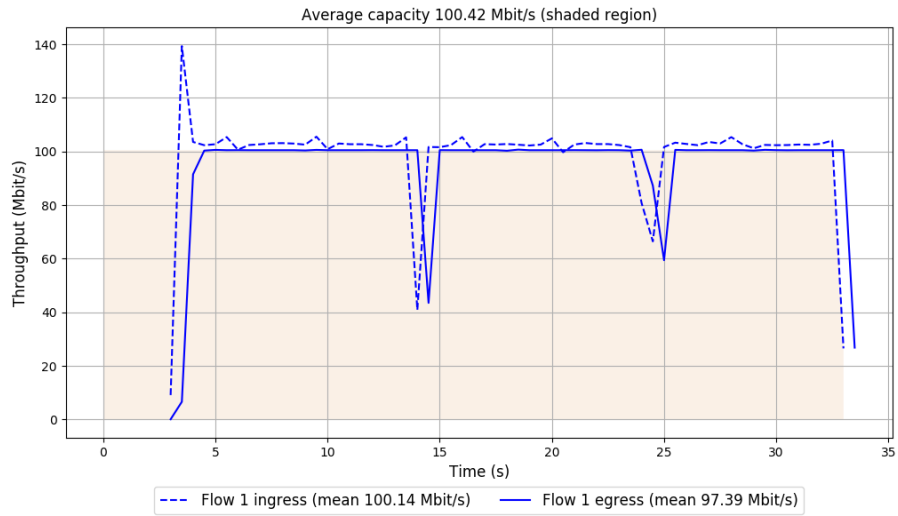
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 47.801 ms

Loss rate: 2.84%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-24 06:21:03

End at: 2018-07-24 06:21:33

Below is generated by plot.py at 2018-07-24 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.26 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 47.821 ms

Loss rate: 2.90%

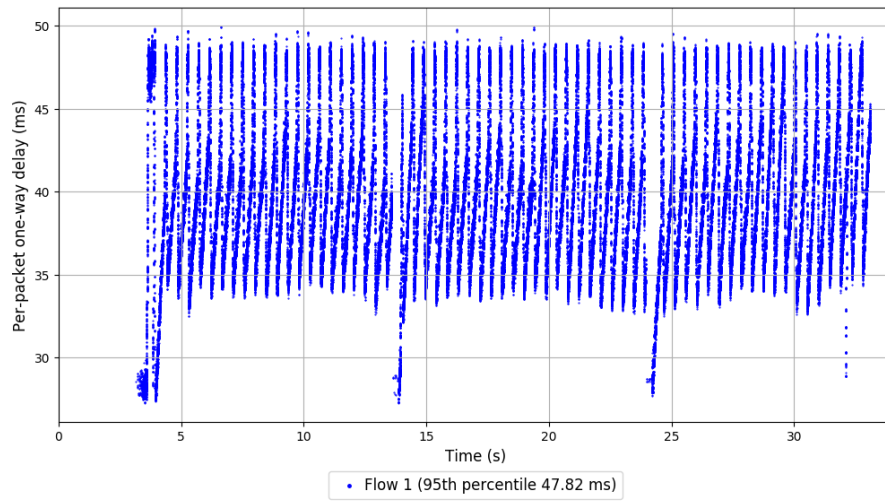
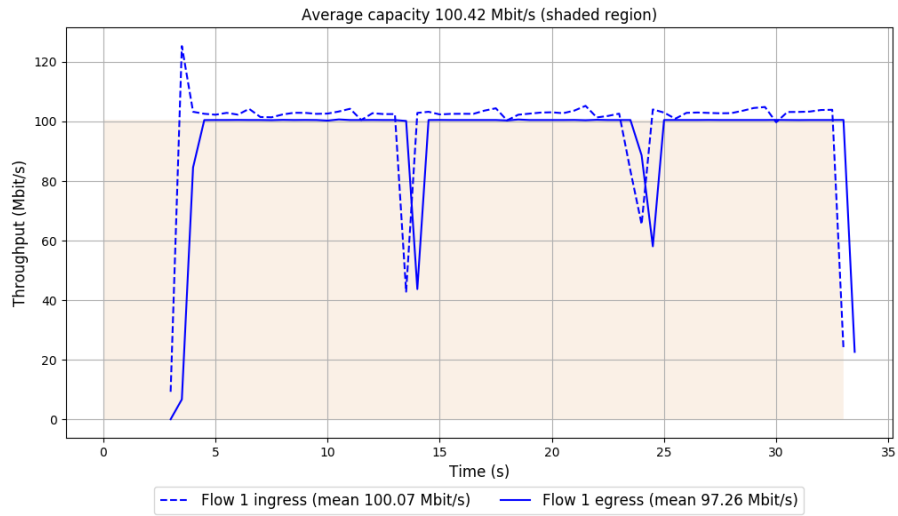
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 47.821 ms

Loss rate: 2.90%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-24 06:32:10

End at: 2018-07-24 06:32:40

Below is generated by plot.py at 2018-07-24 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.33 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 47.780 ms

Loss rate: 2.72%

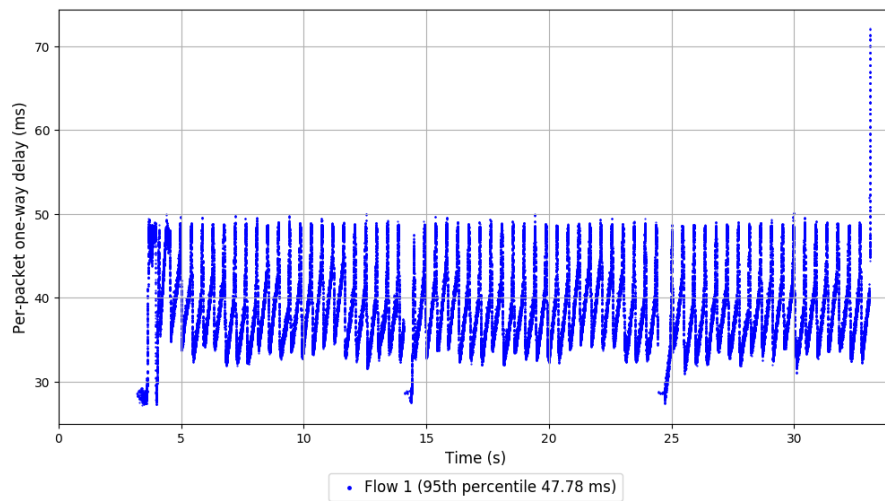
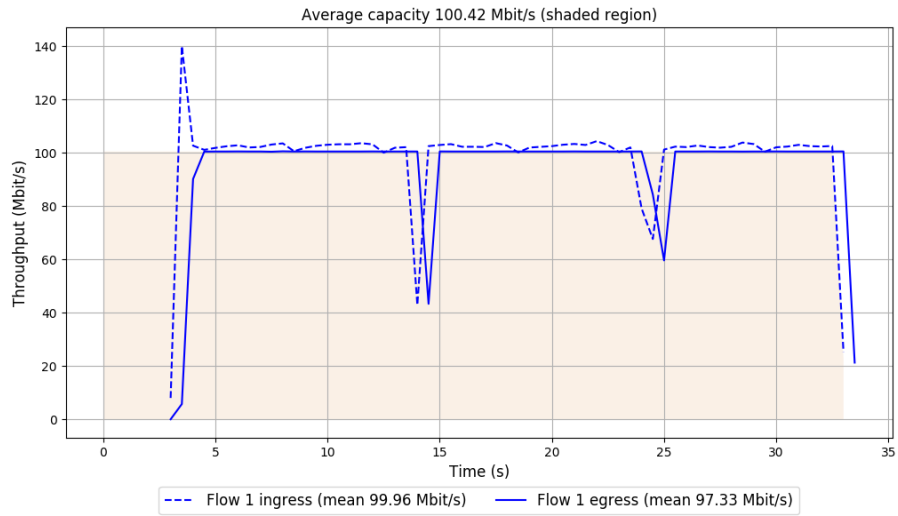
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 47.780 ms

Loss rate: 2.72%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-24 06:43:19

End at: 2018-07-24 06:43:49

Below is generated by plot.py at 2018-07-24 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 96.84 Mbit/s (96.4% utilization)

95th percentile per-packet one-way delay: 47.907 ms

Loss rate: 3.22%

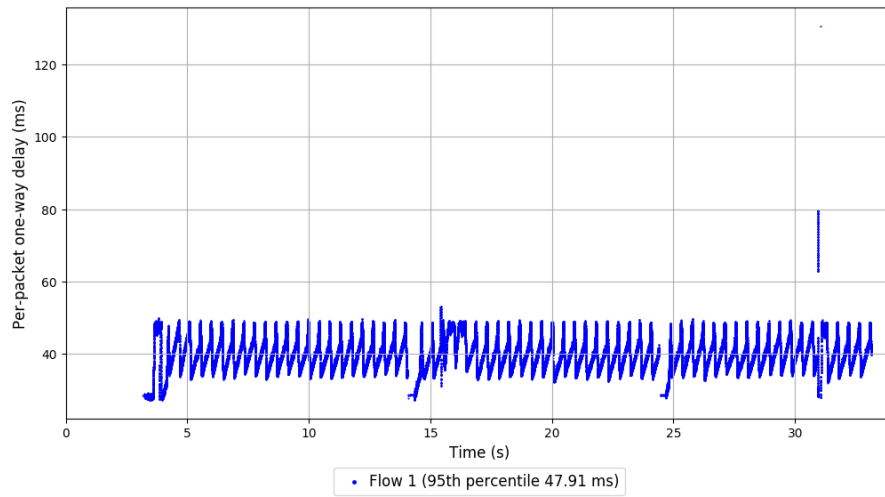
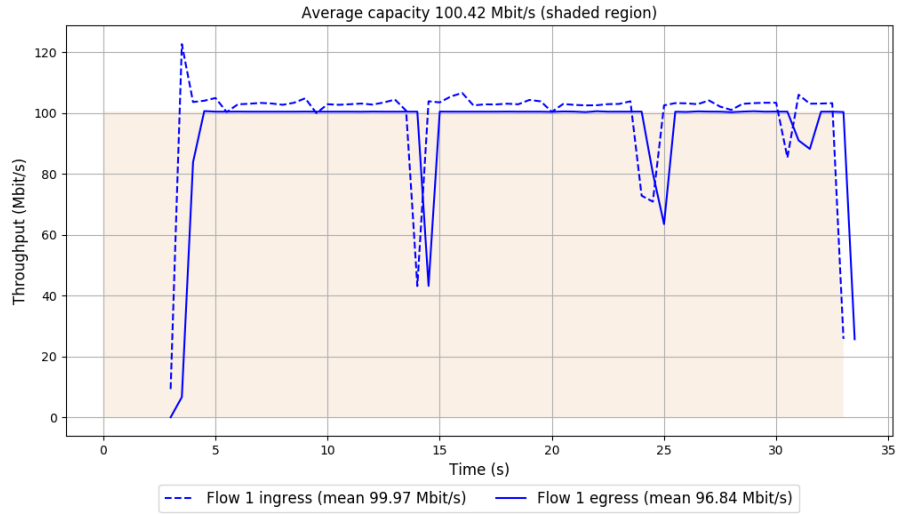
-- Flow 1:

Average throughput: 96.84 Mbit/s

95th percentile per-packet one-way delay: 47.907 ms

Loss rate: 3.22%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-24 06:54:29

End at: 2018-07-24 06:54:59

Below is generated by plot.py at 2018-07-24 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.08 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 47.828 ms

Loss rate: 2.60%

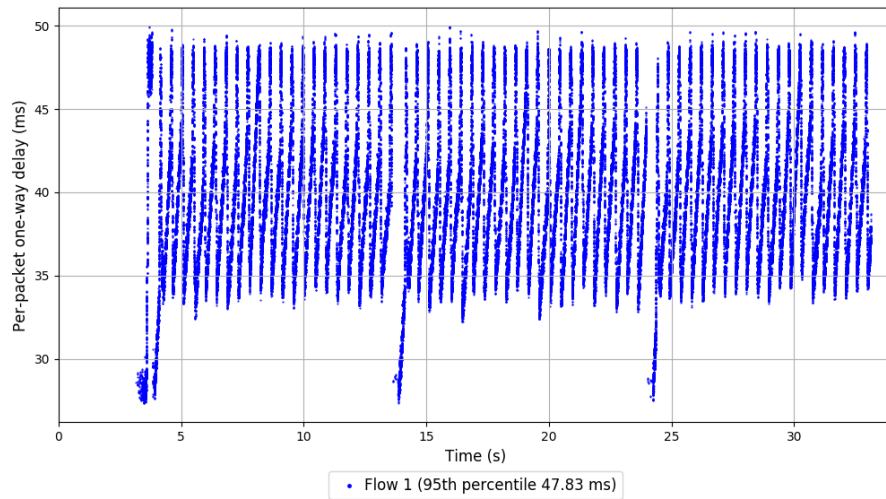
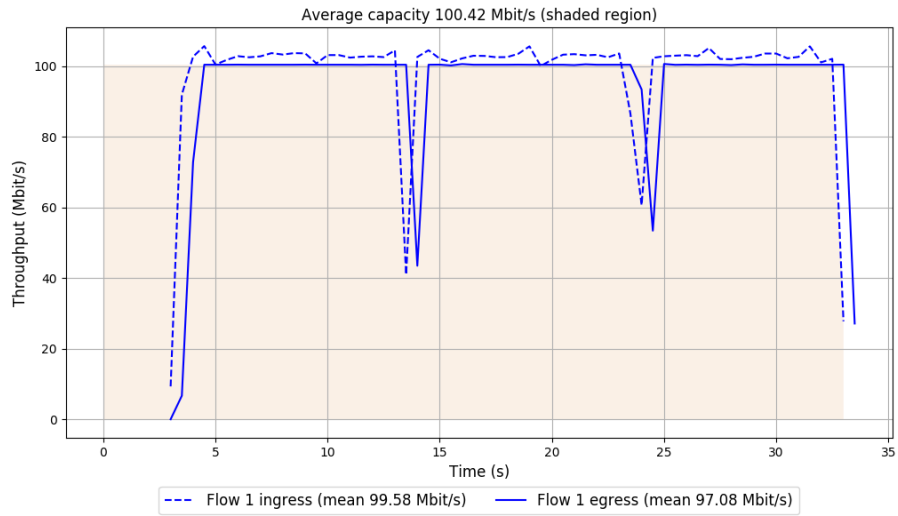
-- Flow 1:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 47.828 ms

Loss rate: 2.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-24 07:05:40

End at: 2018-07-24 07:06:10

Below is generated by plot.py at 2018-07-24 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.09 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 47.833 ms

Loss rate: 2.59%

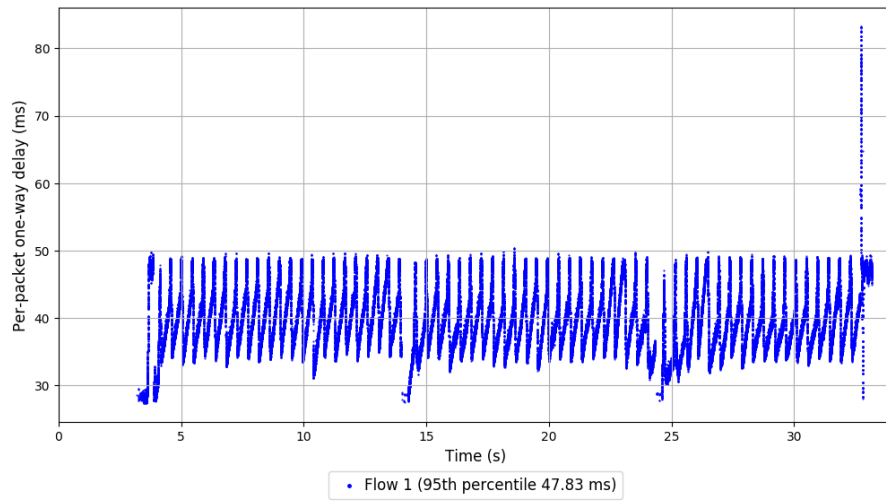
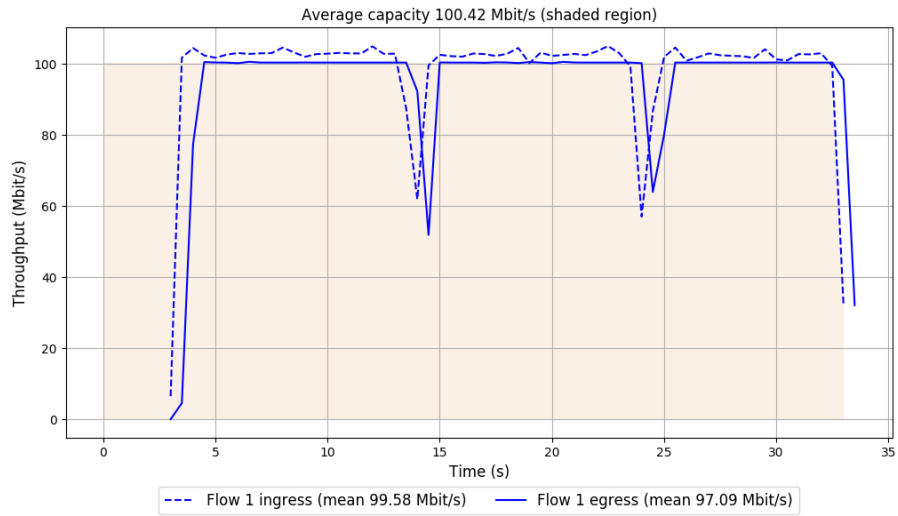
-- Flow 1:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 47.833 ms

Loss rate: 2.59%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-24 07:16:50

End at: 2018-07-24 07:17:20

Below is generated by plot.py at 2018-07-24 07:41:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.10 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 47.851 ms

Loss rate: 2.77%

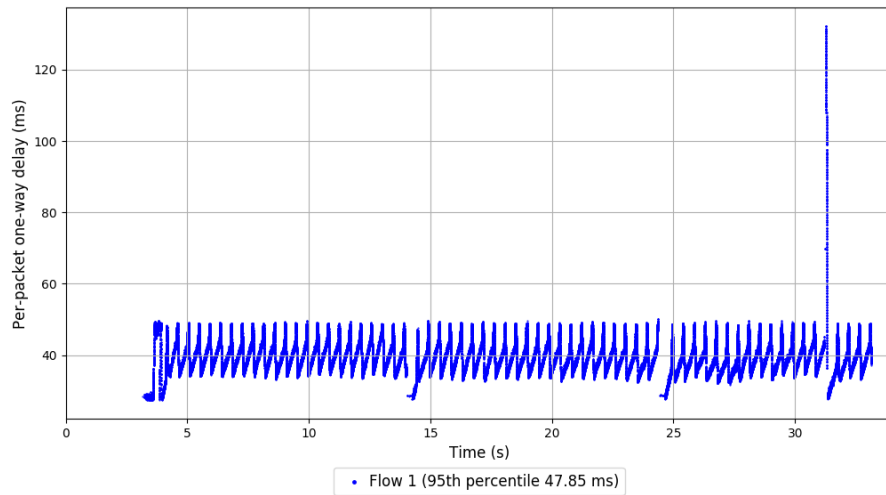
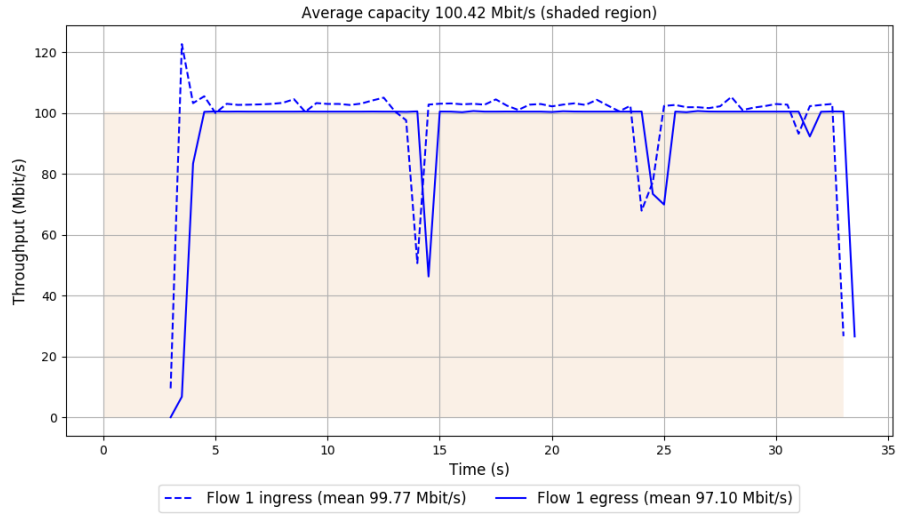
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 47.851 ms

Loss rate: 2.77%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-24 07:28:01

End at: 2018-07-24 07:28:31

Below is generated by plot.py at 2018-07-24 07:41:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.20 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 47.859 ms

Loss rate: 2.85%

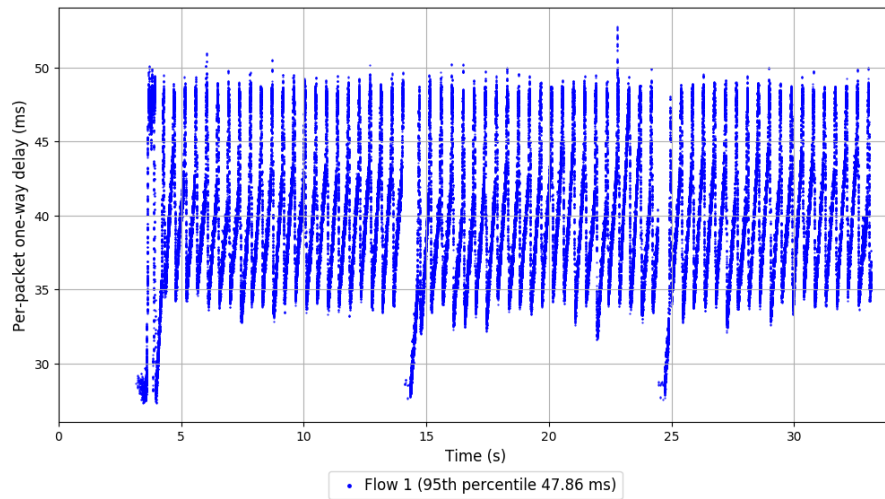
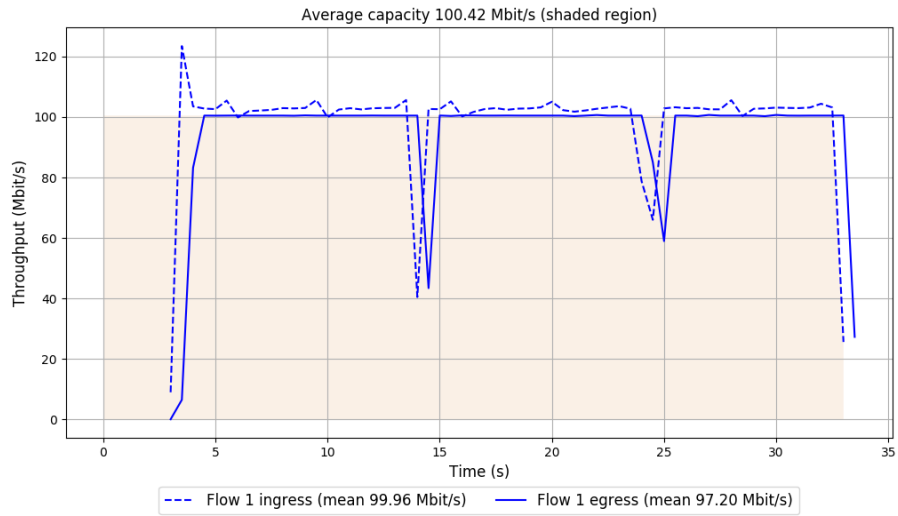
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 47.859 ms

Loss rate: 2.85%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-24 05:50:23

End at: 2018-07-24 05:50:53

Below is generated by plot.py at 2018-07-24 07:42:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 73.19 Mbit/s (72.9% utilization)

95th percentile per-packet one-way delay: 29.640 ms

Loss rate: 0.89%

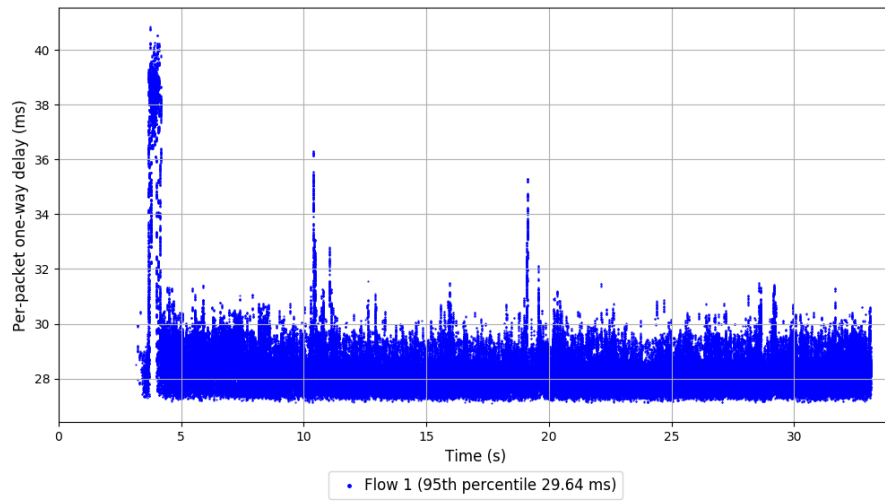
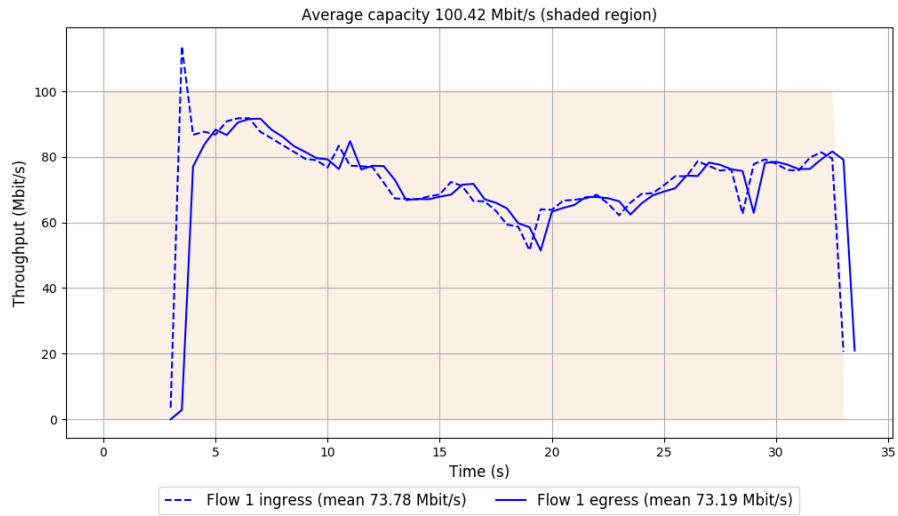
-- Flow 1:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 29.640 ms

Loss rate: 0.89%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-24 06:01:24

End at: 2018-07-24 06:01:54

Below is generated by plot.py at 2018-07-24 07:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 78.63 Mbit/s (78.3% utilization)

95th percentile per-packet one-way delay: 30.276 ms

Loss rate: 0.72%

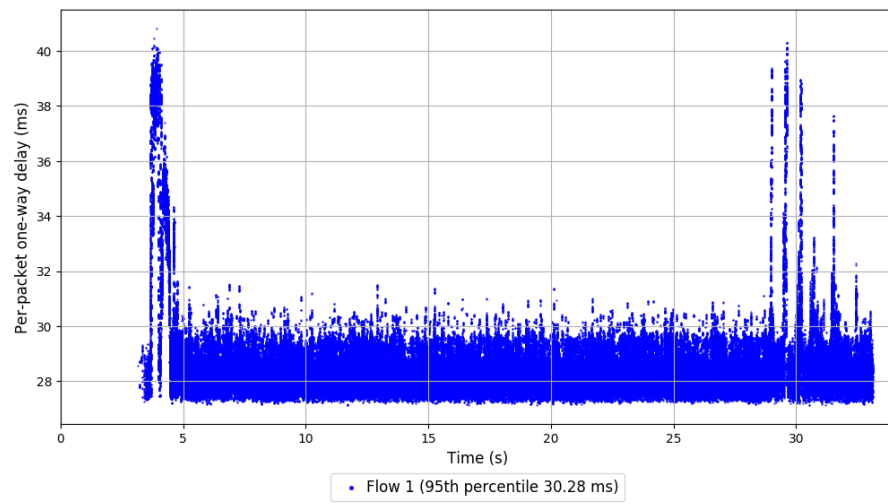
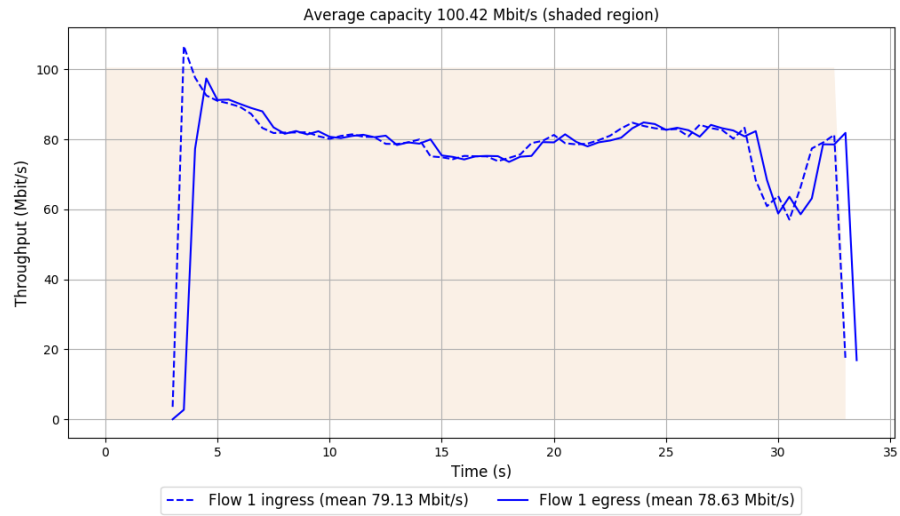
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 30.276 ms

Loss rate: 0.72%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-24 06:12:34

End at: 2018-07-24 06:13:04

Below is generated by plot.py at 2018-07-24 07:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 75.45 Mbit/s (75.1% utilization)

95th percentile per-packet one-way delay: 30.710 ms

Loss rate: 0.49%

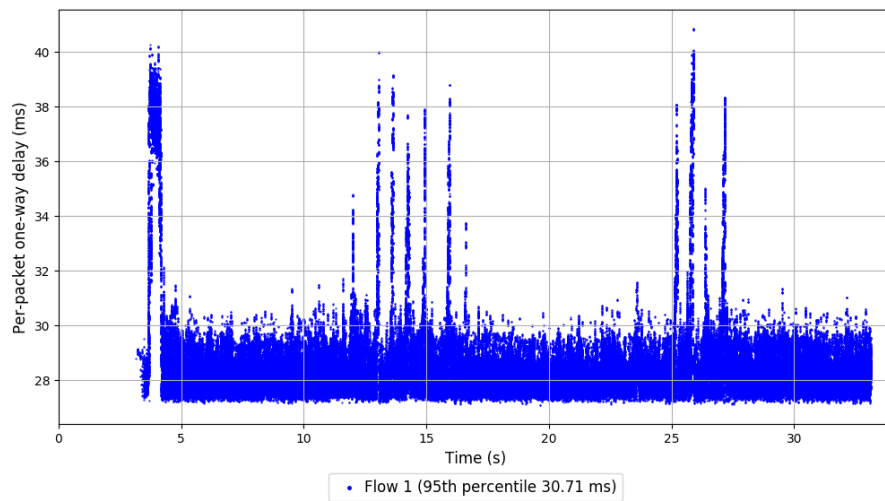
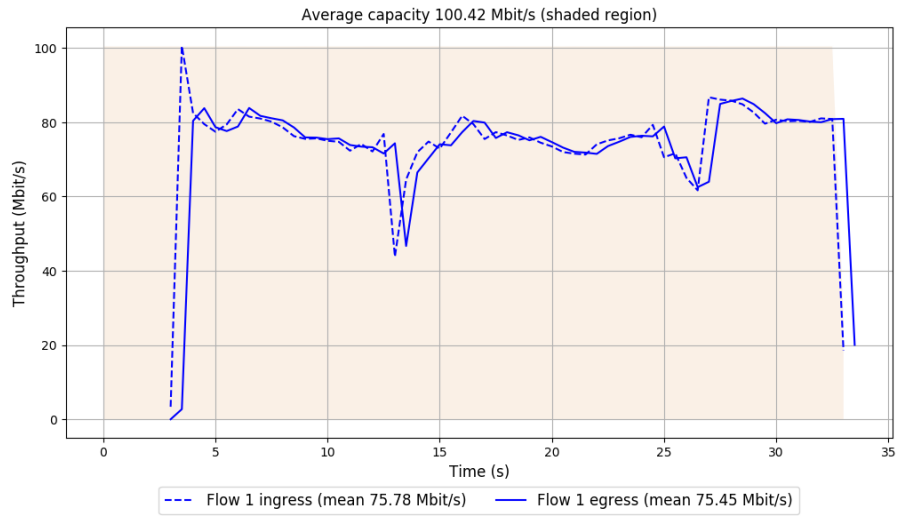
-- Flow 1:

Average throughput: 75.45 Mbit/s

95th percentile per-packet one-way delay: 30.710 ms

Loss rate: 0.49%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-24 06:23:46

End at: 2018-07-24 06:24:16

Below is generated by plot.py at 2018-07-24 07:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 77.74 Mbit/s (77.4% utilization)

95th percentile per-packet one-way delay: 29.531 ms

Loss rate: 0.09%

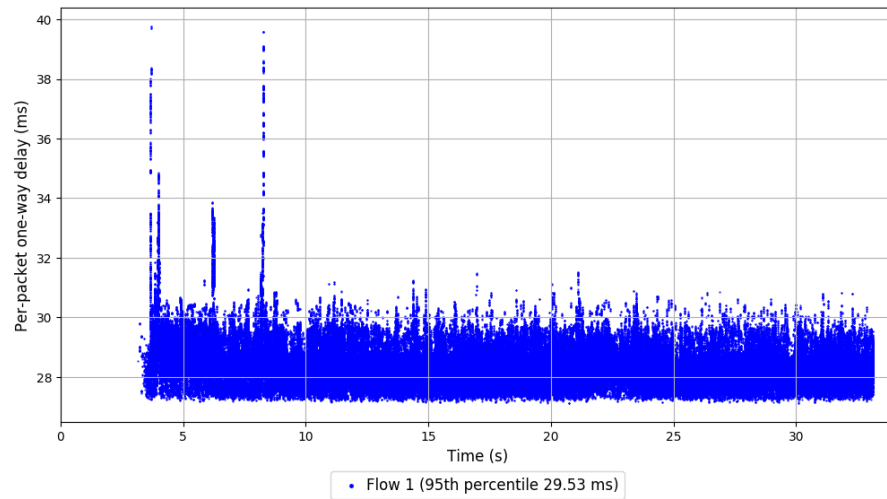
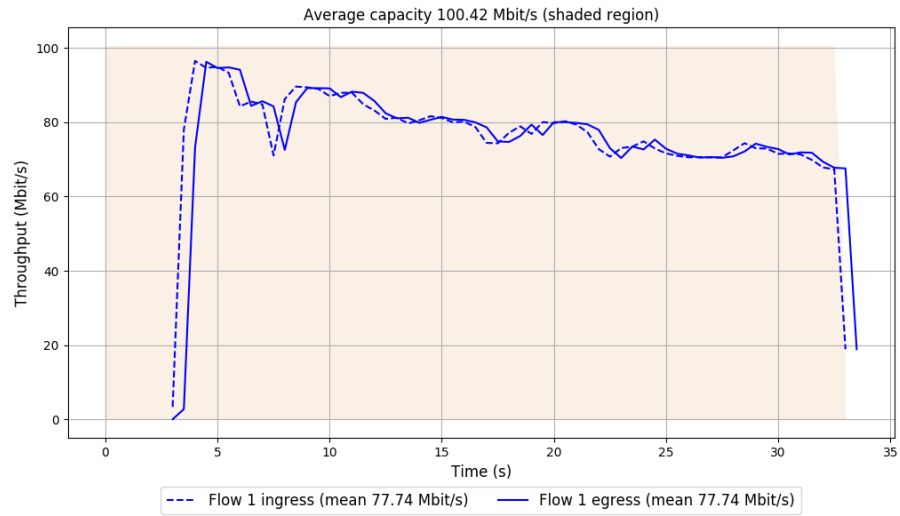
-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 29.531 ms

Loss rate: 0.09%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-24 06:34:52

End at: 2018-07-24 06:35:22

Below is generated by plot.py at 2018-07-24 07:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 75.41 Mbit/s (75.1% utilization)

95th percentile per-packet one-way delay: 29.907 ms

Loss rate: 0.19%

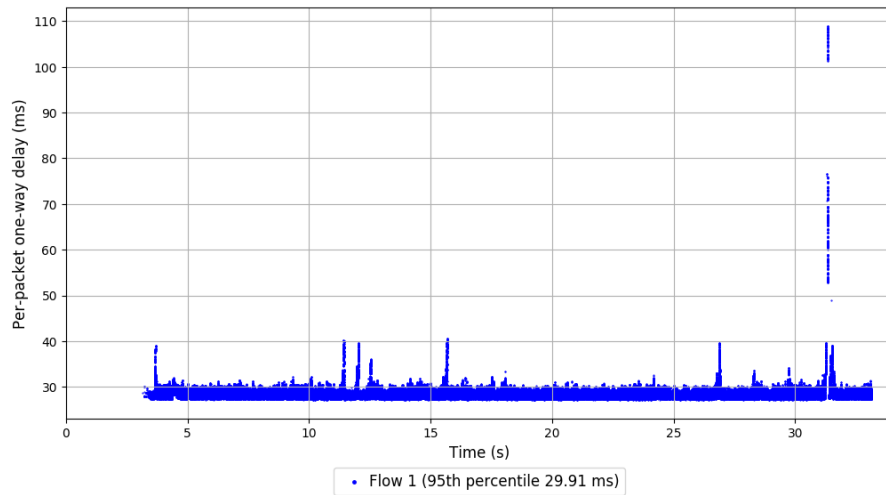
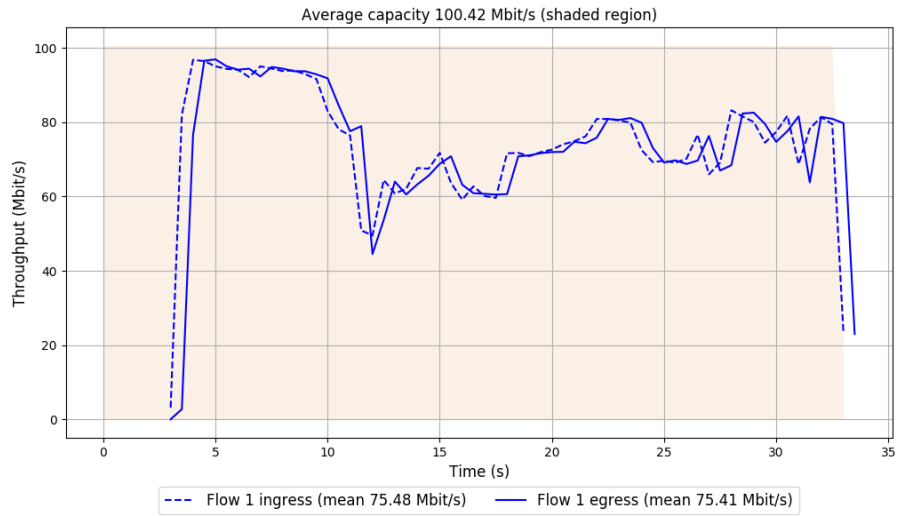
-- Flow 1:

Average throughput: 75.41 Mbit/s

95th percentile per-packet one-way delay: 29.907 ms

Loss rate: 0.19%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-24 06:46:03

End at: 2018-07-24 06:46:33

Below is generated by plot.py at 2018-07-24 07:42:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 72.77 Mbit/s (72.5% utilization)

95th percentile per-packet one-way delay: 30.120 ms

Loss rate: 0.43%

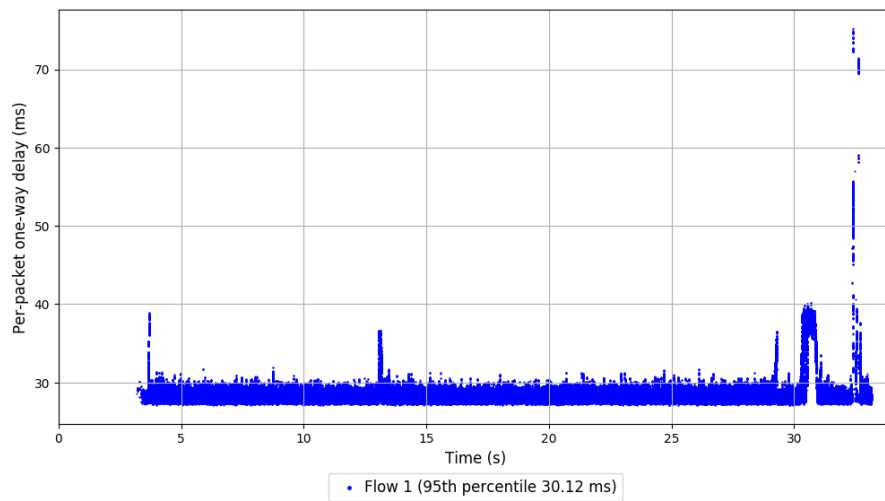
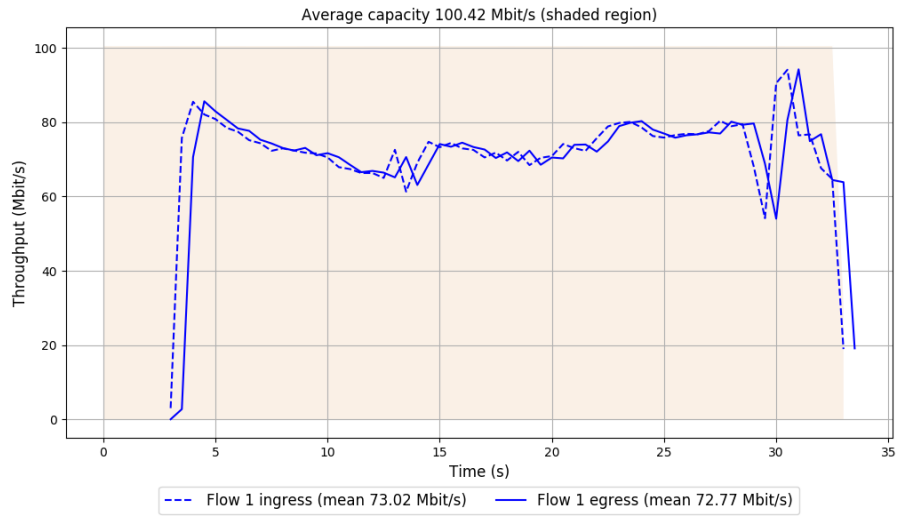
-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 30.120 ms

Loss rate: 0.43%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-24 06:57:14

End at: 2018-07-24 06:57:44

Below is generated by plot.py at 2018-07-24 07:44:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 74.07 Mbit/s (73.8% utilization)

95th percentile per-packet one-way delay: 30.288 ms

Loss rate: 0.51%

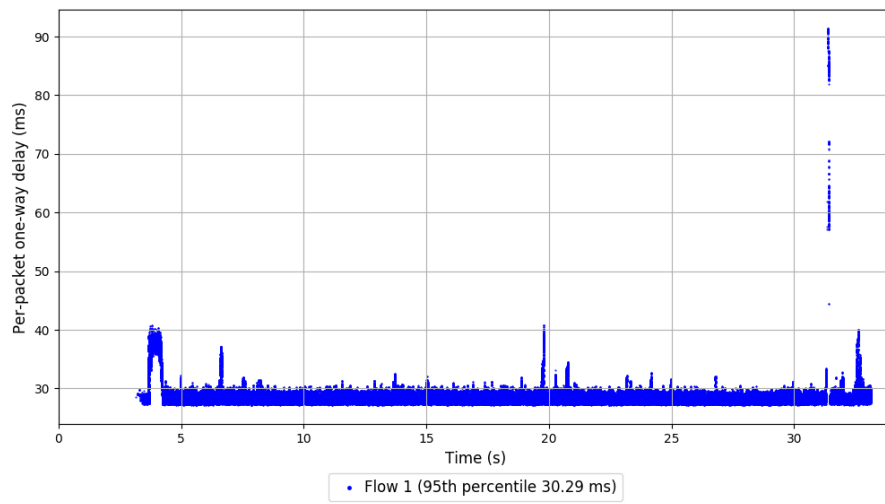
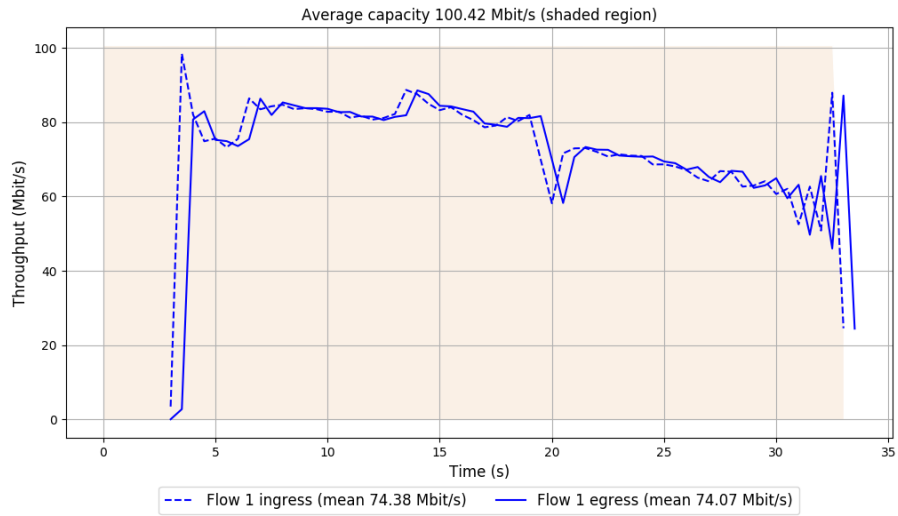
-- Flow 1:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 30.288 ms

Loss rate: 0.51%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-24 07:08:23

End at: 2018-07-24 07:08:53

Below is generated by plot.py at 2018-07-24 07:44:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 76.25 Mbit/s (75.9% utilization)

95th percentile per-packet one-way delay: 34.318 ms

Loss rate: 0.73%

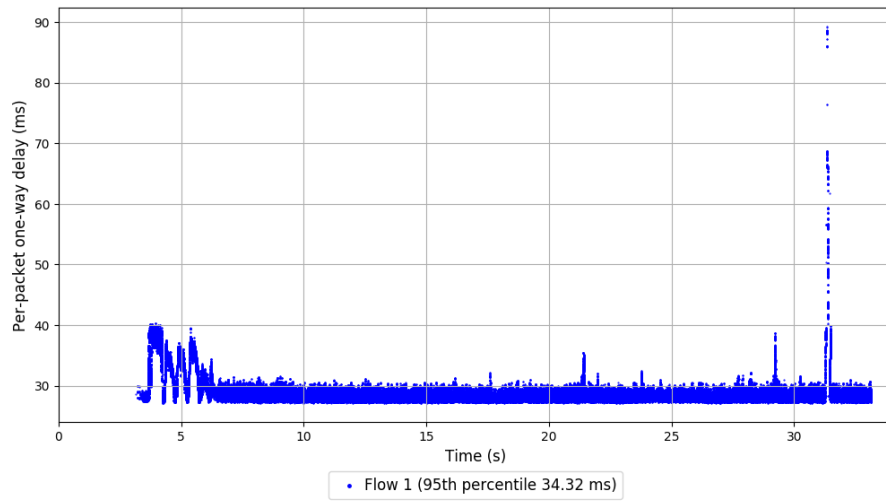
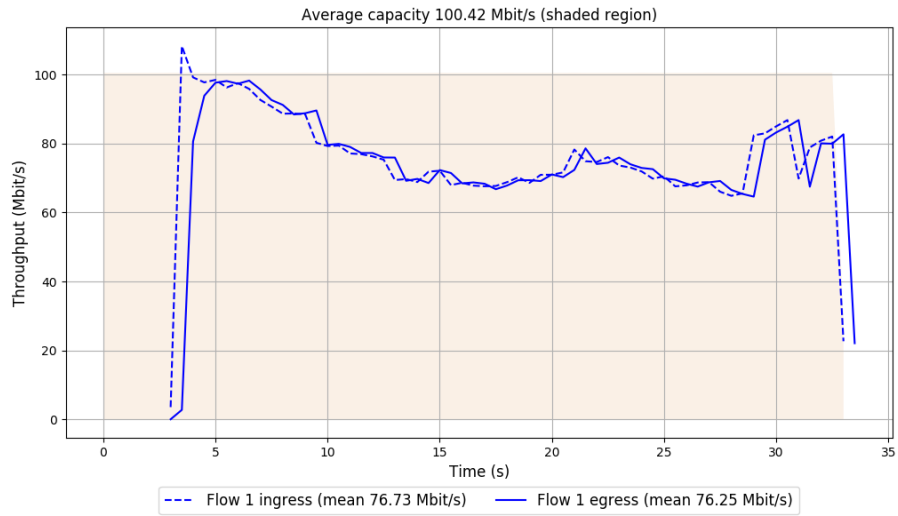
-- Flow 1:

Average throughput: 76.25 Mbit/s

95th percentile per-packet one-way delay: 34.318 ms

Loss rate: 0.73%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-24 07:19:33

End at: 2018-07-24 07:20:03

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 84.54 Mbit/s (84.2% utilization)

95th percentile per-packet one-way delay: 30.019 ms

Loss rate: 0.66%

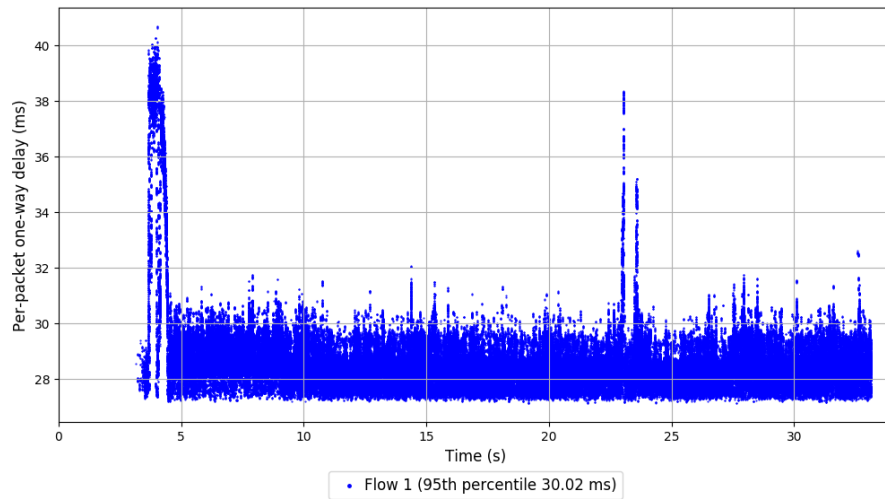
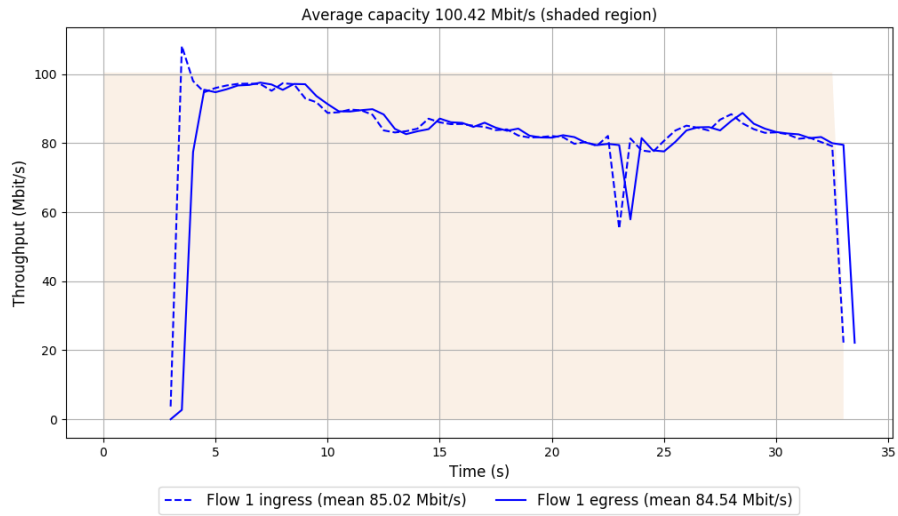
-- Flow 1:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 30.019 ms

Loss rate: 0.66%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-24 07:30:44

End at: 2018-07-24 07:31:14

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 81.27 Mbit/s (80.9% utilization)

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.62%

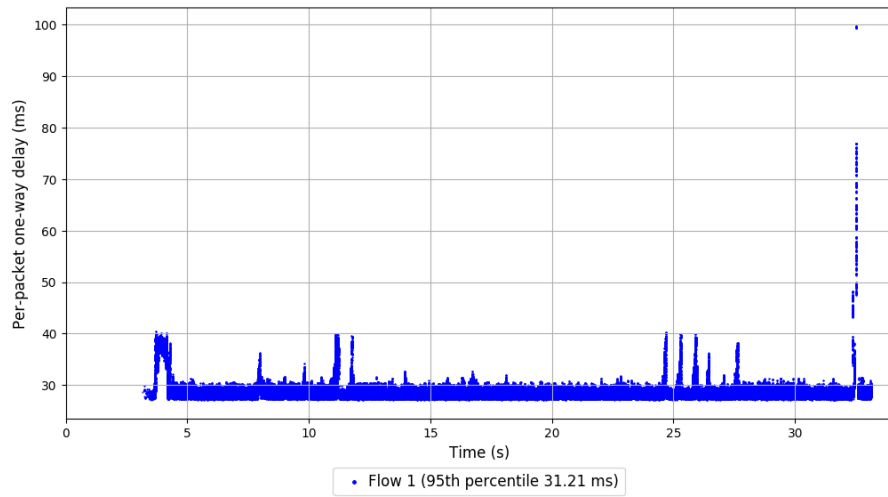
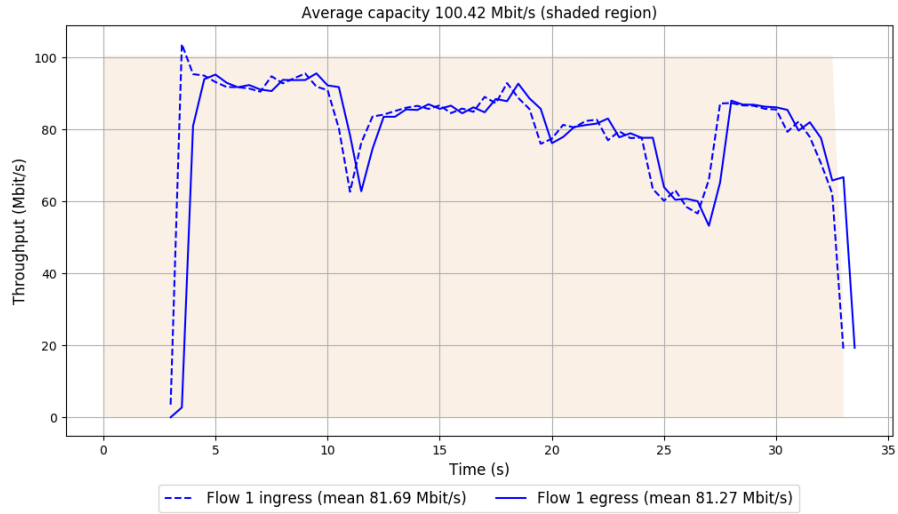
-- Flow 1:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 31.211 ms

Loss rate: 0.62%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-24 05:41:16

End at: 2018-07-24 05:41:46

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.44 Mbit/s (98.0% utilization)

95th percentile per-packet one-way delay: 45.671 ms

Loss rate: 0.16%

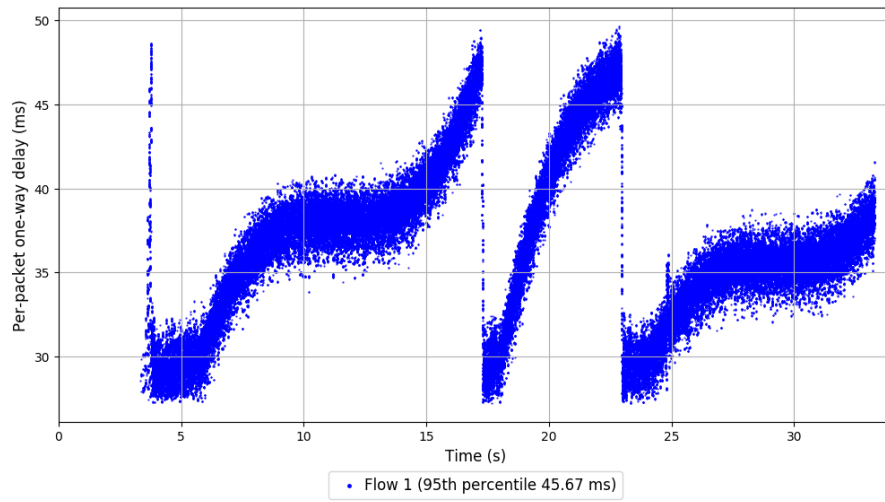
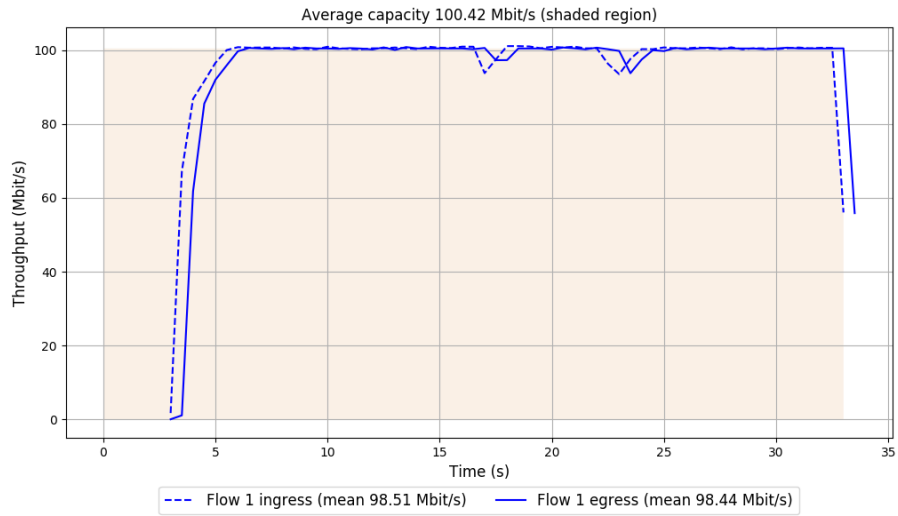
-- Flow 1:

Average throughput: 98.44 Mbit/s

95th percentile per-packet one-way delay: 45.671 ms

Loss rate: 0.16%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-24 05:52:16

End at: 2018-07-24 05:52:46

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 95.32 Mbit/s (94.9% utilization)

95th percentile per-packet one-way delay: 45.688 ms

Loss rate: 0.15%

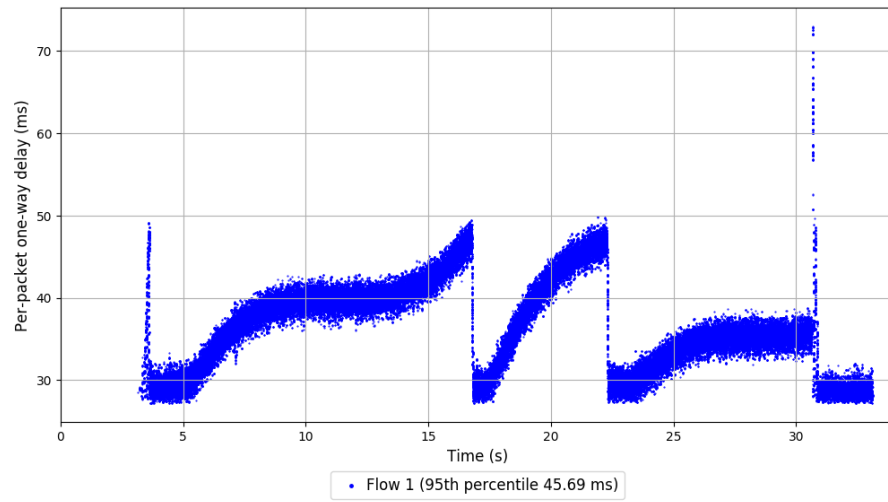
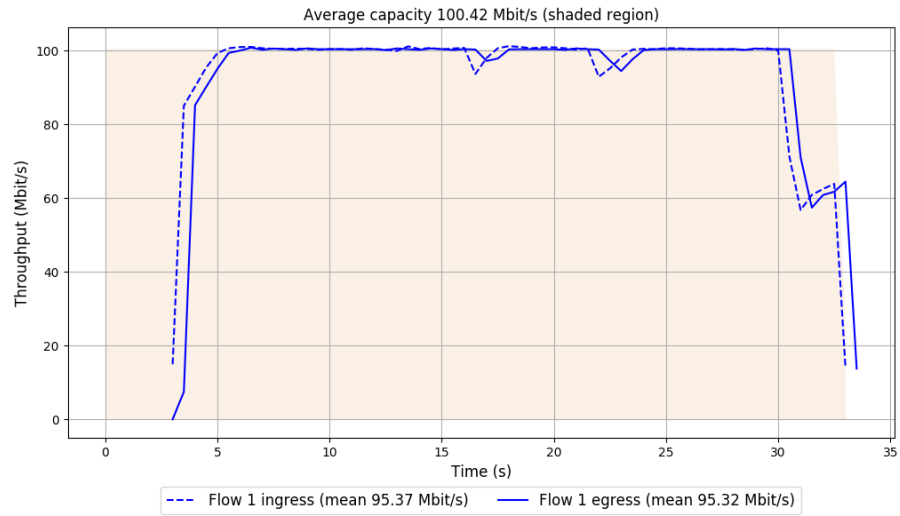
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 45.688 ms

Loss rate: 0.15%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-24 06:03:23

End at: 2018-07-24 06:03:53

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.51 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 45.556 ms

Loss rate: 0.16%

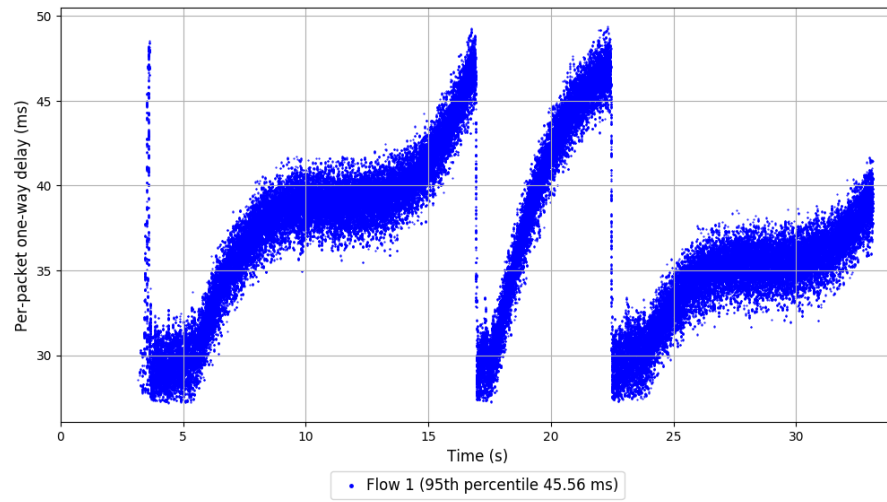
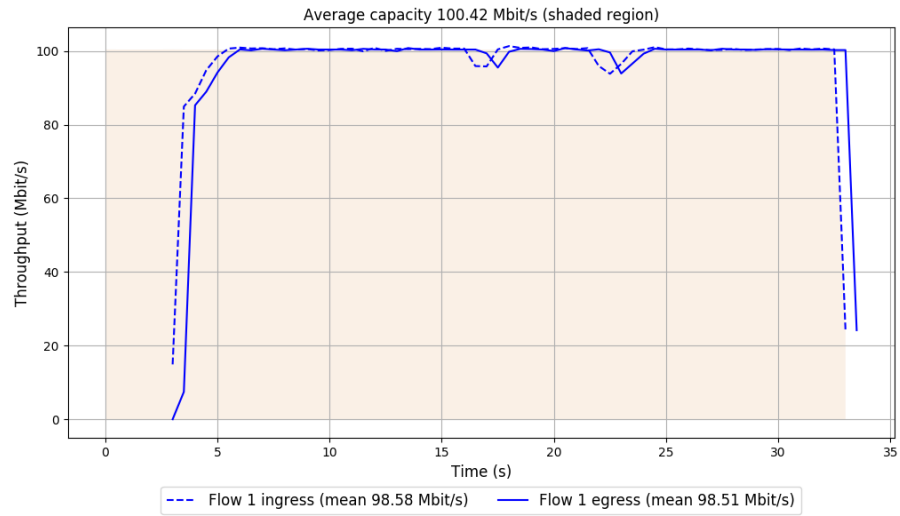
-- Flow 1:

Average throughput: 98.51 Mbit/s

95th percentile per-packet one-way delay: 45.556 ms

Loss rate: 0.16%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-24 06:14:33

End at: 2018-07-24 06:15:03

Below is generated by plot.py at 2018-07-24 07:45:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.88 Mbit/s (98.5% utilization)

95th percentile per-packet one-way delay: 45.658 ms

Loss rate: 0.25%

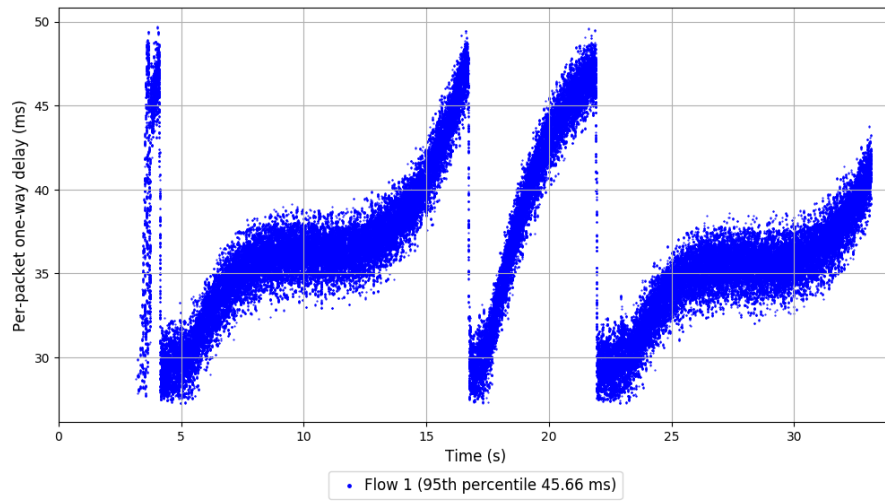
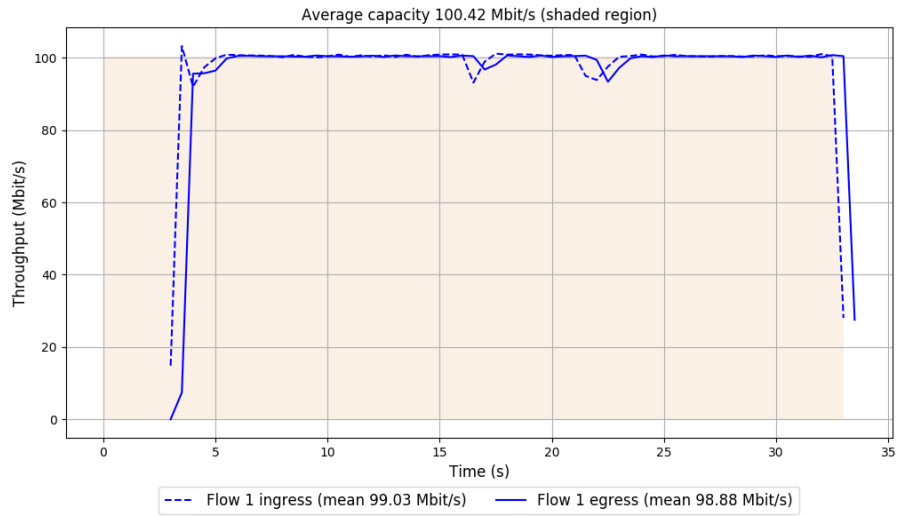
-- Flow 1:

Average throughput: 98.88 Mbit/s

95th percentile per-packet one-way delay: 45.658 ms

Loss rate: 0.25%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-24 06:25:44

End at: 2018-07-24 06:26:14

Below is generated by plot.py at 2018-07-24 07:46:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.41 Mbit/s (97.0% utilization)

95th percentile per-packet one-way delay: 45.888 ms

Loss rate: 0.26%

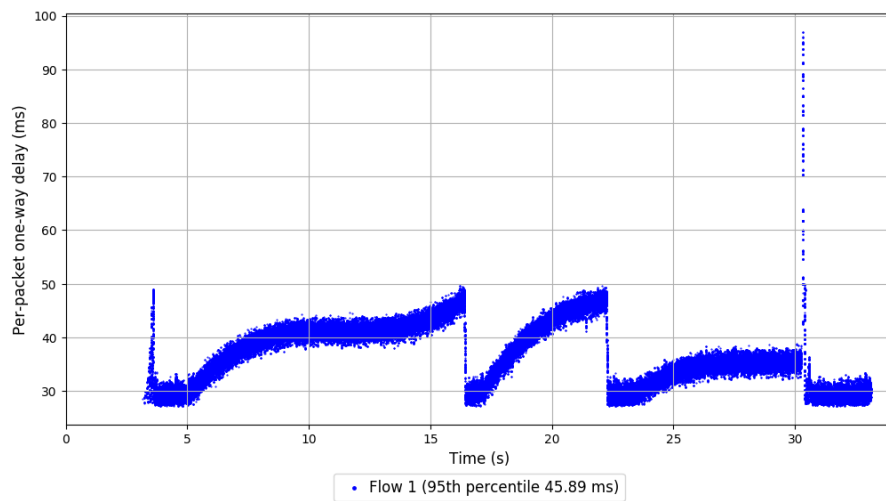
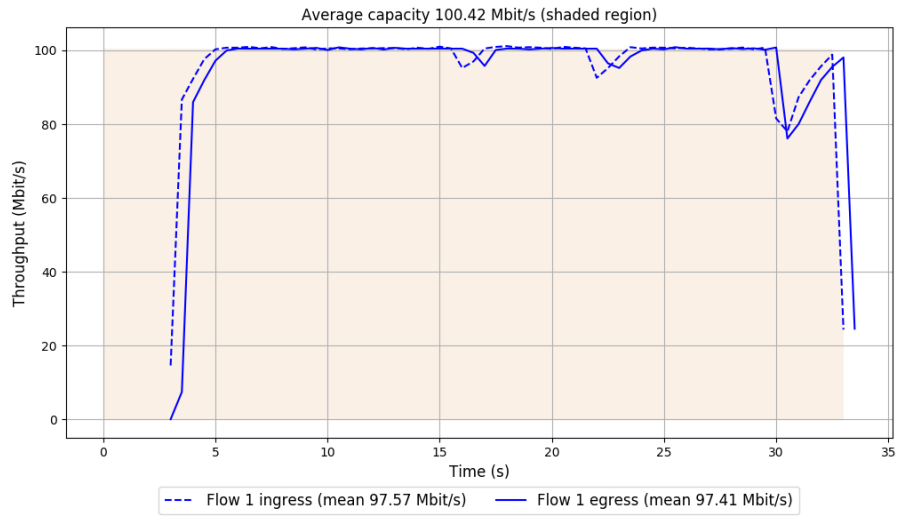
-- Flow 1:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 45.888 ms

Loss rate: 0.26%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-24 06:36:50

End at: 2018-07-24 06:37:20

Below is generated by plot.py at 2018-07-24 07:46:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 96.32 Mbit/s (95.9% utilization)

95th percentile per-packet one-way delay: 45.756 ms

Loss rate: 0.18%

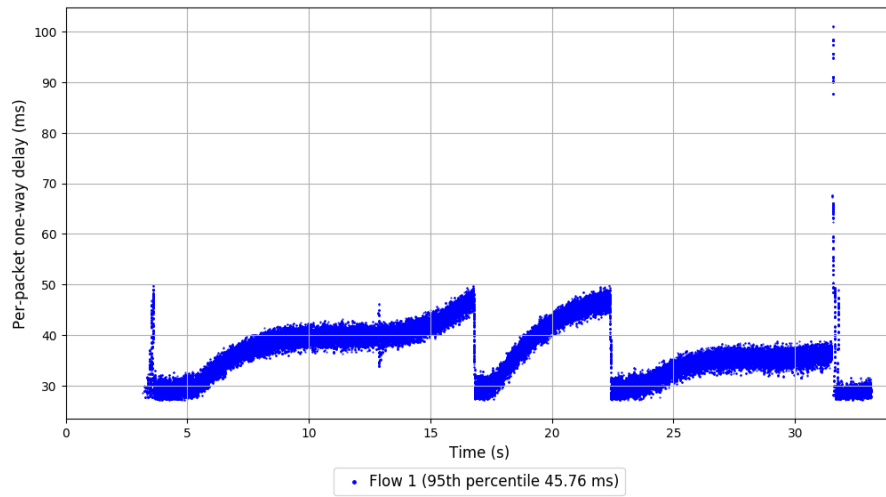
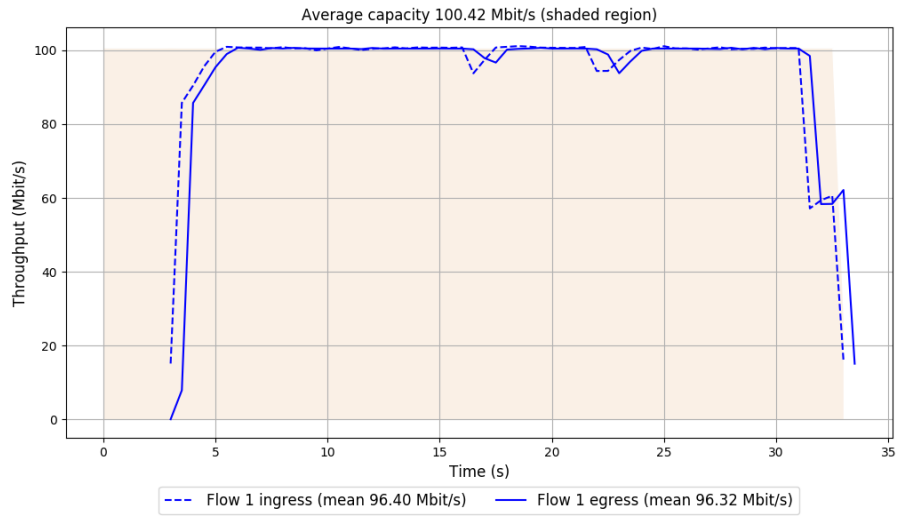
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 45.756 ms

Loss rate: 0.18%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-24 06:48:01

End at: 2018-07-24 06:48:31

Below is generated by plot.py at 2018-07-24 07:46:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.52 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 45.627 ms

Loss rate: 0.17%

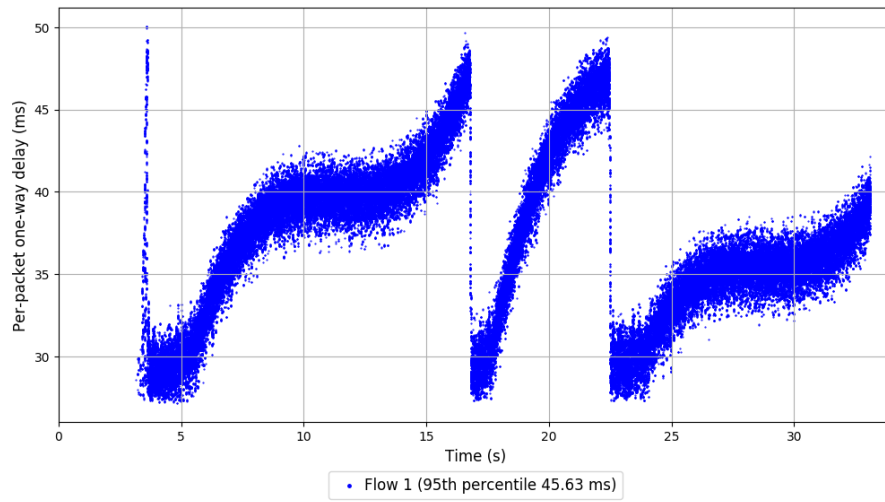
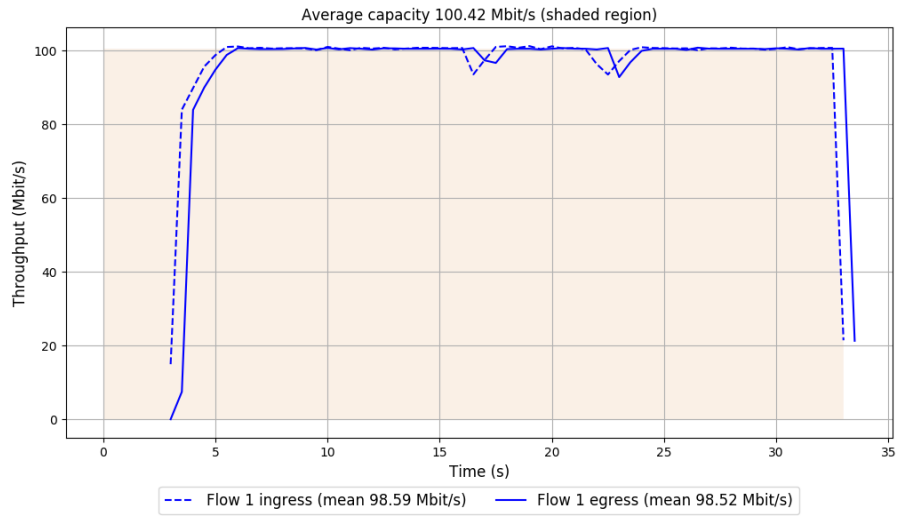
-- Flow 1:

Average throughput: 98.52 Mbit/s

95th percentile per-packet one-way delay: 45.627 ms

Loss rate: 0.17%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-24 06:59:12

End at: 2018-07-24 06:59:42

Below is generated by plot.py at 2018-07-24 07:46:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.99 Mbit/s (97.6% utilization)

95th percentile per-packet one-way delay: 45.820 ms

Loss rate: 0.32%

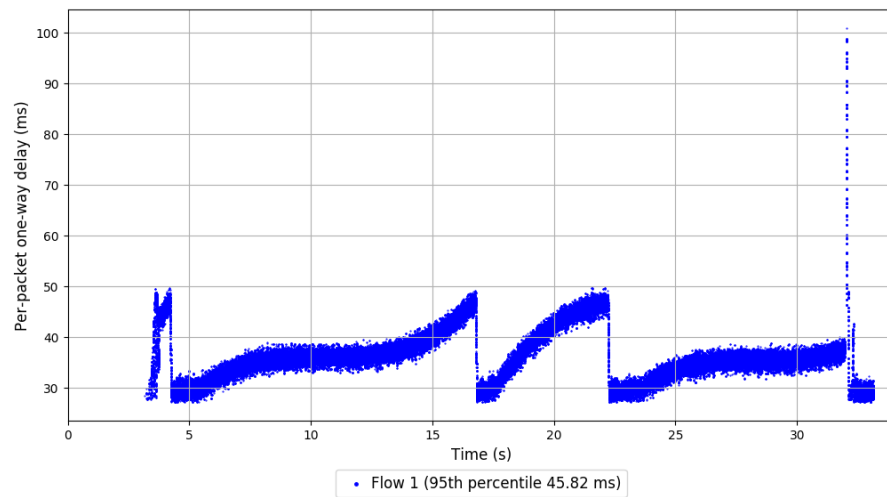
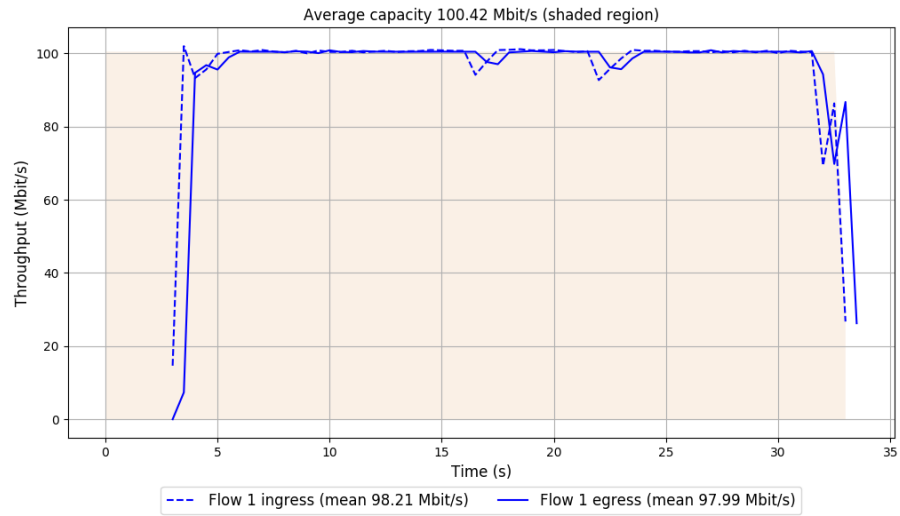
-- Flow 1:

Average throughput: 97.99 Mbit/s

95th percentile per-packet one-way delay: 45.820 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-24 07:10:22

End at: 2018-07-24 07:10:52

Below is generated by plot.py at 2018-07-24 07:46:39

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.54 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 45.494 ms

Loss rate: 0.13%

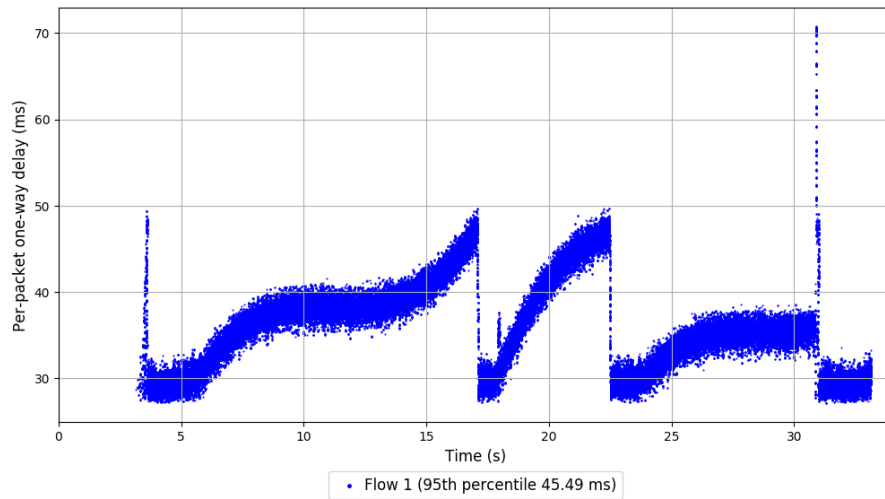
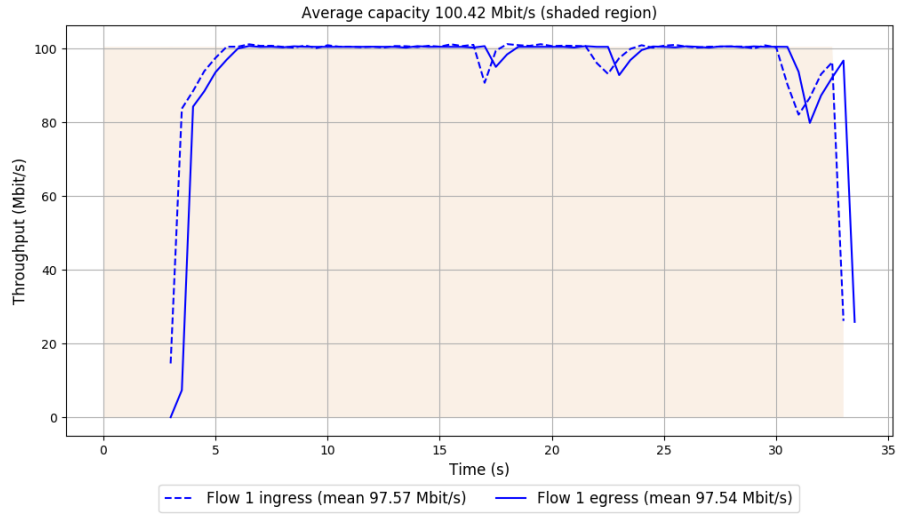
-- Flow 1:

Average throughput: 97.54 Mbit/s

95th percentile per-packet one-way delay: 45.494 ms

Loss rate: 0.13%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-24 07:21:32

End at: 2018-07-24 07:22:02

Below is generated by plot.py at 2018-07-24 07:46:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.58 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 45.514 ms

Loss rate: 0.17%

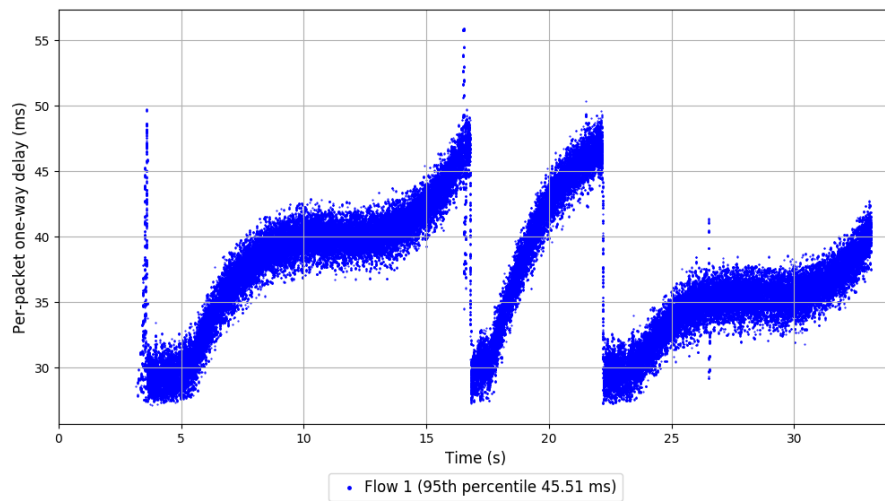
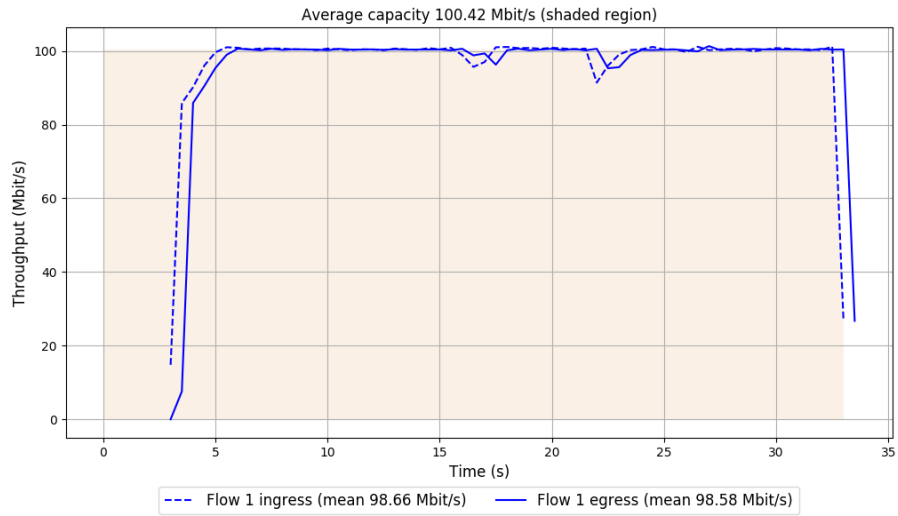
-- Flow 1:

Average throughput: 98.58 Mbit/s

95th percentile per-packet one-way delay: 45.514 ms

Loss rate: 0.17%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-24 05:42:31

End at: 2018-07-24 05:43:01

Below is generated by plot.py at 2018-07-24 07:47:41

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.27 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 44.731 ms

Loss rate: 9.32%

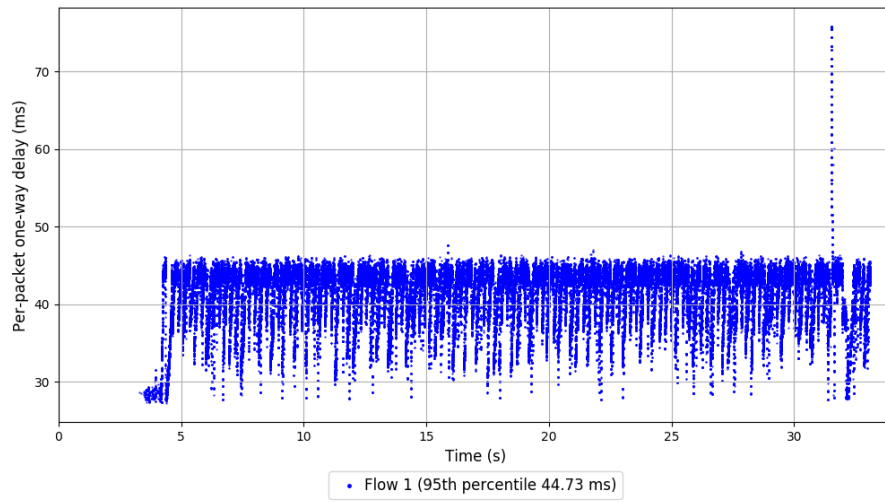
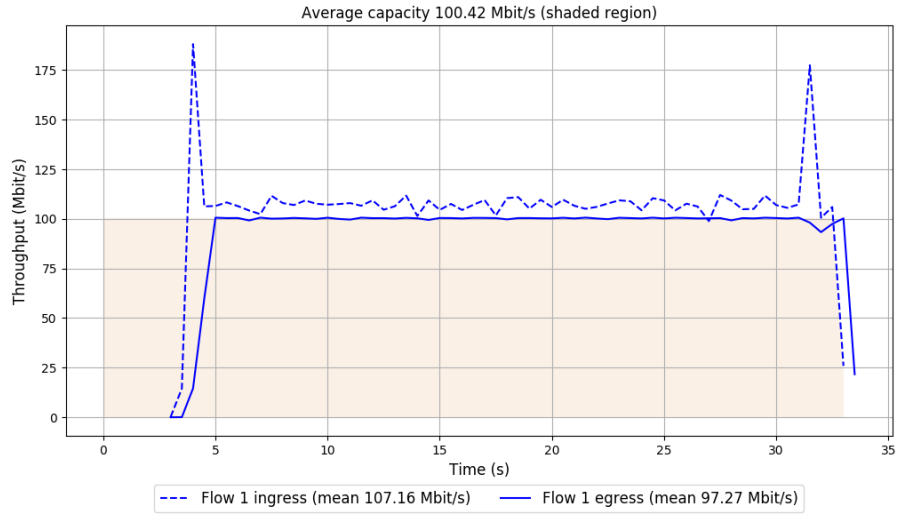
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 44.731 ms

Loss rate: 9.32%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-24 05:53:33

End at: 2018-07-24 05:54:03

Below is generated by plot.py at 2018-07-24 07:47:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.15 Mbit/s (96.7% utilization)

95th percentile per-packet one-way delay: 44.738 ms

Loss rate: 8.26%

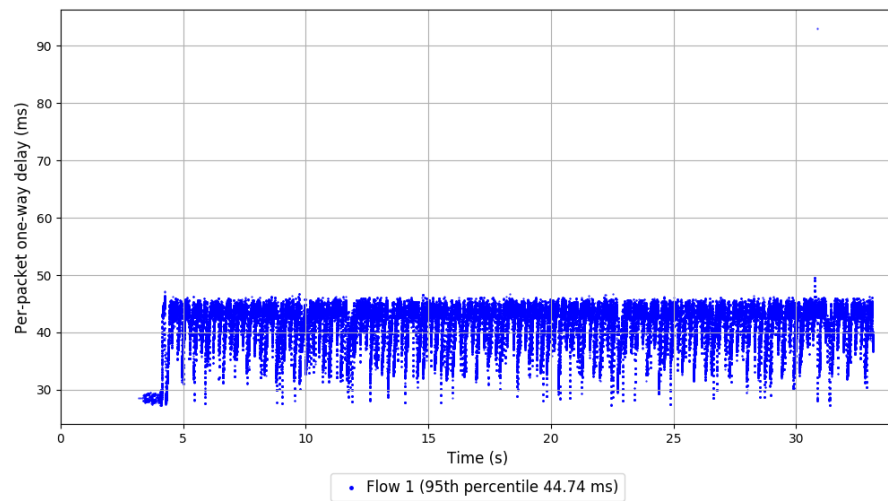
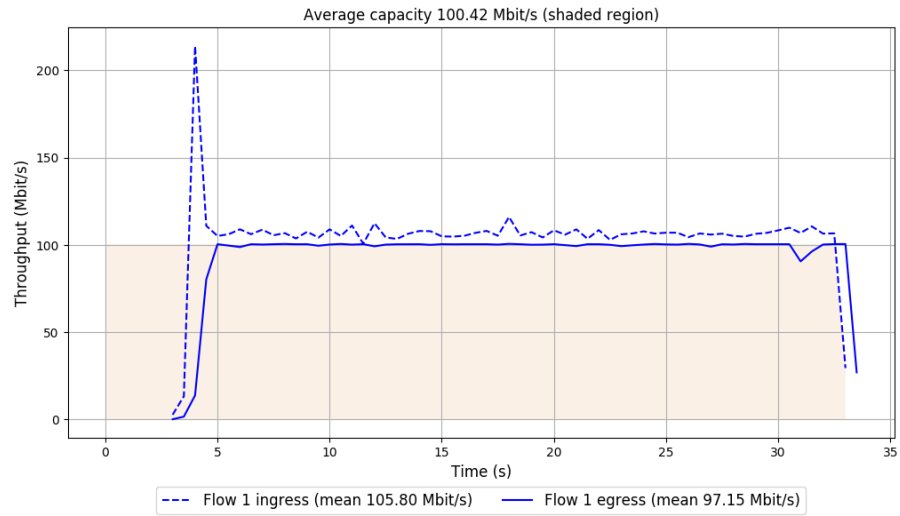
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 44.738 ms

Loss rate: 8.26%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-24 06:04:41

End at: 2018-07-24 06:05:11

Below is generated by plot.py at 2018-07-24 07:49:02

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.30 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 44.727 ms

Loss rate: 7.84%

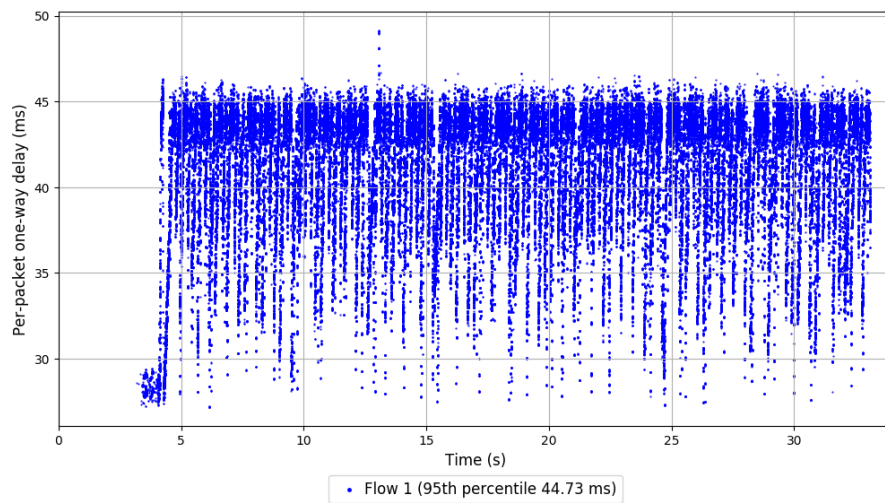
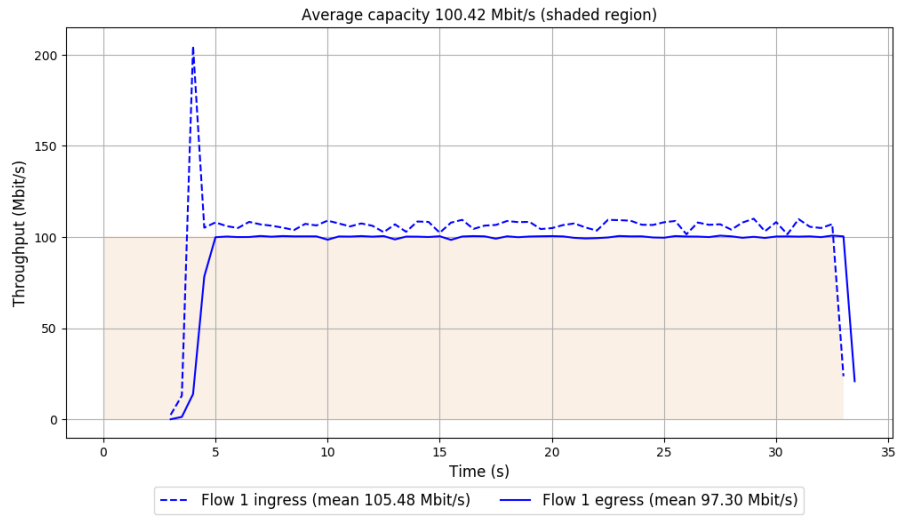
-- Flow 1:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 44.727 ms

Loss rate: 7.84%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-24 06:15:51

End at: 2018-07-24 06:16:21

Below is generated by plot.py at 2018-07-24 07:49:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.25 Mbit/s (96.8% utilization)

95th percentile per-packet one-way delay: 44.745 ms

Loss rate: 8.40%

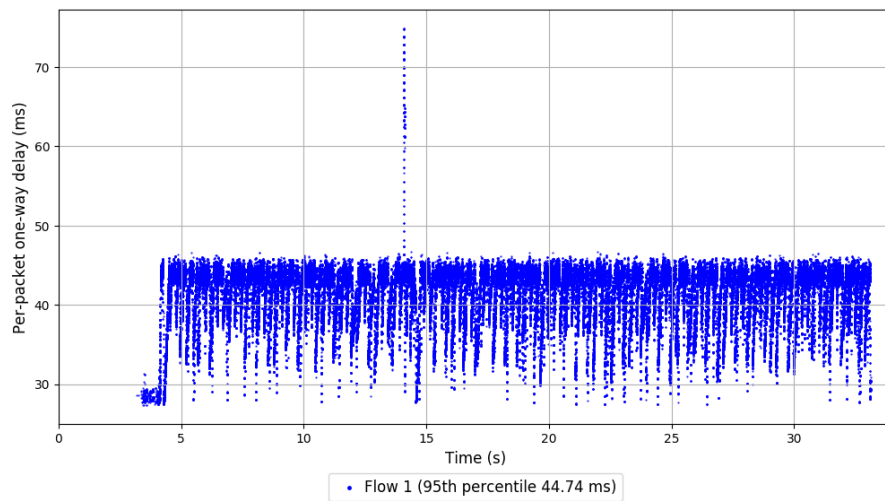
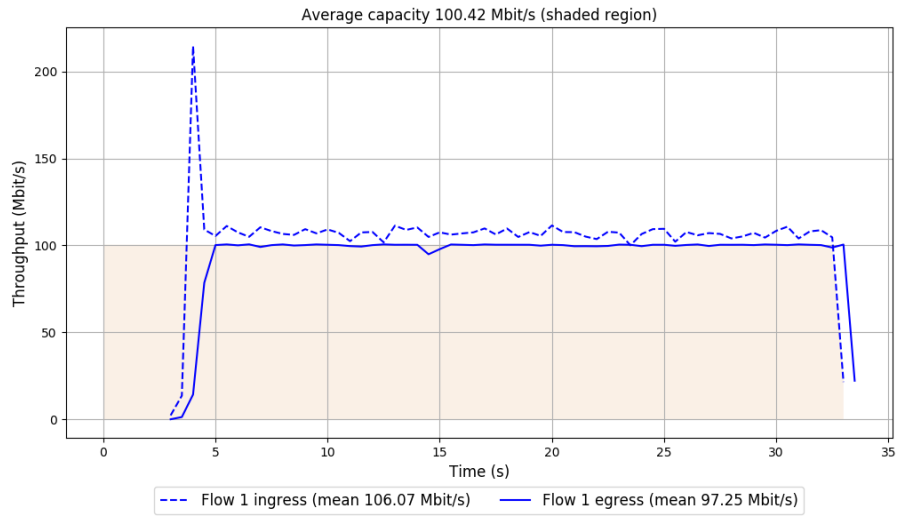
-- Flow 1:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 44.745 ms

Loss rate: 8.40%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-24 06:27:03

End at: 2018-07-24 06:27:33

Below is generated by plot.py at 2018-07-24 07:49:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.47 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 44.751 ms

Loss rate: 8.03%

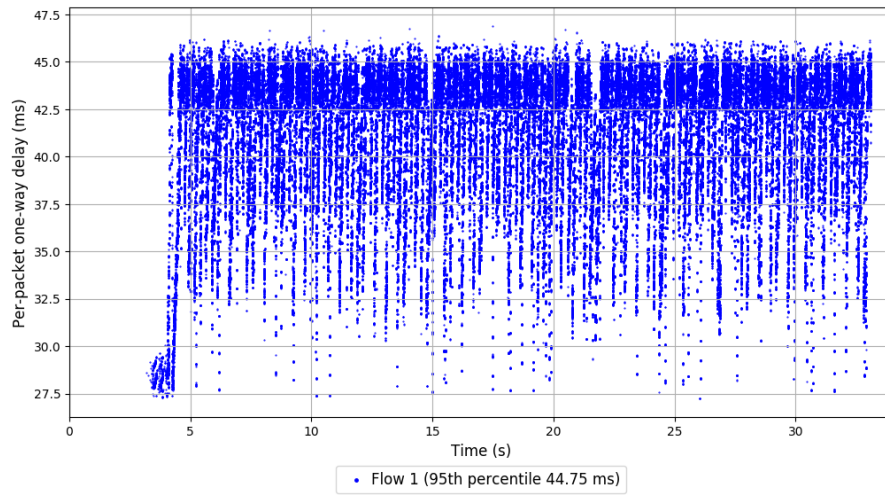
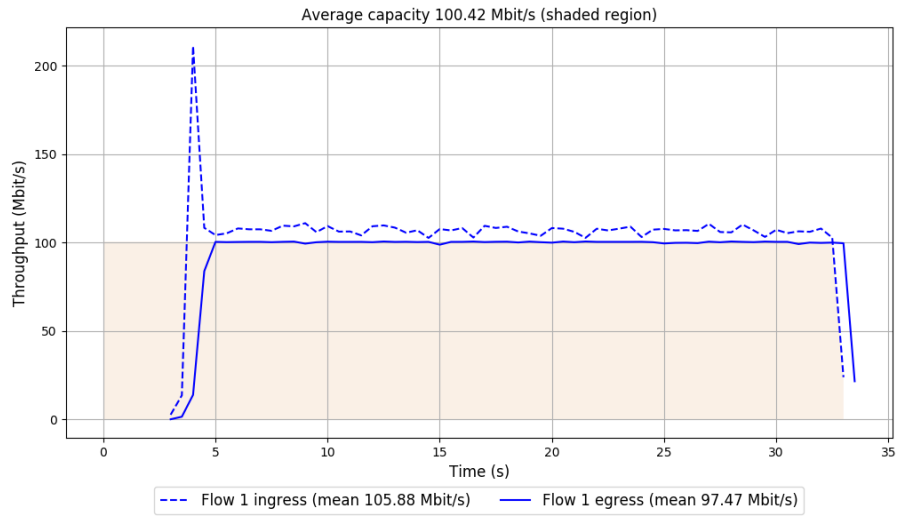
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 44.751 ms

Loss rate: 8.03%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-24 06:38:09

End at: 2018-07-24 06:38:39

Below is generated by plot.py at 2018-07-24 07:49:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.28 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 44.755 ms

Loss rate: 12.02%

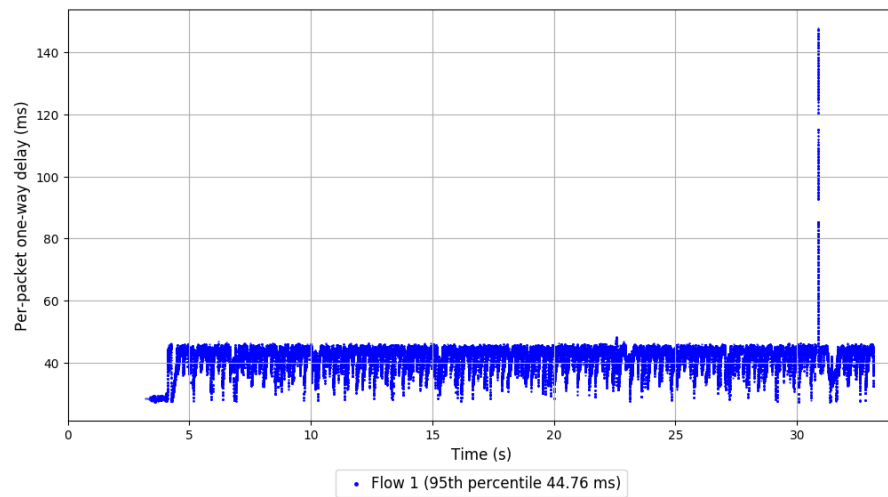
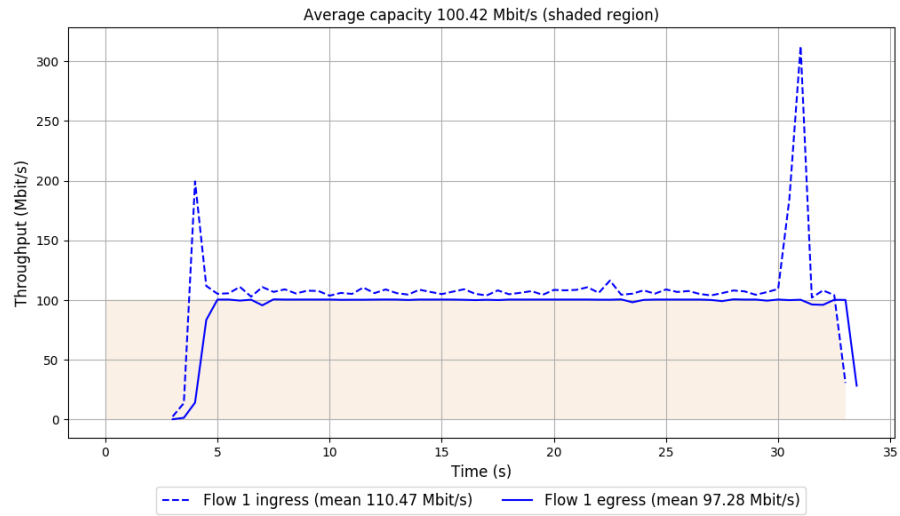
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 44.755 ms

Loss rate: 12.02%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-24 06:49:19

End at: 2018-07-24 06:49:49

Below is generated by plot.py at 2018-07-24 07:49:12

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.32 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 44.712 ms

Loss rate: 7.68%

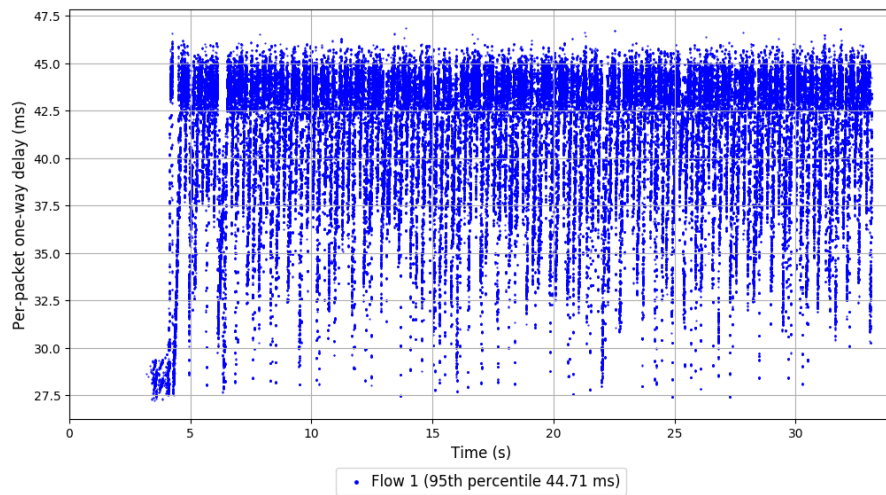
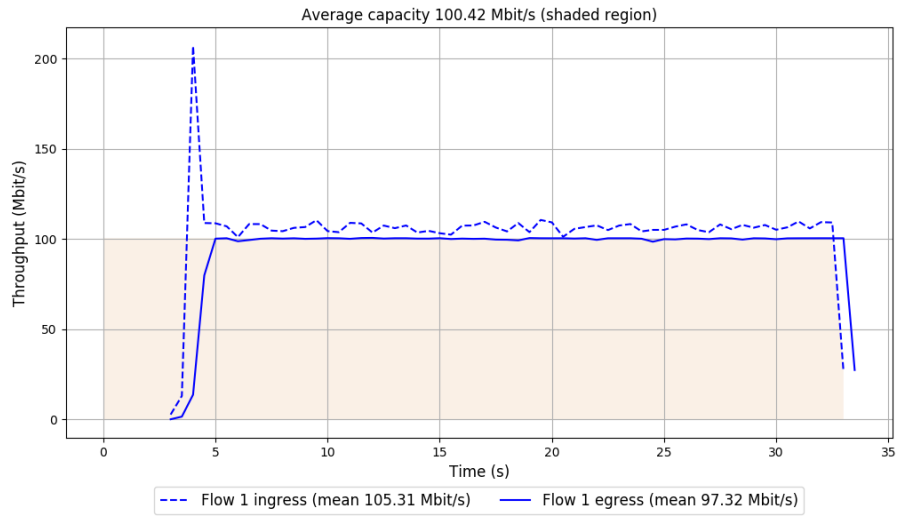
-- Flow 1:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 44.712 ms

Loss rate: 7.68%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-24 07:00:30

End at: 2018-07-24 07:01:00

Below is generated by plot.py at 2018-07-24 07:49:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.28 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 44.732 ms

Loss rate: 8.80%

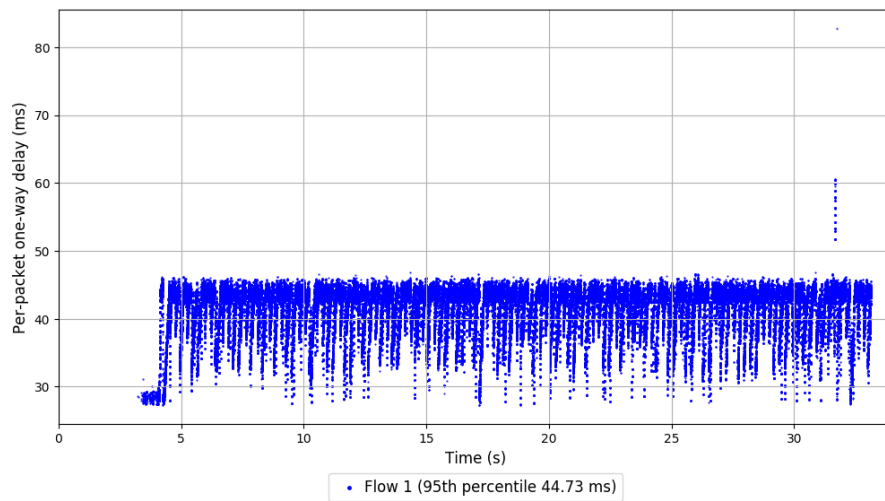
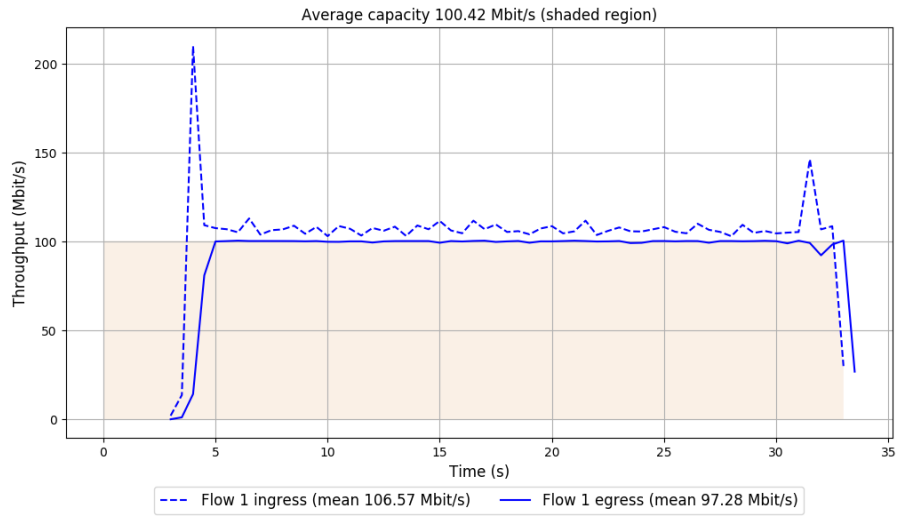
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 44.732 ms

Loss rate: 8.80%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-24 07:11:41

End at: 2018-07-24 07:12:11

Below is generated by plot.py at 2018-07-24 07:50:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 96.62 Mbit/s (96.2% utilization)

95th percentile per-packet one-way delay: 44.728 ms

Loss rate: 6.46%

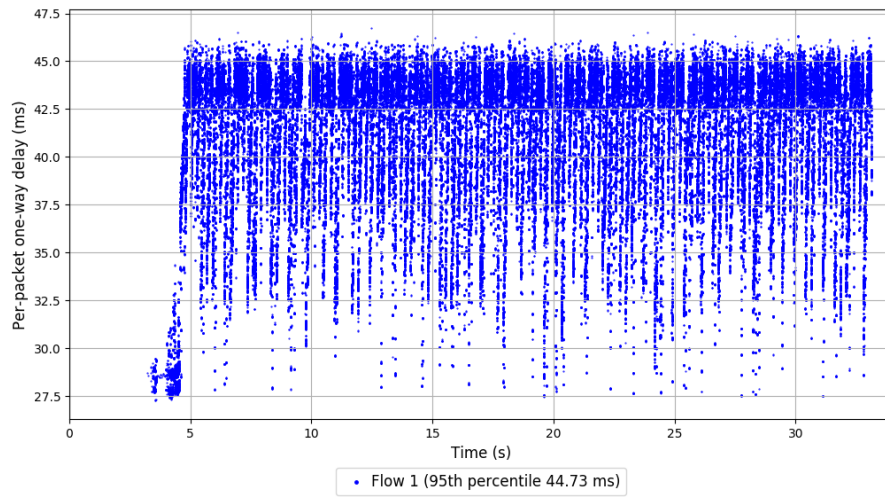
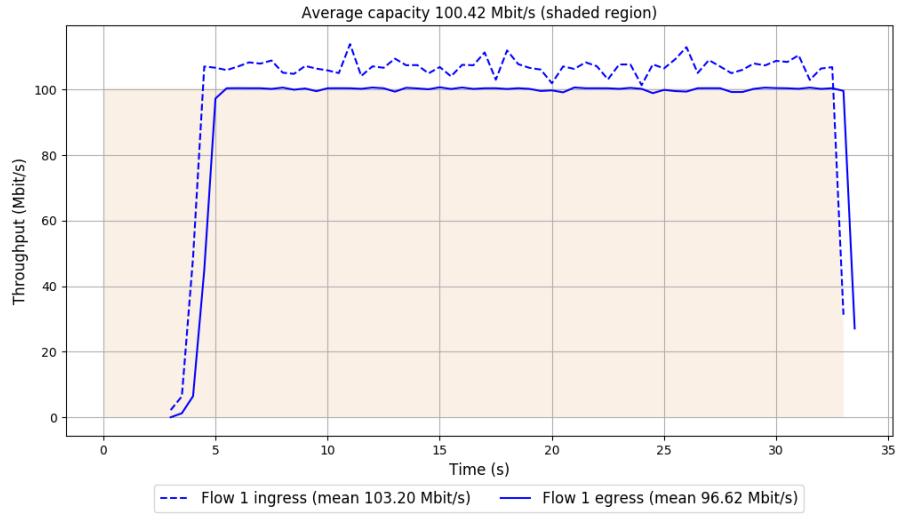
-- Flow 1:

Average throughput: 96.62 Mbit/s

95th percentile per-packet one-way delay: 44.728 ms

Loss rate: 6.46%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-24 07:22:51

End at: 2018-07-24 07:23:21

Below is generated by plot.py at 2018-07-24 07:50:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 96.91 Mbit/s (96.5% utilization)

95th percentile per-packet one-way delay: 44.720 ms

Loss rate: 5.99%

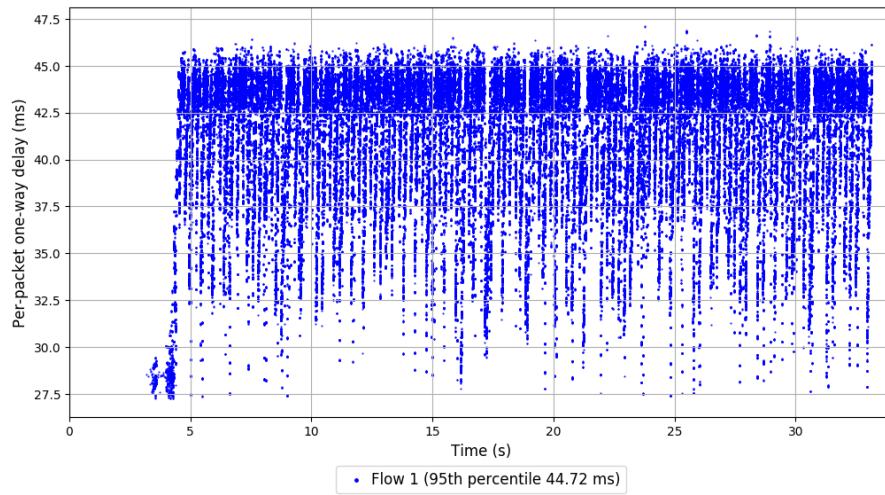
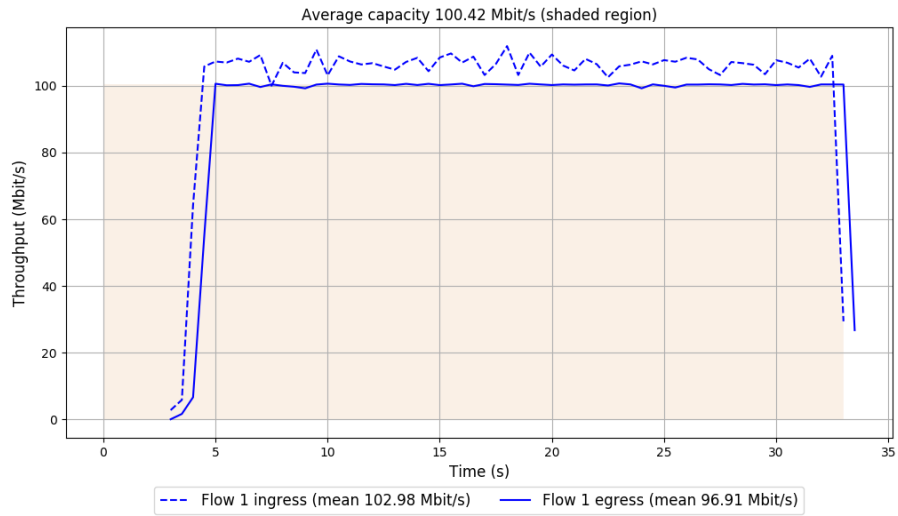
-- Flow 1:

Average throughput: 96.91 Mbit/s

95th percentile per-packet one-way delay: 44.720 ms

Loss rate: 5.99%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-24 05:47:02

End at: 2018-07-24 05:47:32

Below is generated by plot.py at 2018-07-24 07:51:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.89 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 44.731 ms

Loss rate: 6.05%

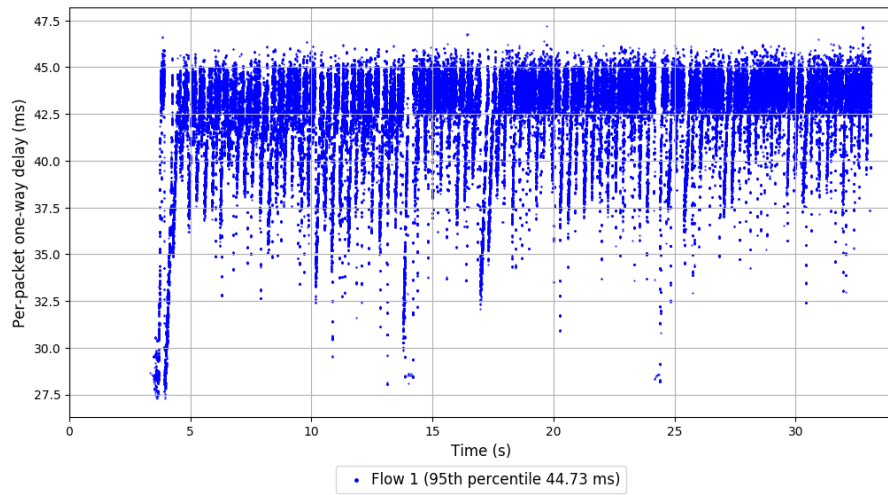
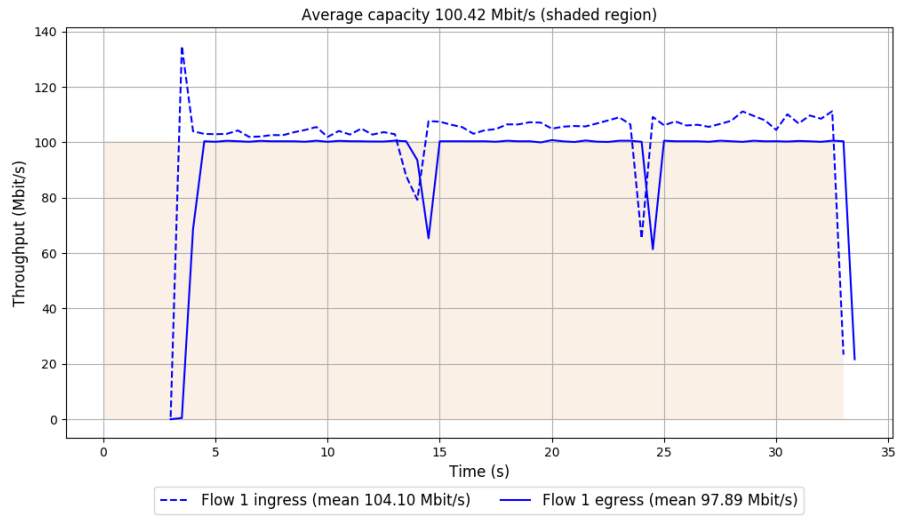
-- Flow 1:

Average throughput: 97.89 Mbit/s

95th percentile per-packet one-way delay: 44.731 ms

Loss rate: 6.05%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-24 05:58:03

End at: 2018-07-24 05:58:33

Below is generated by plot.py at 2018-07-24 07:51:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.90 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 44.778 ms

Loss rate: 6.28%

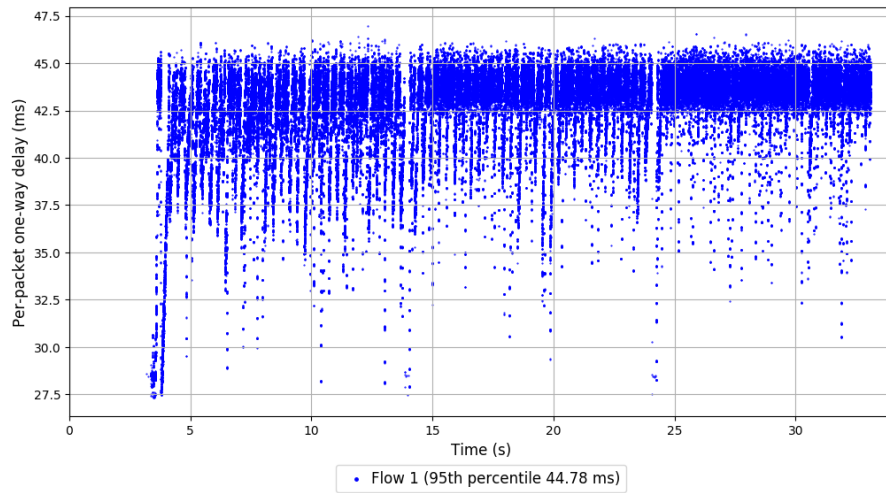
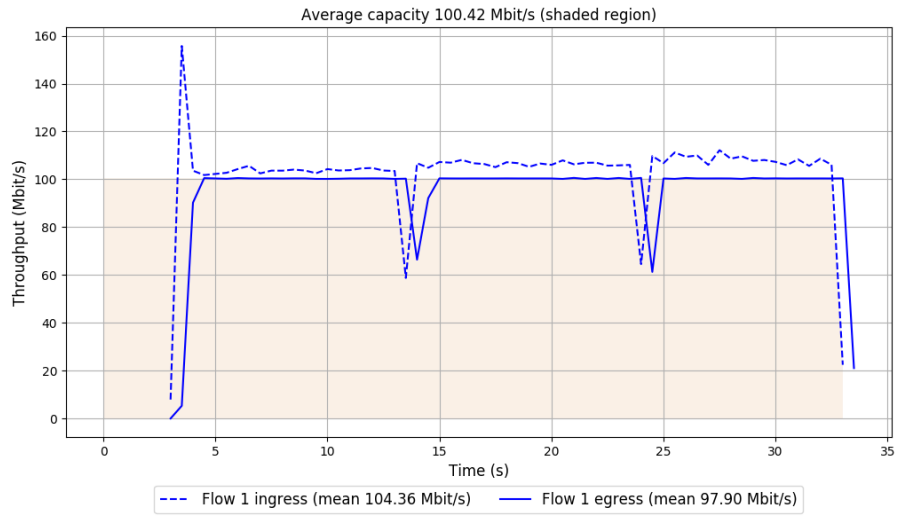
-- Flow 1:

Average throughput: 97.90 Mbit/s

95th percentile per-packet one-way delay: 44.778 ms

Loss rate: 6.28%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-24 06:09:13

End at: 2018-07-24 06:09:43

Below is generated by plot.py at 2018-07-24 07:51:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.79 Mbit/s (97.4% utilization)

95th percentile per-packet one-way delay: 44.742 ms

Loss rate: 6.53%

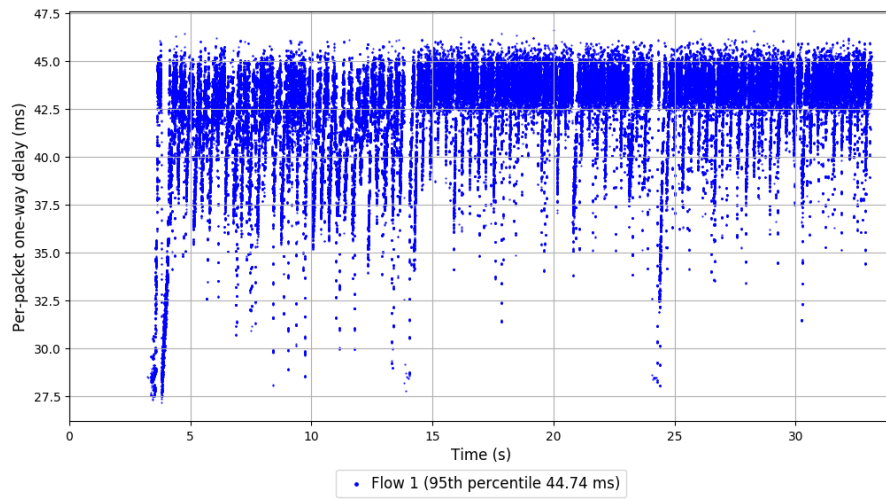
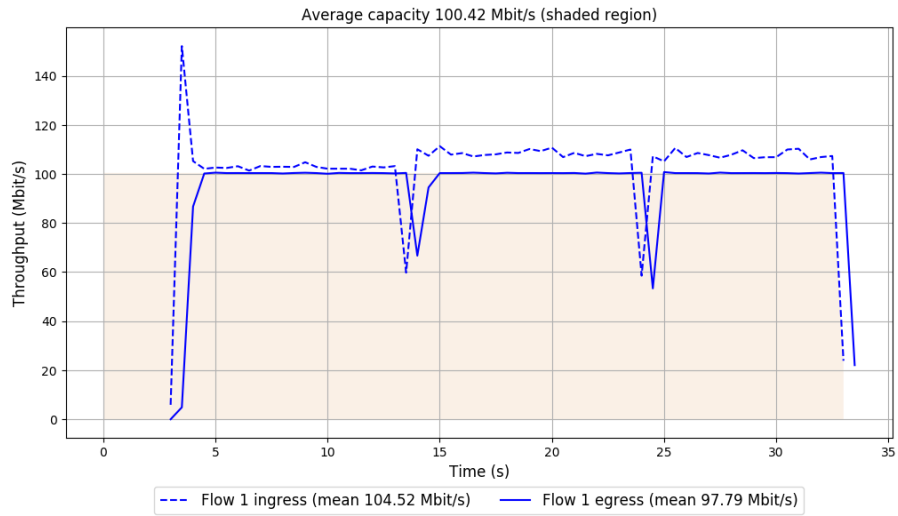
-- Flow 1:

Average throughput: 97.79 Mbit/s

95th percentile per-packet one-way delay: 44.742 ms

Loss rate: 6.53%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-24 06:20:23

End at: 2018-07-24 06:20:53

Below is generated by plot.py at 2018-07-24 07:51:40

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.73 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 44.763 ms

Loss rate: 6.84%

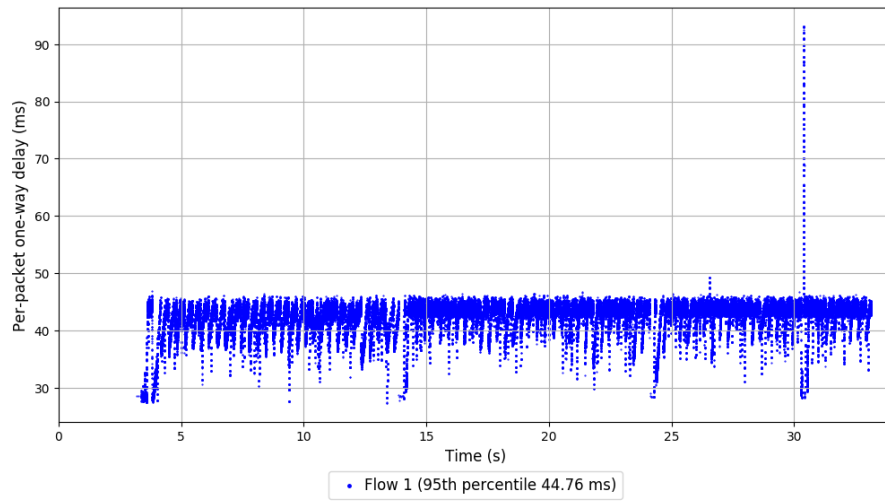
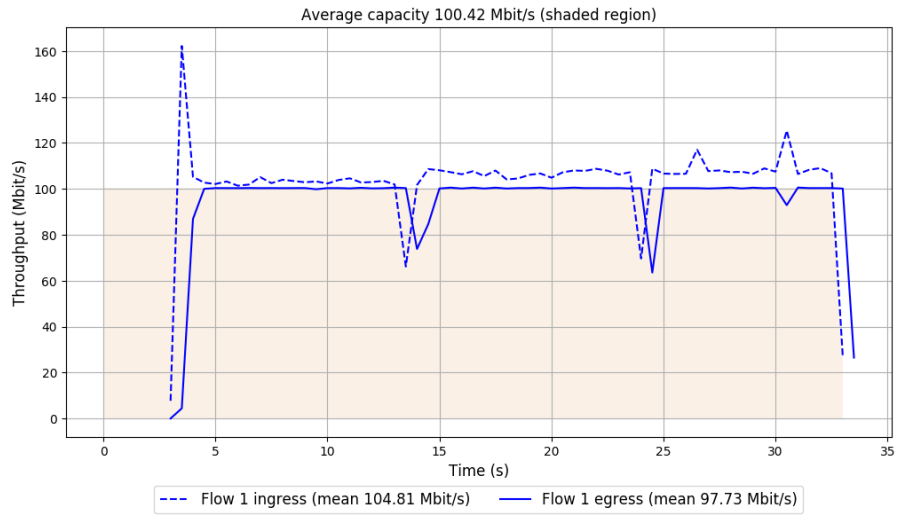
-- Flow 1:

Average throughput: 97.73 Mbit/s

95th percentile per-packet one-way delay: 44.763 ms

Loss rate: 6.84%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-24 06:31:30

End at: 2018-07-24 06:32:00

Below is generated by plot.py at 2018-07-24 07:51:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.52 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 44.759 ms

Loss rate: 6.68%

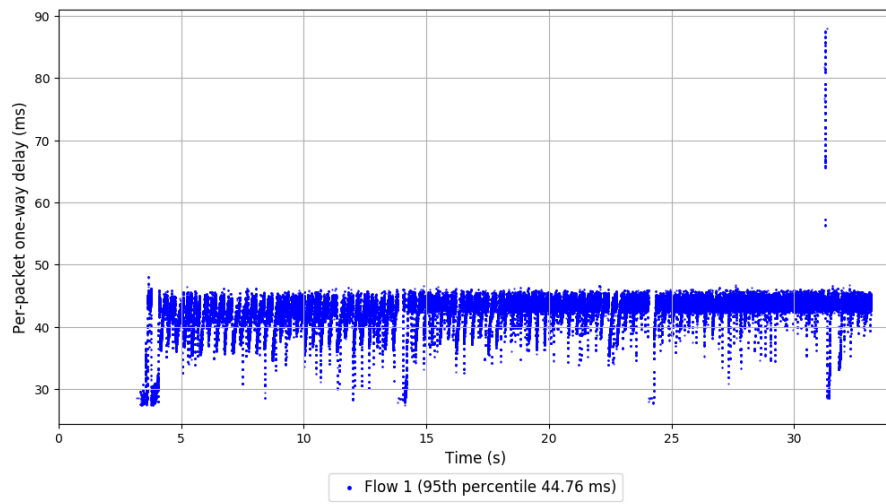
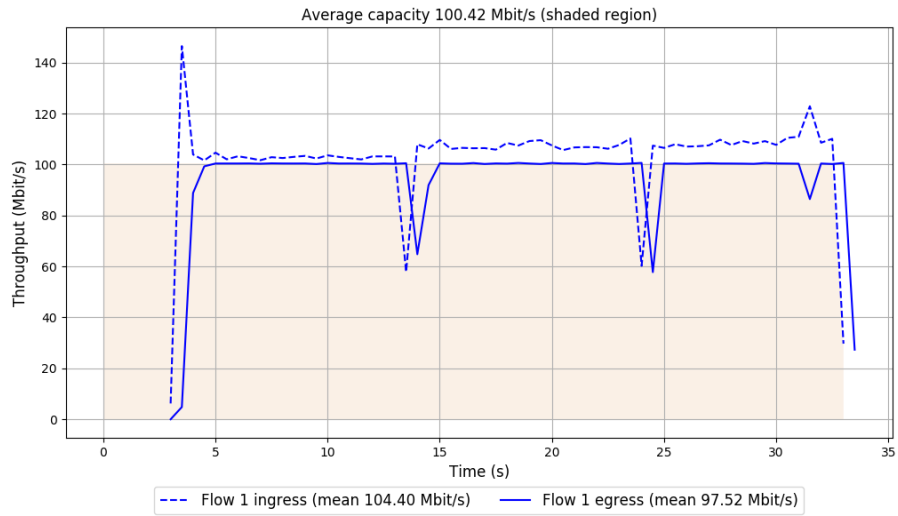
-- Flow 1:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 44.759 ms

Loss rate: 6.68%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-24 06:42:40

End at: 2018-07-24 06:43:10

Below is generated by plot.py at 2018-07-24 07:51:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.76 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 44.792 ms

Loss rate: 6.57%

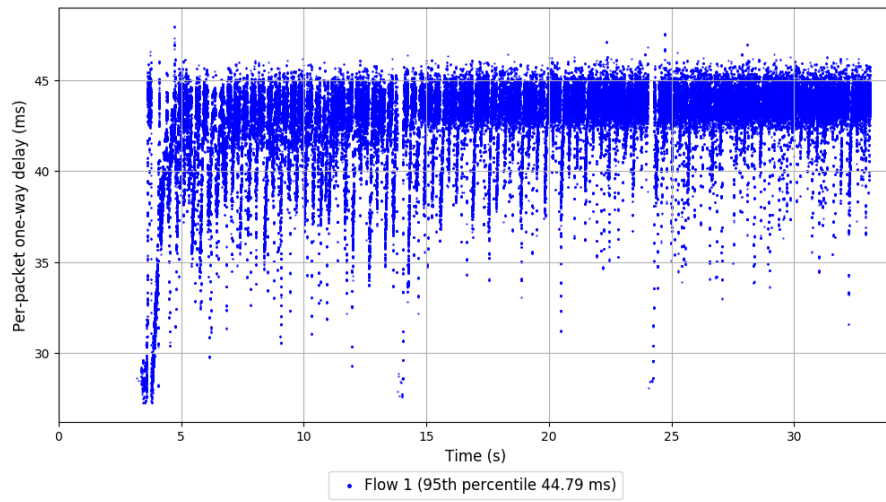
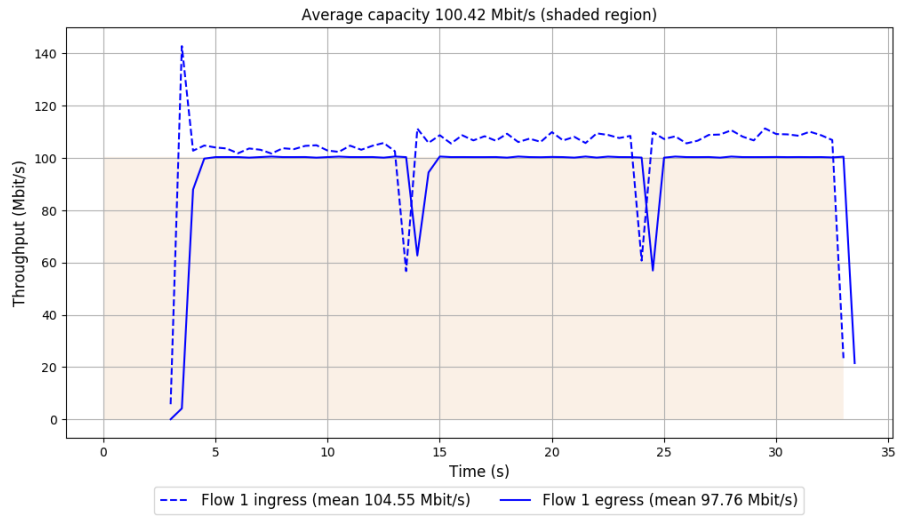
-- Flow 1:

Average throughput: 97.76 Mbit/s

95th percentile per-packet one-way delay: 44.792 ms

Loss rate: 6.57%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-24 06:53:50

End at: 2018-07-24 06:54:20

Below is generated by plot.py at 2018-07-24 07:52:49

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.88 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 44.766 ms

Loss rate: 6.71%

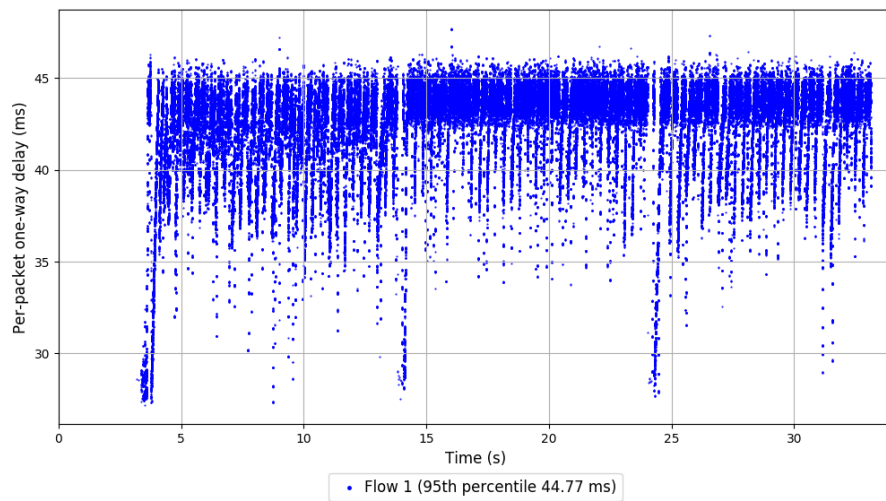
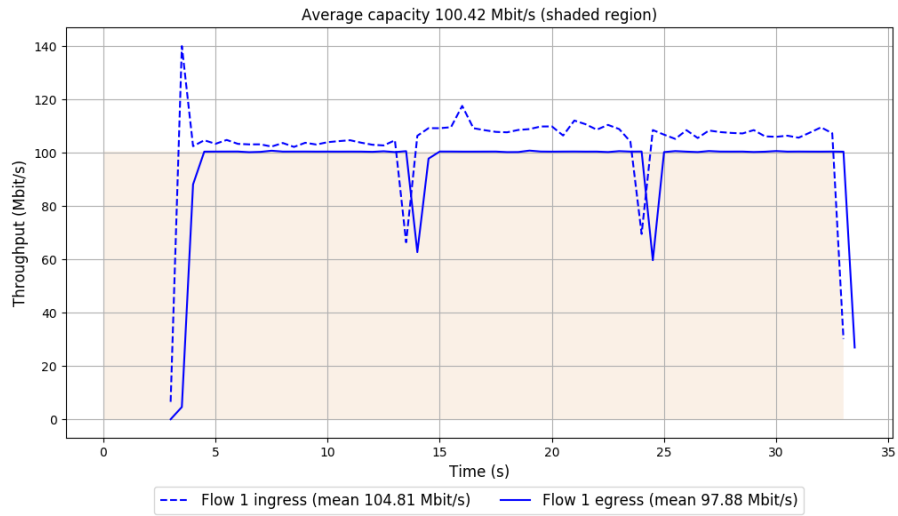
-- Flow 1:

Average throughput: 97.88 Mbit/s

95th percentile per-packet one-way delay: 44.766 ms

Loss rate: 6.71%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-24 07:05:01

End at: 2018-07-24 07:05:31

Below is generated by plot.py at 2018-07-24 07:52:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.48 Mbit/s (97.1% utilization)

95th percentile per-packet one-way delay: 44.783 ms

Loss rate: 6.99%

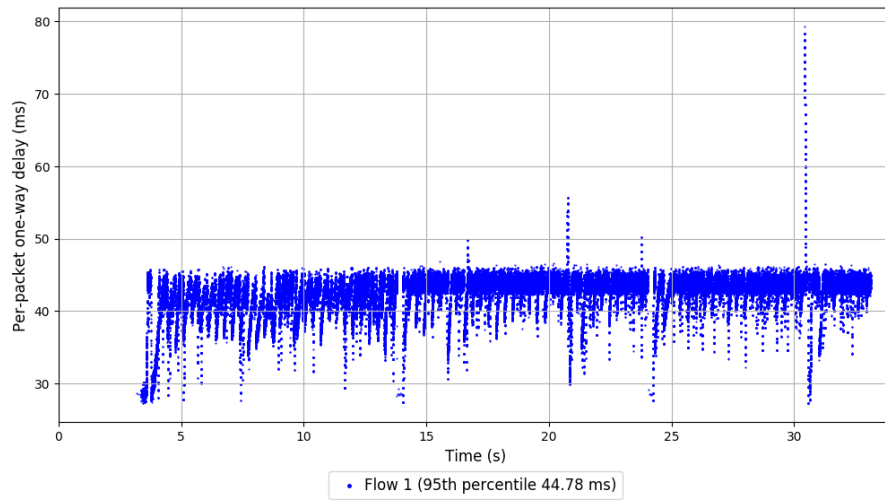
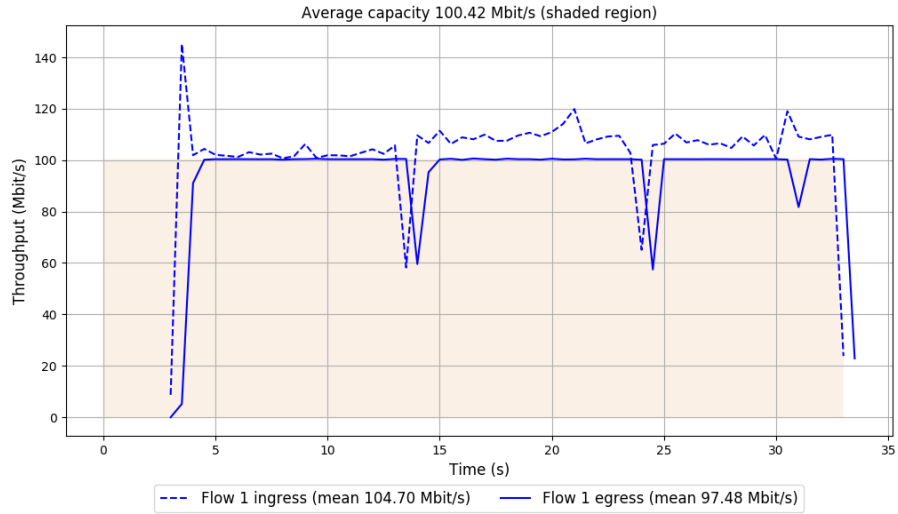
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 44.783 ms

Loss rate: 6.99%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-24 07:16:11

End at: 2018-07-24 07:16:41

Below is generated by plot.py at 2018-07-24 07:53:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.88 Mbit/s (97.5% utilization)

95th percentile per-packet one-way delay: 44.810 ms

Loss rate: 7.22%

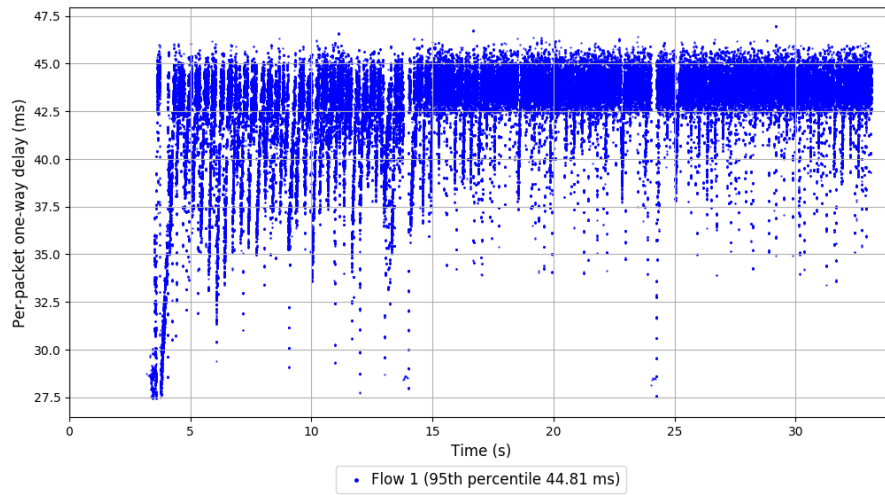
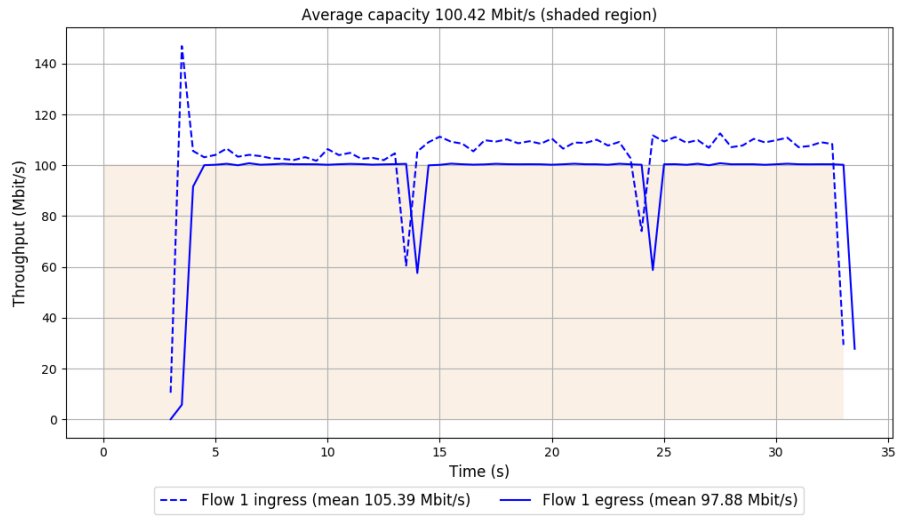
-- Flow 1:

Average throughput: 97.88 Mbit/s

95th percentile per-packet one-way delay: 44.810 ms

Loss rate: 7.22%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-24 07:27:22

End at: 2018-07-24 07:27:52

Below is generated by plot.py at 2018-07-24 07:54:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.66 Mbit/s (97.2% utilization)

95th percentile per-packet one-way delay: 44.799 ms

Loss rate: 7.22%

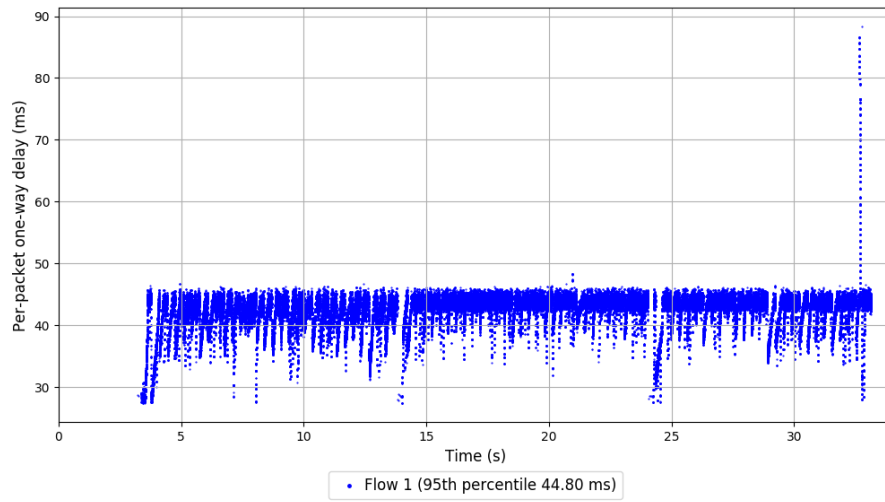
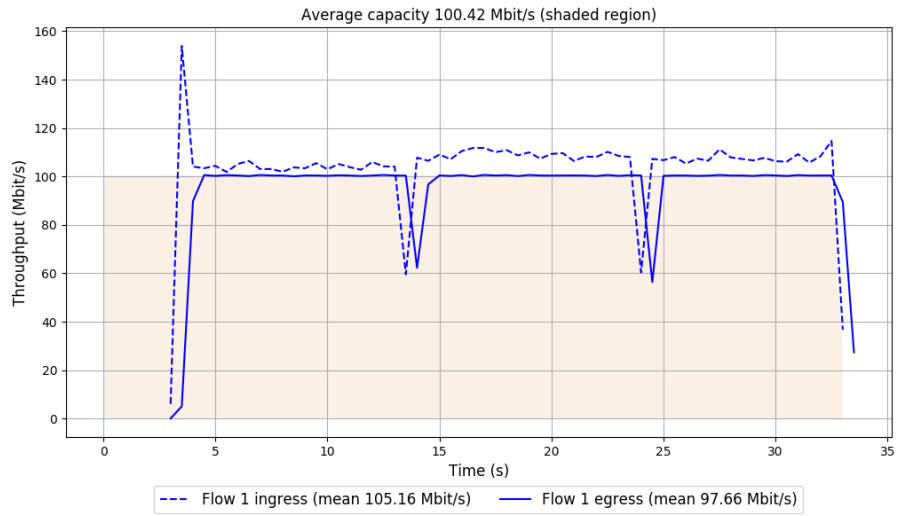
-- Flow 1:

Average throughput: 97.66 Mbit/s

95th percentile per-packet one-way delay: 44.799 ms

Loss rate: 7.22%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-07-24 05:51:40

End at: 2018-07-24 05:52:10

Below is generated by plot.py at 2018-07-24 07:54:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 8.54 Mbit/s (8.5% utilization)

95th percentile per-packet one-way delay: 31.283 ms

Loss rate: 0.39%

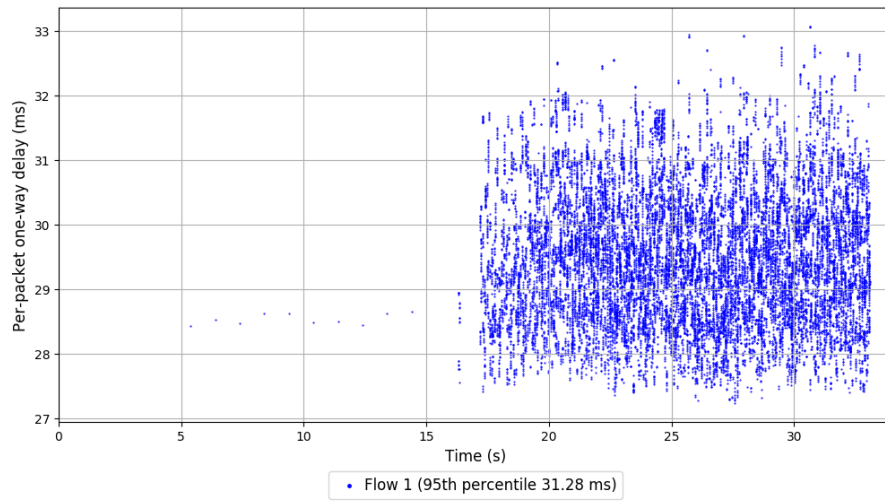
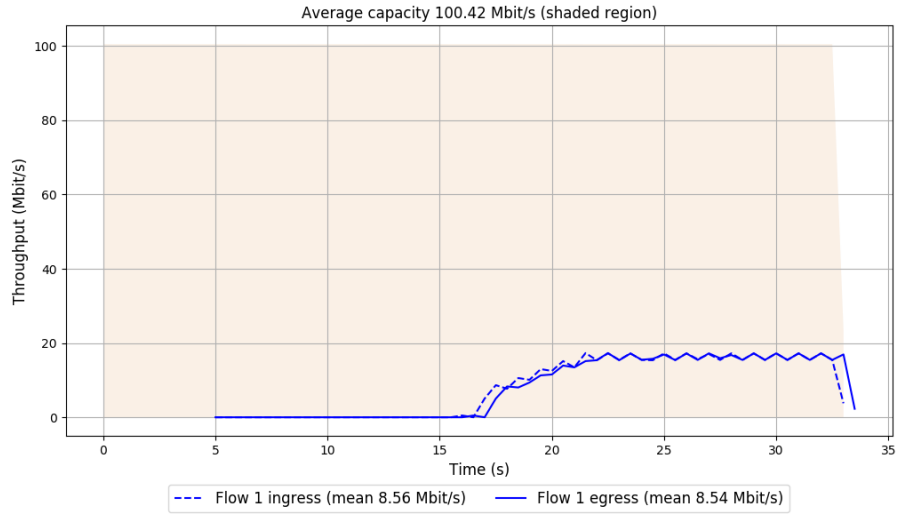
-- Flow 1:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 31.283 ms

Loss rate: 0.39%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-24 06:02:42

End at: 2018-07-24 06:03:12

Below is generated by plot.py at 2018-07-24 07:54:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.51 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 33.498 ms

Loss rate: 0.13%

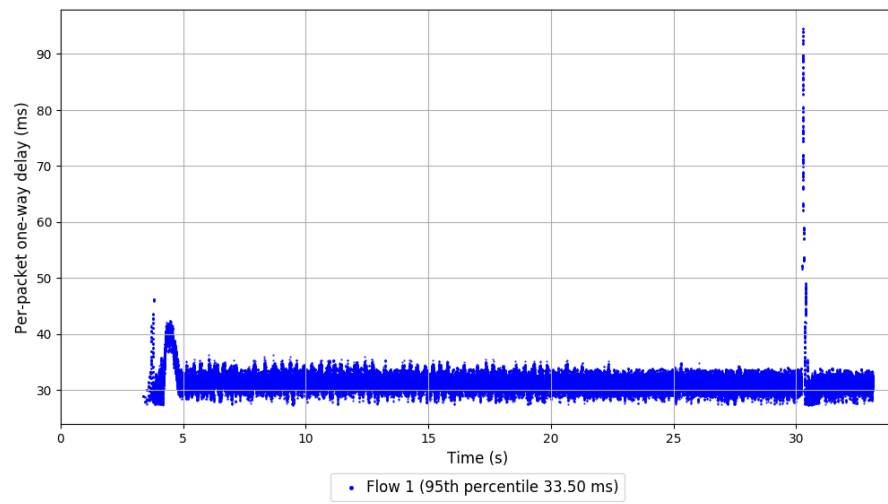
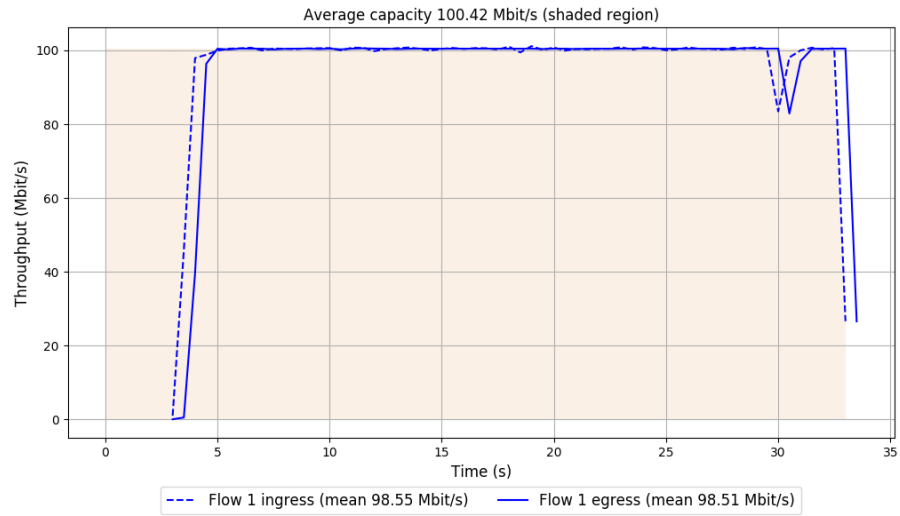
-- Flow 1:

Average throughput: 98.51 Mbit/s

95th percentile per-packet one-way delay: 33.498 ms

Loss rate: 0.13%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-24 06:13:52

End at: 2018-07-24 06:14:22

Below is generated by plot.py at 2018-07-24 07:54:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.08 Mbit/s (97.7% utilization)

95th percentile per-packet one-way delay: 32.556 ms

Loss rate: 0.11%

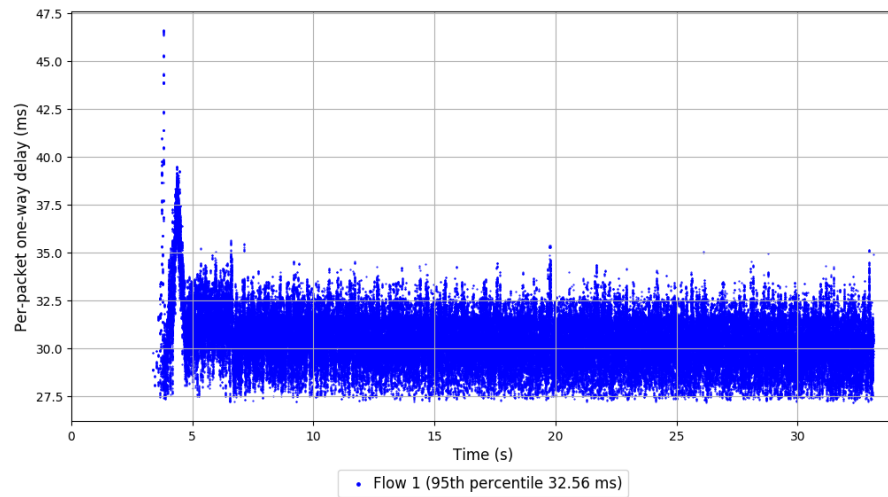
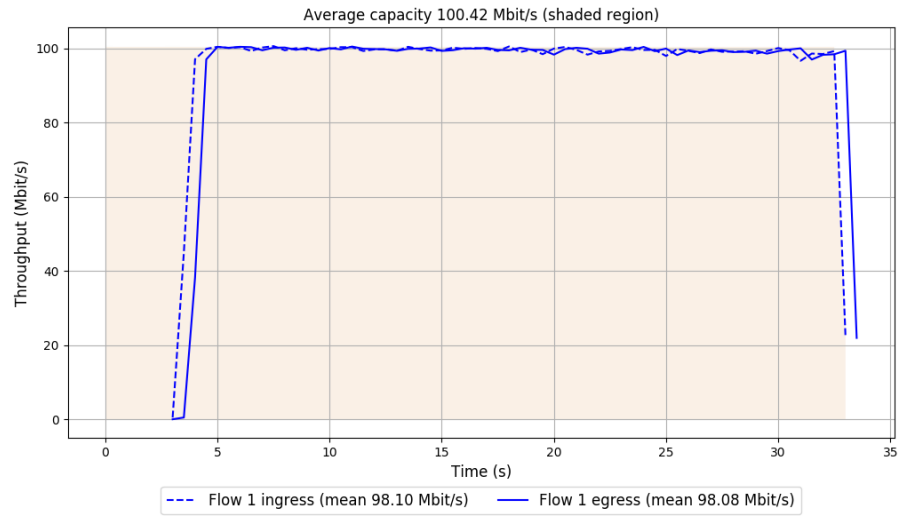
-- Flow 1:

Average throughput: 98.08 Mbit/s

95th percentile per-packet one-way delay: 32.556 ms

Loss rate: 0.11%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-24 06:25:03

End at: 2018-07-24 06:25:33

Below is generated by plot.py at 2018-07-24 07:54:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.21 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 33.282 ms

Loss rate: 0.23%

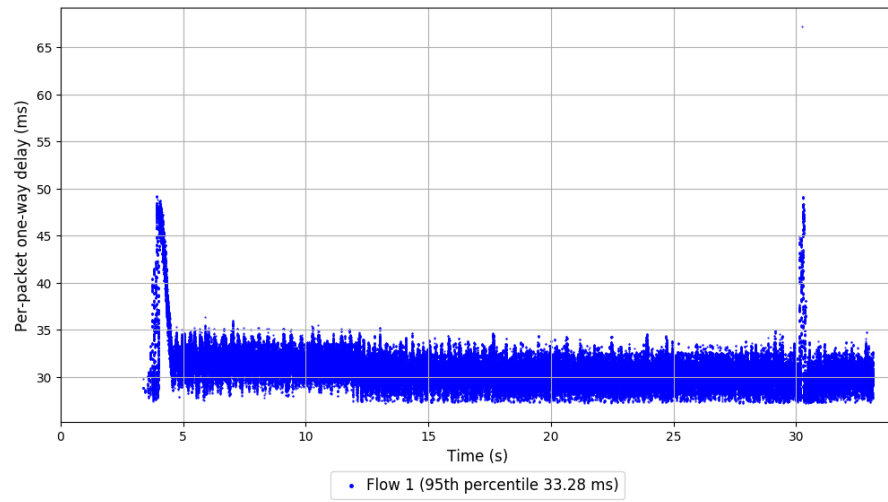
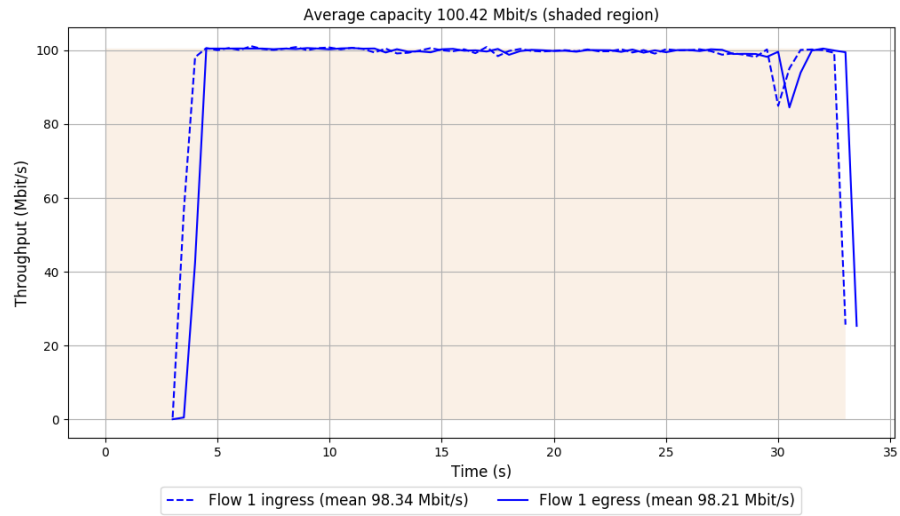
-- Flow 1:

Average throughput: 98.21 Mbit/s

95th percentile per-packet one-way delay: 33.282 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-24 06:36:09

End at: 2018-07-24 06:36:39

Below is generated by plot.py at 2018-07-24 07:54:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.48 Mbit/s (98.1% utilization)

95th percentile per-packet one-way delay: 33.657 ms

Loss rate: 0.13%

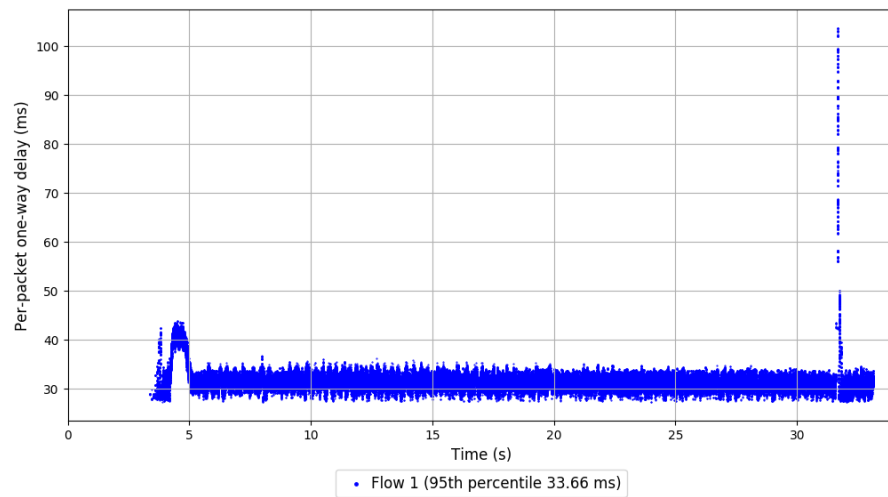
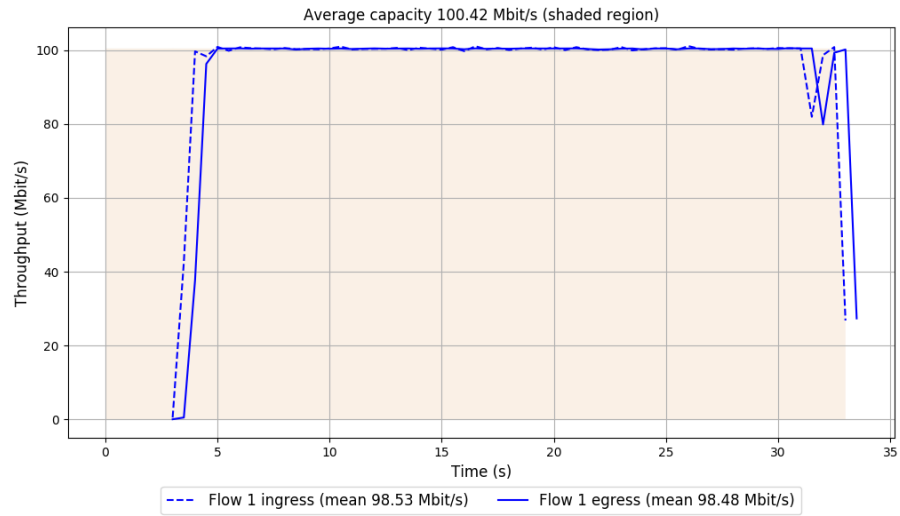
-- Flow 1:

Average throughput: 98.48 Mbit/s

95th percentile per-packet one-way delay: 33.657 ms

Loss rate: 0.13%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-24 06:47:20

End at: 2018-07-24 06:47:50

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

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 90.89 Mbit/s (90.5% utilization)

95th percentile per-packet one-way delay: 31.307 ms

Loss rate: 0.11%

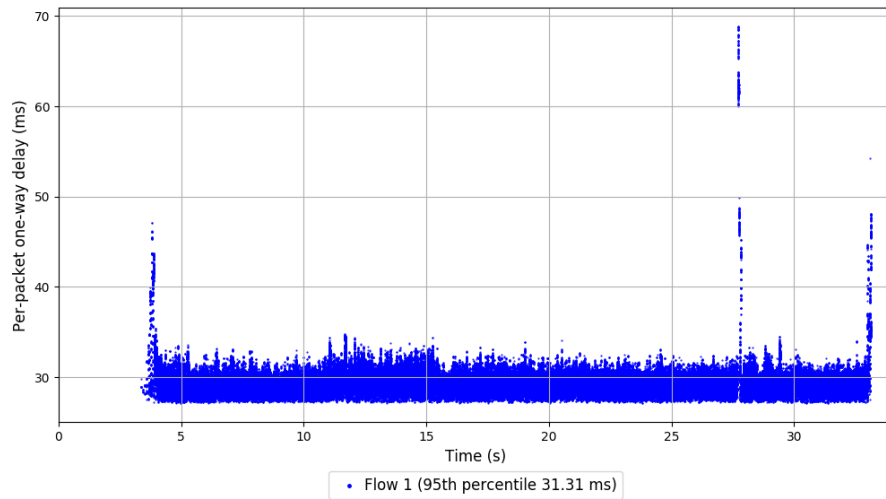
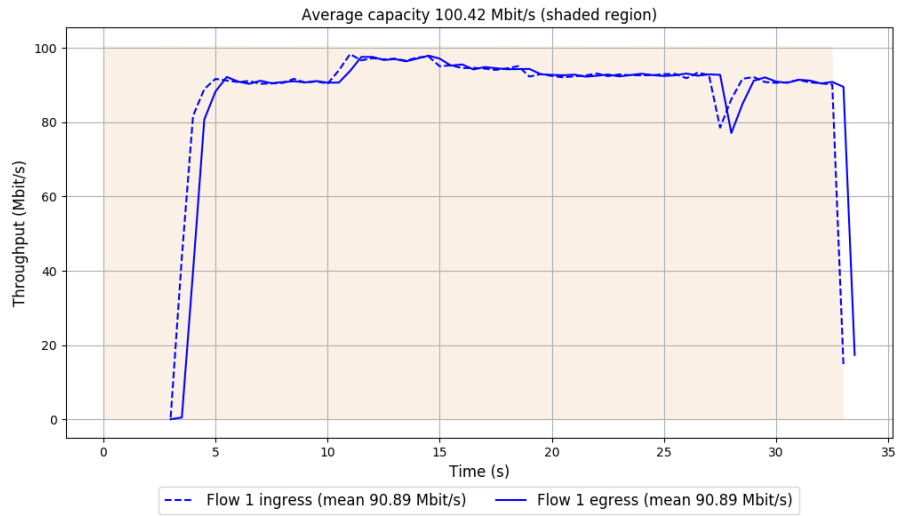
-- Flow 1:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 31.307 ms

Loss rate: 0.11%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-24 06:58:31

End at: 2018-07-24 06:59:01

Below is generated by plot.py at 2018-07-24 07:55:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.30 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 33.259 ms

Loss rate: 0.14%

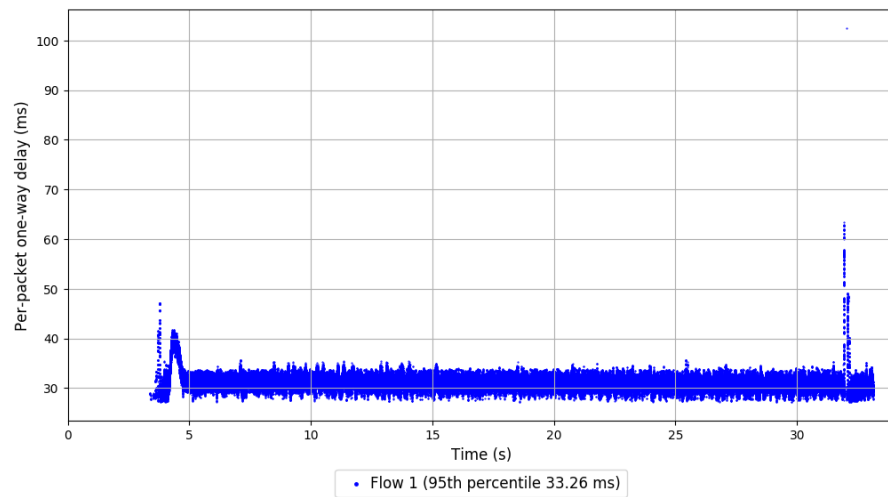
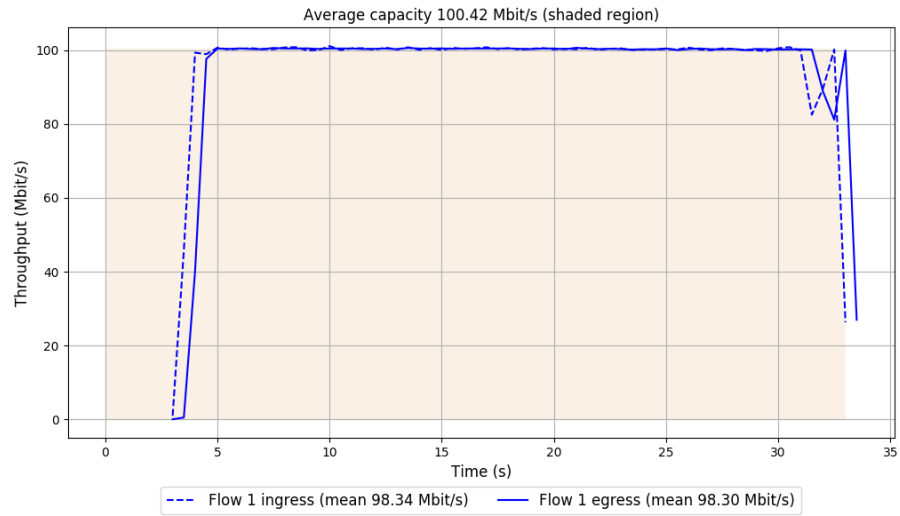
-- Flow 1:

Average throughput: 98.30 Mbit/s

95th percentile per-packet one-way delay: 33.259 ms

Loss rate: 0.14%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-24 07:09:40

End at: 2018-07-24 07:10:10

Below is generated by plot.py at 2018-07-24 07:55:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.33 Mbit/s (96.9% utilization)

95th percentile per-packet one-way delay: 32.317 ms

Loss rate: 0.17%

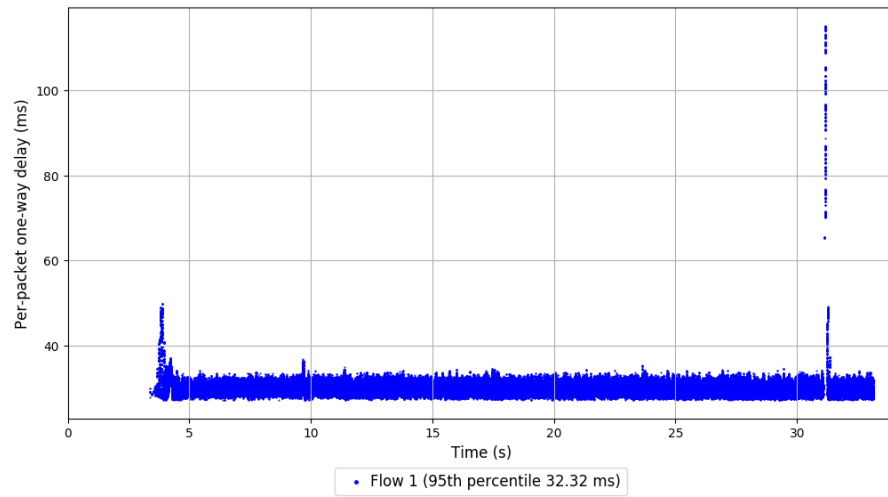
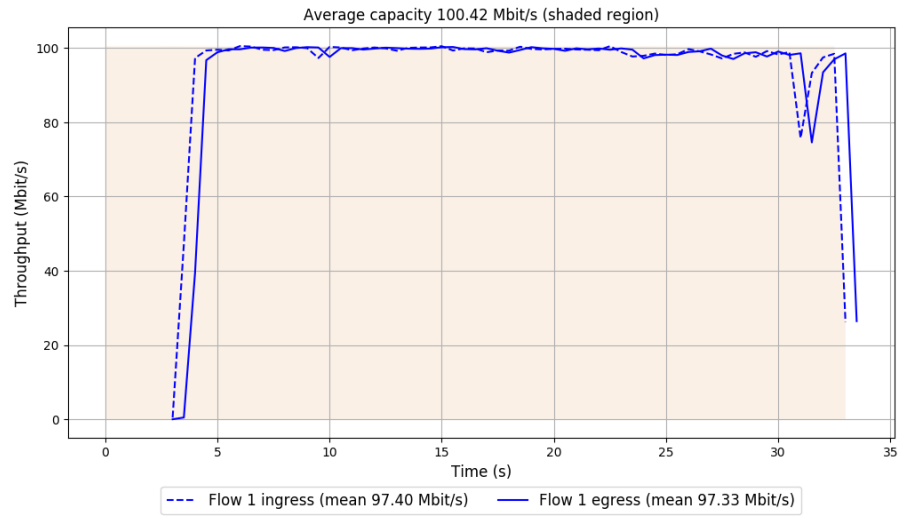
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 32.317 ms

Loss rate: 0.17%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-24 07:20:51

End at: 2018-07-24 07:21:21

Below is generated by plot.py at 2018-07-24 07:55:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 97.63 Mbit/s (97.2% utilization)

95th percentile per-packet one-way delay: 32.204 ms

Loss rate: 0.14%

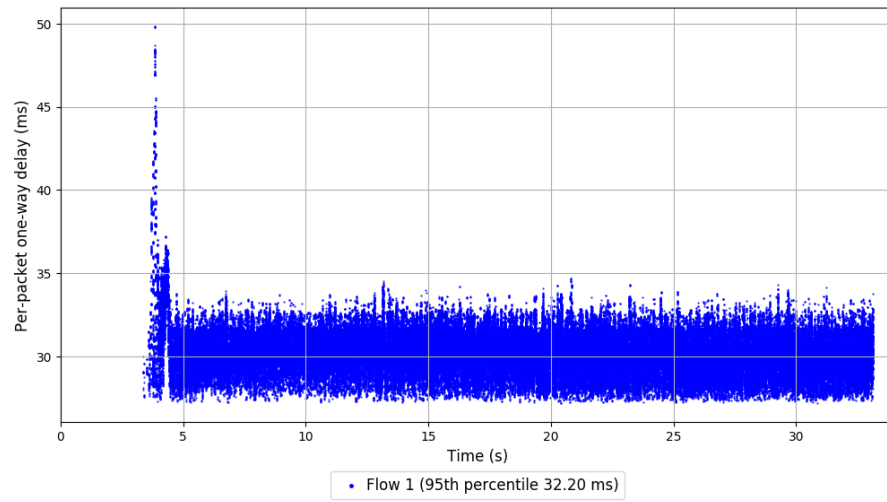
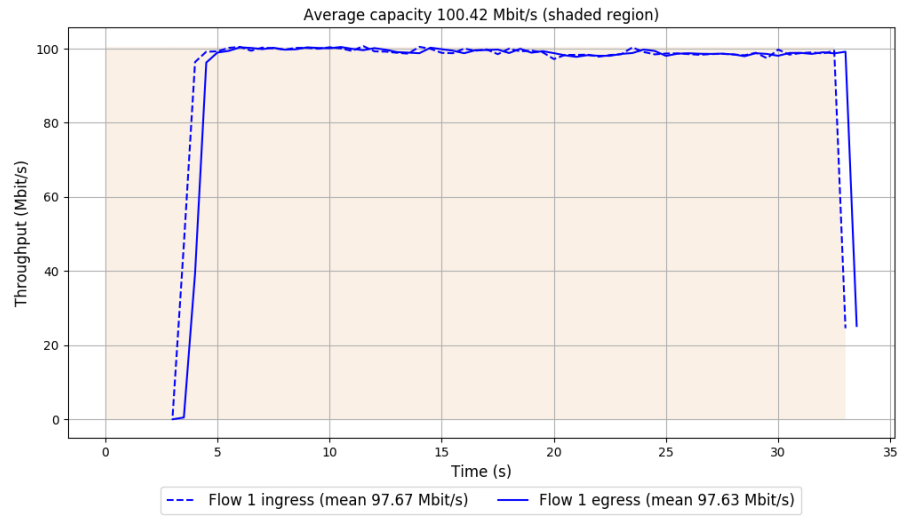
-- Flow 1:

Average throughput: 97.63 Mbit/s

95th percentile per-packet one-way delay: 32.204 ms

Loss rate: 0.14%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-24 07:32:02

End at: 2018-07-24 07:32:32

Below is generated by plot.py at 2018-07-24 07:55:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 98.22 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 32.748 ms

Loss rate: 0.20%

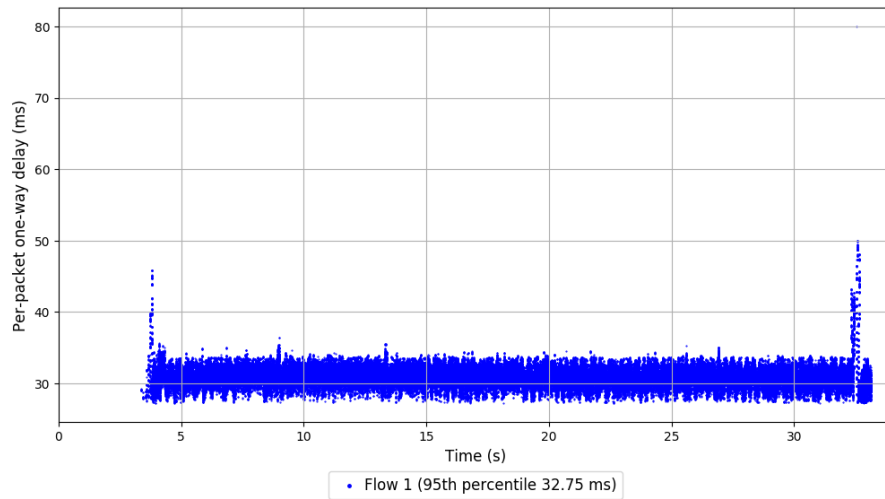
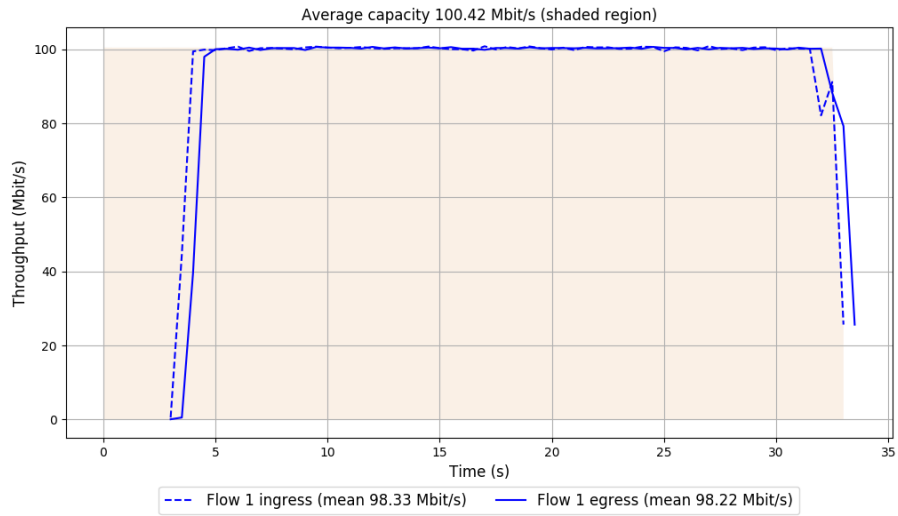
-- Flow 1:

Average throughput: 98.22 Mbit/s

95th percentile per-packet one-way delay: 32.748 ms

Loss rate: 0.20%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-24 05:45:44

End at: 2018-07-24 05:46:14

Below is generated by plot.py at 2018-07-24 07:55:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 66.79 Mbit/s (66.5% utilization)

95th percentile per-packet one-way delay: 44.524 ms

Loss rate: 0.18%

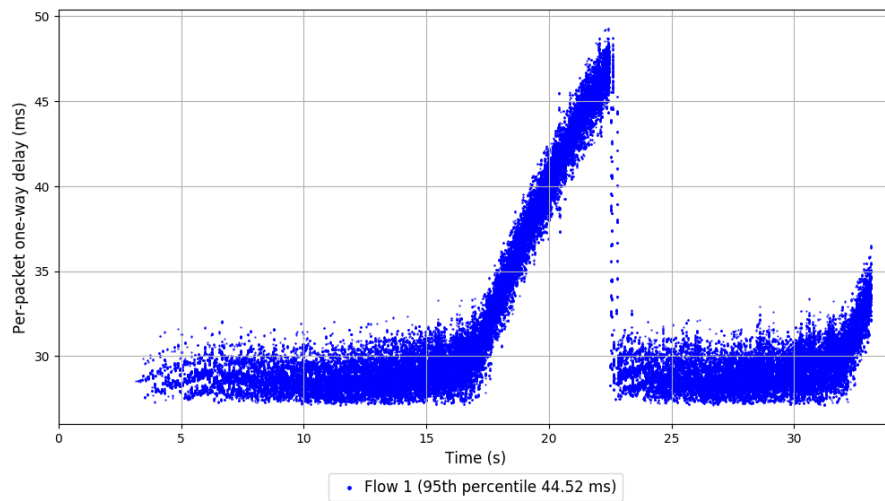
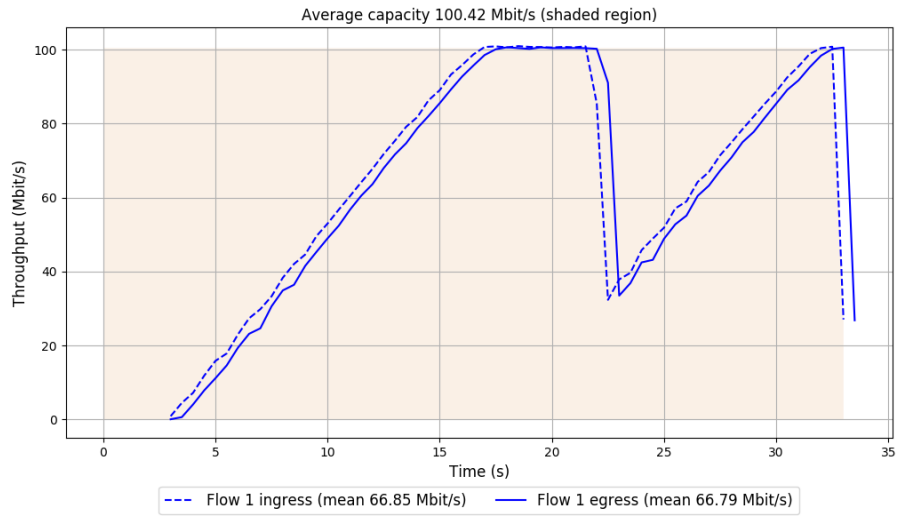
-- Flow 1:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 44.524 ms

Loss rate: 0.18%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-24 05:56:47

End at: 2018-07-24 05:57:17

Below is generated by plot.py at 2018-07-24 07:55:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 52.69 Mbit/s (52.5% utilization)

95th percentile per-packet one-way delay: 45.060 ms

Loss rate: 0.19%

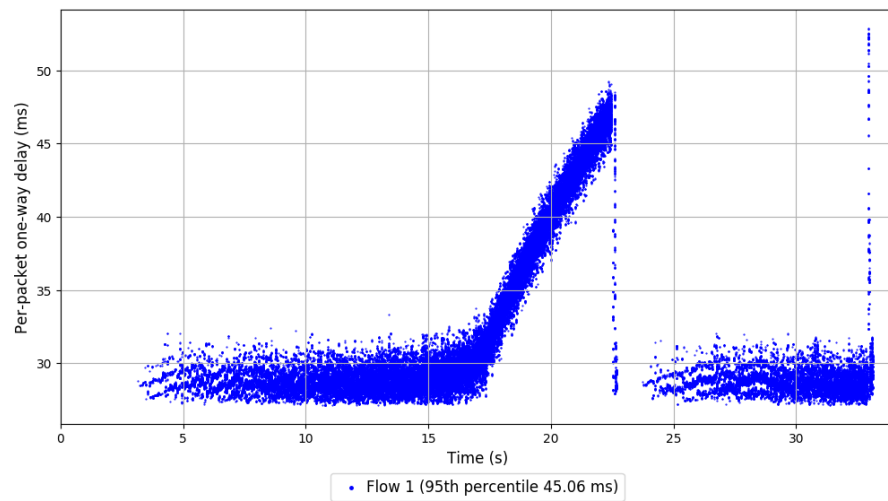
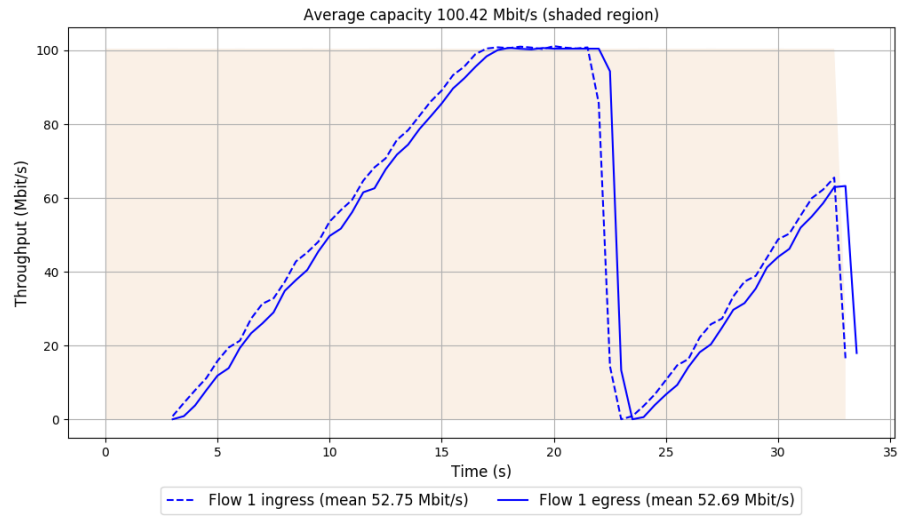
-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 45.060 ms

Loss rate: 0.19%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-24 06:07:55

End at: 2018-07-24 06:08:25

Below is generated by plot.py at 2018-07-24 07:56:07

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 65.48 Mbit/s (65.2% utilization)

95th percentile per-packet one-way delay: 44.762 ms

Loss rate: 0.06%

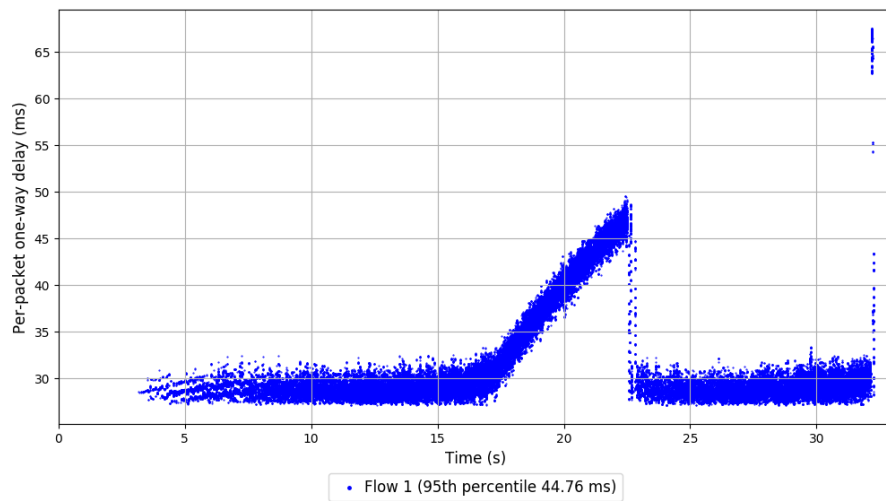
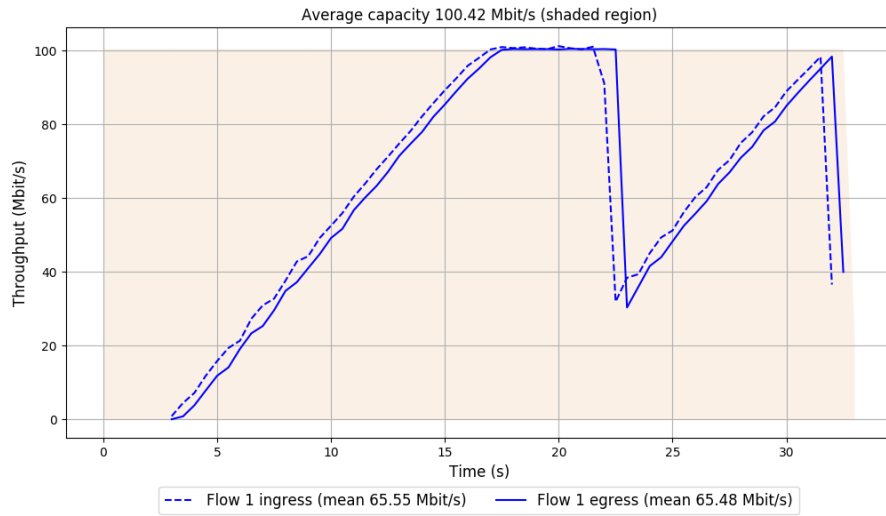
-- Flow 1:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 44.762 ms

Loss rate: 0.06%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-24 06:19:06

End at: 2018-07-24 06:19:36

Below is generated by plot.py at 2018-07-24 07:56:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 66.96 Mbit/s (66.7% utilization)

95th percentile per-packet one-way delay: 44.532 ms

Loss rate: 0.17%

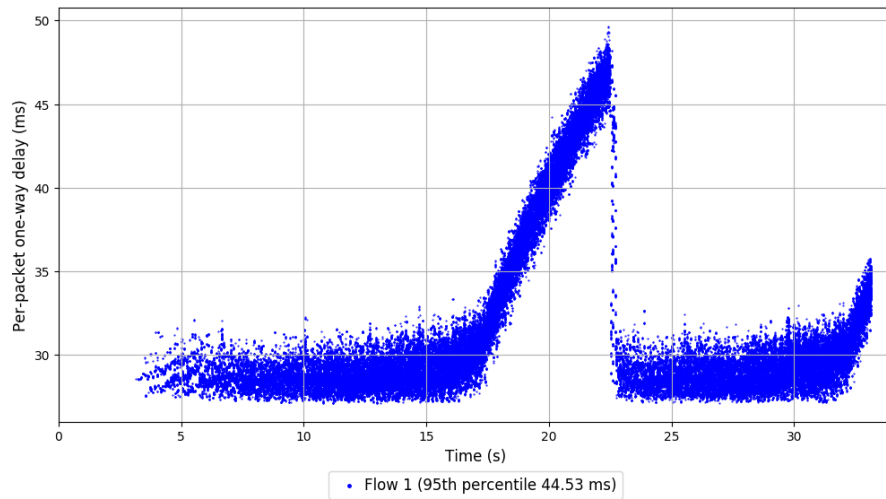
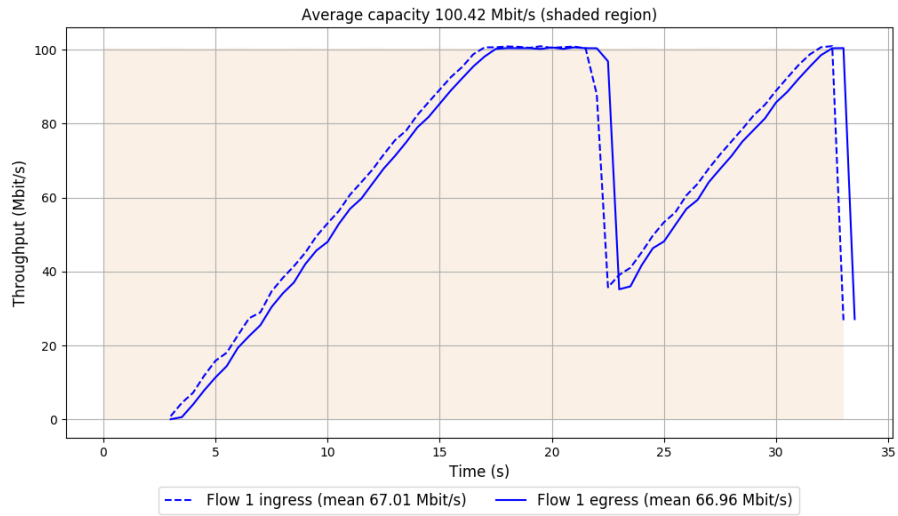
-- Flow 1:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 44.532 ms

Loss rate: 0.17%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-24 06:30:13

End at: 2018-07-24 06:30:43

Below is generated by plot.py at 2018-07-24 07:56:34

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 51.83 Mbit/s (51.6% utilization)

95th percentile per-packet one-way delay: 45.229 ms

Loss rate: 0.21%

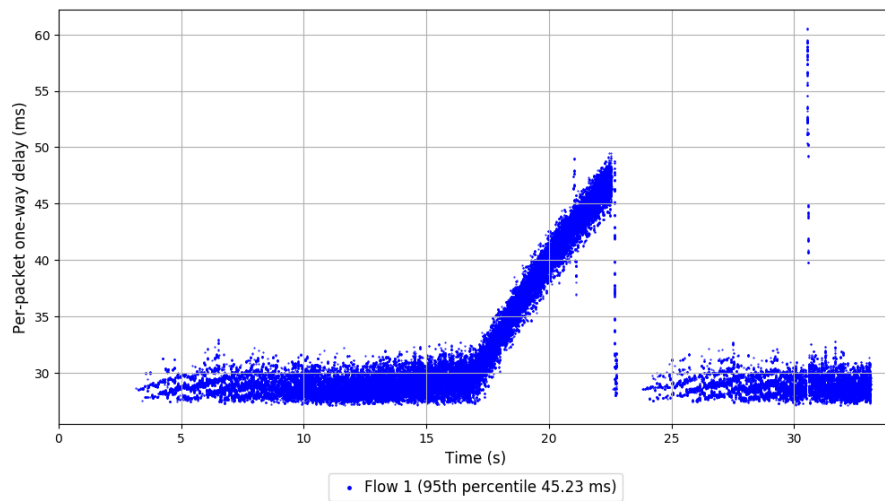
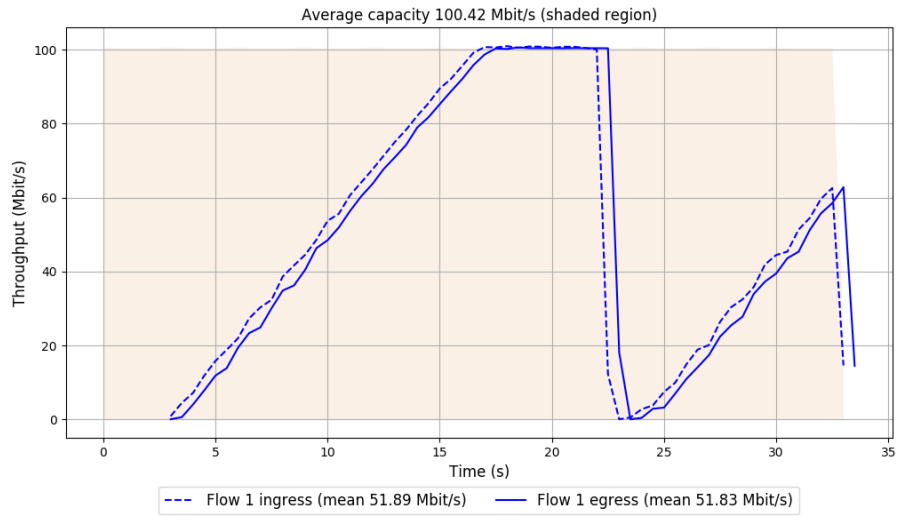
-- Flow 1:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 45.229 ms

Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-24 06:41:23

End at: 2018-07-24 06:41:53

Below is generated by plot.py at 2018-07-24 07:56:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 52.47 Mbit/s (52.2% utilization)

95th percentile per-packet one-way delay: 45.127 ms

Loss rate: 0.25%

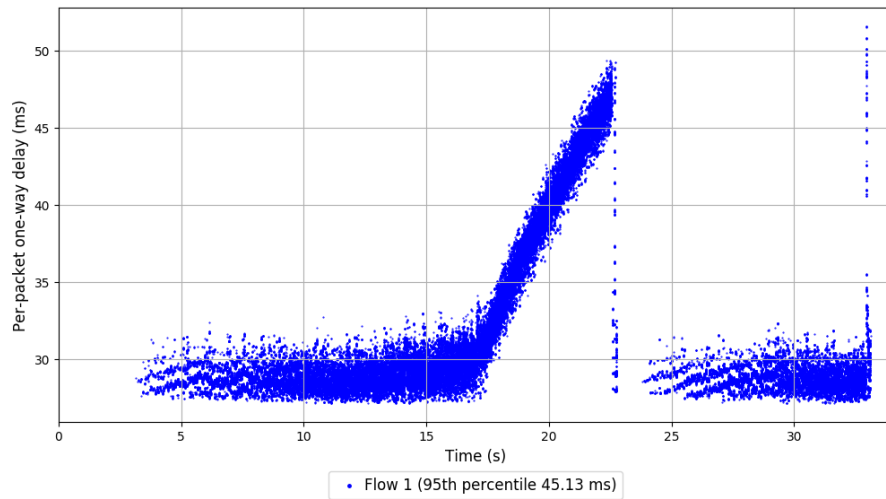
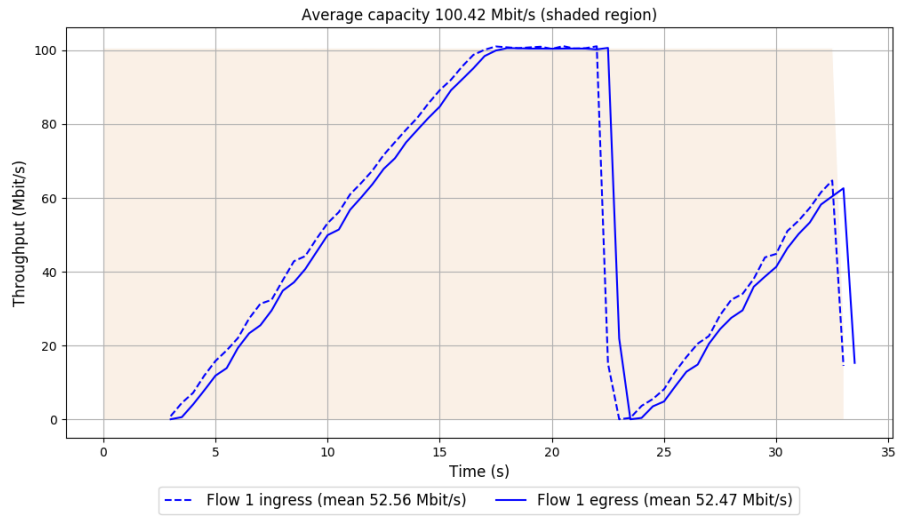
-- Flow 1:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 45.127 ms

Loss rate: 0.25%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-24 06:52:33

End at: 2018-07-24 06:53:03

Below is generated by plot.py at 2018-07-24 07:56:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 48.03 Mbit/s (47.8% utilization)

95th percentile per-packet one-way delay: 45.332 ms

Loss rate: 0.12%

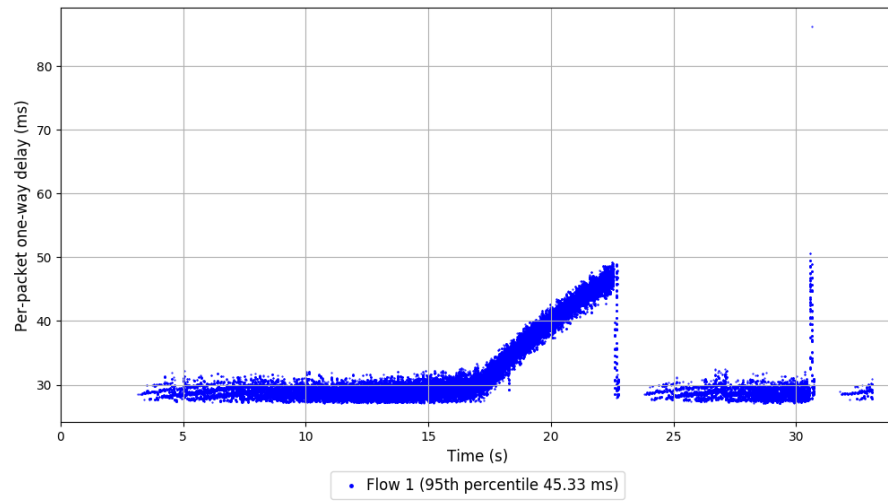
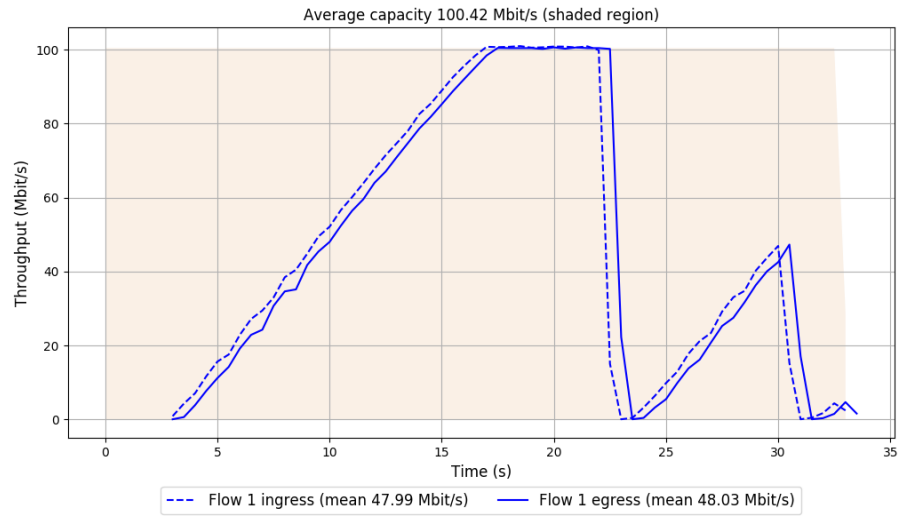
-- Flow 1:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 45.332 ms

Loss rate: 0.12%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-24 07:03:45

End at: 2018-07-24 07:04:15

Below is generated by plot.py at 2018-07-24 07:57:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 51.83 Mbit/s (51.6% utilization)

95th percentile per-packet one-way delay: 45.094 ms

Loss rate: 0.23%

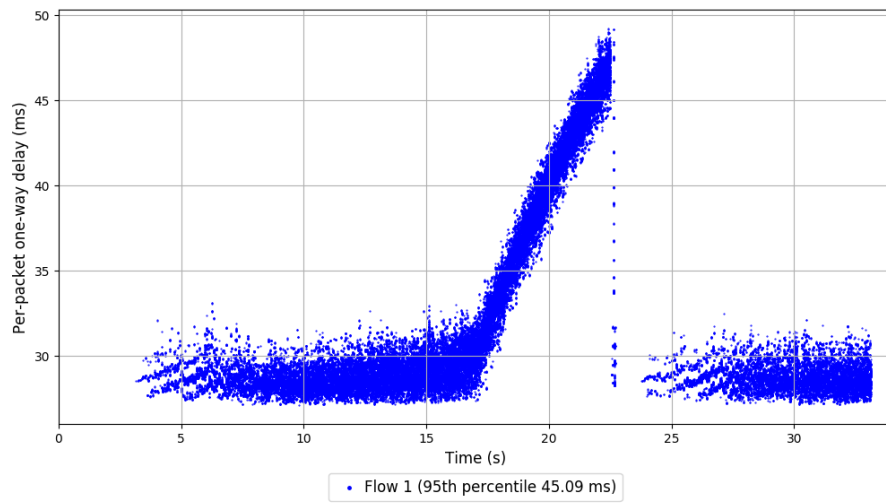
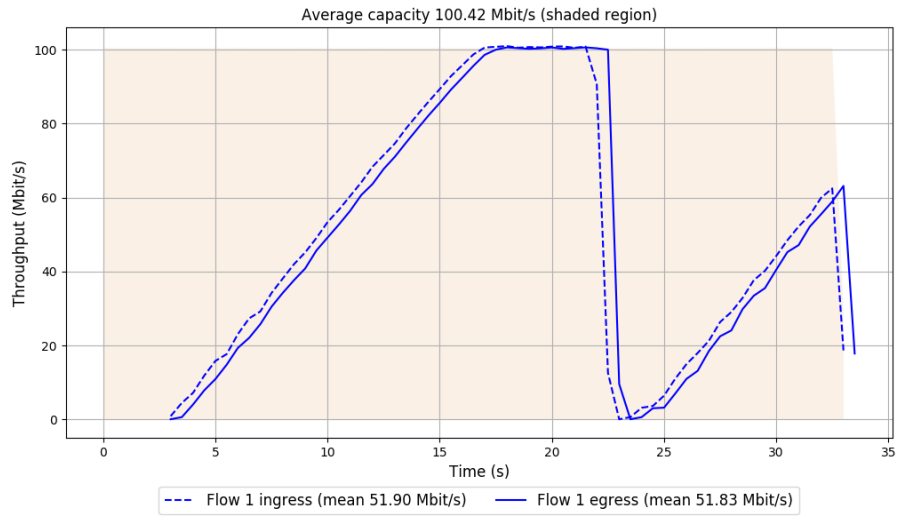
-- Flow 1:

Average throughput: 51.83 Mbit/s

95th percentile per-packet one-way delay: 45.094 ms

Loss rate: 0.23%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-24 07:14:55

End at: 2018-07-24 07:15:25

Below is generated by plot.py at 2018-07-24 07:57:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 50.70 Mbit/s (50.5% utilization)

95th percentile per-packet one-way delay: 45.192 ms

Loss rate: 0.15%

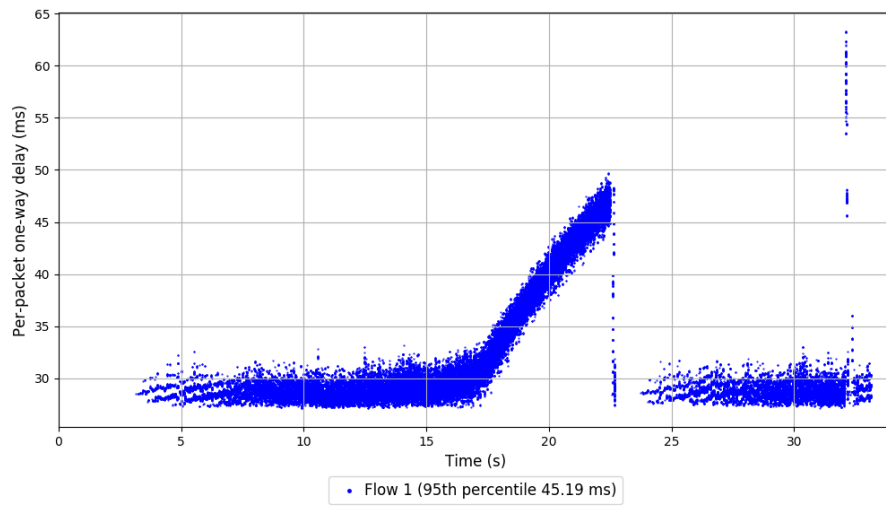
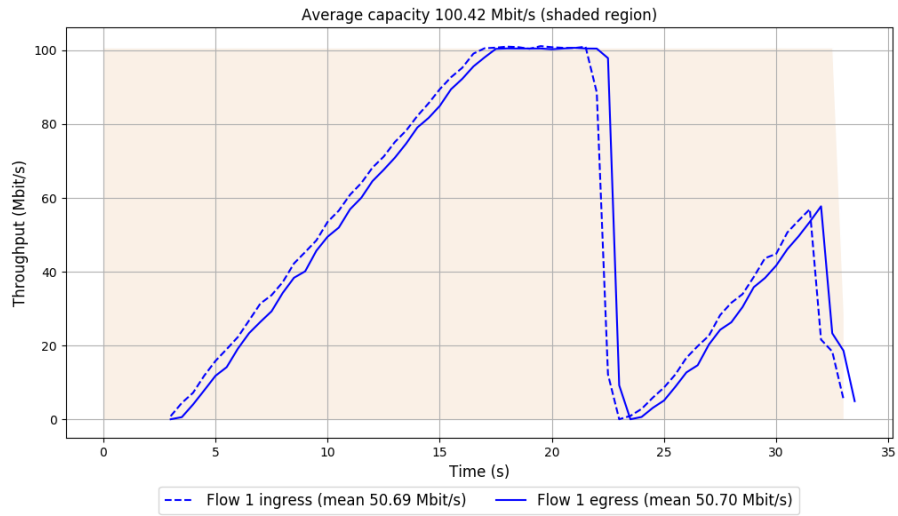
-- Flow 1:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 45.192 ms

Loss rate: 0.15%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-24 07:26:06

End at: 2018-07-24 07:26:36

Below is generated by plot.py at 2018-07-24 07:57:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 52.29 Mbit/s (52.1% utilization)

95th percentile per-packet one-way delay: 45.083 ms

Loss rate: 0.20%

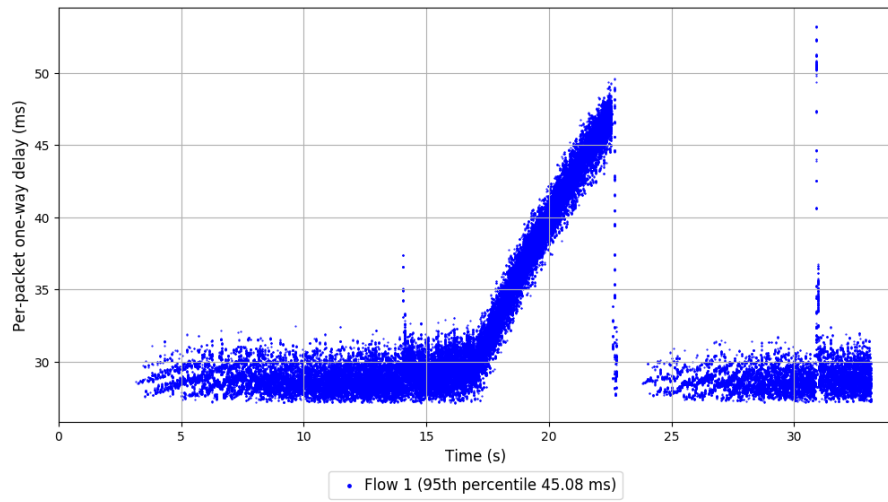
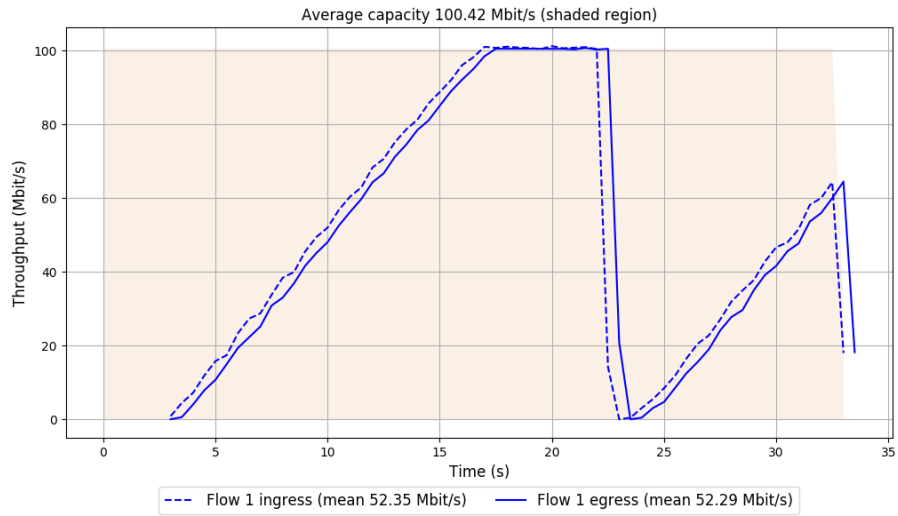
-- Flow 1:

Average throughput: 52.29 Mbit/s

95th percentile per-packet one-way delay: 45.083 ms

Loss rate: 0.20%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-24 05:49:04

End at: 2018-07-24 05:49:34

Below is generated by plot.py at 2018-07-24 07:58:09

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.60 Mbit/s (92.2% utilization)

95th percentile per-packet one-way delay: 38.994 ms

Loss rate: 0.59%

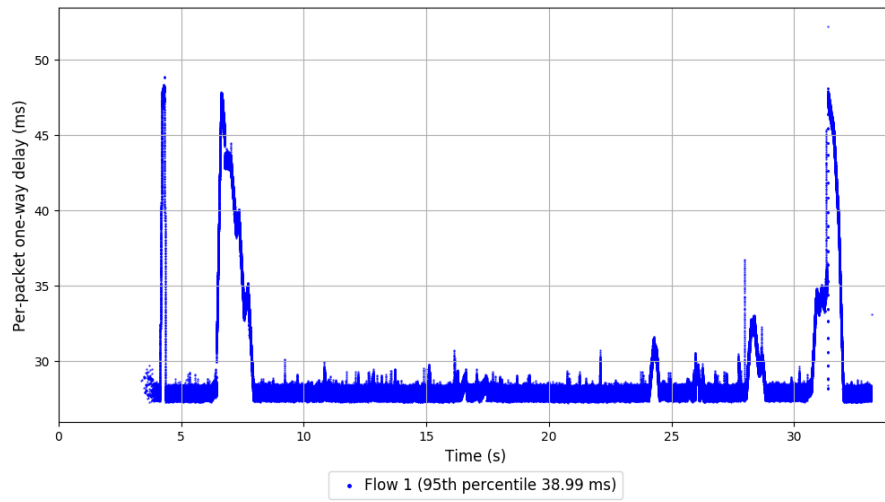
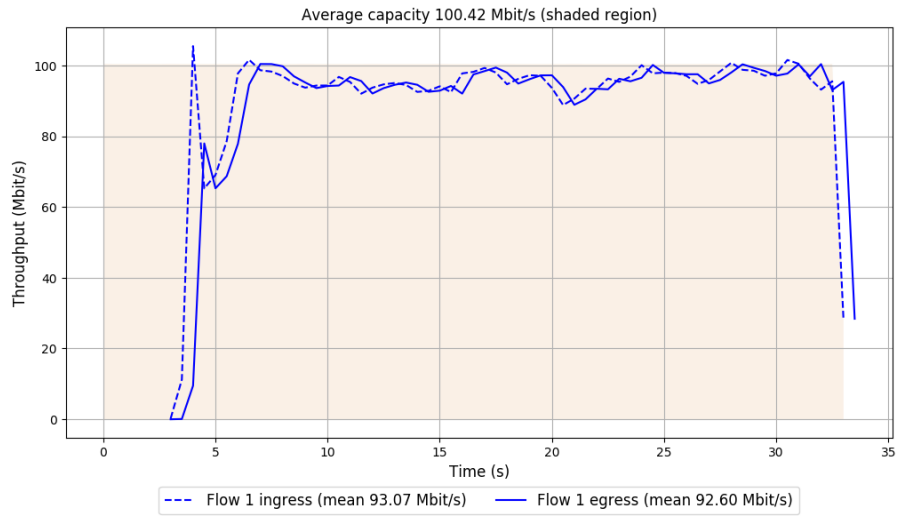
-- Flow 1:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 38.994 ms

Loss rate: 0.59%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-24 06:00:04

End at: 2018-07-24 06:00:34

Below is generated by plot.py at 2018-07-24 07:58:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 88.02 Mbit/s (87.6% utilization)

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

Loss rate: 0.59%

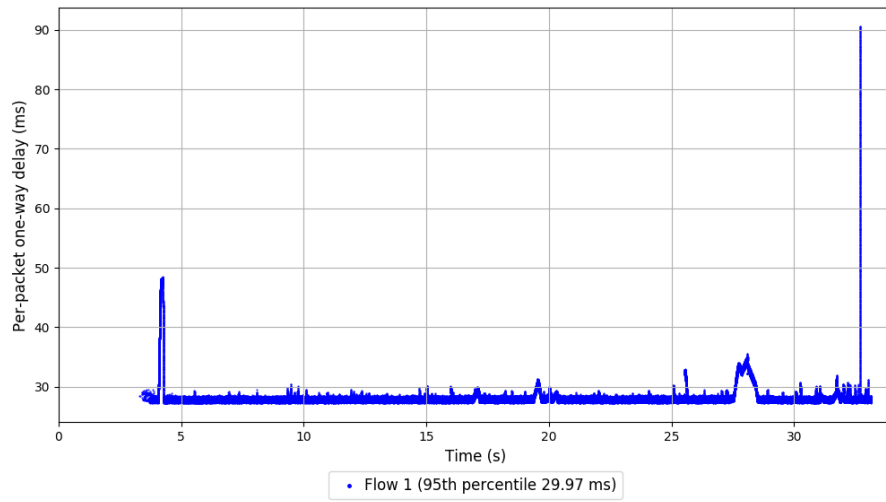
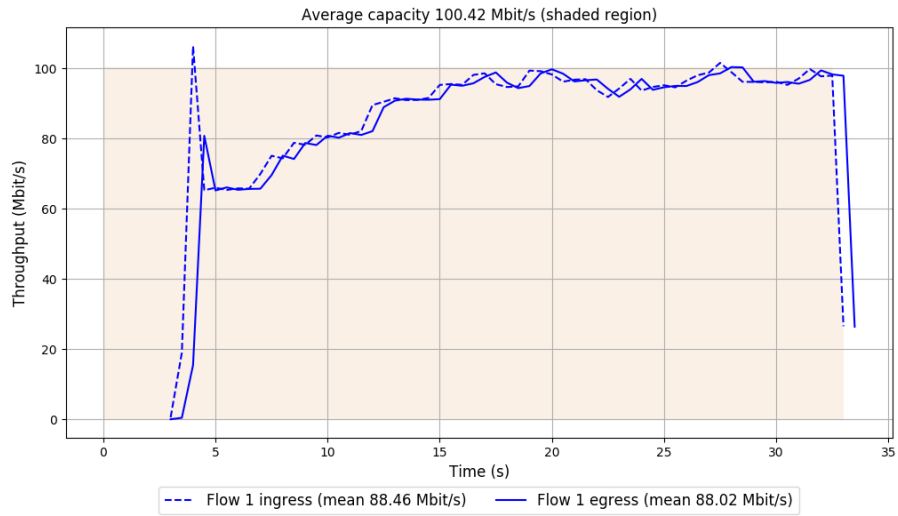
-- Flow 1:

Average throughput: 88.02 Mbit/s

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

Loss rate: 0.59%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-24 06:11:14

End at: 2018-07-24 06:11:44

Below is generated by plot.py at 2018-07-24 07:58:32

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 85.50 Mbit/s (85.1% utilization)

95th percentile per-packet one-way delay: 28.681 ms

Loss rate: 0.64%

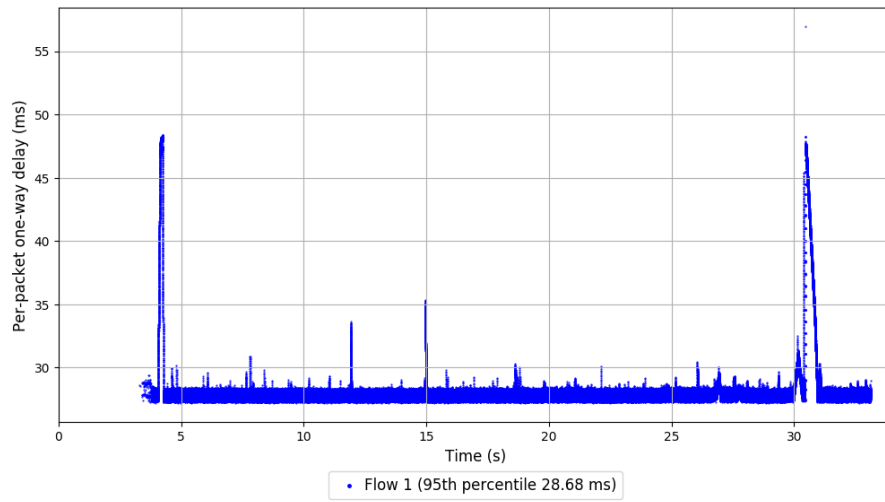
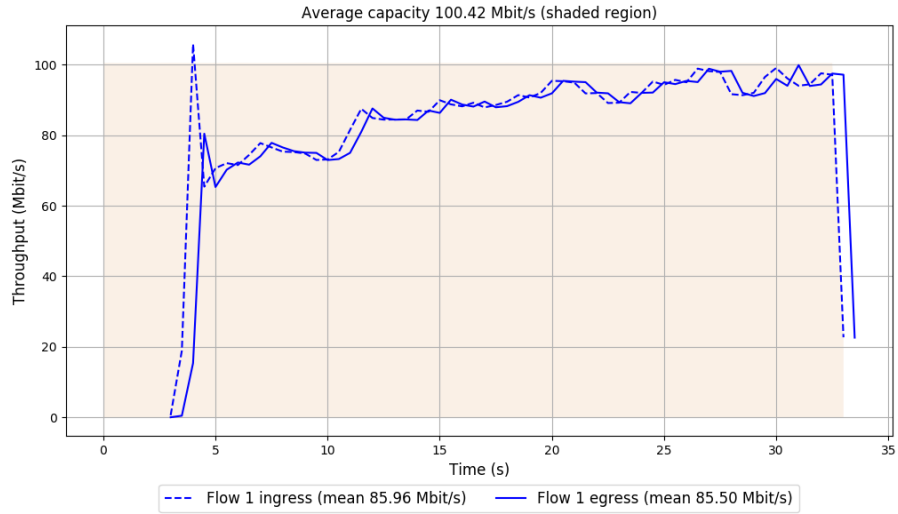
-- Flow 1:

Average throughput: 85.50 Mbit/s

95th percentile per-packet one-way delay: 28.681 ms

Loss rate: 0.64%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-24 06:22:25

End at: 2018-07-24 06:22:55

Below is generated by plot.py at 2018-07-24 07:58:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 81.43 Mbit/s (81.1% utilization)

95th percentile per-packet one-way delay: 29.228 ms

Loss rate: 0.74%

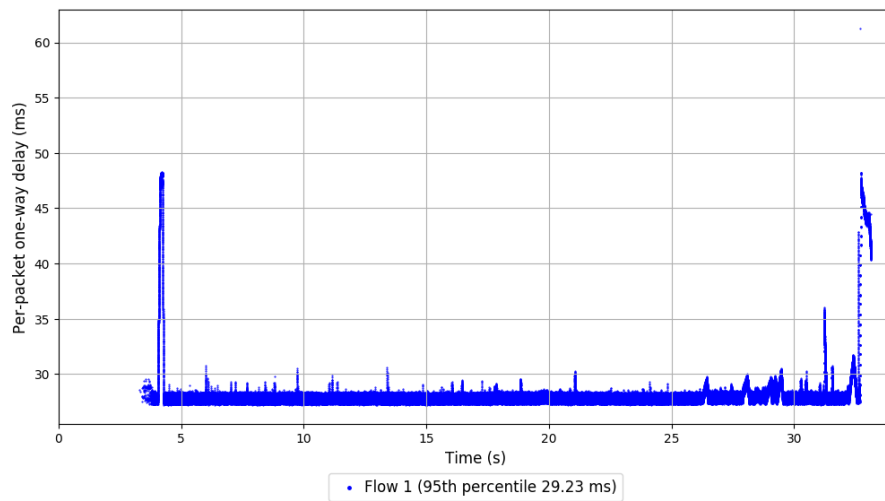
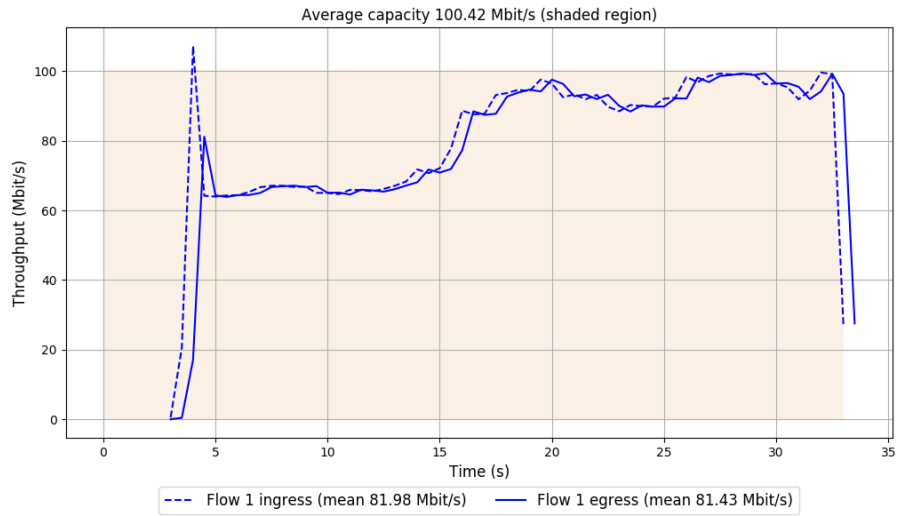
-- Flow 1:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 29.228 ms

Loss rate: 0.74%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-24 06:33:32

End at: 2018-07-24 06:34:02

Below is generated by plot.py at 2018-07-24 07:58:47

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 82.91 Mbit/s (82.6% utilization)

95th percentile per-packet one-way delay: 35.904 ms

Loss rate: 0.56%

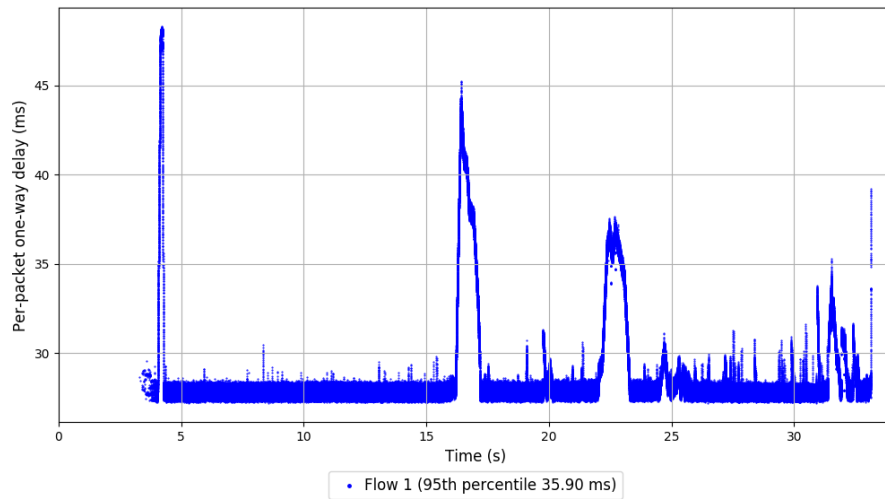
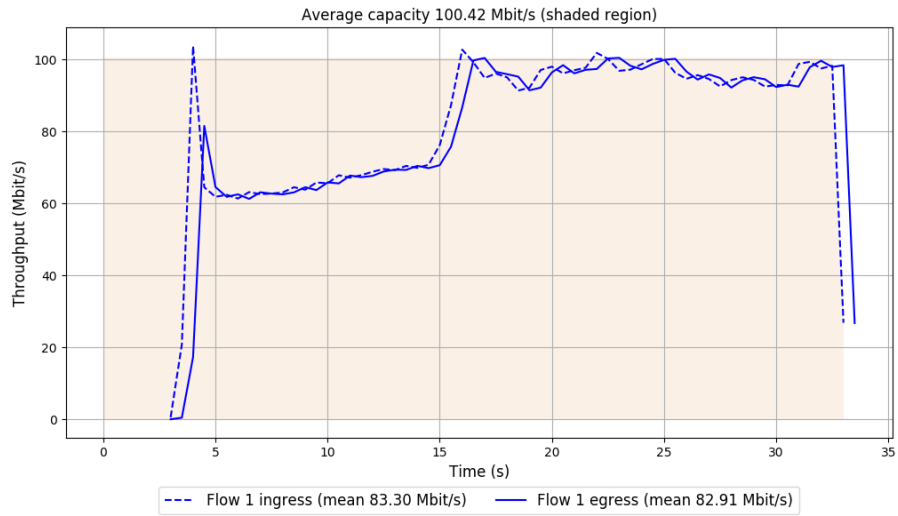
-- Flow 1:

Average throughput: 82.91 Mbit/s

95th percentile per-packet one-way delay: 35.904 ms

Loss rate: 0.56%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-24 06:44:44

End at: 2018-07-24 06:45:14

Below is generated by plot.py at 2018-07-24 07:58:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 70.73 Mbit/s (70.4% utilization)

95th percentile per-packet one-way delay: 28.253 ms

Loss rate: 0.73%

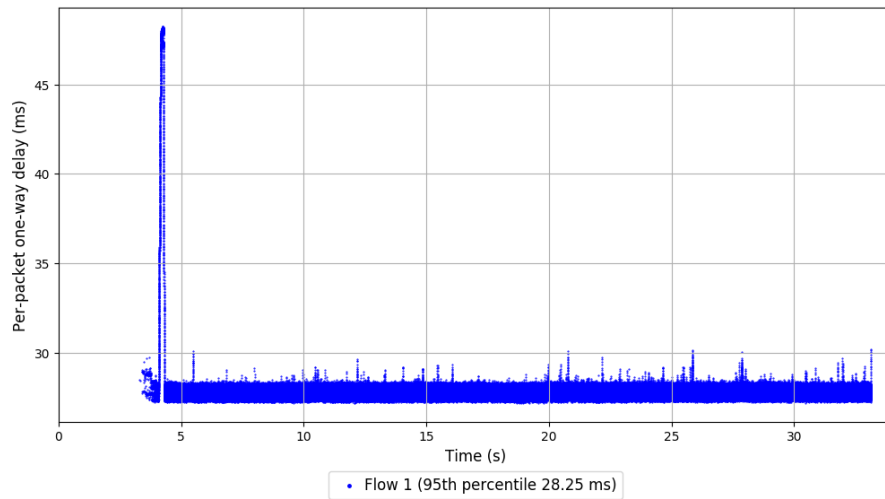
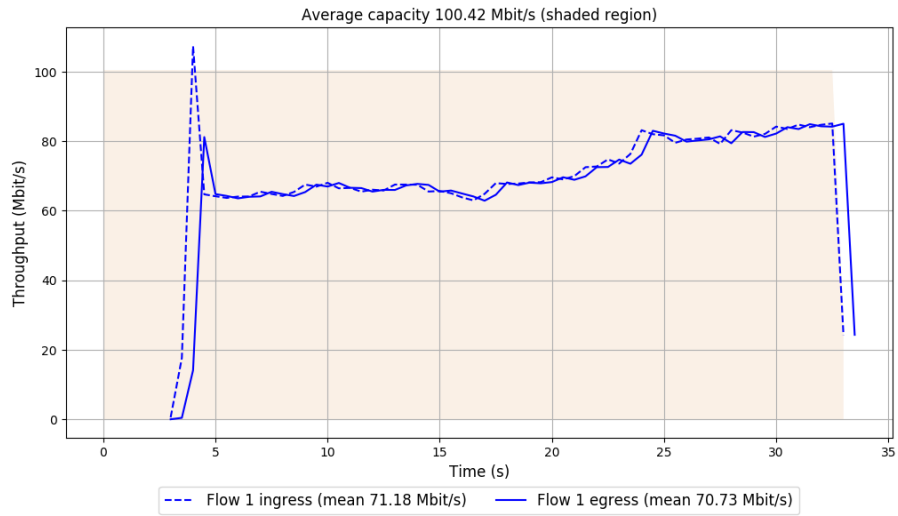
-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 28.253 ms

Loss rate: 0.73%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-24 06:55:51

End at: 2018-07-24 06:56:22

Below is generated by plot.py at 2018-07-24 07:59:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 89.89 Mbit/s (89.5% utilization)

95th percentile per-packet one-way delay: 31.836 ms

Loss rate: 0.57%

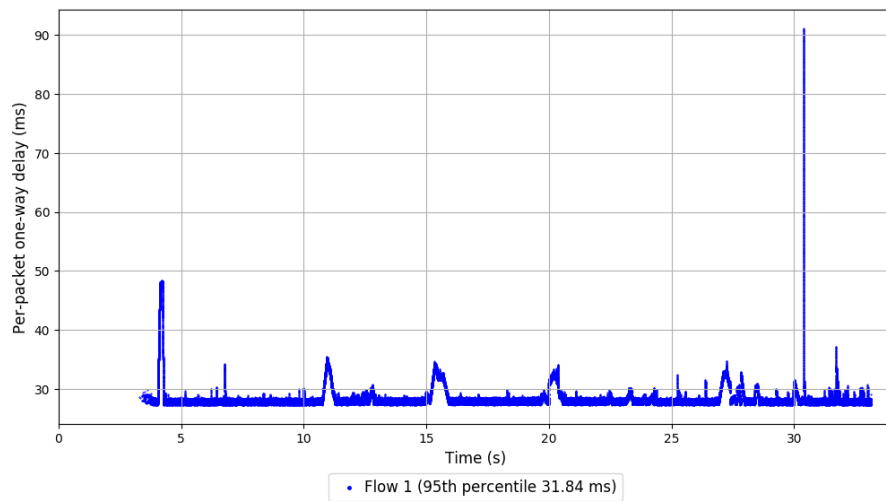
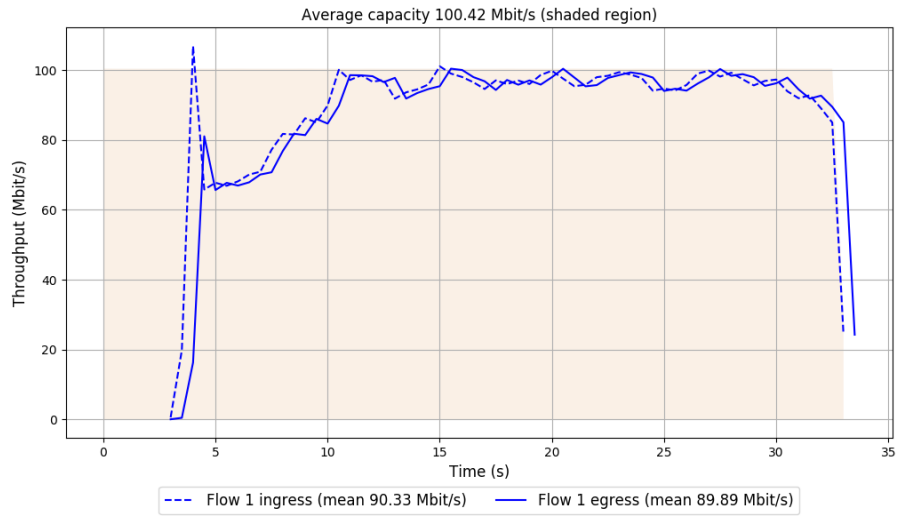
-- Flow 1:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 31.836 ms

Loss rate: 0.57%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-24 07:07:03

End at: 2018-07-24 07:07:33

Below is generated by plot.py at 2018-07-24 07:59:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 88.68 Mbit/s (88.3% utilization)

95th percentile per-packet one-way delay: 38.500 ms

Loss rate: 0.58%

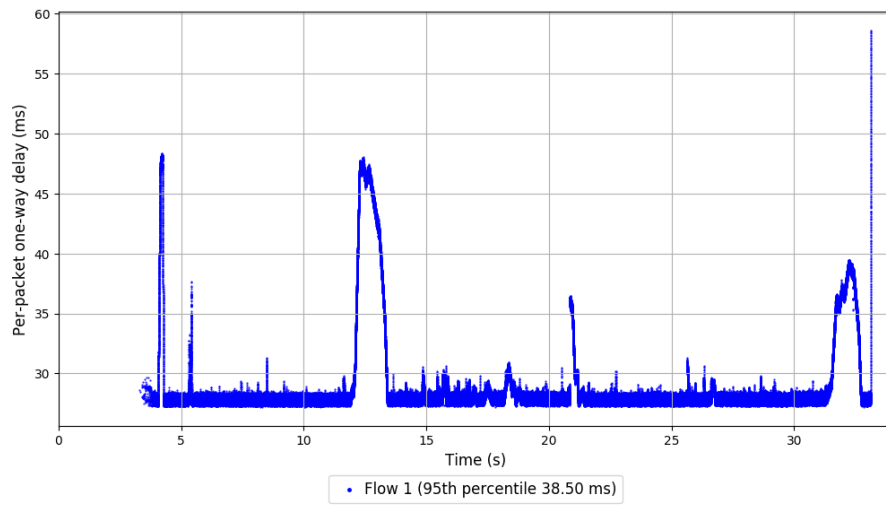
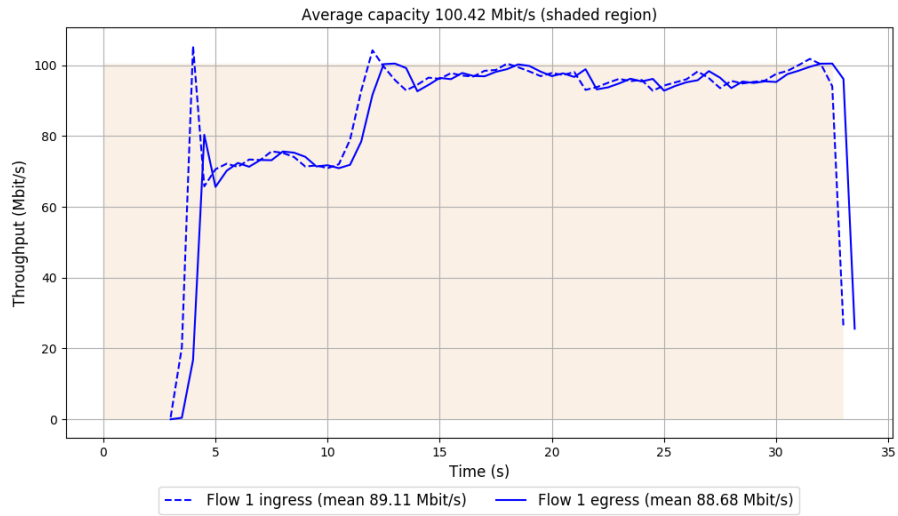
-- Flow 1:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 38.500 ms

Loss rate: 0.58%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-24 07:18:13

End at: 2018-07-24 07:18:43

Below is generated by plot.py at 2018-07-24 08:00:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 91.50 Mbit/s (91.1% utilization)

95th percentile per-packet one-way delay: 32.011 ms

Loss rate: 0.56%

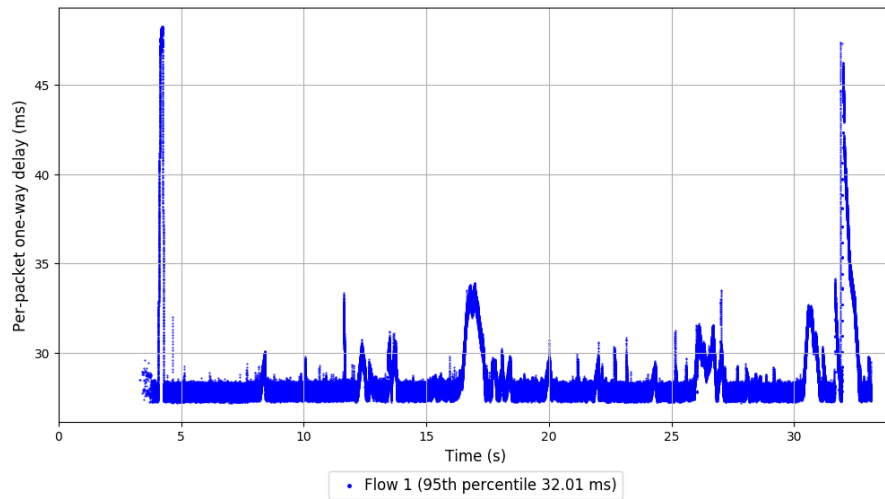
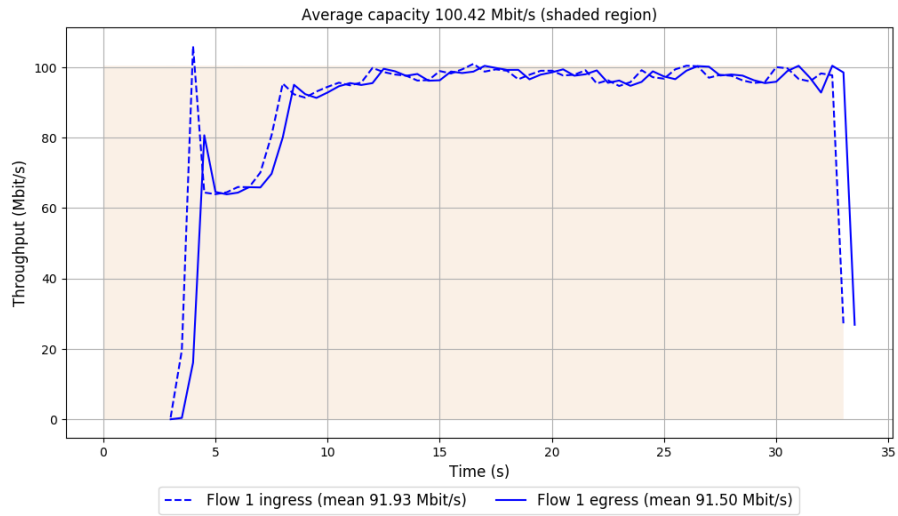
-- Flow 1:

Average throughput: 91.50 Mbit/s

95th percentile per-packet one-way delay: 32.011 ms

Loss rate: 0.56%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-24 07:29:25

End at: 2018-07-24 07:29:55

Below is generated by plot.py at 2018-07-24 08:00:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 82.85 Mbit/s (82.5% utilization)

95th percentile per-packet one-way delay: 37.336 ms

Loss rate: 0.63%

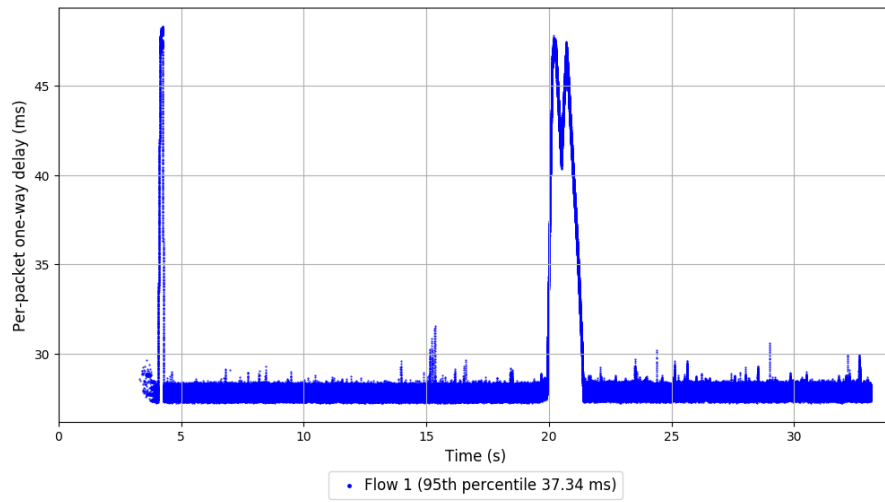
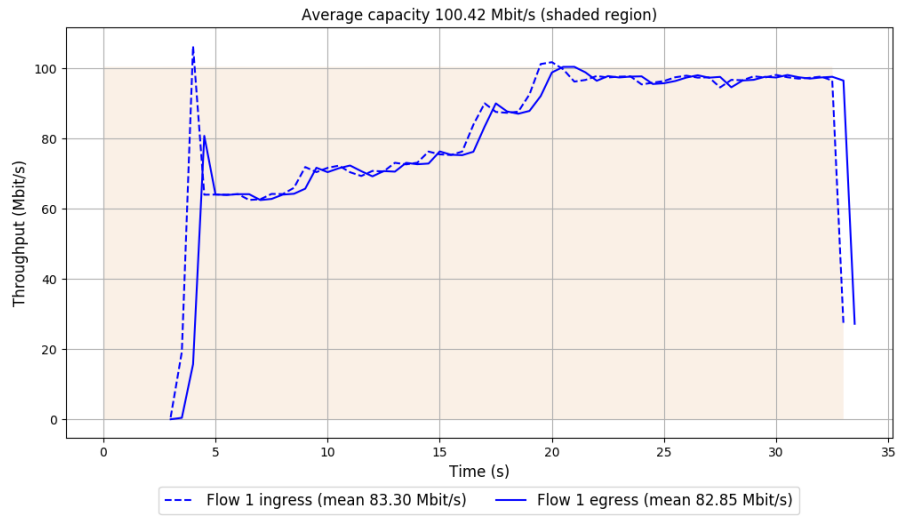
-- Flow 1:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 37.336 ms

Loss rate: 0.63%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-07-24 05:45:02

End at: 2018-07-24 05:45:32

Below is generated by plot.py at 2018-07-24 08:01:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.86 Mbit/s (92.5% utilization)

95th percentile per-packet one-way delay: 38.144 ms

Loss rate: 1.32%

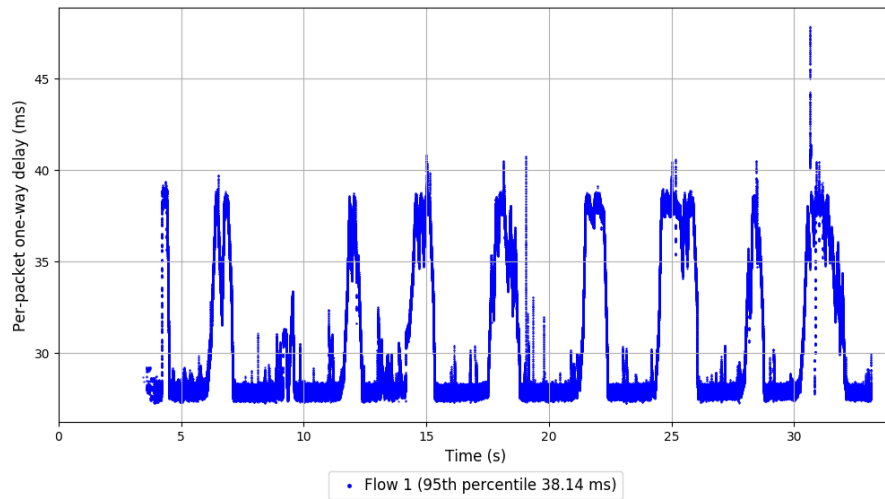
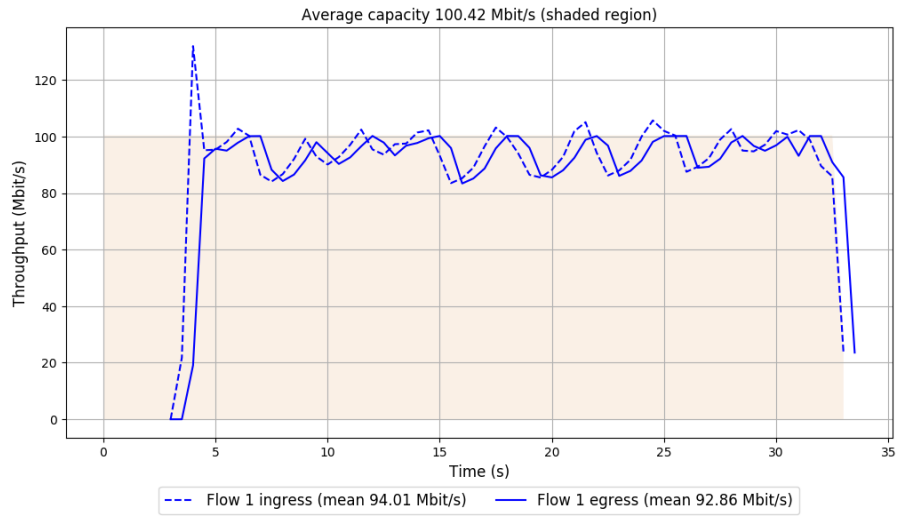
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 38.144 ms

Loss rate: 1.32%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-24 05:56:04

End at: 2018-07-24 05:56:34

Below is generated by plot.py at 2018-07-24 08:02:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 93.80 Mbit/s (93.4% utilization)

95th percentile per-packet one-way delay: 38.090 ms

Loss rate: 1.13%

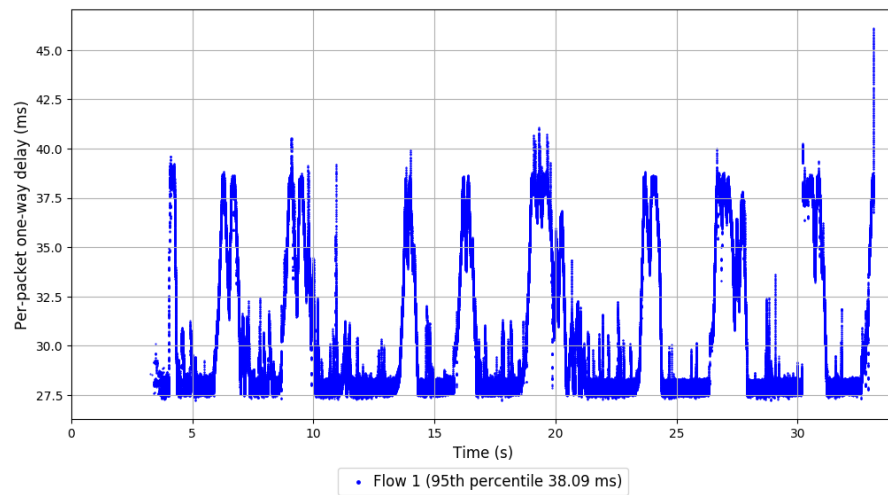
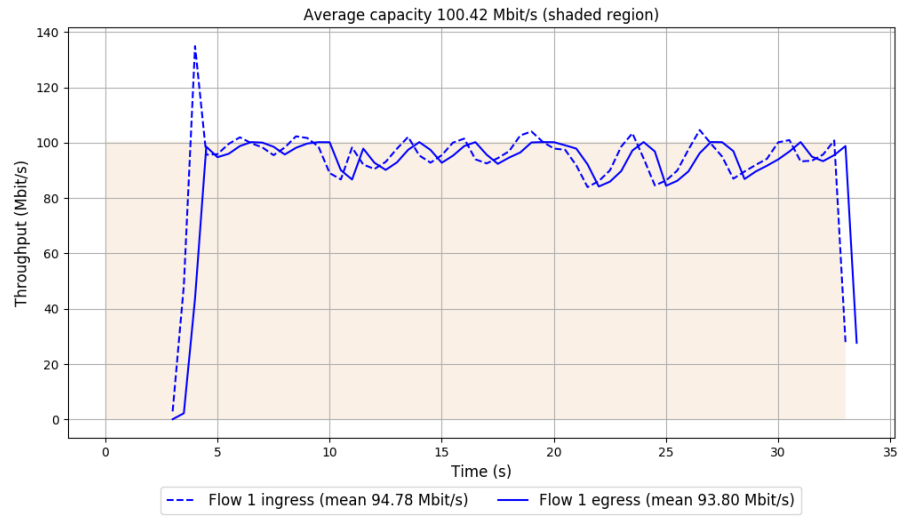
-- Flow 1:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 38.090 ms

Loss rate: 1.13%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-24 06:07:12

End at: 2018-07-24 06:07:42

Below is generated by plot.py at 2018-07-24 08:02:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.12 Mbit/s (91.7% utilization)

95th percentile per-packet one-way delay: 38.157 ms

Loss rate: 1.28%

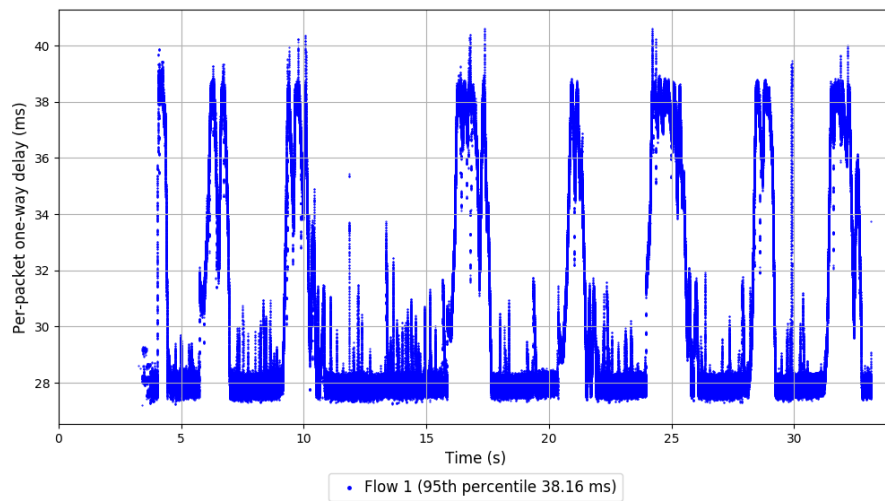
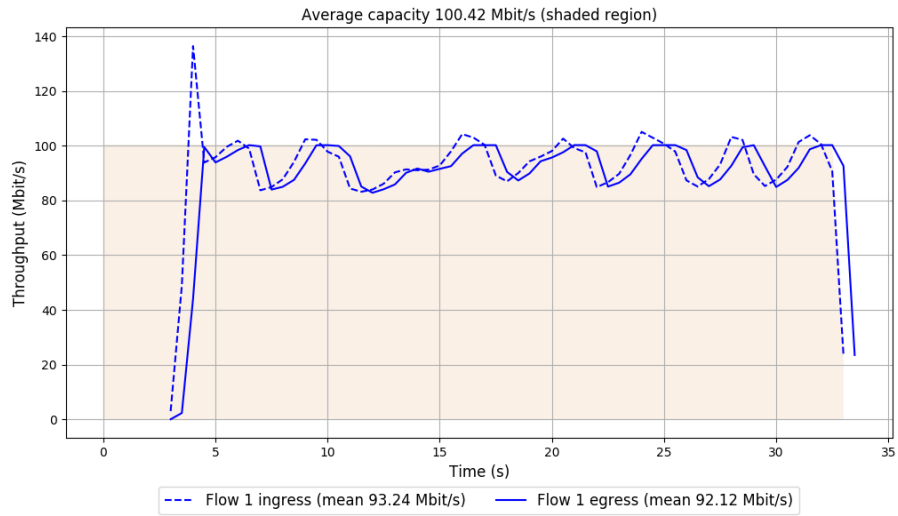
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 38.157 ms

Loss rate: 1.28%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-24 06:18:22

End at: 2018-07-24 06:18:52

Below is generated by plot.py at 2018-07-24 08:02:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.27 Mbit/s (91.9% utilization)

95th percentile per-packet one-way delay: 37.981 ms

Loss rate: 1.04%

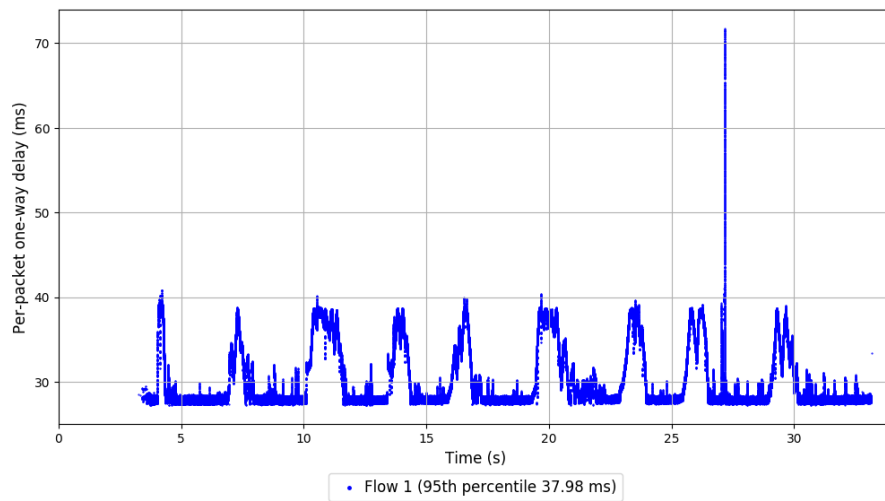
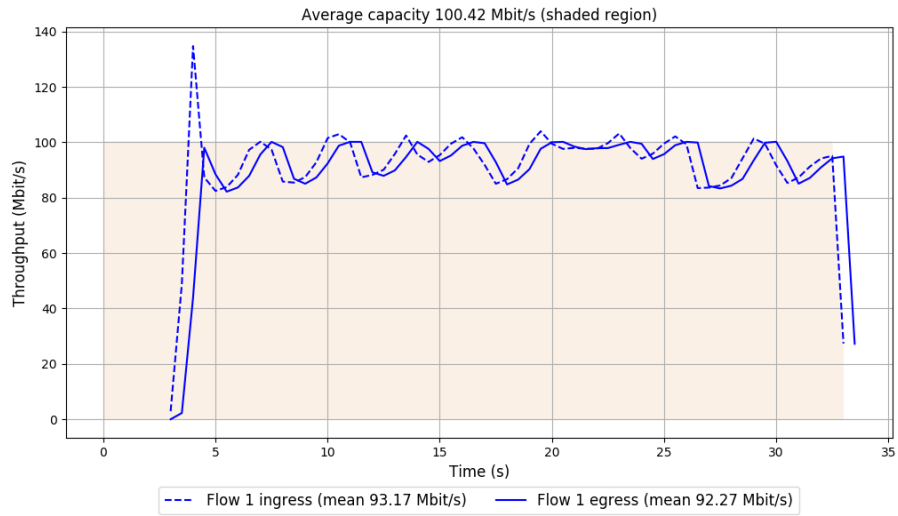
-- Flow 1:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 37.981 ms

Loss rate: 1.04%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-24 06:29:29

End at: 2018-07-24 06:29:59

Below is generated by plot.py at 2018-07-24 08:02:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.31 Mbit/s (91.9% utilization)

95th percentile per-packet one-way delay: 38.175 ms

Loss rate: 1.37%

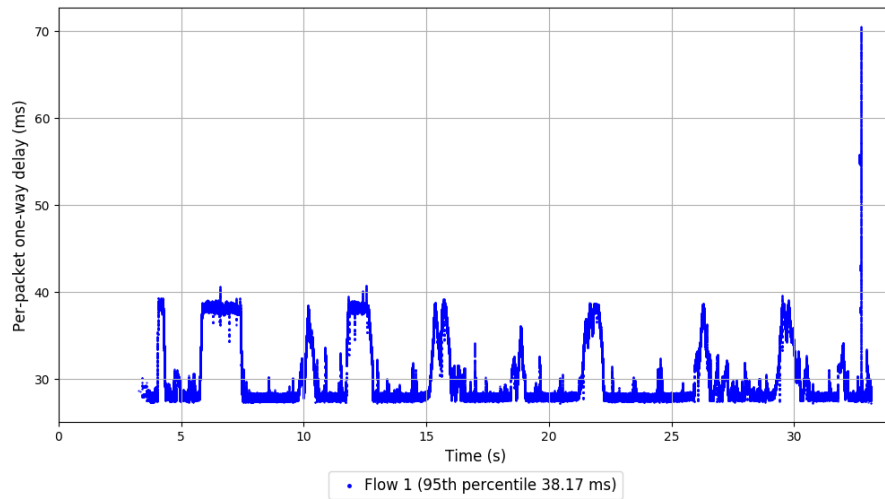
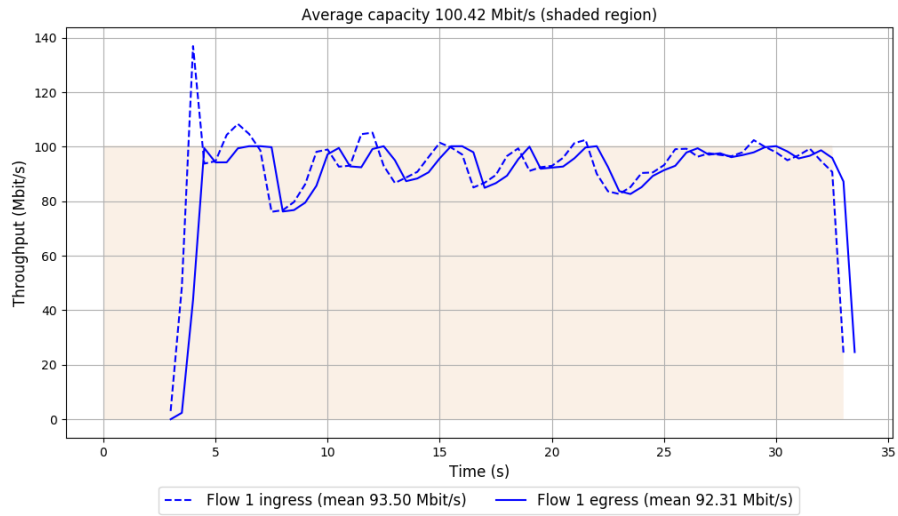
-- Flow 1:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 38.175 ms

Loss rate: 1.37%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-24 06:40:39

End at: 2018-07-24 06:41:09

Below is generated by plot.py at 2018-07-24 08:02:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.94 Mbit/s (92.5% utilization)

95th percentile per-packet one-way delay: 37.977 ms

Loss rate: 1.04%

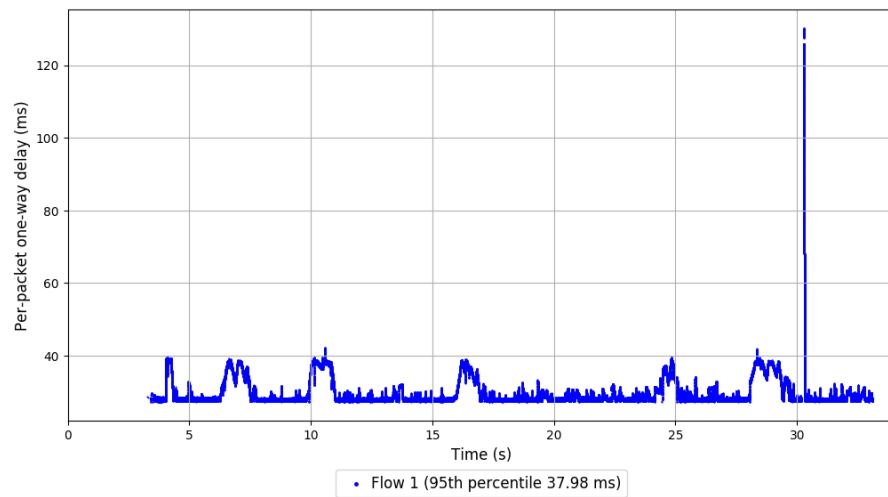
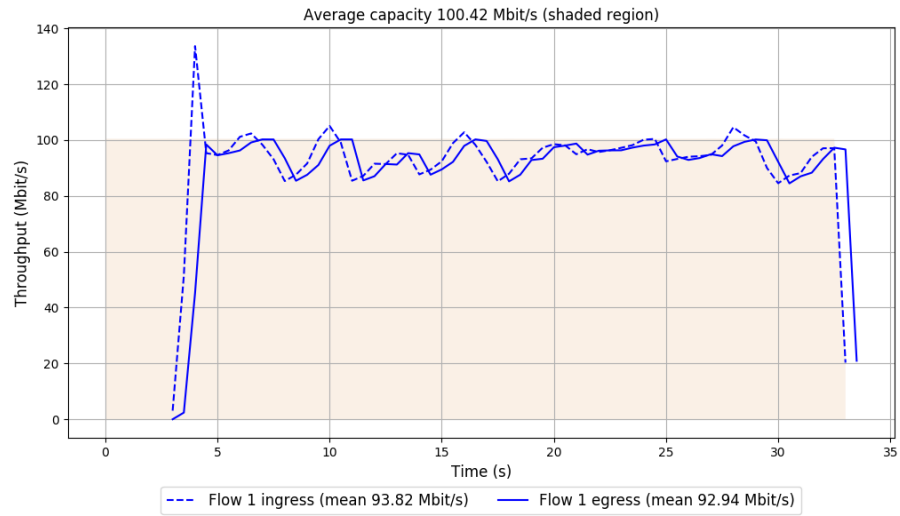
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 37.977 ms

Loss rate: 1.04%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-24 06:51:49

End at: 2018-07-24 06:52:19

Below is generated by plot.py at 2018-07-24 08:03:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.95 Mbit/s (92.6% utilization)

95th percentile per-packet one-way delay: 38.152 ms

Loss rate: 1.20%

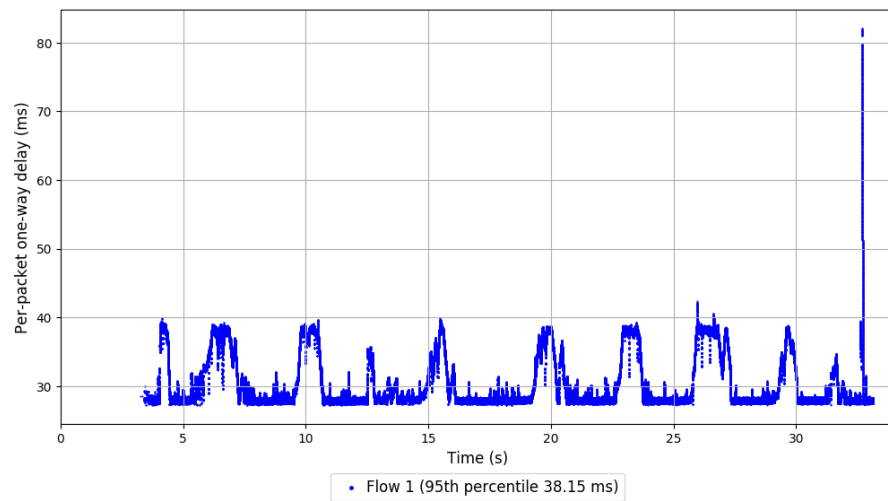
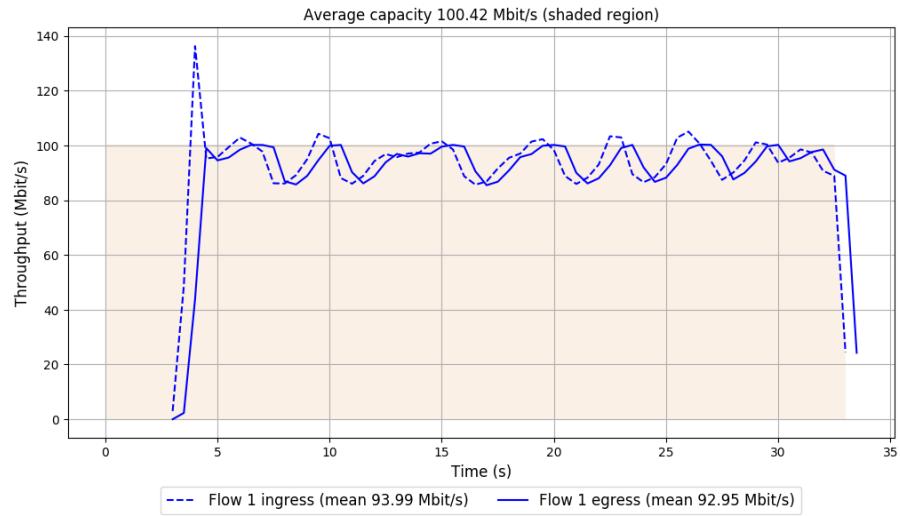
-- Flow 1:

Average throughput: 92.95 Mbit/s

95th percentile per-packet one-way delay: 38.152 ms

Loss rate: 1.20%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-24 07:03:01

End at: 2018-07-24 07:03:31

Below is generated by plot.py at 2018-07-24 08:03:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 92.34 Mbit/s (92.0% utilization)

95th percentile per-packet one-way delay: 38.098 ms

Loss rate: 1.20%

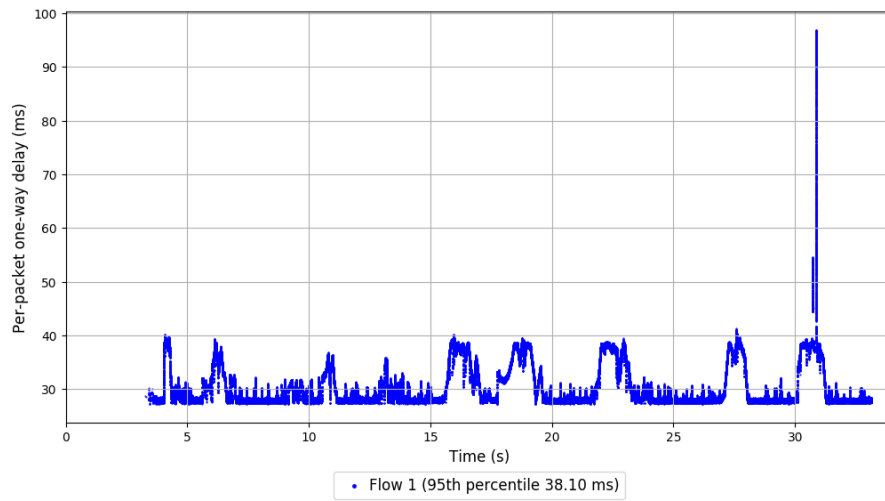
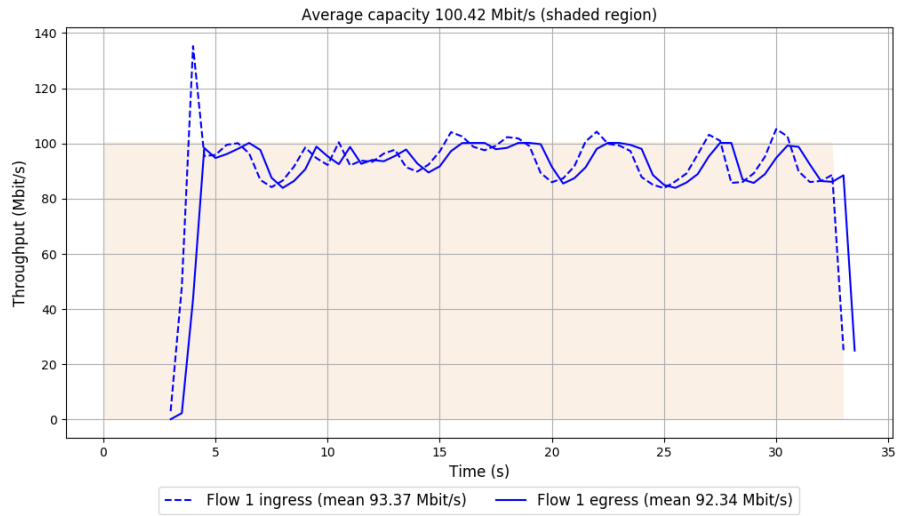
-- Flow 1:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 38.098 ms

Loss rate: 1.20%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-24 07:14:12

End at: 2018-07-24 07:14:42

Below is generated by plot.py at 2018-07-24 08:05:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 91.33 Mbit/s (90.9% utilization)

95th percentile per-packet one-way delay: 38.125 ms

Loss rate: 1.22%

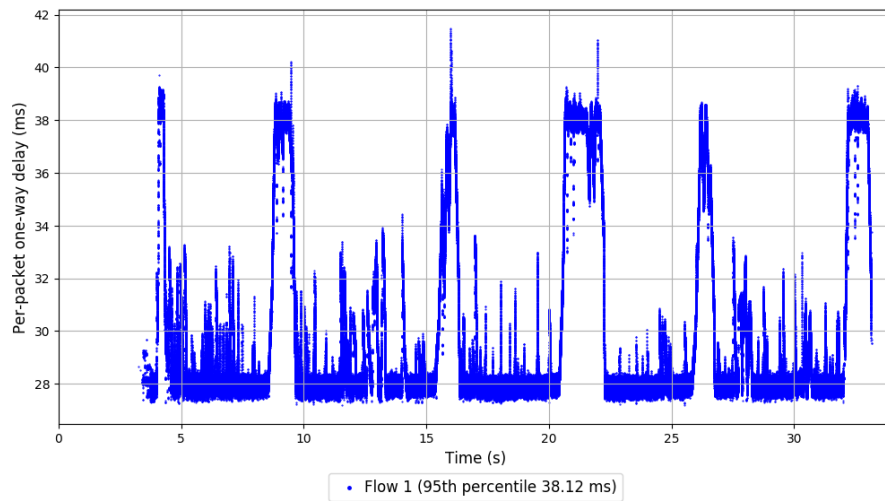
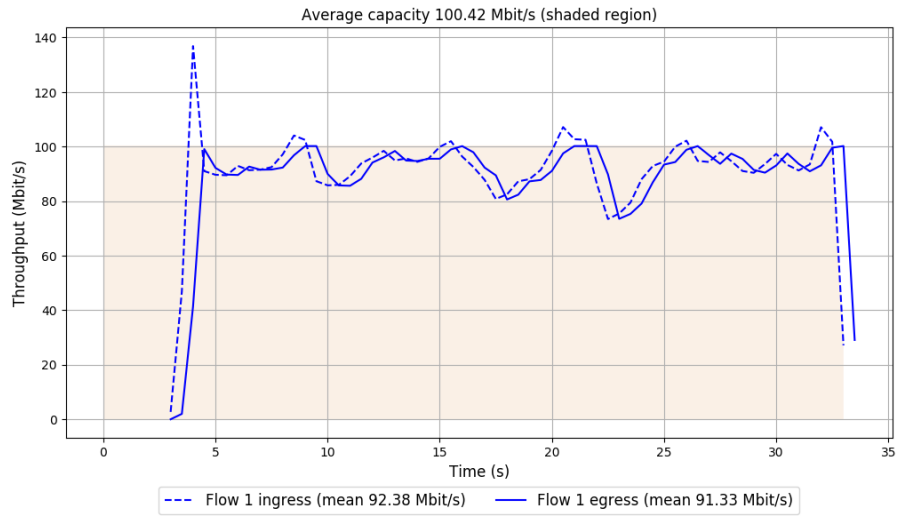
-- Flow 1:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 38.125 ms

Loss rate: 1.22%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-24 07:25:22

End at: 2018-07-24 07:25:52

Below is generated by plot.py at 2018-07-24 08:05:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 90.32 Mbit/s (89.9% utilization)

95th percentile per-packet one-way delay: 38.151 ms

Loss rate: 1.34%

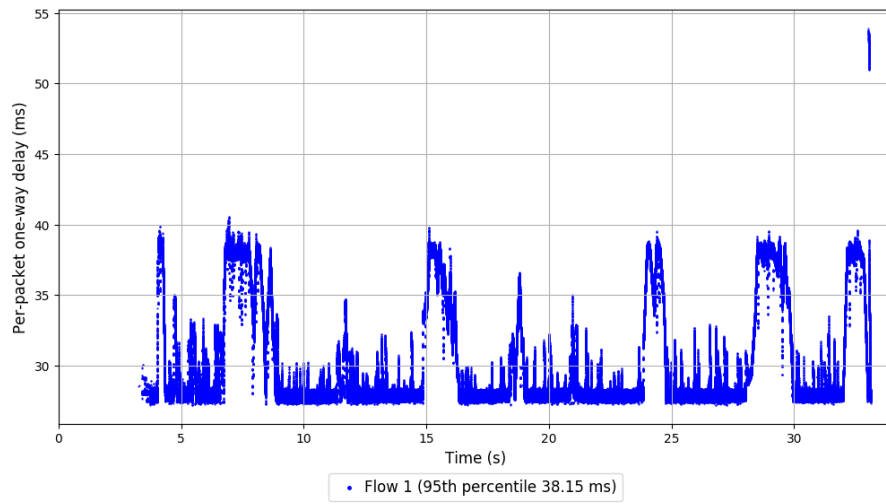
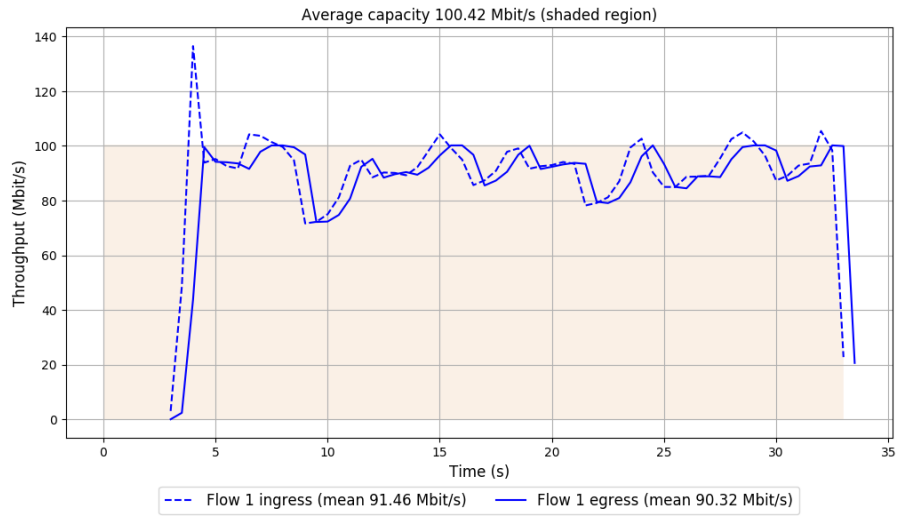
-- Flow 1:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 38.151 ms

Loss rate: 1.34%

Run 10: Report of PCC-Expr — Data Link

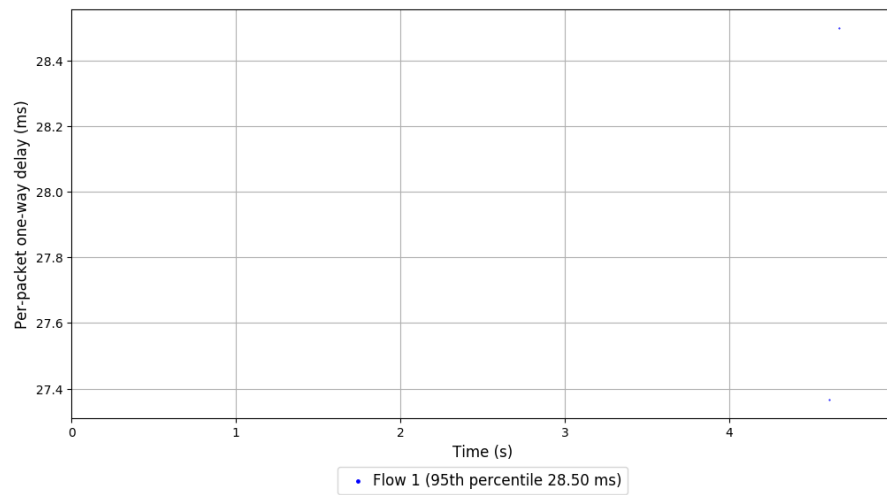
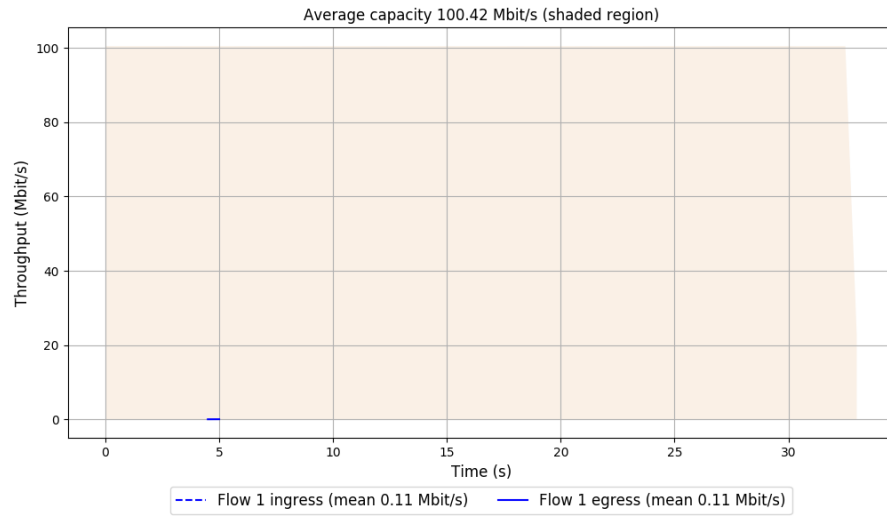


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-24 05:41:56

End at: 2018-07-24 05:42:26

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-24 05:52:55

End at: 2018-07-24 05:53:25

Below is generated by plot.py at 2018-07-24 08:05:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 63.53 Mbit/s (63.3% utilization)

95th percentile per-packet one-way delay: 33.559 ms

Loss rate: 0.48%

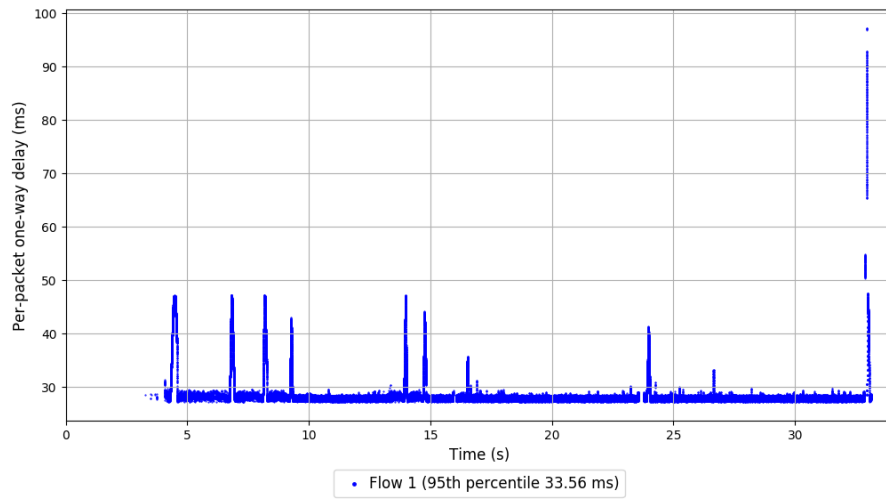
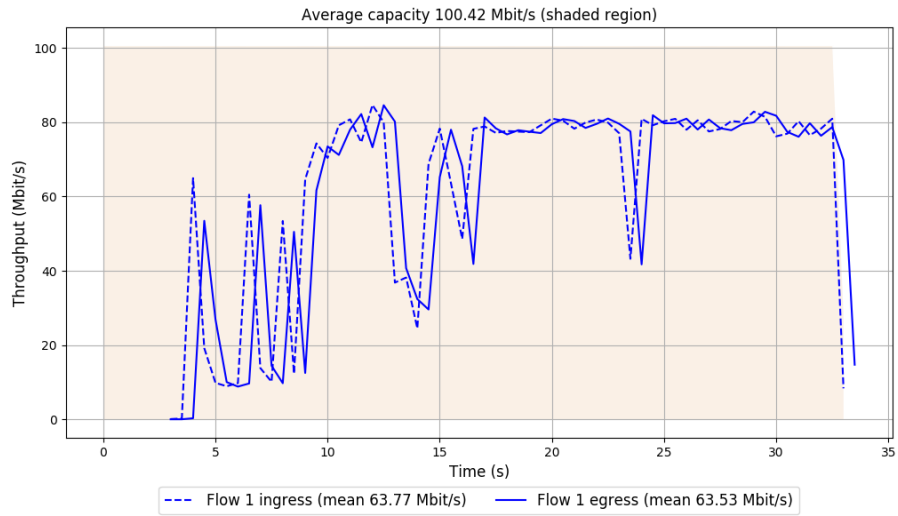
-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 33.559 ms

Loss rate: 0.48%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-24 06:04:03

End at: 2018-07-24 06:04:33

Below is generated by plot.py at 2018-07-24 08:05:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 67.65 Mbit/s (67.4% utilization)

95th percentile per-packet one-way delay: 31.480 ms

Loss rate: 0.25%

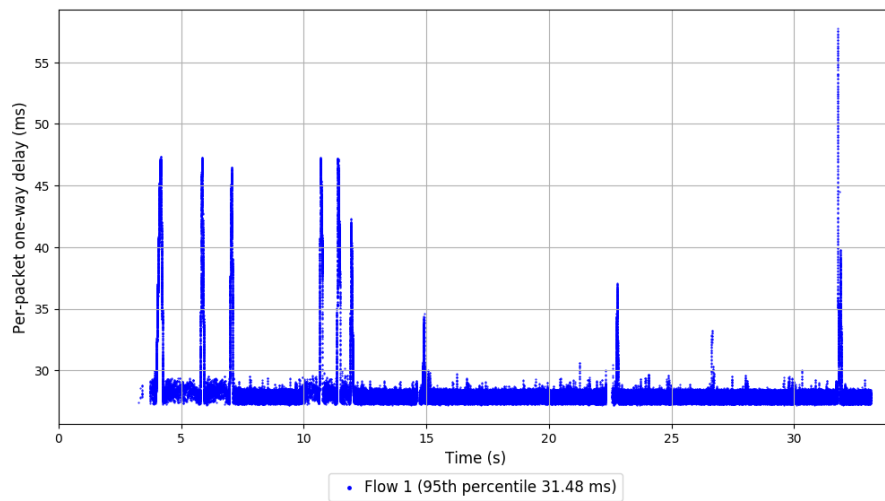
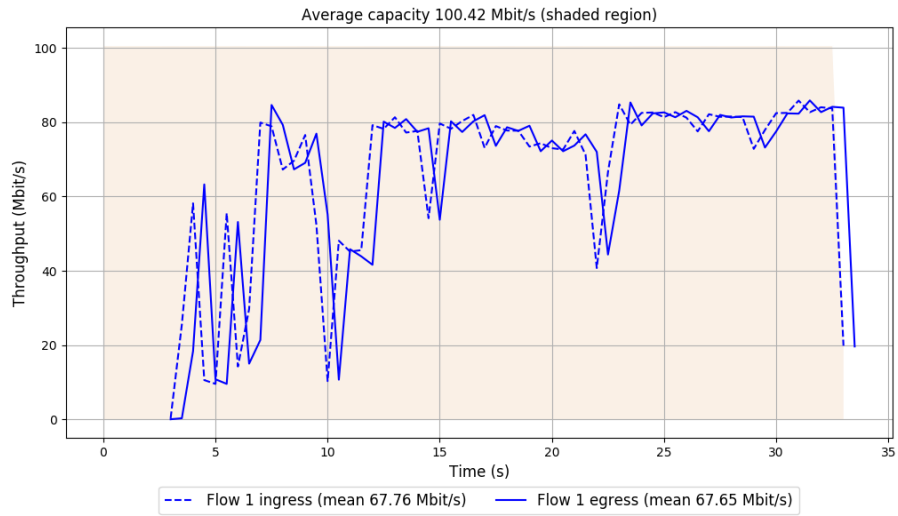
-- Flow 1:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 31.480 ms

Loss rate: 0.25%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-24 06:15:12

End at: 2018-07-24 06:15:43

Below is generated by plot.py at 2018-07-24 08:05:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 66.19 Mbit/s (65.9% utilization)

95th percentile per-packet one-way delay: 35.383 ms

Loss rate: 0.35%

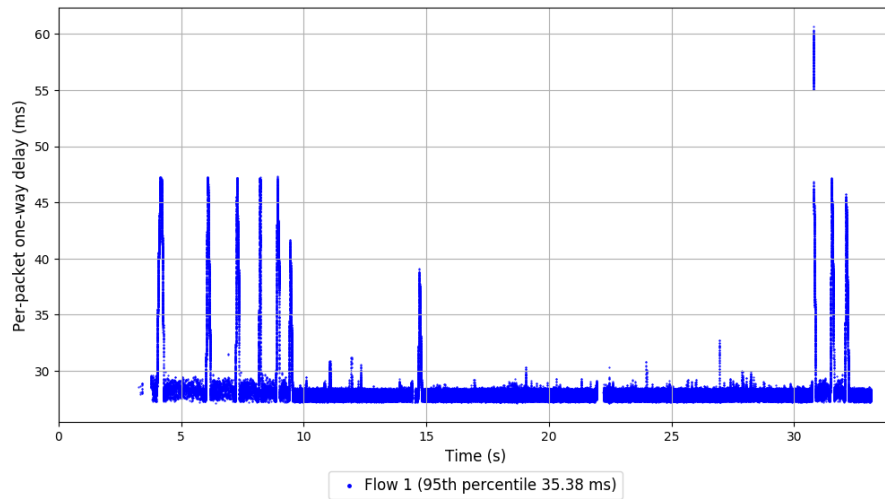
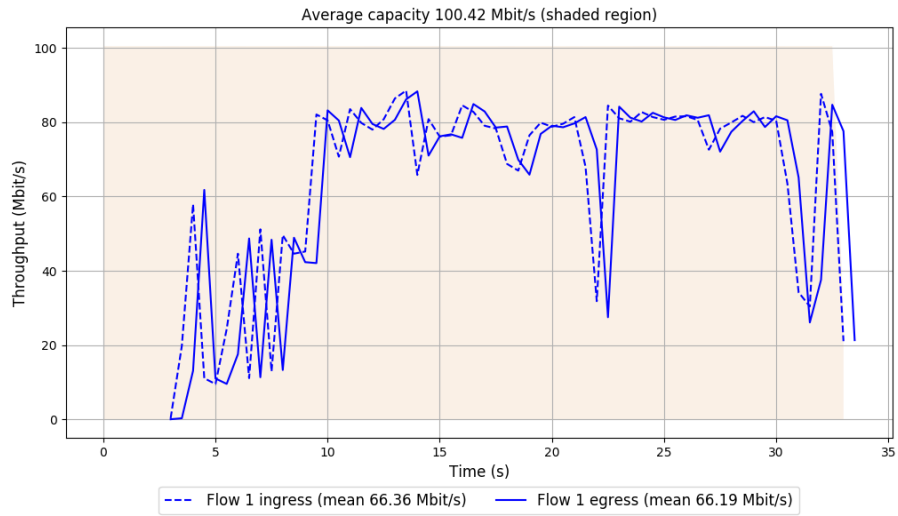
-- Flow 1:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 35.383 ms

Loss rate: 0.35%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-24 06:26:24

End at: 2018-07-24 06:26:54

Below is generated by plot.py at 2018-07-24 08:05:26

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 64.84 Mbit/s (64.6% utilization)

95th percentile per-packet one-way delay: 33.381 ms

Loss rate: 0.27%

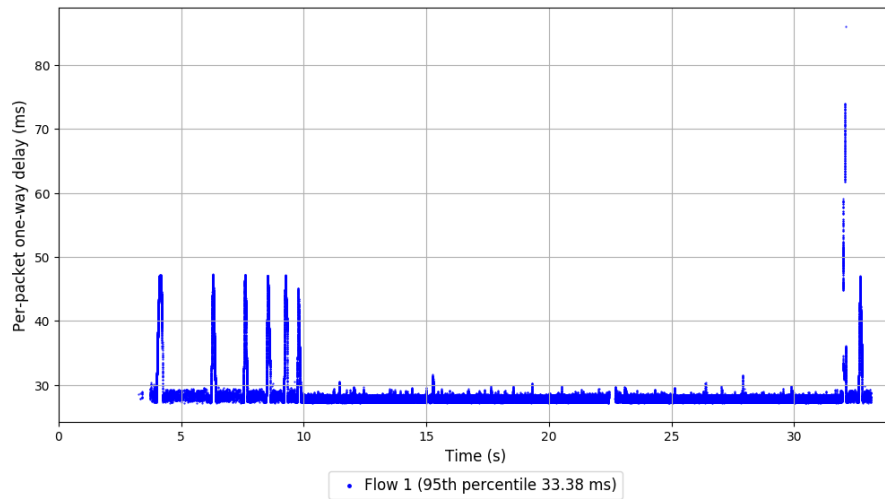
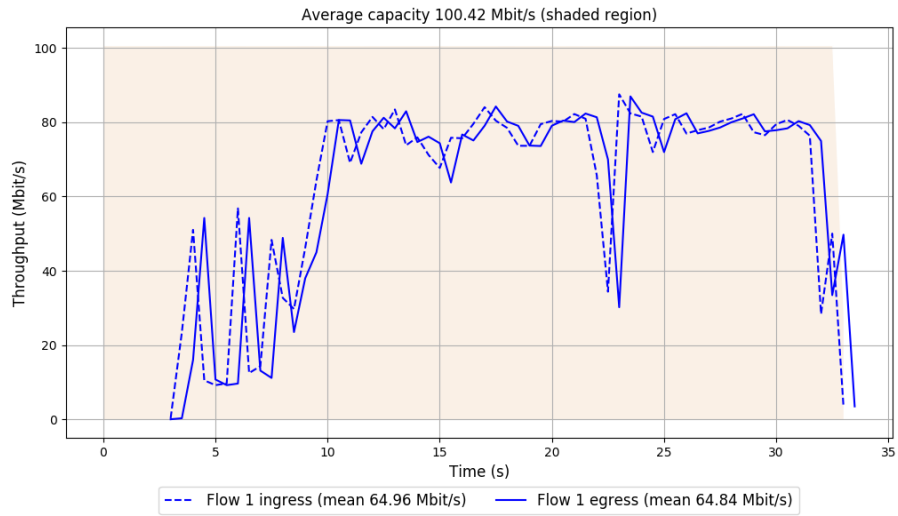
-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 33.381 ms

Loss rate: 0.27%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-24 06:37:30

End at: 2018-07-24 06:38:00

Below is generated by plot.py at 2018-07-24 08:05:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 69.37 Mbit/s (69.1% utilization)

95th percentile per-packet one-way delay: 29.069 ms

Loss rate: 0.33%

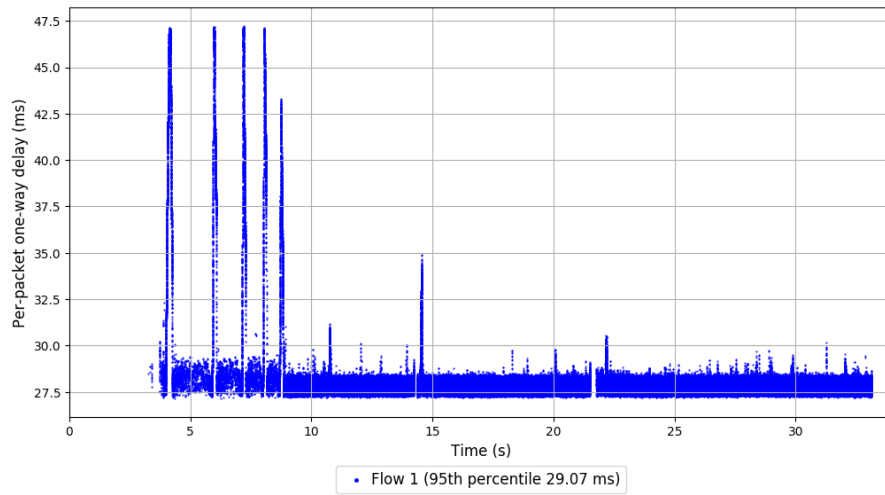
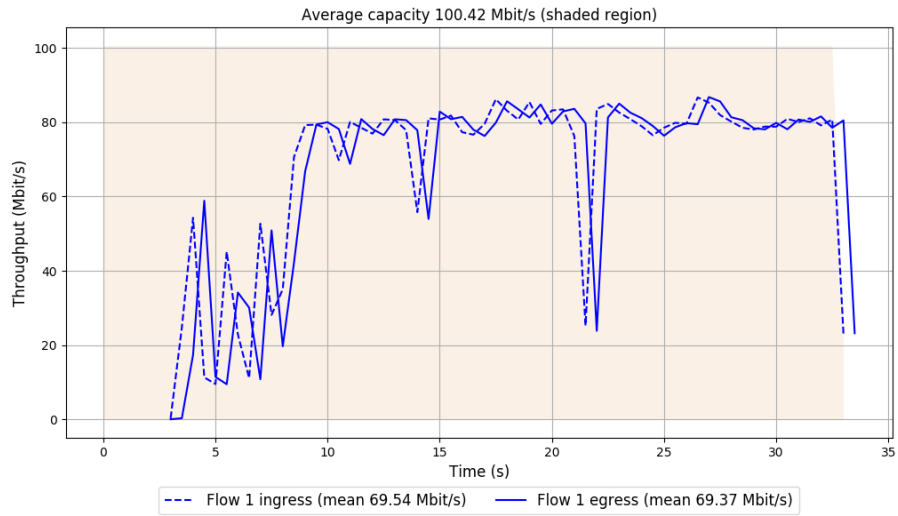
-- Flow 1:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 29.069 ms

Loss rate: 0.33%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-24 06:48:40

End at: 2018-07-24 06:49:10

Below is generated by plot.py at 2018-07-24 08:05:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 59.37 Mbit/s (59.1% utilization)

95th percentile per-packet one-way delay: 37.059 ms

Loss rate: 0.54%

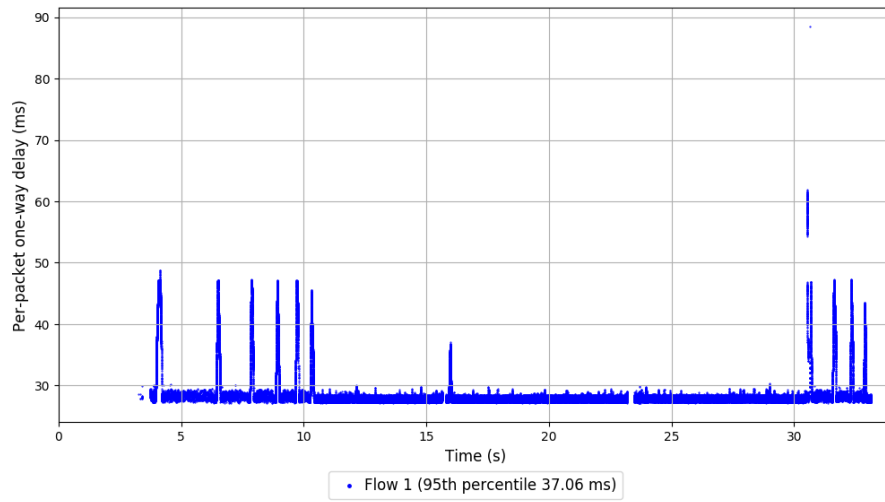
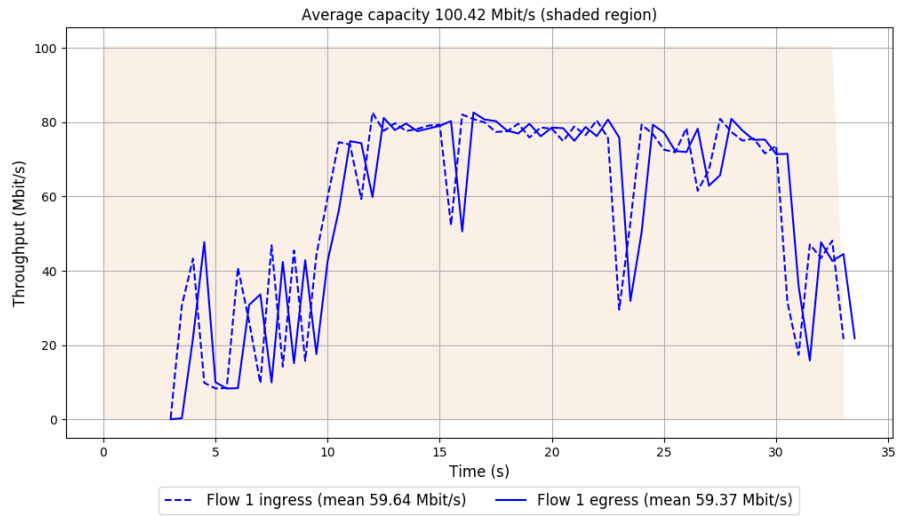
-- Flow 1:

Average throughput: 59.37 Mbit/s

95th percentile per-packet one-way delay: 37.059 ms

Loss rate: 0.54%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-24 06:59:52

End at: 2018-07-24 07:00:22

Below is generated by plot.py at 2018-07-24 08:05:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 64.69 Mbit/s (64.4% utilization)

95th percentile per-packet one-way delay: 31.857 ms

Loss rate: 0.35%

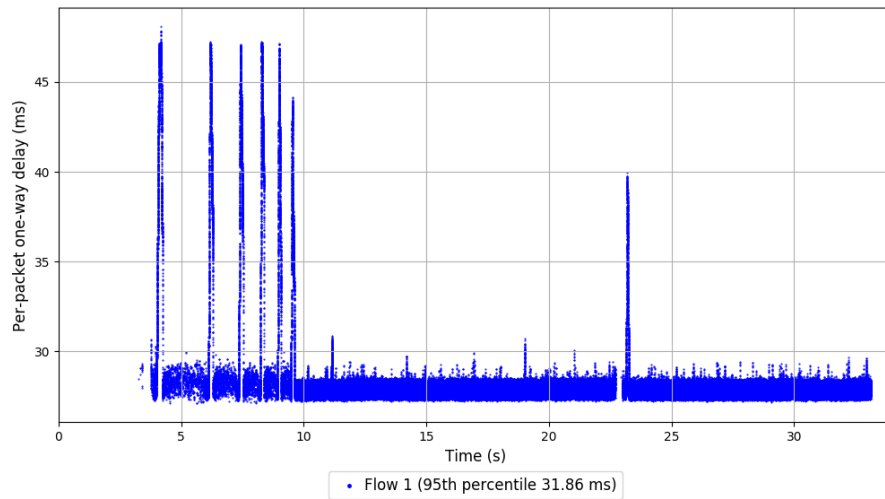
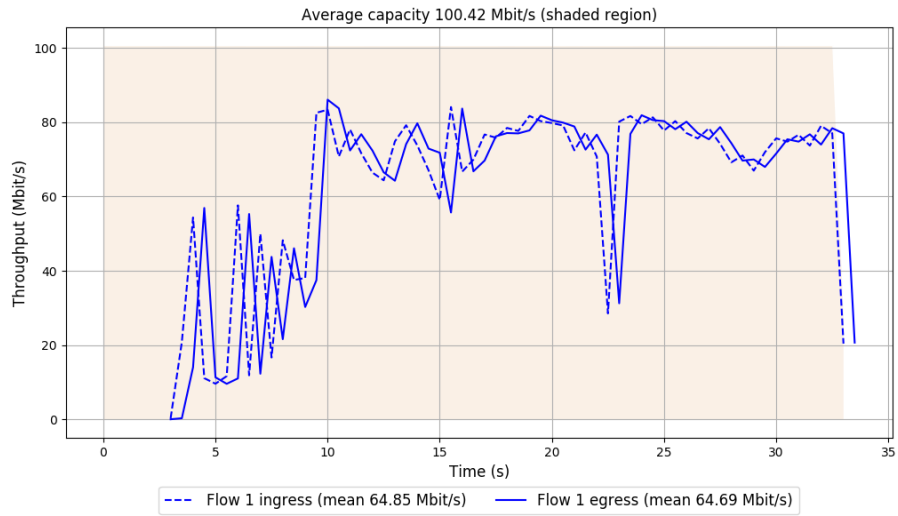
-- Flow 1:

Average throughput: 64.69 Mbit/s

95th percentile per-packet one-way delay: 31.857 ms

Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-24 07:11:01

End at: 2018-07-24 07:11:32

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 73.57 Mbit/s (73.3% utilization)

95th percentile per-packet one-way delay: 28.376 ms

Loss rate: 0.09%

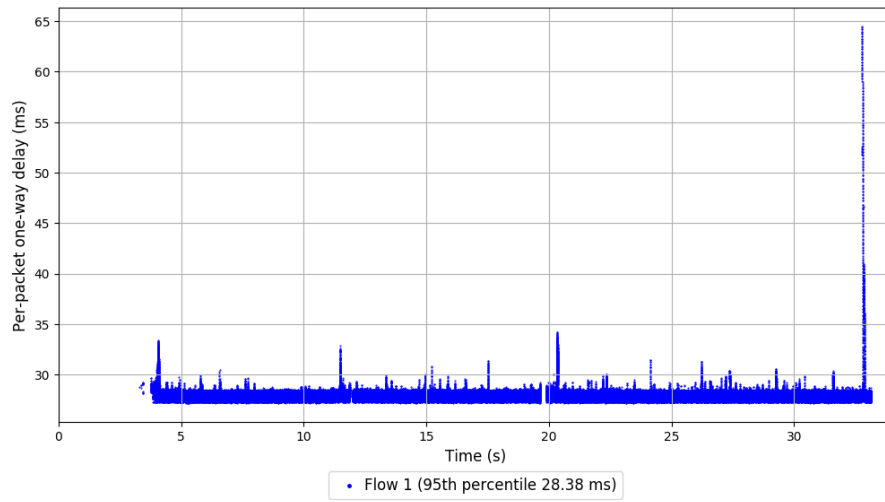
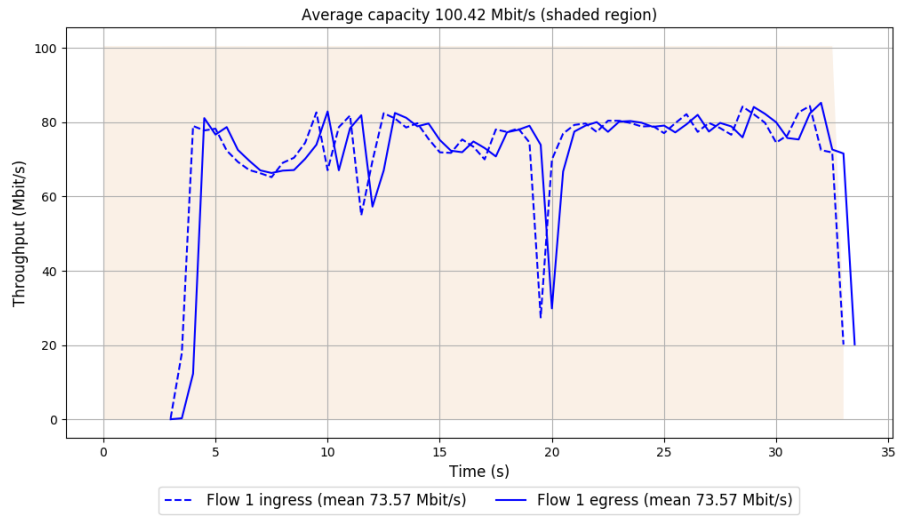
-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 28.376 ms

Loss rate: 0.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-24 07:22:12

End at: 2018-07-24 07:22:42

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 67.78 Mbit/s (67.5% utilization)

95th percentile per-packet one-way delay: 35.843 ms

Loss rate: 0.36%

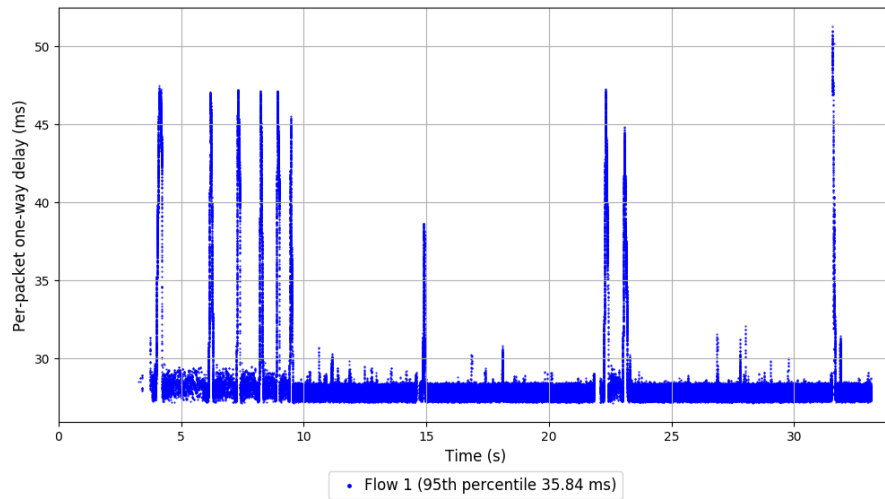
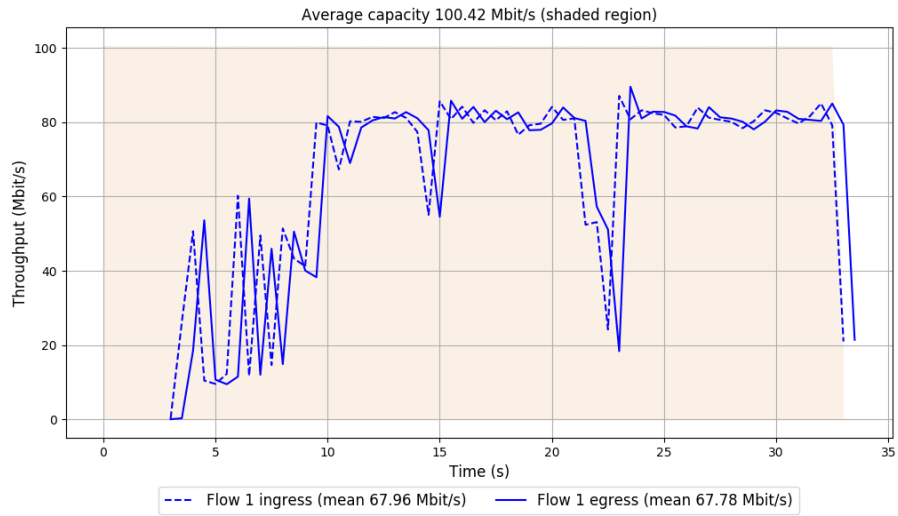
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 35.843 ms

Loss rate: 0.36%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-07-24 05:44:26

End at: 2018-07-24 05:44:56

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.714 ms

Loss rate: 0.13%

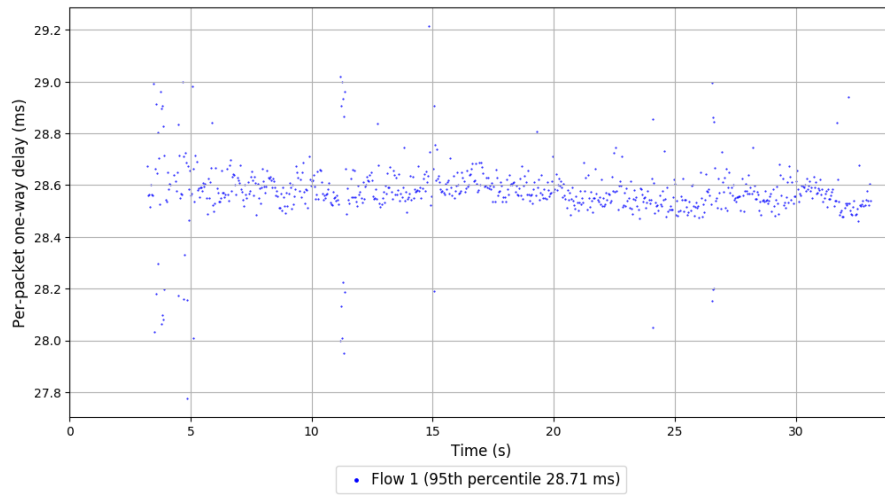
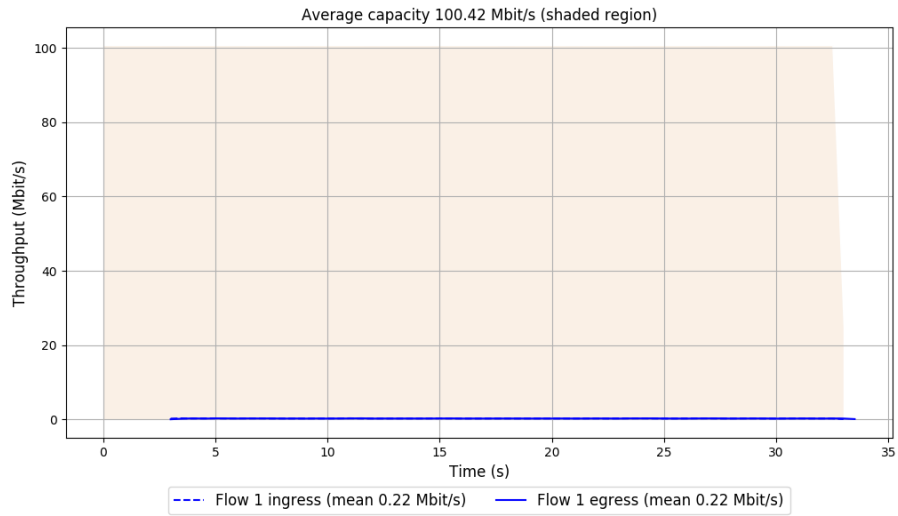
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.714 ms

Loss rate: 0.13%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-24 05:55:29

End at: 2018-07-24 05:55:59

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.701 ms

Loss rate: 0.13%

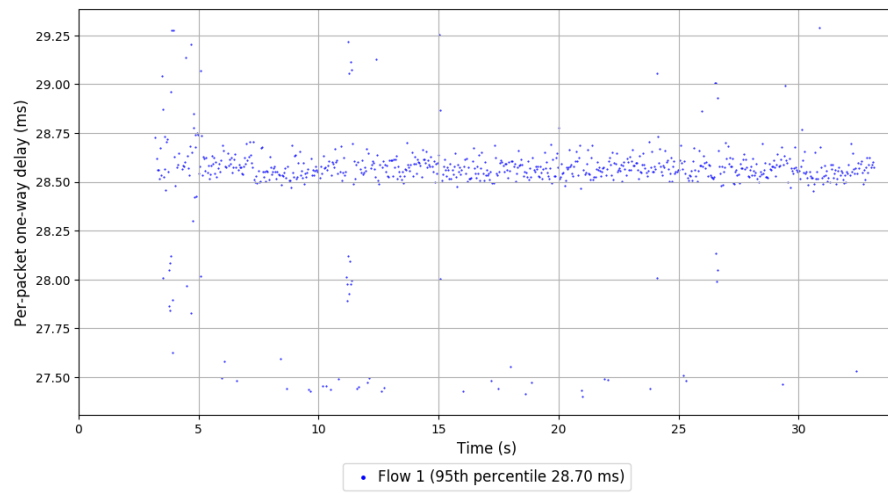
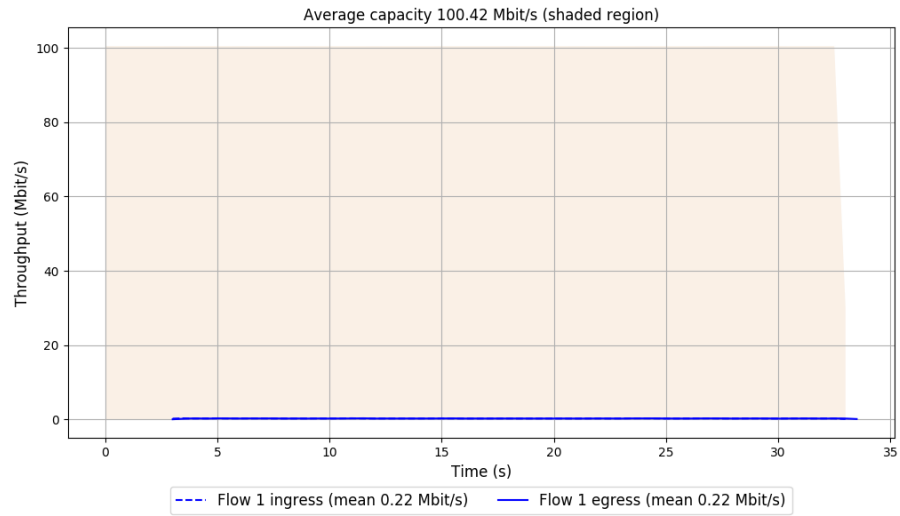
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.701 ms

Loss rate: 0.13%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-24 06:06:37

End at: 2018-07-24 06:07:07

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.704 ms

Loss rate: 0.13%

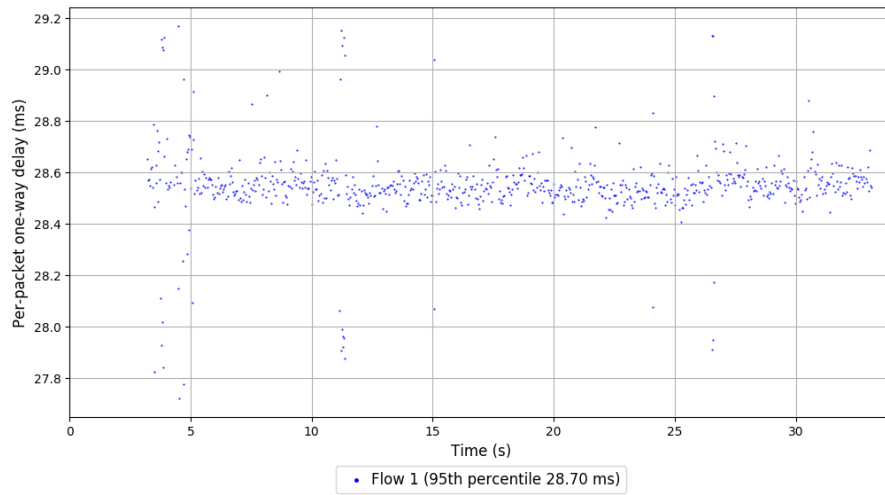
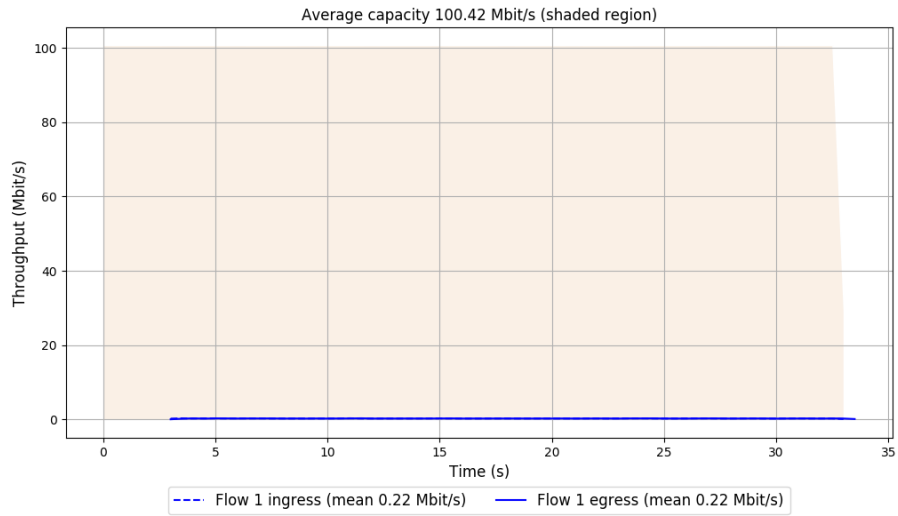
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.704 ms

Loss rate: 0.13%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-24 06:17:47

End at: 2018-07-24 06:18:17

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.728 ms

Loss rate: 0.13%

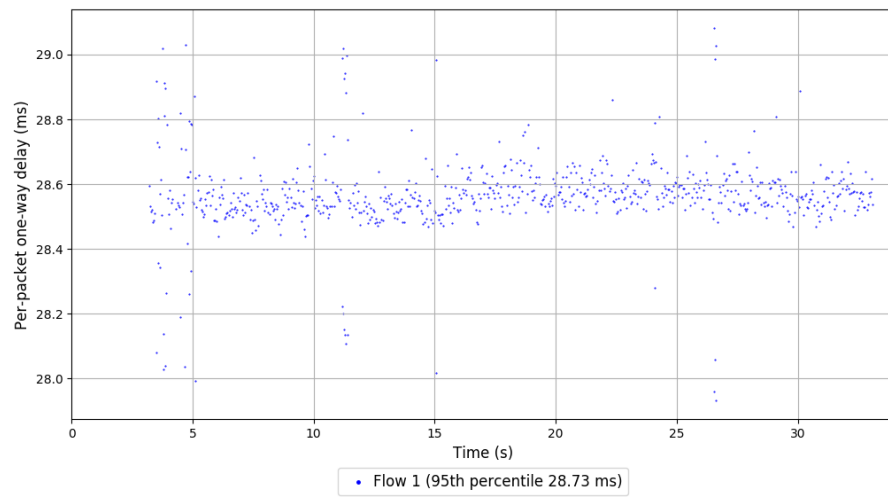
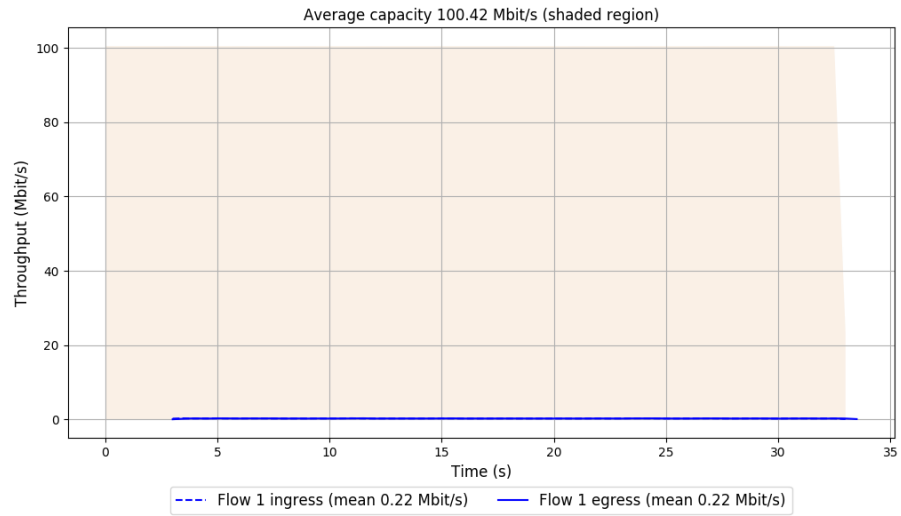
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.728 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-24 06:28:54

End at: 2018-07-24 06:29:24

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.697 ms

Loss rate: 0.13%

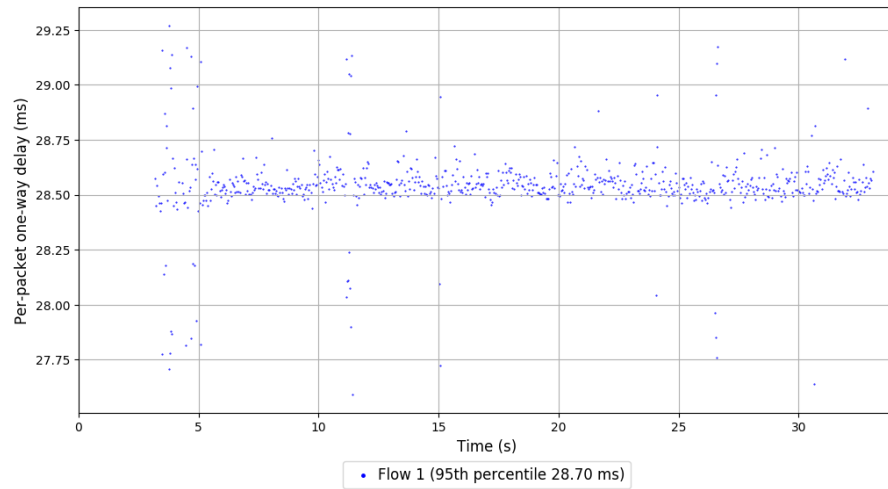
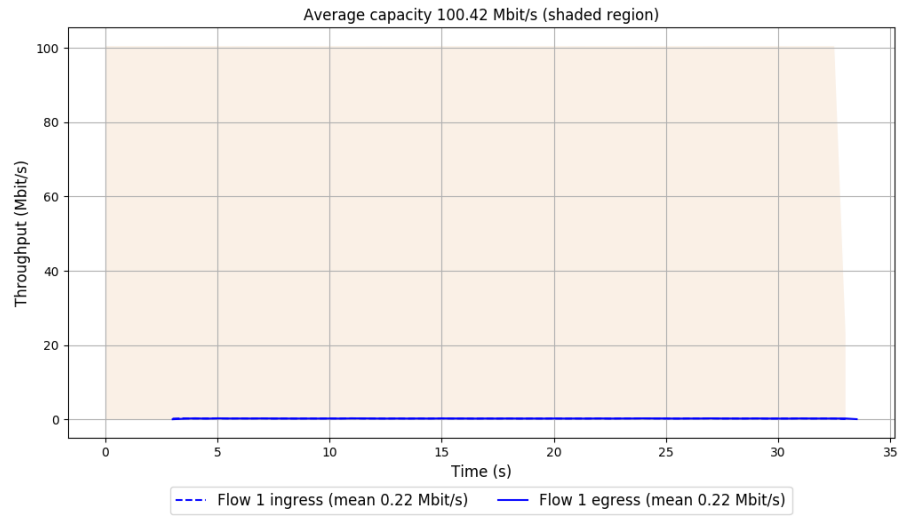
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.697 ms

Loss rate: 0.13%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-24 06:40:04

End at: 2018-07-24 06:40:34

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.707 ms

Loss rate: 0.13%

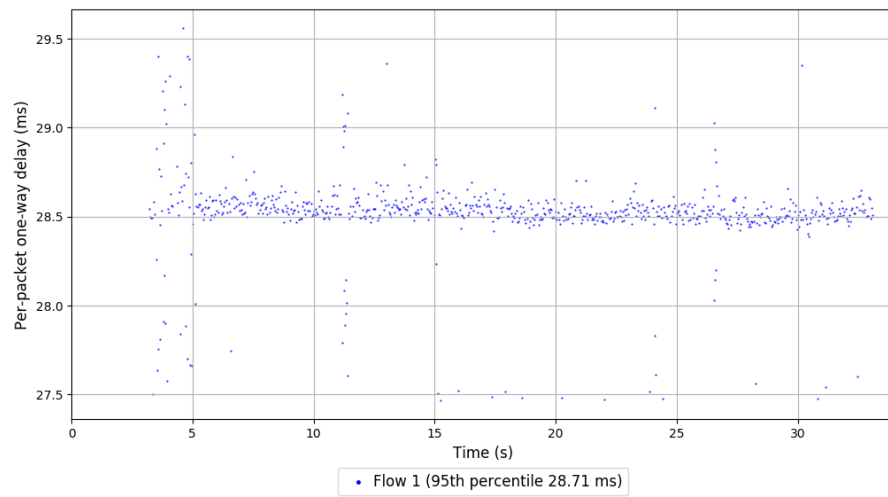
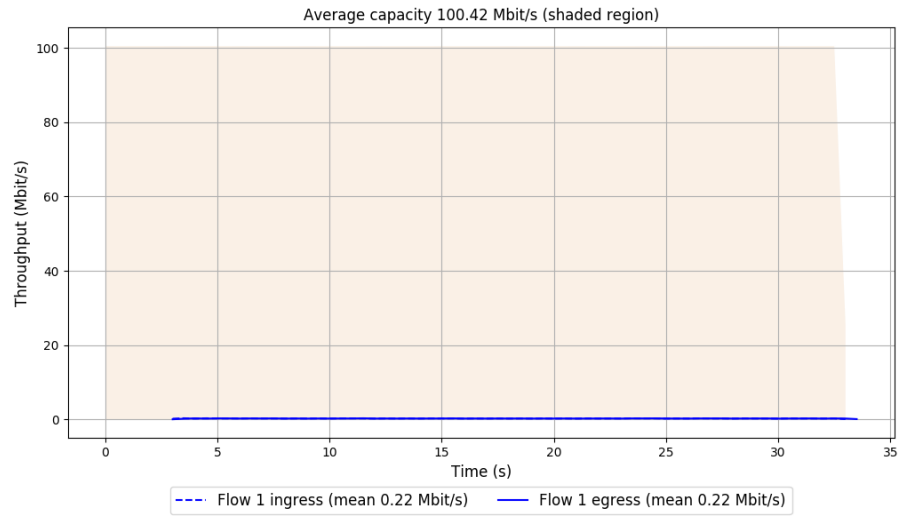
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.707 ms

Loss rate: 0.13%

Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-24 06:51:14

End at: 2018-07-24 06:51:44

Below is generated by plot.py at 2018-07-24 08:06:11

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.672 ms

Loss rate: 0.13%

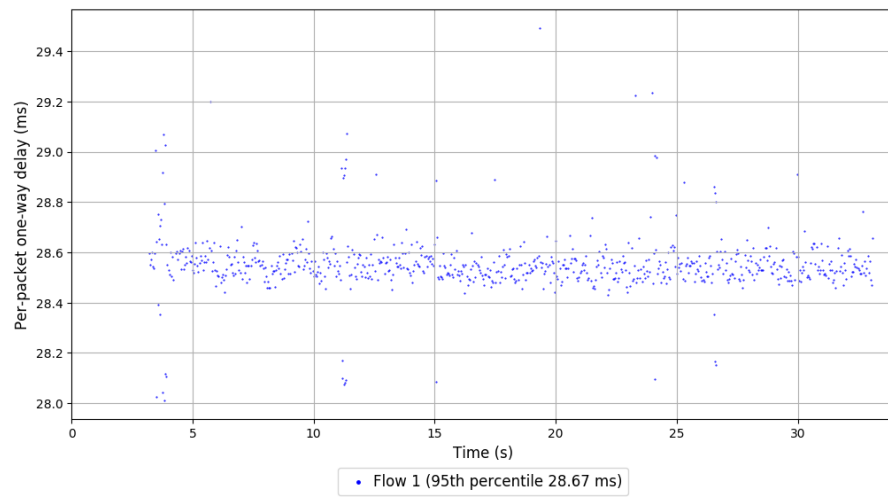
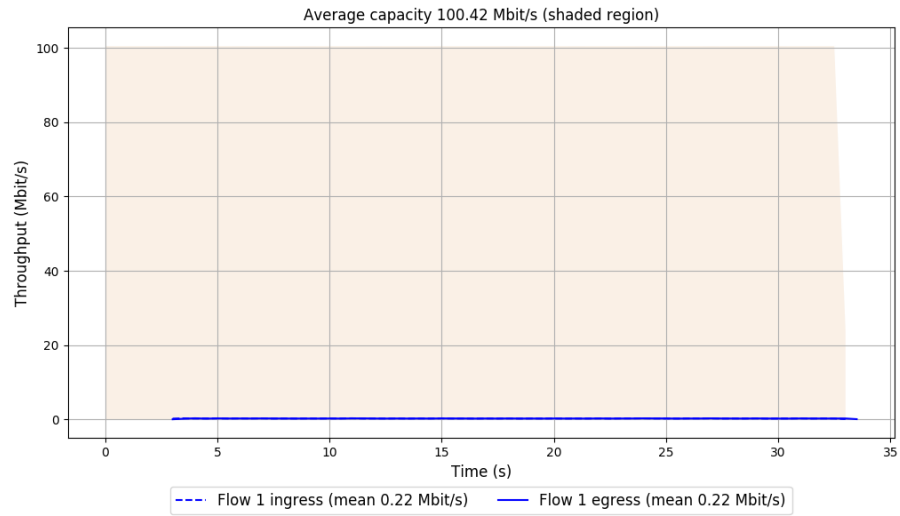
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.672 ms

Loss rate: 0.13%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-24 07:02:26

End at: 2018-07-24 07:02:56

Below is generated by plot.py at 2018-07-24 08:06:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.722 ms

Loss rate: 0.00%

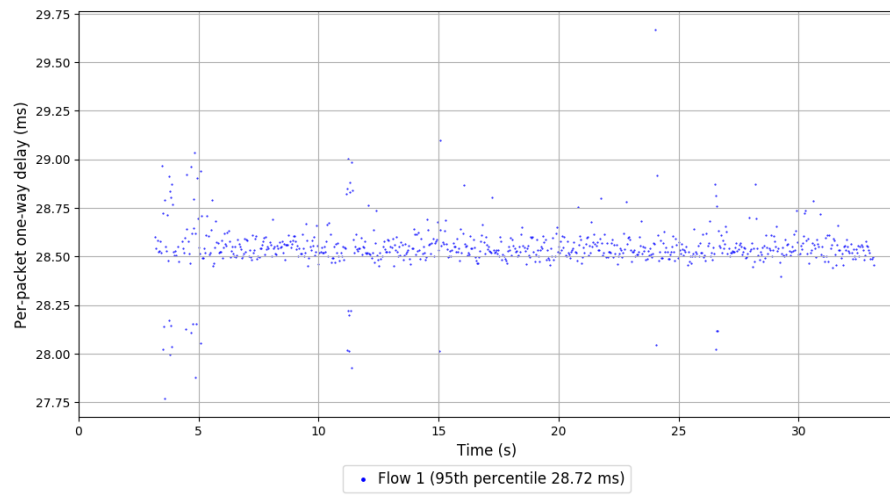
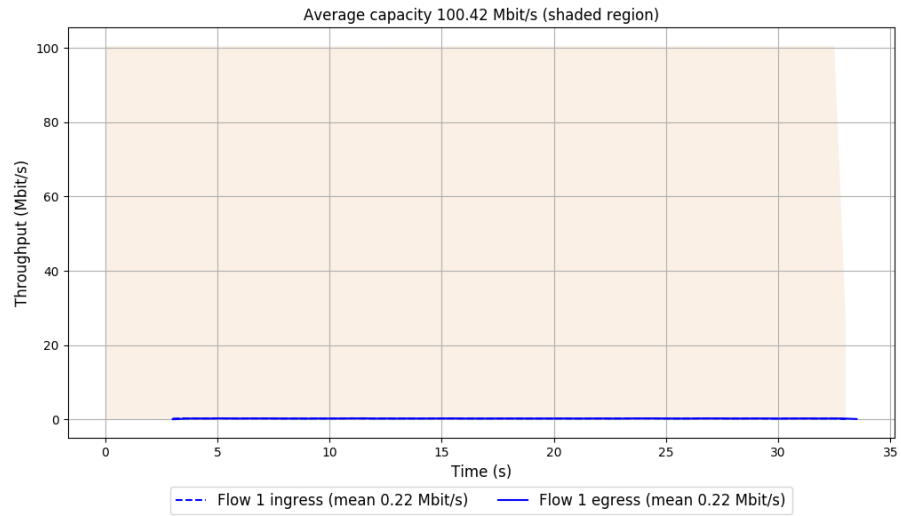
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.722 ms

Loss rate: 0.00%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-24 07:13:37

End at: 2018-07-24 07:14:07

Below is generated by plot.py at 2018-07-24 08:06:21

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.733 ms

Loss rate: 0.13%

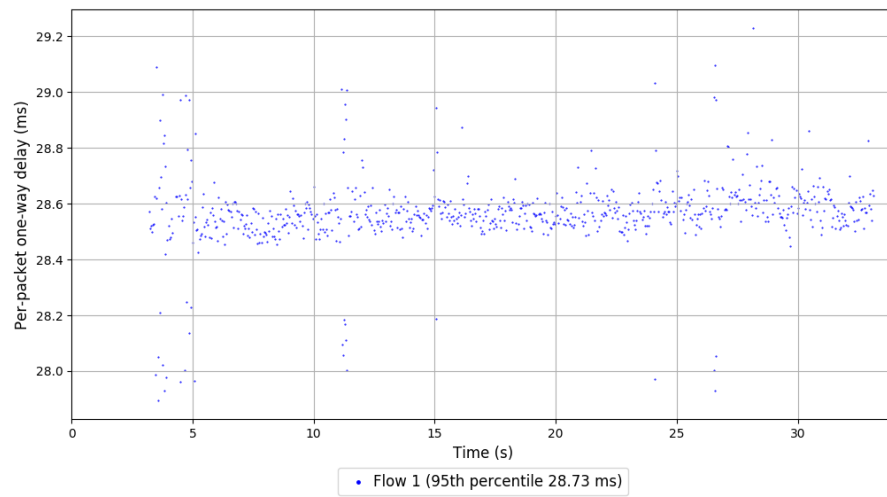
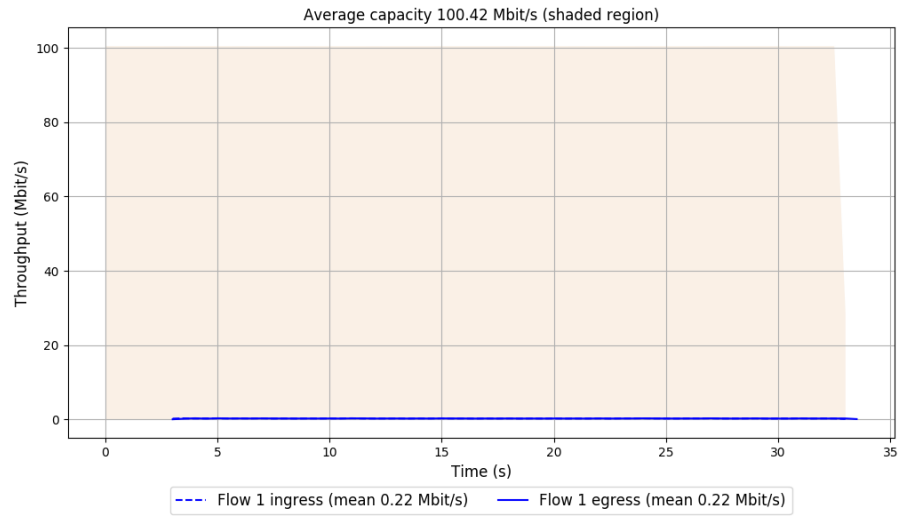
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.733 ms

Loss rate: 0.13%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-24 07:24:46

End at: 2018-07-24 07:25:16

Below is generated by plot.py at 2018-07-24 08:06:25

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 0.22 Mbit/s (0.2% utilization)

95th percentile per-packet one-way delay: 28.762 ms

Loss rate: 0.00%

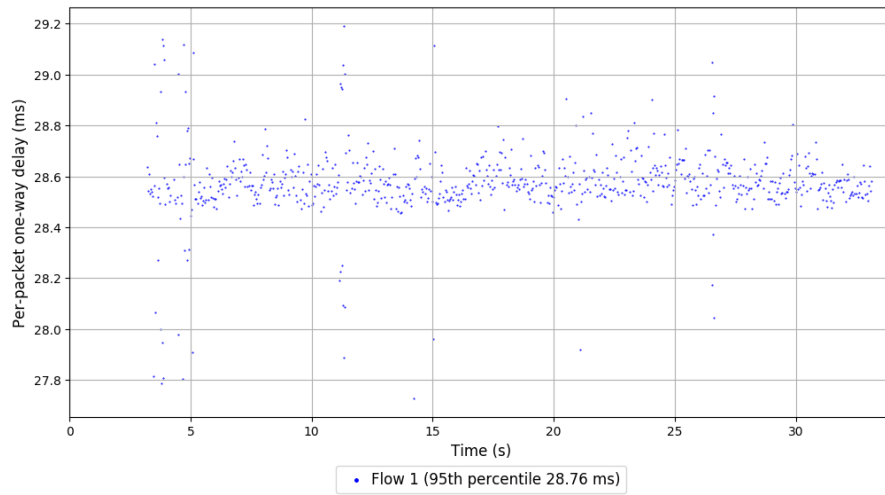
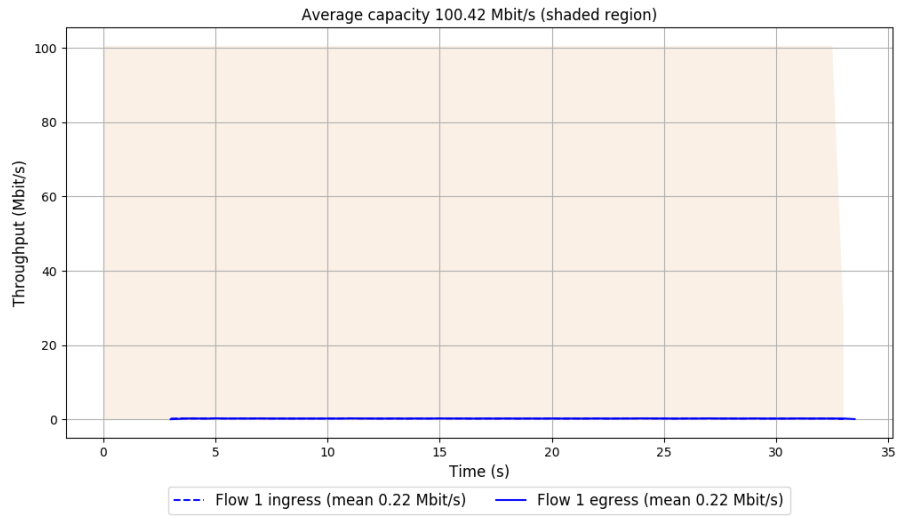
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 28.762 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-24 05:43:50

End at: 2018-07-24 05:44:20

Below is generated by plot.py at 2018-07-24 08:06:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.78 Mbit/s (11.7% utilization)

95th percentile per-packet one-way delay: 34.630 ms

Loss rate: 0.13%

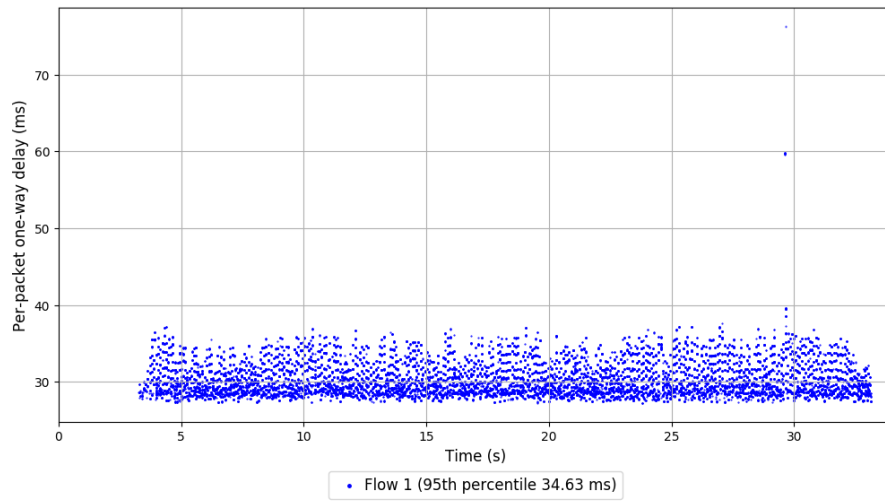
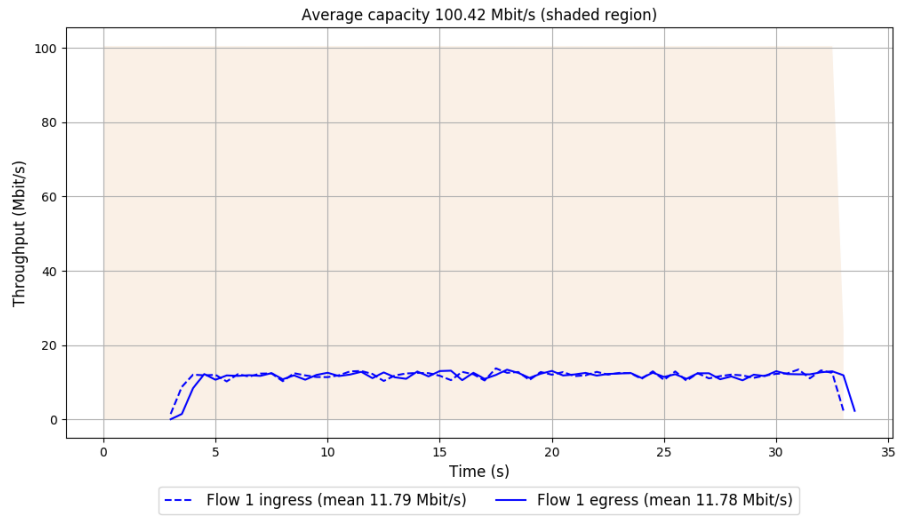
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 34.630 ms

Loss rate: 0.13%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-24 05:54:53

End at: 2018-07-24 05:55:23

Below is generated by plot.py at 2018-07-24 08:06:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 12.01 Mbit/s (12.0% utilization)

95th percentile per-packet one-way delay: 34.341 ms

Loss rate: 0.10%

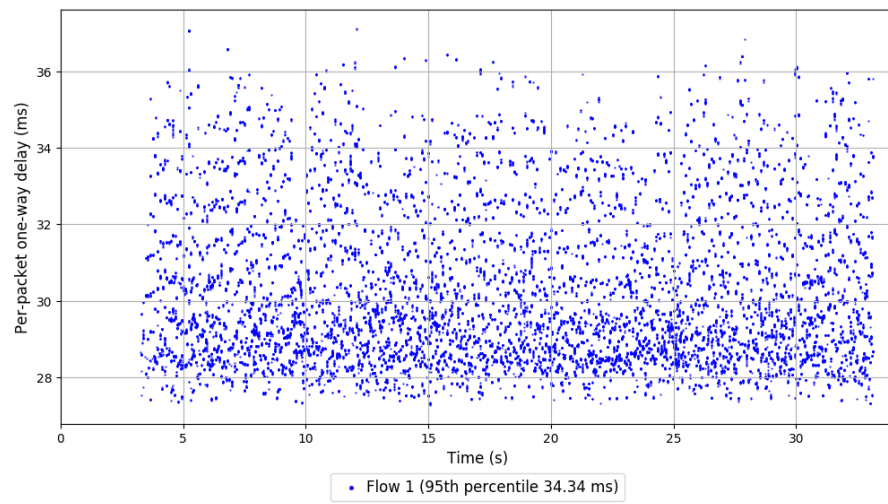
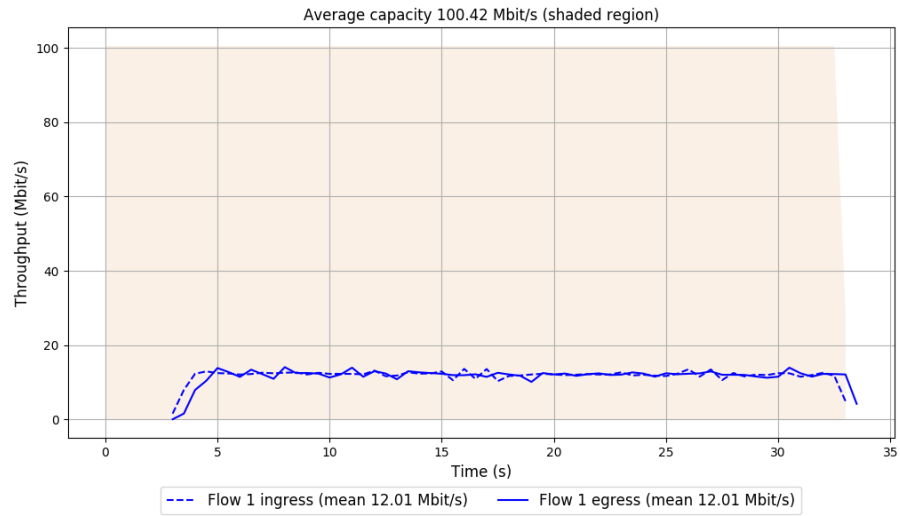
-- Flow 1:

Average throughput: 12.01 Mbit/s

95th percentile per-packet one-way delay: 34.341 ms

Loss rate: 0.10%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-24 06:06:01

End at: 2018-07-24 06:06:31

Below is generated by plot.py at 2018-07-24 08:06:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.90 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 34.407 ms

Loss rate: 0.19%

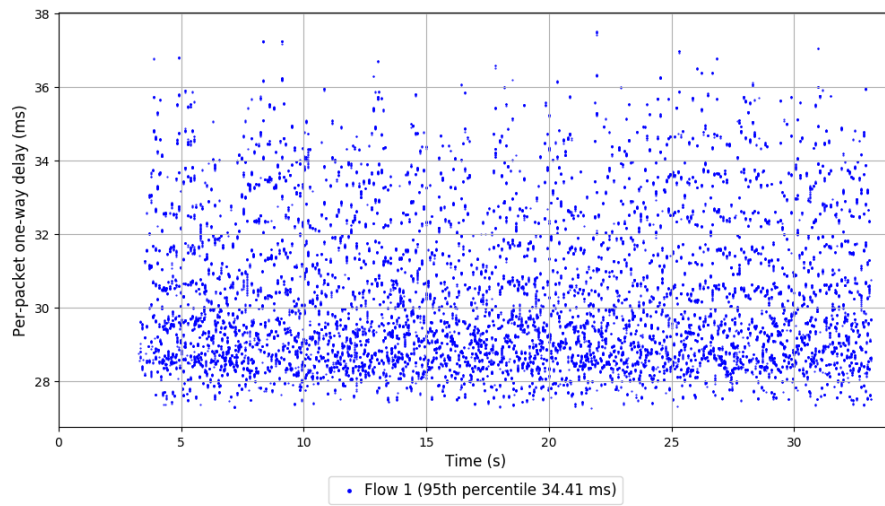
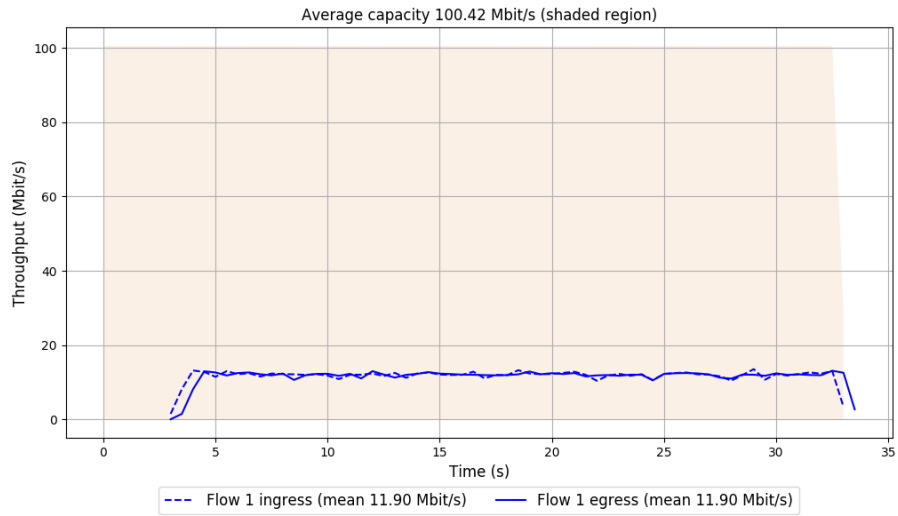
-- Flow 1:

Average throughput: 11.90 Mbit/s

95th percentile per-packet one-way delay: 34.407 ms

Loss rate: 0.19%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-24 06:17:11

End at: 2018-07-24 06:17:41

Below is generated by plot.py at 2018-07-24 08:06:44

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.78 Mbit/s (11.7% utilization)

95th percentile per-packet one-way delay: 34.562 ms

Loss rate: 0.04%

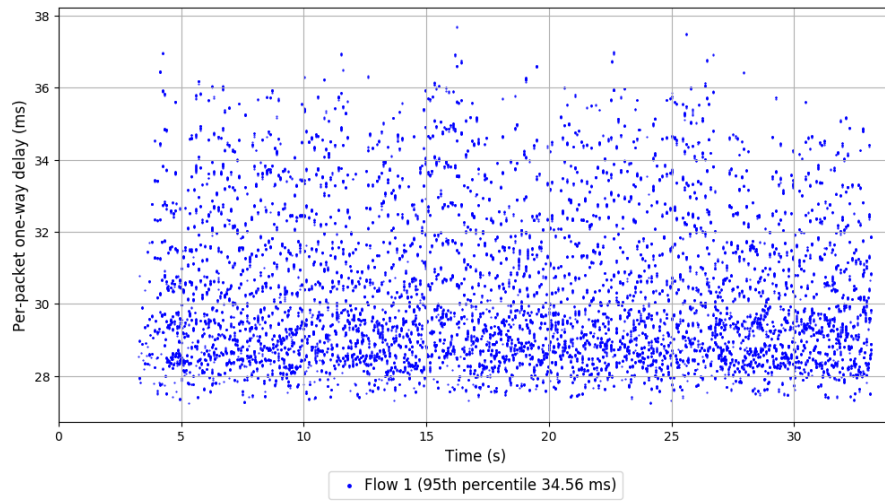
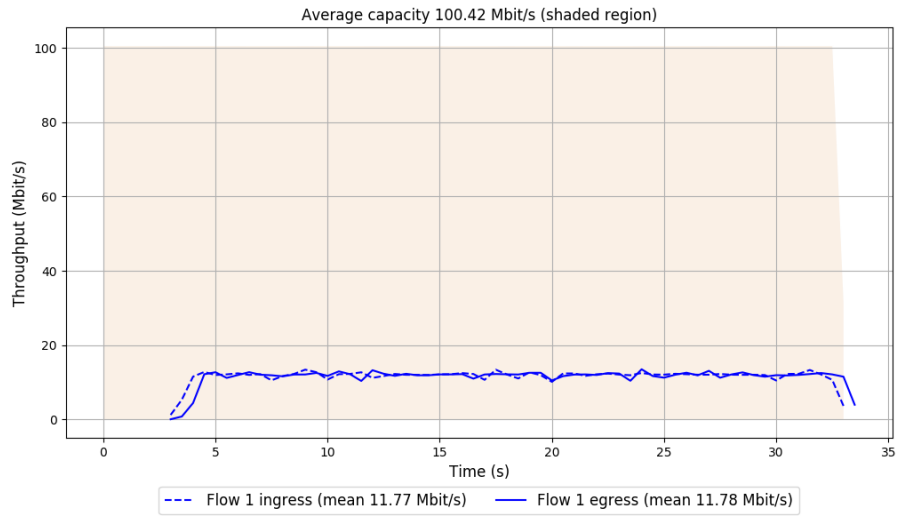
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 34.562 ms

Loss rate: 0.04%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-24 06:28:18

End at: 2018-07-24 06:28:48

Below is generated by plot.py at 2018-07-24 08:06:50

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.91 Mbit/s (11.9% utilization)

95th percentile per-packet one-way delay: 34.483 ms

Loss rate: 0.09%

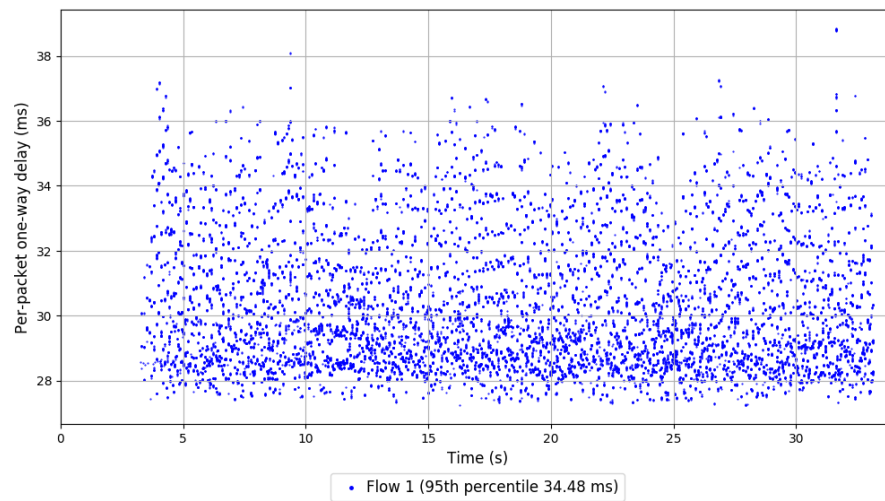
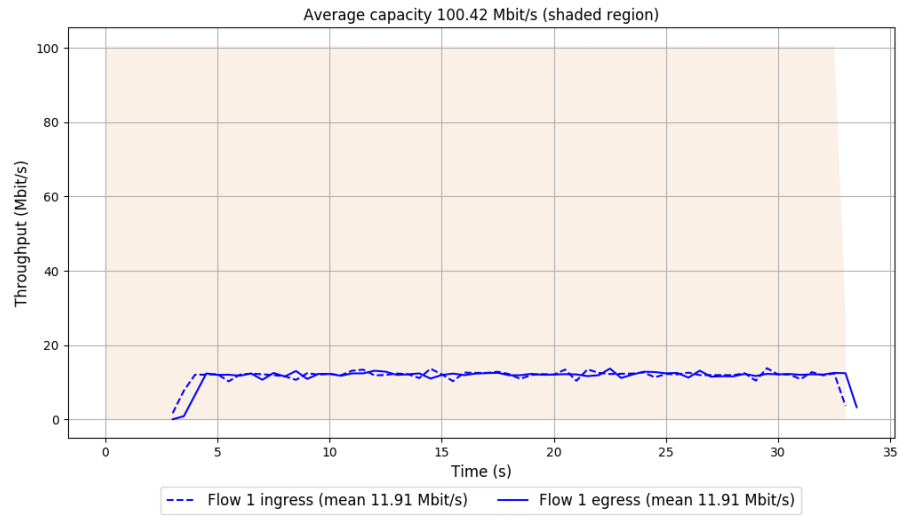
-- Flow 1:

Average throughput: 11.91 Mbit/s

95th percentile per-packet one-way delay: 34.483 ms

Loss rate: 0.09%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-24 06:39:28

End at: 2018-07-24 06:39:58

Below is generated by plot.py at 2018-07-24 08:06:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.81 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 34.432 ms

Loss rate: 0.23%

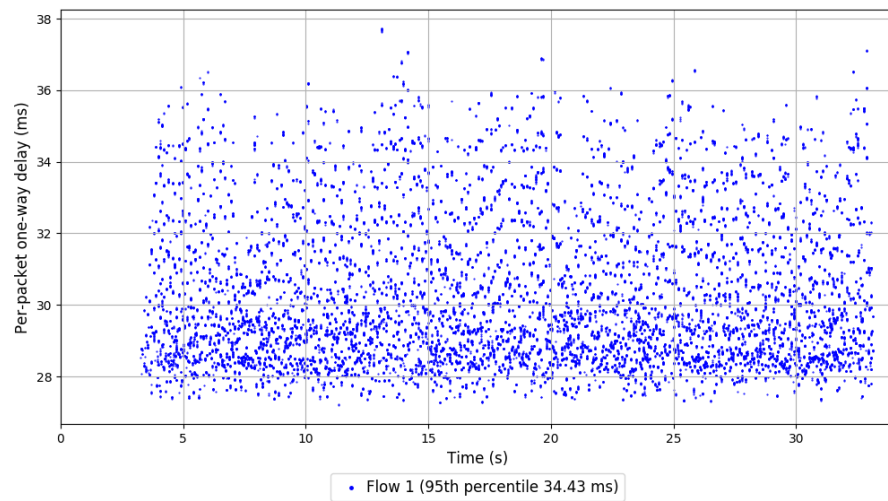
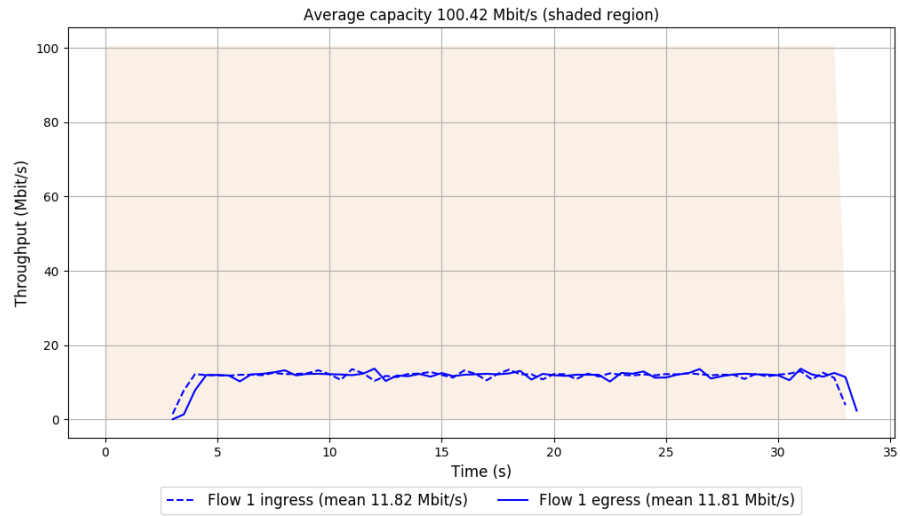
-- Flow 1:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 34.432 ms

Loss rate: 0.23%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-24 06:50:38

End at: 2018-07-24 06:51:08

Below is generated by plot.py at 2018-07-24 08:07:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.87 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 34.555 ms

Loss rate: 0.20%

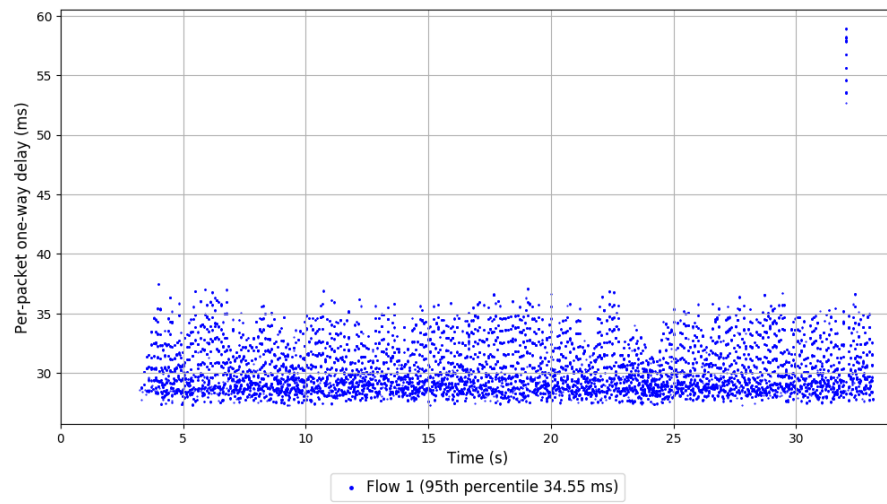
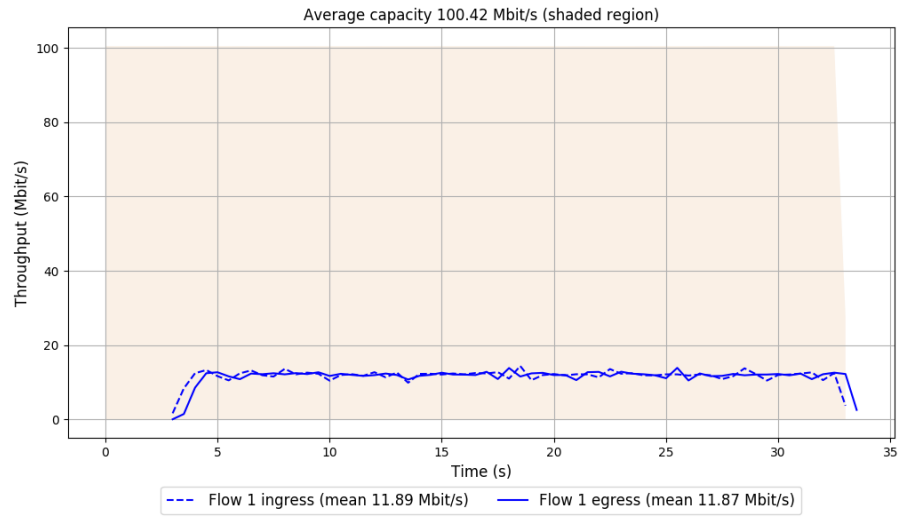
-- Flow 1:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 34.555 ms

Loss rate: 0.20%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-24 07:01:50

End at: 2018-07-24 07:02:20

Below is generated by plot.py at 2018-07-24 08:07:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 12.02 Mbit/s (12.0% utilization)

95th percentile per-packet one-way delay: 34.544 ms

Loss rate: 0.02%

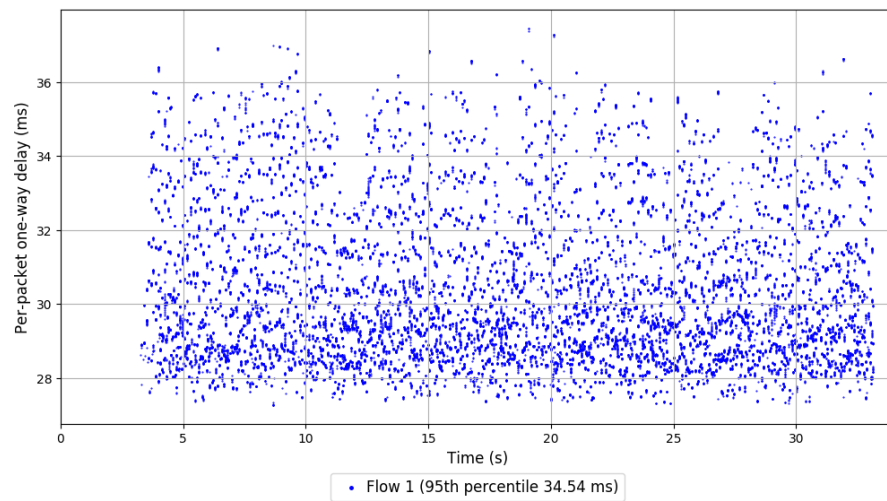
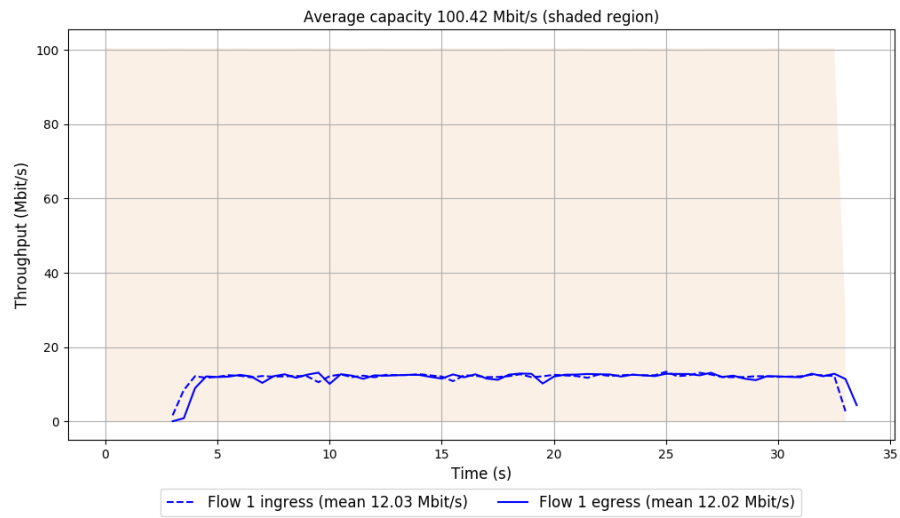
-- Flow 1:

Average throughput: 12.02 Mbit/s

95th percentile per-packet one-way delay: 34.544 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-24 07:13:00

End at: 2018-07-24 07:13:30

Below is generated by plot.py at 2018-07-24 08:07:14

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.86 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 34.619 ms

Loss rate: 0.00%

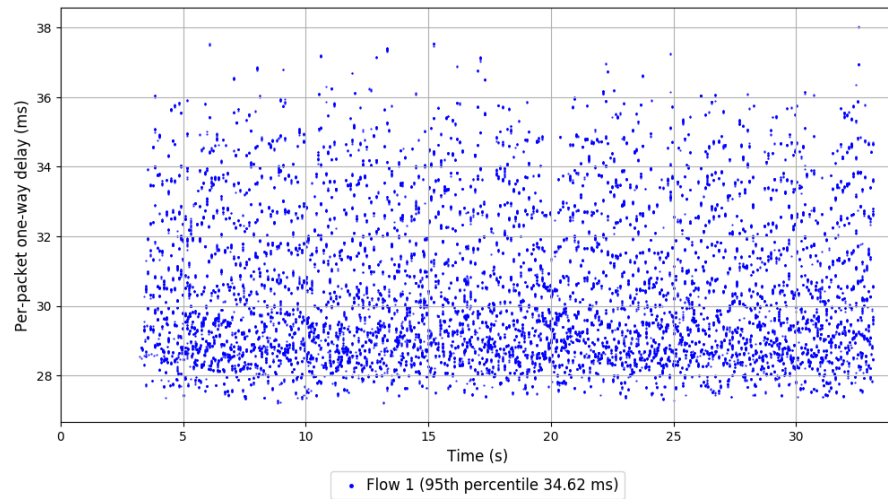
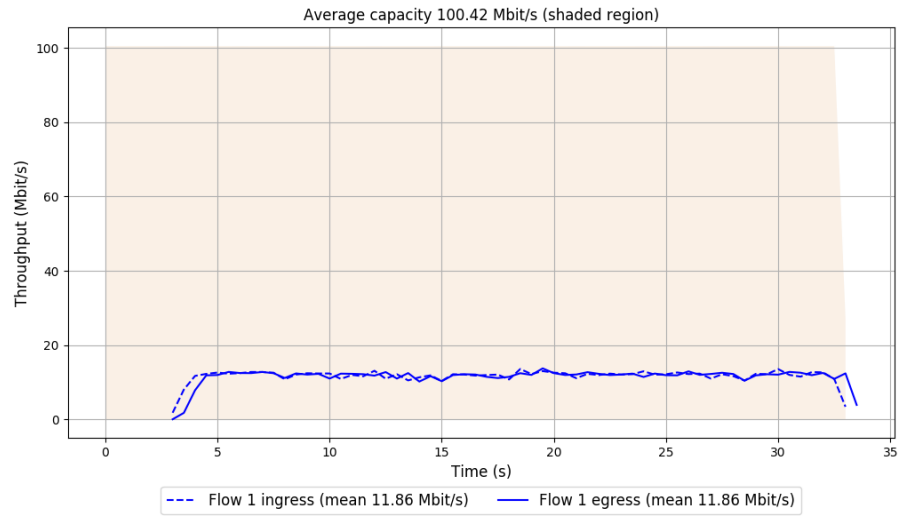
-- Flow 1:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 34.619 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-24 07:24:10

End at: 2018-07-24 07:24:40

Below is generated by plot.py at 2018-07-24 08:07:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 11.86 Mbit/s (11.8% utilization)

95th percentile per-packet one-way delay: 34.432 ms

Loss rate: 0.09%

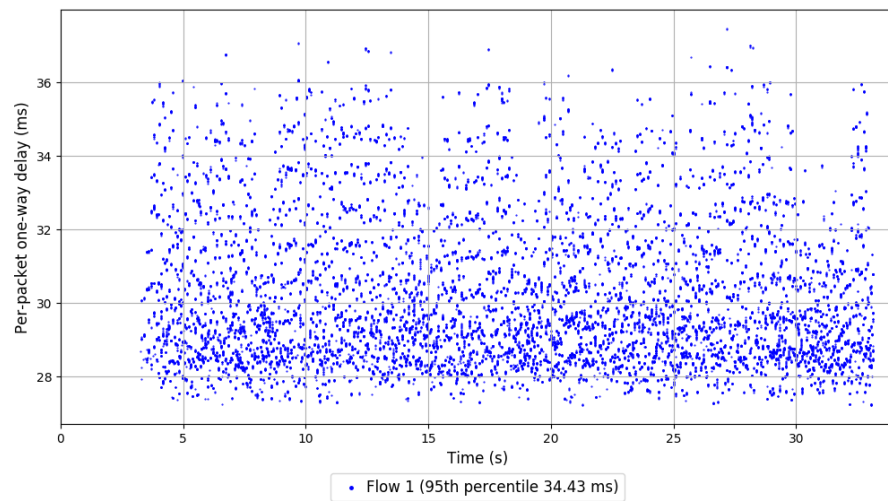
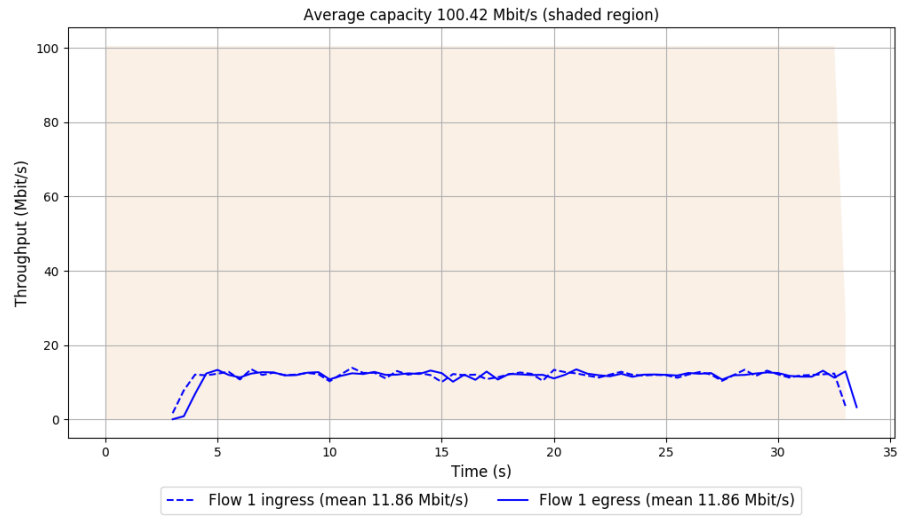
-- Flow 1:

Average throughput: 11.86 Mbit/s

95th percentile per-packet one-way delay: 34.432 ms

Loss rate: 0.09%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-24 05:48:22

End at: 2018-07-24 05:48:52

Below is generated by plot.py at 2018-07-24 08:09:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 88.20 Mbit/s (87.8% utilization)

95th percentile per-packet one-way delay: 38.091 ms

Loss rate: 0.75%

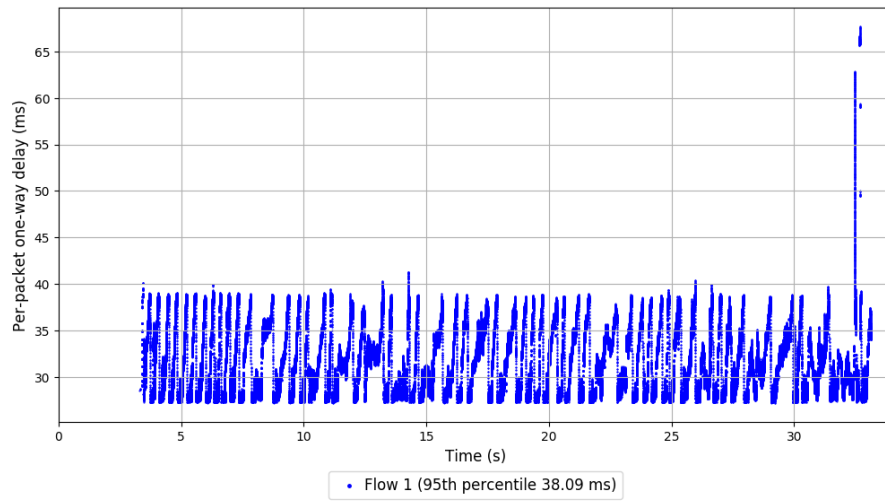
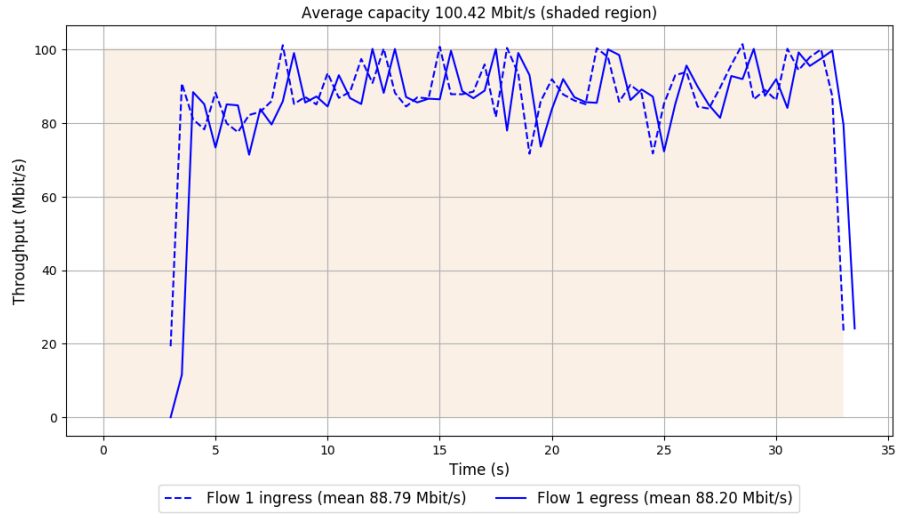
-- Flow 1:

Average throughput: 88.20 Mbit/s

95th percentile per-packet one-way delay: 38.091 ms

Loss rate: 0.75%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-24 05:59:22

End at: 2018-07-24 05:59:52

Below is generated by plot.py at 2018-07-24 08:09:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 77.77 Mbit/s (77.4% utilization)

95th percentile per-packet one-way delay: 38.565 ms

Loss rate: 3.73%

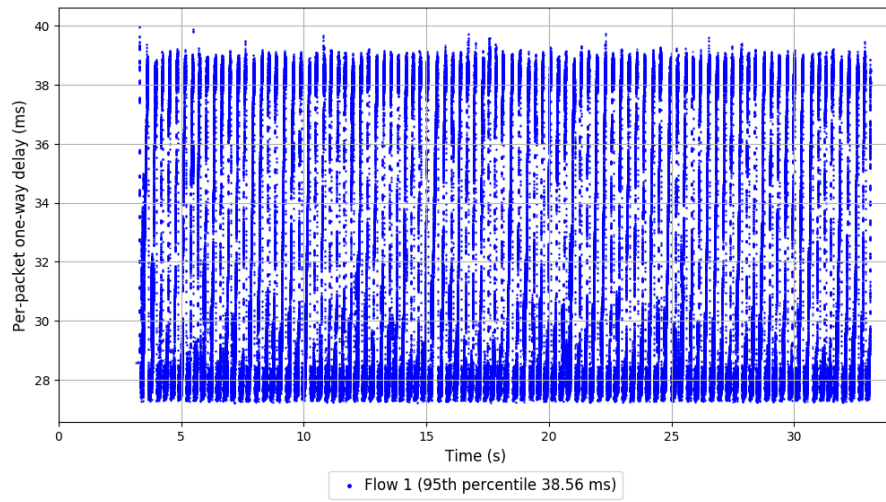
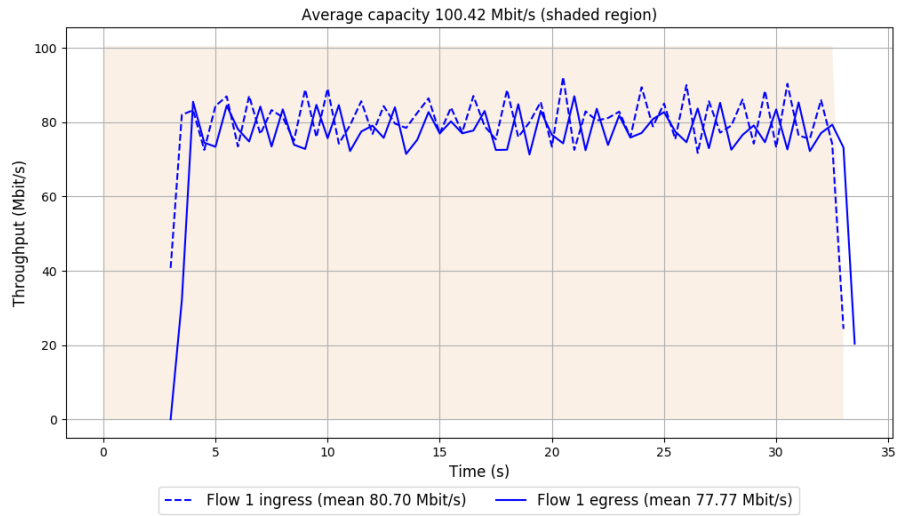
-- Flow 1:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 38.565 ms

Loss rate: 3.73%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-24 06:10:32

End at: 2018-07-24 06:11:02

Below is generated by plot.py at 2018-07-24 08:09:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 77.60 Mbit/s (77.3% utilization)

95th percentile per-packet one-way delay: 38.585 ms

Loss rate: 3.60%

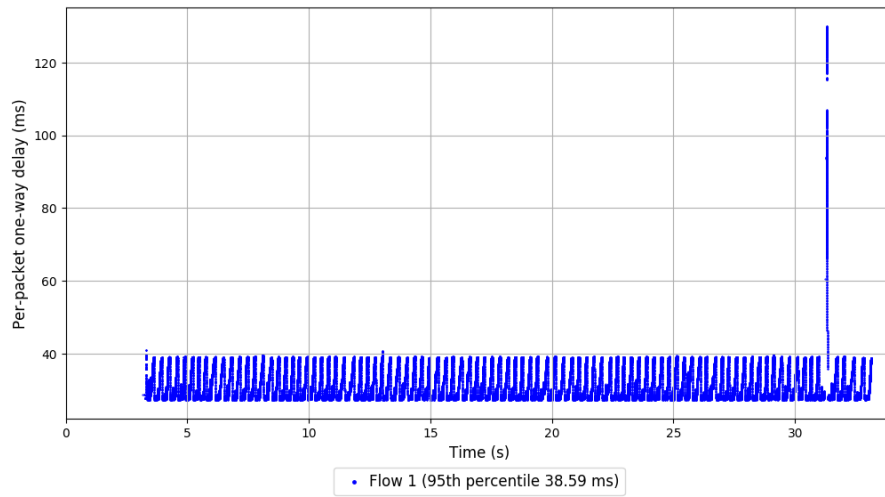
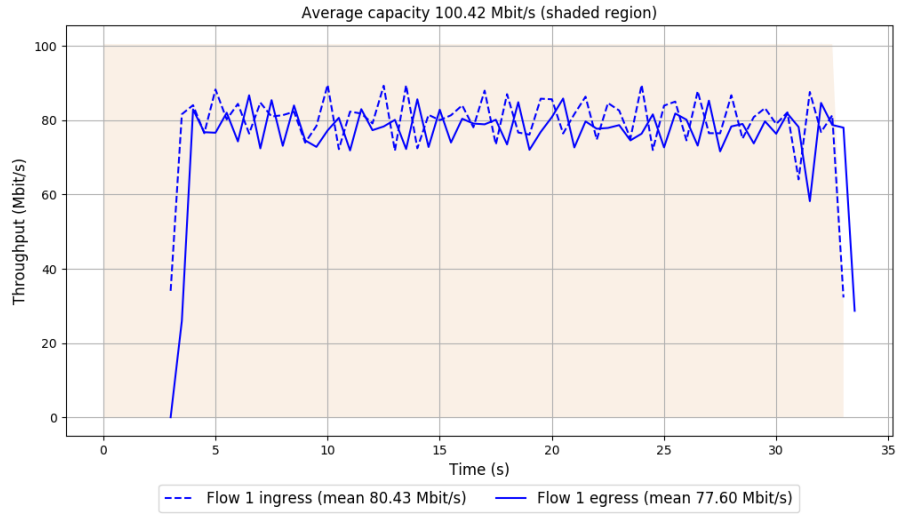
-- Flow 1:

Average throughput: 77.60 Mbit/s

95th percentile per-packet one-way delay: 38.585 ms

Loss rate: 3.60%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-24 06:21:43

End at: 2018-07-24 06:22:13

Below is generated by plot.py at 2018-07-24 08:09:58

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 79.41 Mbit/s (79.1% utilization)

95th percentile per-packet one-way delay: 38.479 ms

Loss rate: 2.34%

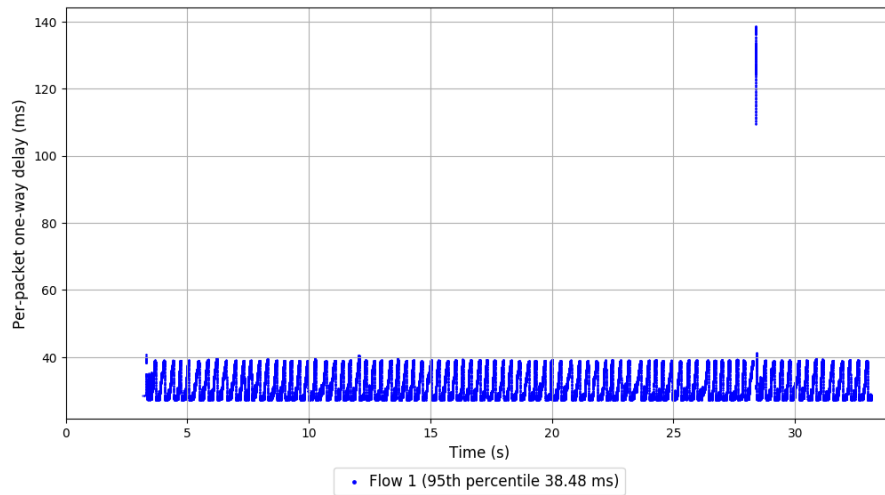
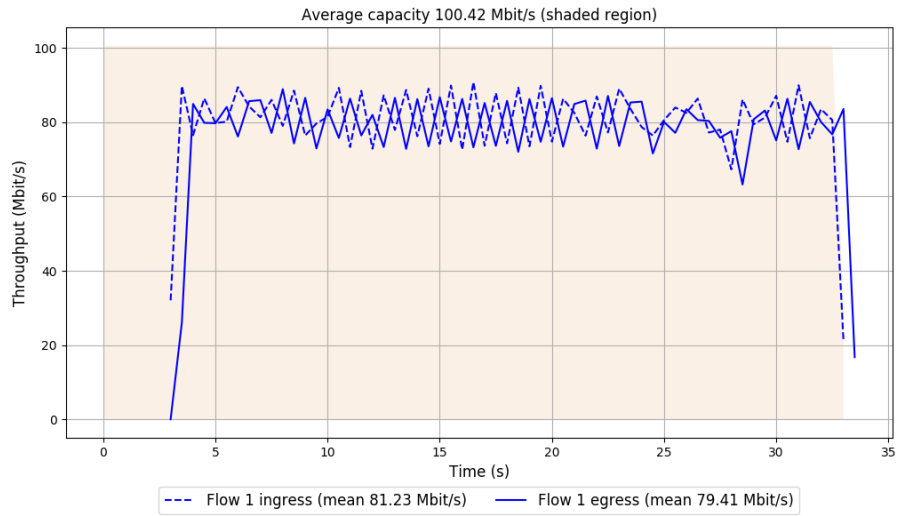
-- Flow 1:

Average throughput: 79.41 Mbit/s

95th percentile per-packet one-way delay: 38.479 ms

Loss rate: 2.34%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-24 06:32:49

End at: 2018-07-24 06:33:19

Below is generated by plot.py at 2018-07-24 08:10:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 90.09 Mbit/s (89.7% utilization)

95th percentile per-packet one-way delay: 38.055 ms

Loss rate: 0.65%

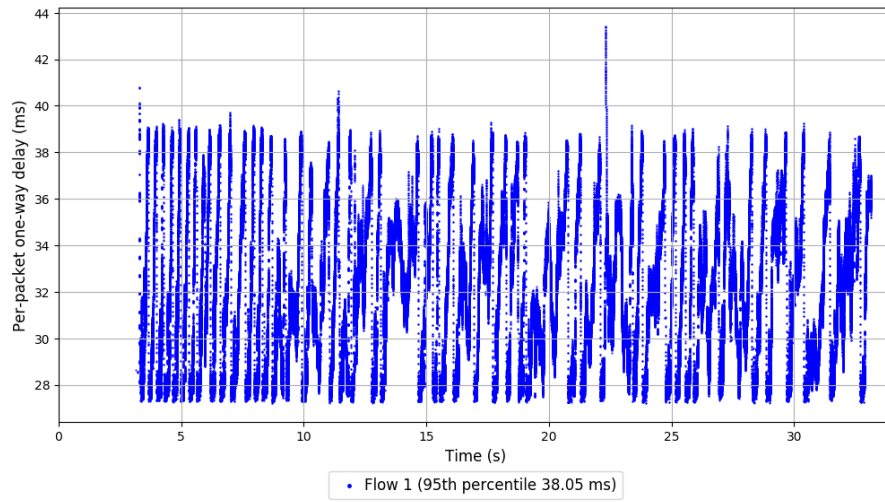
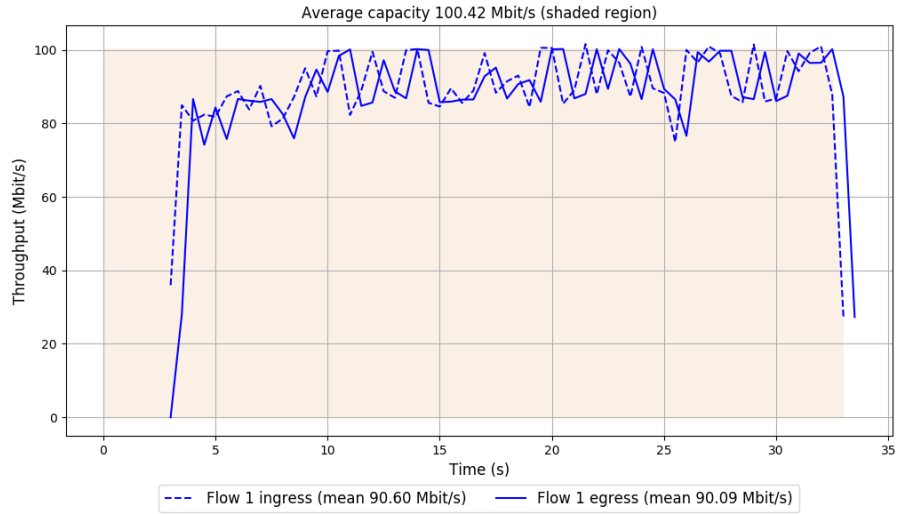
-- Flow 1:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 38.055 ms

Loss rate: 0.65%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-24 06:43:59

End at: 2018-07-24 06:44:29

Below is generated by plot.py at 2018-07-24 08:10:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 88.15 Mbit/s (87.8% utilization)

95th percentile per-packet one-way delay: 38.060 ms

Loss rate: 0.74%

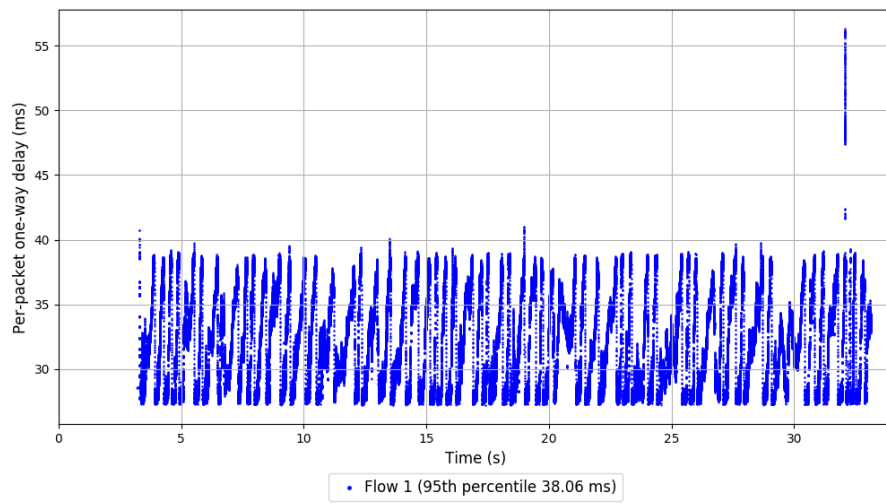
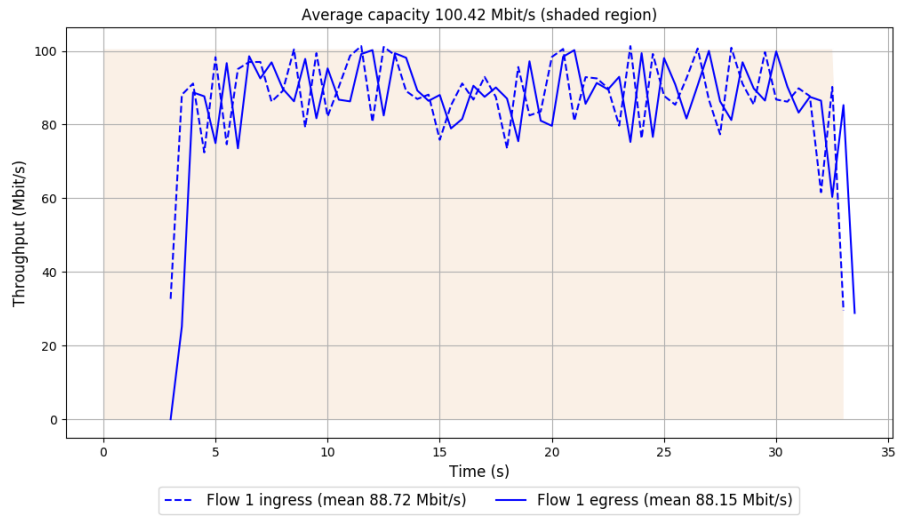
-- Flow 1:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 38.060 ms

Loss rate: 0.74%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-24 06:55:09

End at: 2018-07-24 06:55:39

Below is generated by plot.py at 2018-07-24 08:10:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 79.29 Mbit/s (79.0% utilization)

95th percentile per-packet one-way delay: 38.518 ms

Loss rate: 2.61%

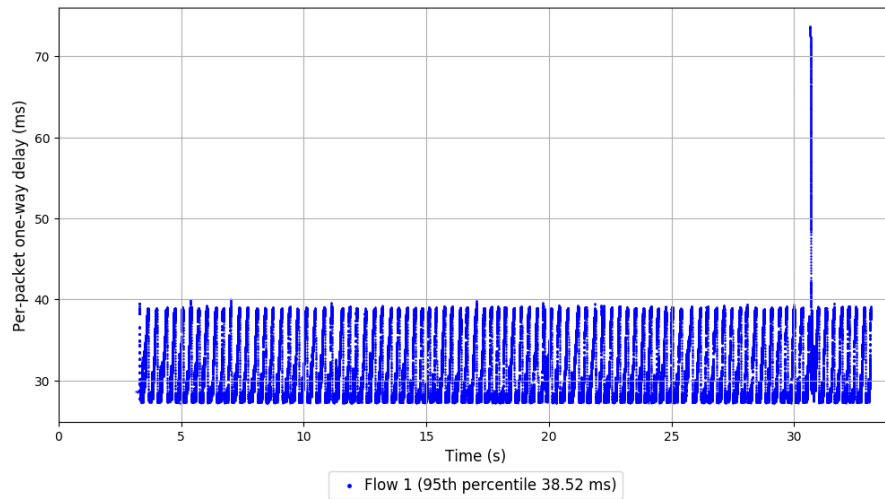
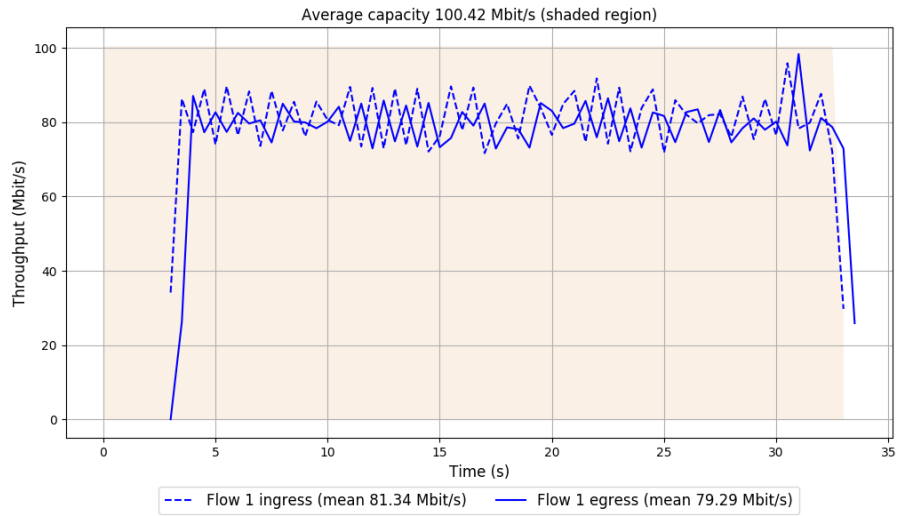
-- Flow 1:

Average throughput: 79.29 Mbit/s

95th percentile per-packet one-way delay: 38.518 ms

Loss rate: 2.61%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-24 07:06:21

End at: 2018-07-24 07:06:51

Below is generated by plot.py at 2018-07-24 08:10:22

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 80.01 Mbit/s (79.7% utilization)

95th percentile per-packet one-way delay: 38.427 ms

Loss rate: 1.92%

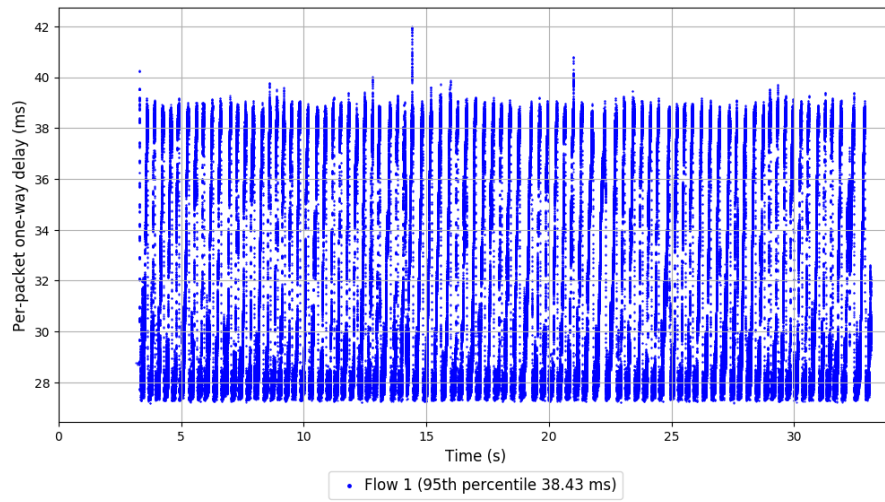
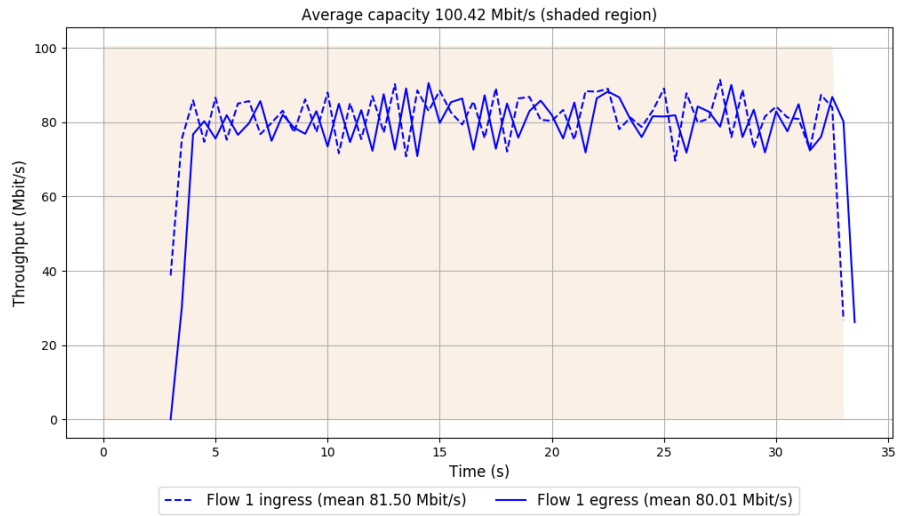
-- Flow 1:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 38.427 ms

Loss rate: 1.92%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-24 07:17:30

End at: 2018-07-24 07:18:00

Below is generated by plot.py at 2018-07-24 08:12:31

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 78.84 Mbit/s (78.5% utilization)

95th percentile per-packet one-way delay: 38.519 ms

Loss rate: 2.51%

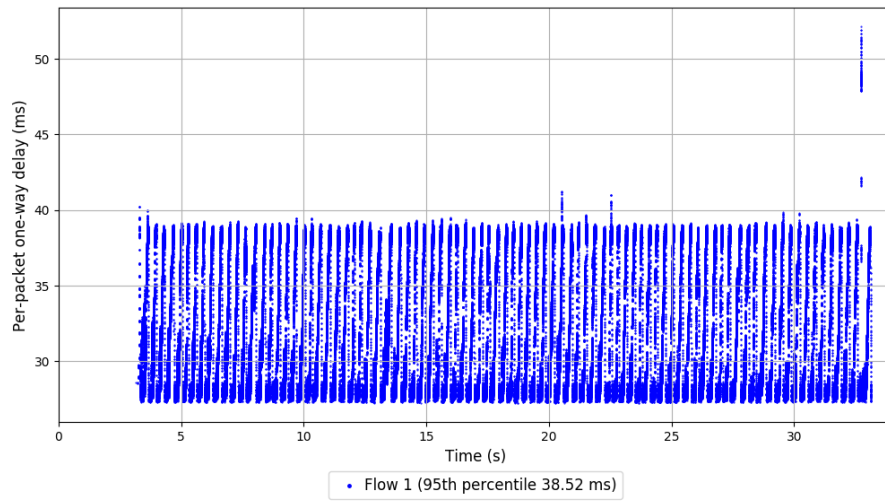
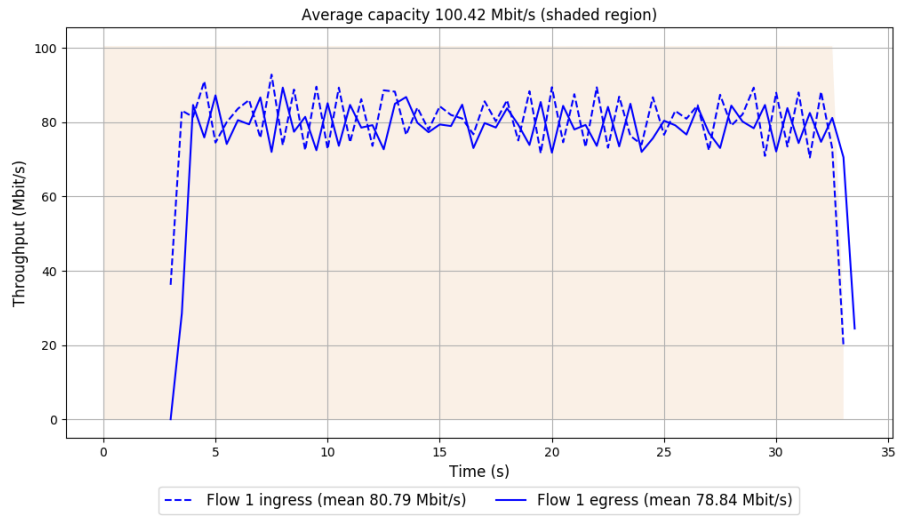
-- Flow 1:

Average throughput: 78.84 Mbit/s

95th percentile per-packet one-way delay: 38.519 ms

Loss rate: 2.51%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-24 07:28:41

End at: 2018-07-24 07:29:11

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 91.12 Mbit/s (90.7% utilization)

95th percentile per-packet one-way delay: 37.961 ms

Loss rate: 0.75%

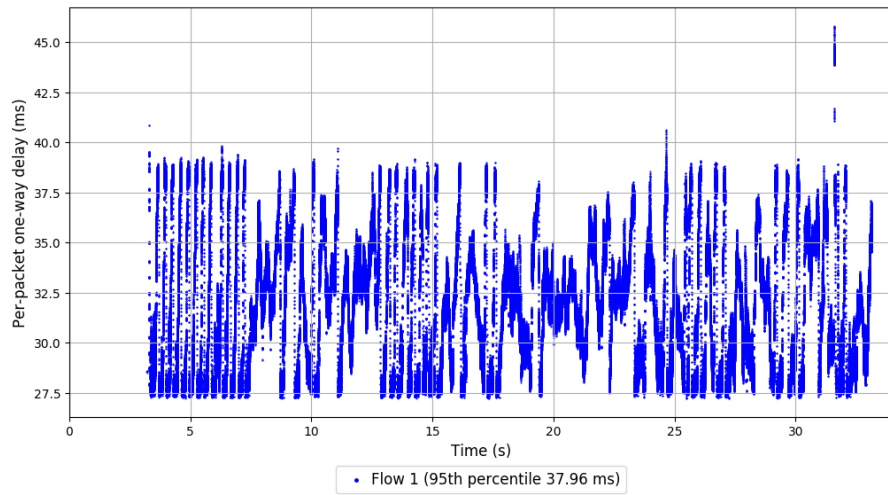
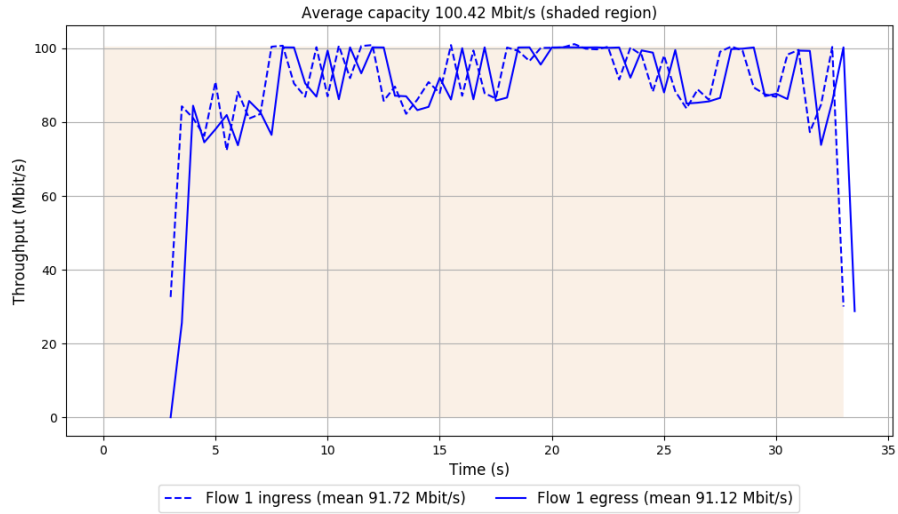
-- Flow 1:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 37.961 ms

Loss rate: 0.75%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-24 05:46:23

End at: 2018-07-24 05:46:53

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 91.17 Mbit/s (90.8% utilization)

95th percentile per-packet one-way delay: 31.086 ms

Loss rate: 0.19%

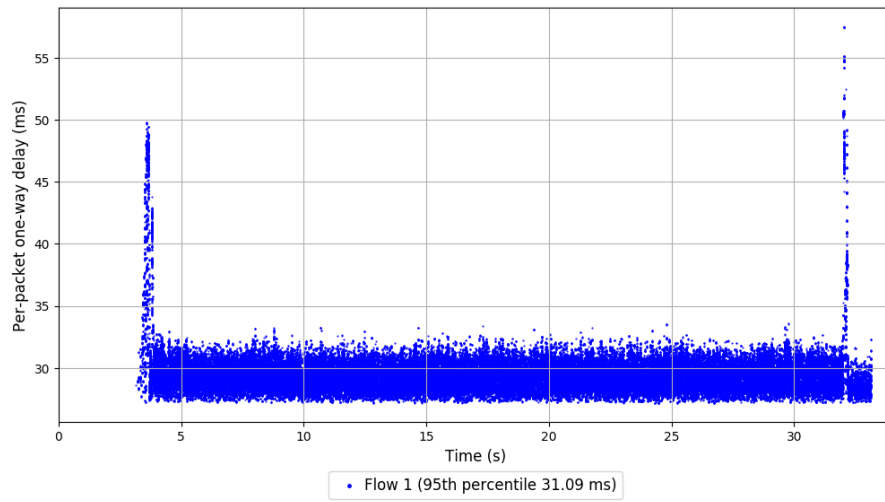
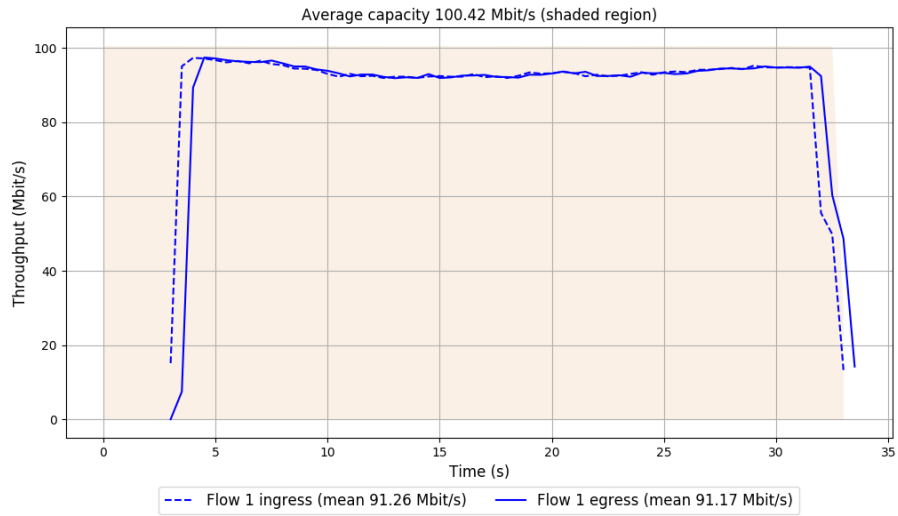
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 31.086 ms

Loss rate: 0.19%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-24 05:57:25

End at: 2018-07-24 05:57:55

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 58.88 Mbit/s (58.6% utilization)

95th percentile per-packet one-way delay: 30.300 ms

Loss rate: 0.08%

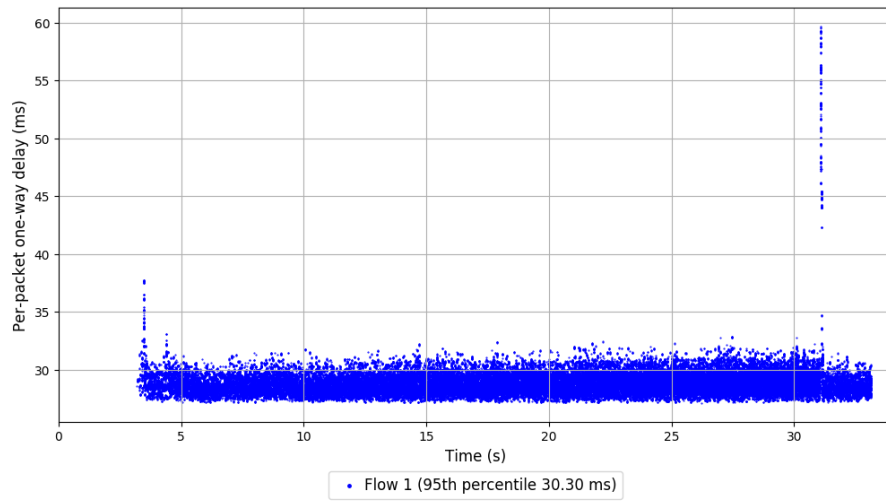
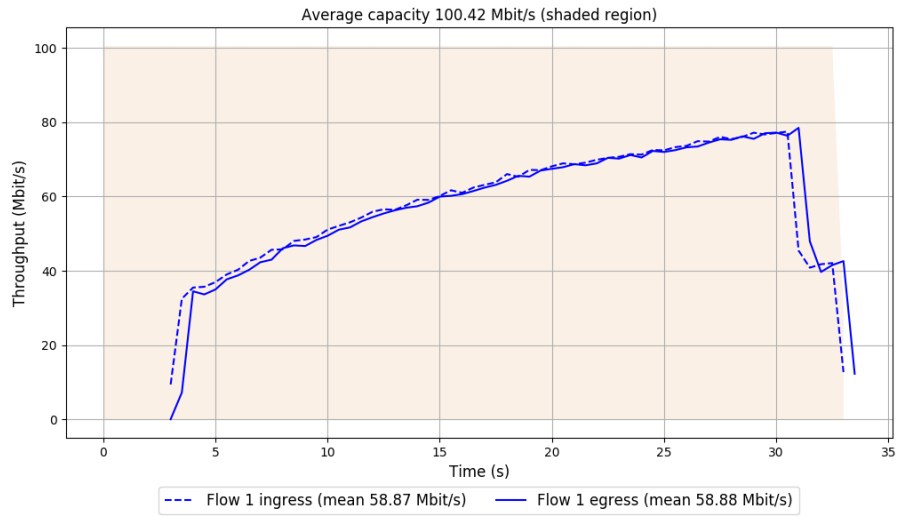
-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 30.300 ms

Loss rate: 0.08%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-24 06:08:34

End at: 2018-07-24 06:09:04

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 74.19 Mbit/s (73.9% utilization)

95th percentile per-packet one-way delay: 30.576 ms

Loss rate: 0.14%

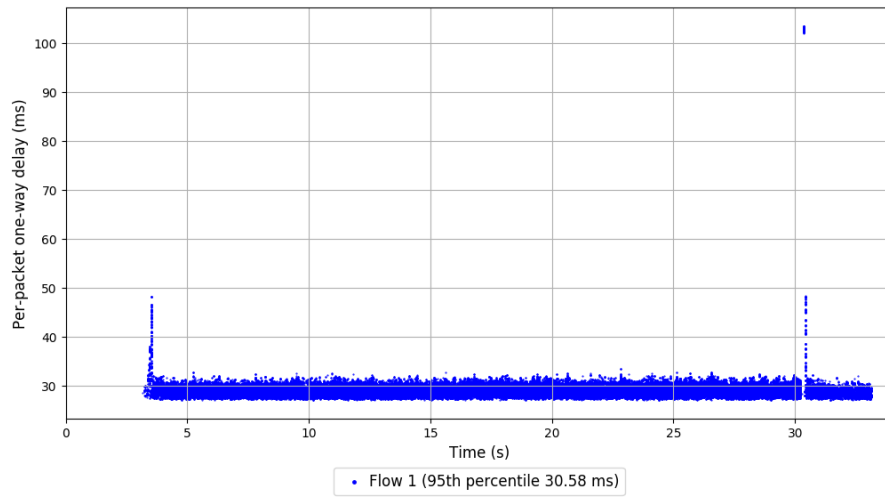
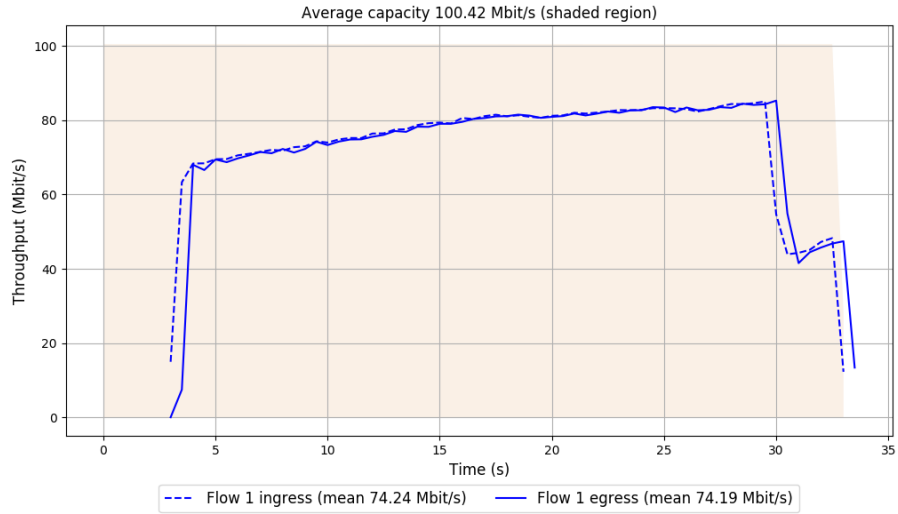
-- Flow 1:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 30.576 ms

Loss rate: 0.14%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-24 06:19:45

End at: 2018-07-24 06:20:15

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 74.16 Mbit/s (73.8% utilization)

95th percentile per-packet one-way delay: 30.717 ms

Loss rate: 0.22%

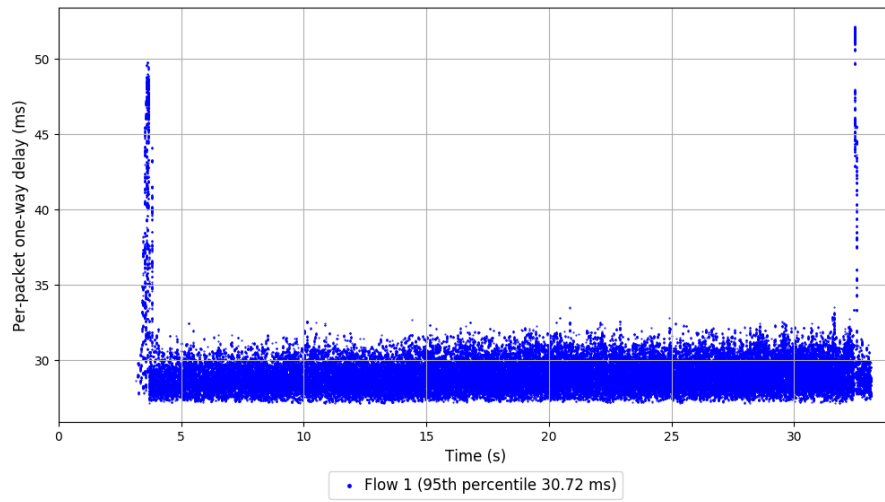
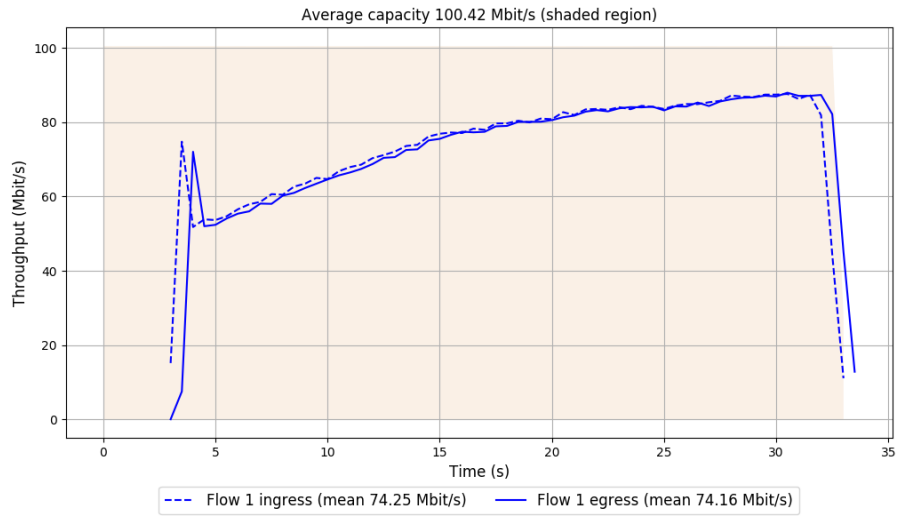
-- Flow 1:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 30.717 ms

Loss rate: 0.22%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-24 06:30:51

End at: 2018-07-24 06:31:21

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 82.79 Mbit/s (82.4% utilization)

95th percentile per-packet one-way delay: 30.767 ms

Loss rate: 0.11%

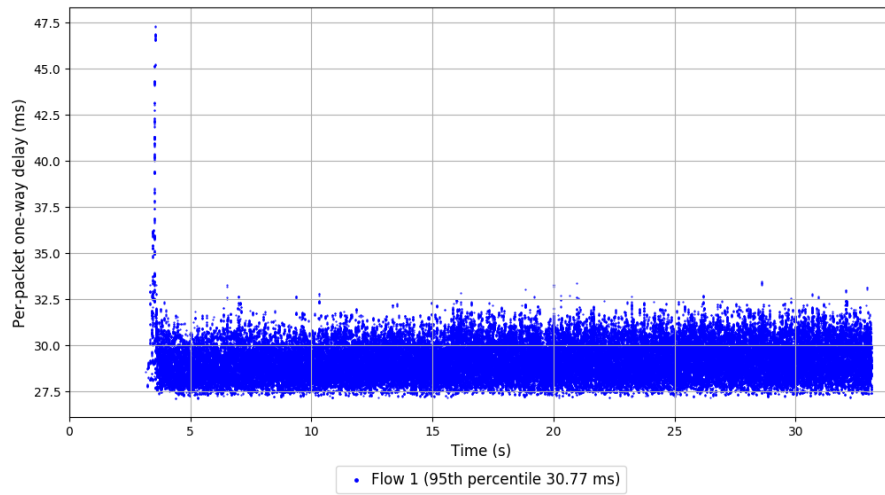
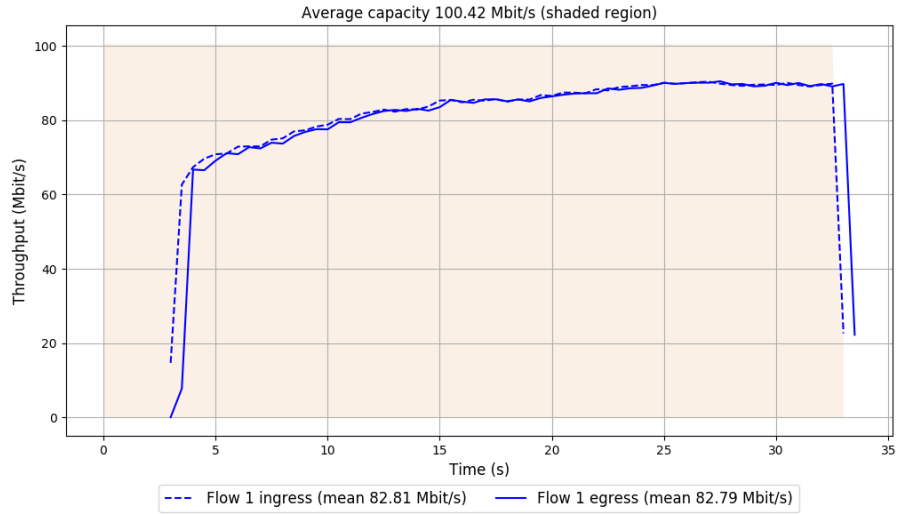
-- Flow 1:

Average throughput: 82.79 Mbit/s

95th percentile per-packet one-way delay: 30.767 ms

Loss rate: 0.11%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-24 06:42:01

End at: 2018-07-24 06:42:31

Below is generated by plot.py at 2018-07-24 08:12:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 78.39 Mbit/s (78.1% utilization)

95th percentile per-packet one-way delay: 30.960 ms

Loss rate: 0.27%

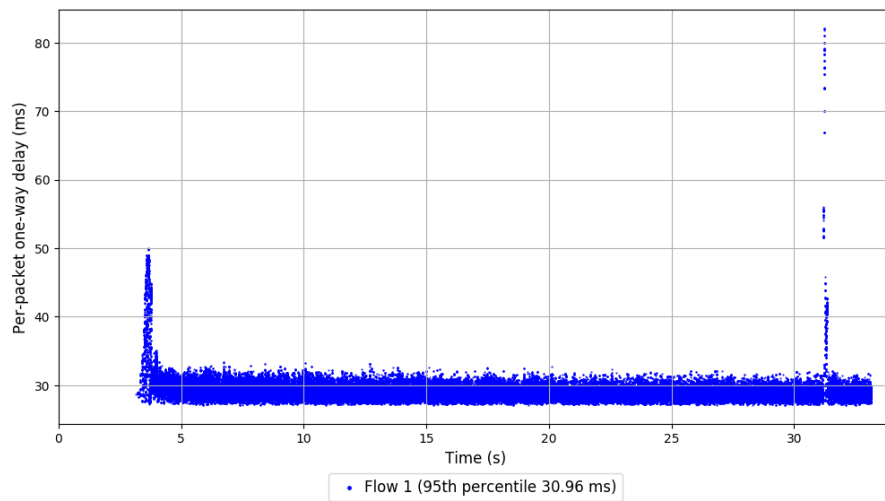
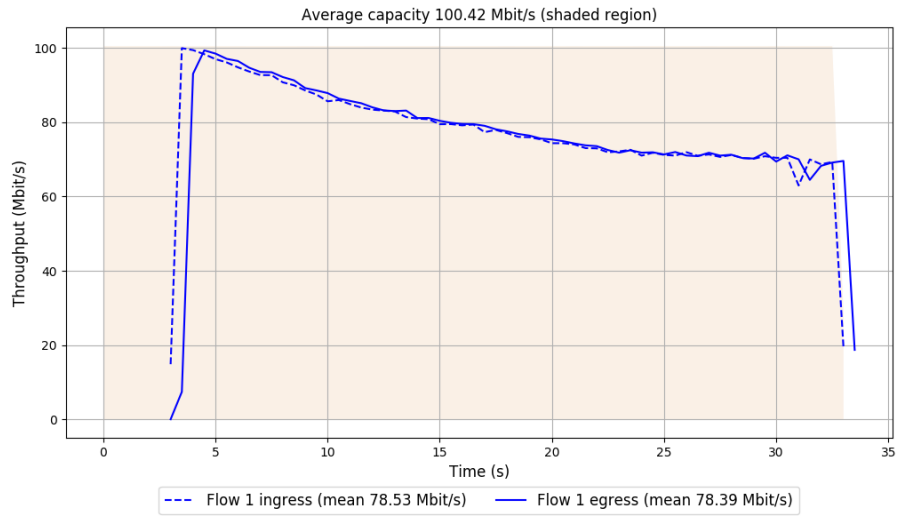
-- Flow 1:

Average throughput: 78.39 Mbit/s

95th percentile per-packet one-way delay: 30.960 ms

Loss rate: 0.27%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-24 06:53:11

End at: 2018-07-24 06:53:41

Below is generated by plot.py at 2018-07-24 08:13:20

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 91.71 Mbit/s (91.3% utilization)

95th percentile per-packet one-way delay: 31.141 ms

Loss rate: 0.23%

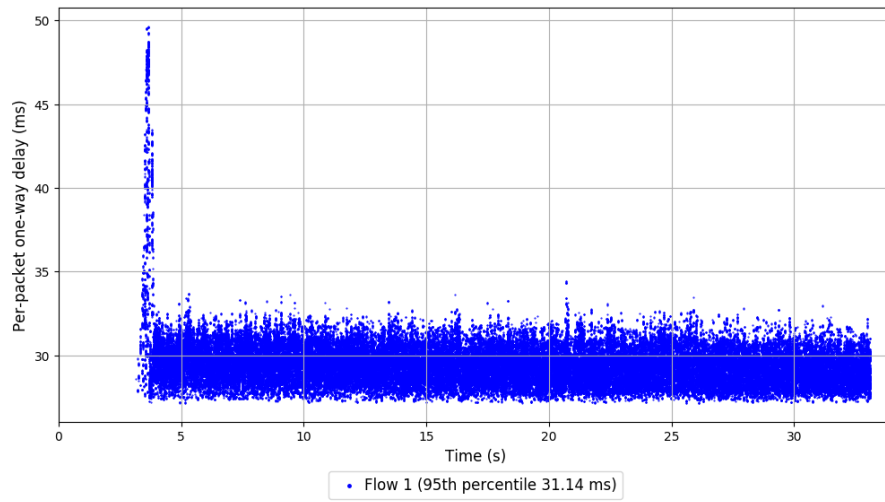
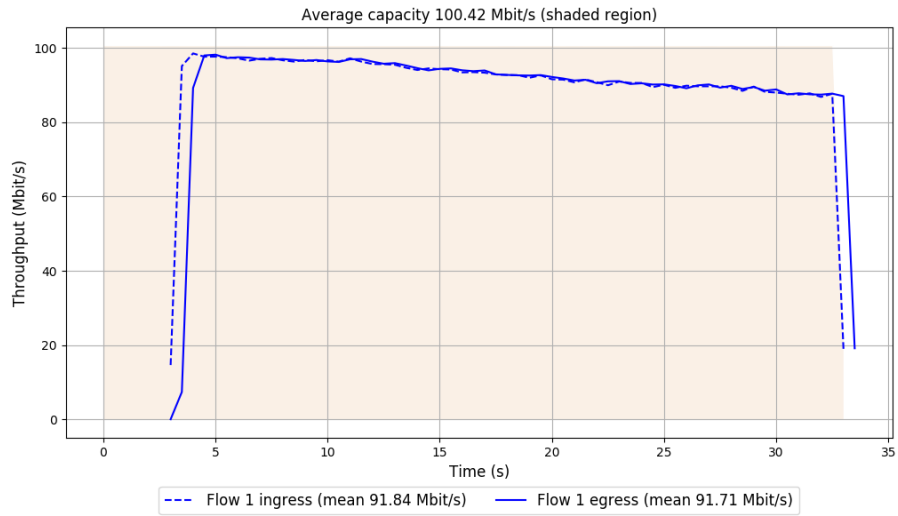
-- Flow 1:

Average throughput: 91.71 Mbit/s

95th percentile per-packet one-way delay: 31.141 ms

Loss rate: 0.23%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-24 07:04:22

End at: 2018-07-24 07:04:52

Below is generated by plot.py at 2018-07-24 08:13:23

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 64.68 Mbit/s (64.4% utilization)

95th percentile per-packet one-way delay: 30.526 ms

Loss rate: 0.12%

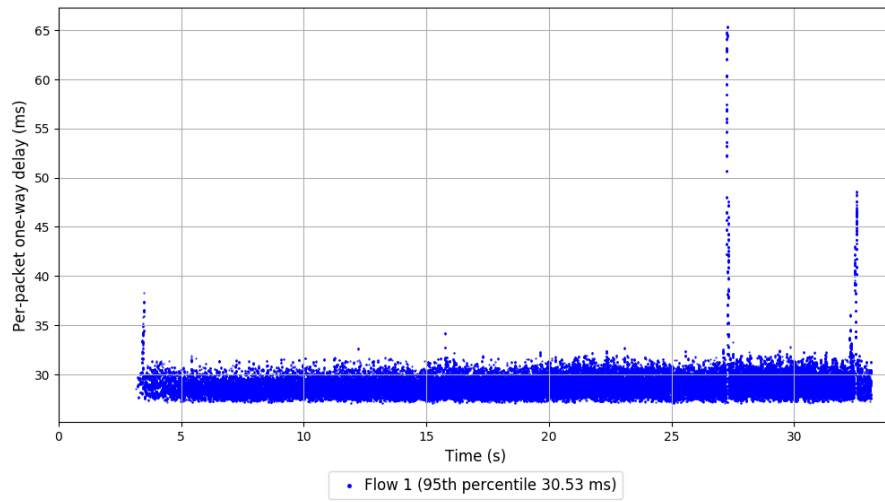
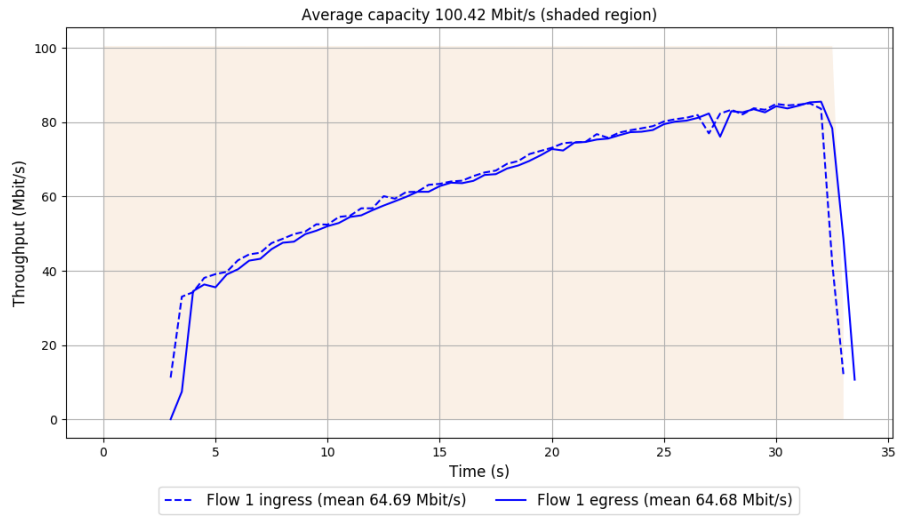
-- Flow 1:

Average throughput: 64.68 Mbit/s

95th percentile per-packet one-way delay: 30.526 ms

Loss rate: 0.12%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-24 07:15:33

End at: 2018-07-24 07:16:03

Below is generated by plot.py at 2018-07-24 08:13:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 60.49 Mbit/s (60.2% utilization)

95th percentile per-packet one-way delay: 30.389 ms

Loss rate: 0.16%

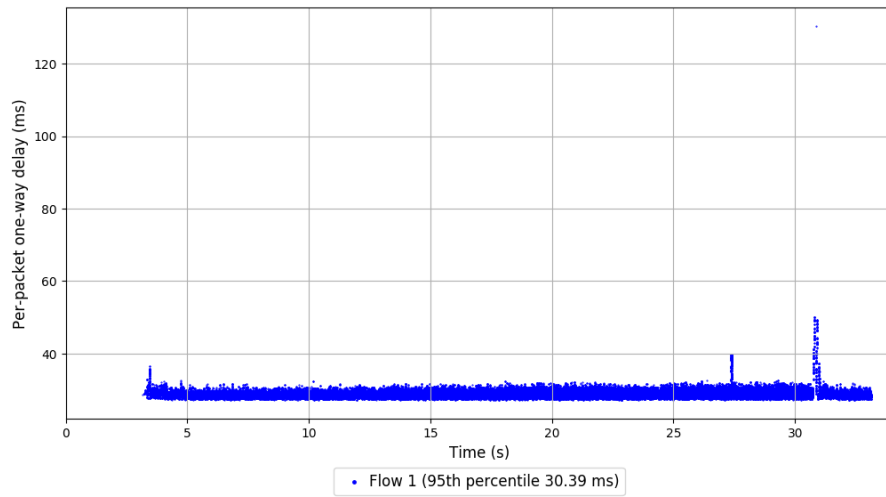
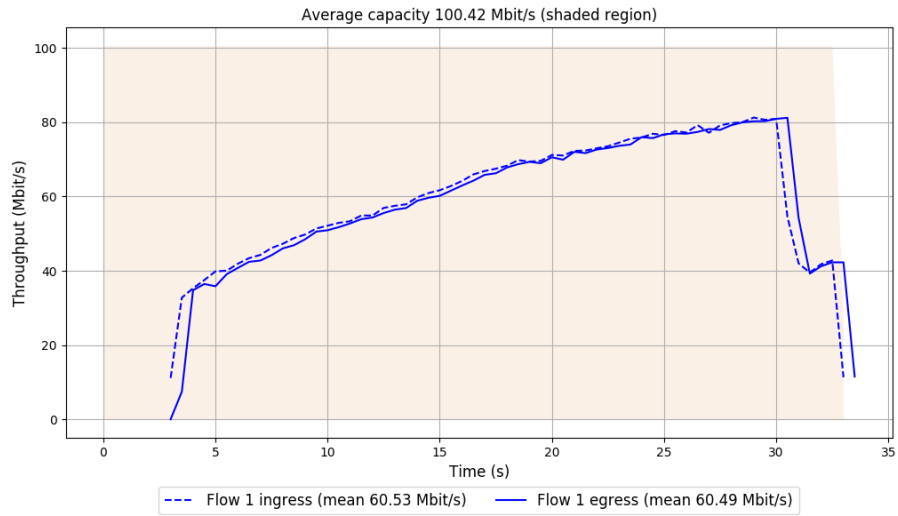
-- Flow 1:

Average throughput: 60.49 Mbit/s

95th percentile per-packet one-way delay: 30.389 ms

Loss rate: 0.16%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-24 07:26:44

End at: 2018-07-24 07:27:14

Below is generated by plot.py at 2018-07-24 08:13:24

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 54.58 Mbit/s (54.3% utilization)

95th percentile per-packet one-way delay: 30.294 ms

Loss rate: 0.17%

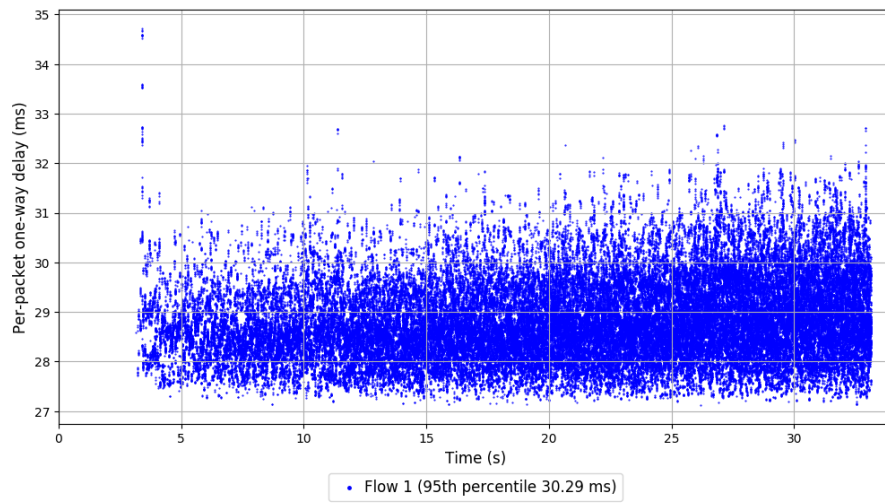
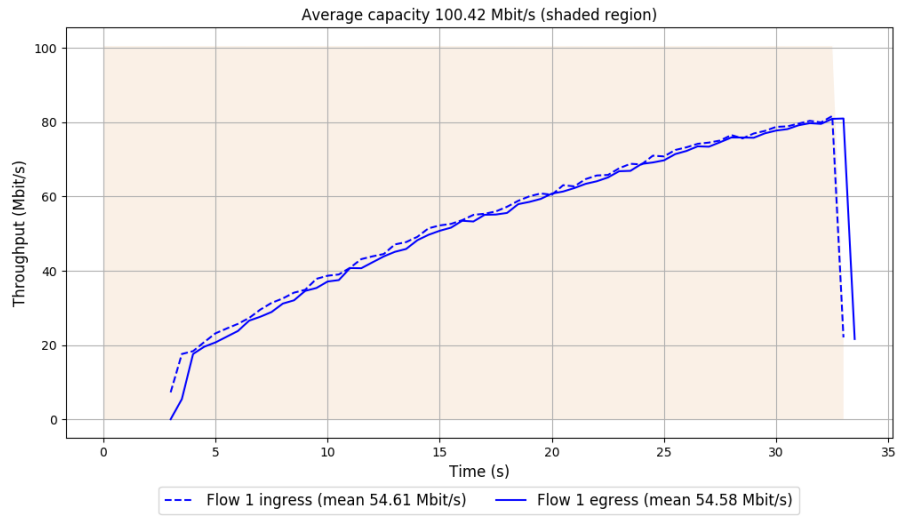
-- Flow 1:

Average throughput: 54.58 Mbit/s

95th percentile per-packet one-way delay: 30.294 ms

Loss rate: 0.17%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-24 05:43:11

End at: 2018-07-24 05:43:41

Below is generated by plot.py at 2018-07-24 08:13:53

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 69.68 Mbit/s (69.4% utilization)

95th percentile per-packet one-way delay: 47.920 ms

Loss rate: 23.61%

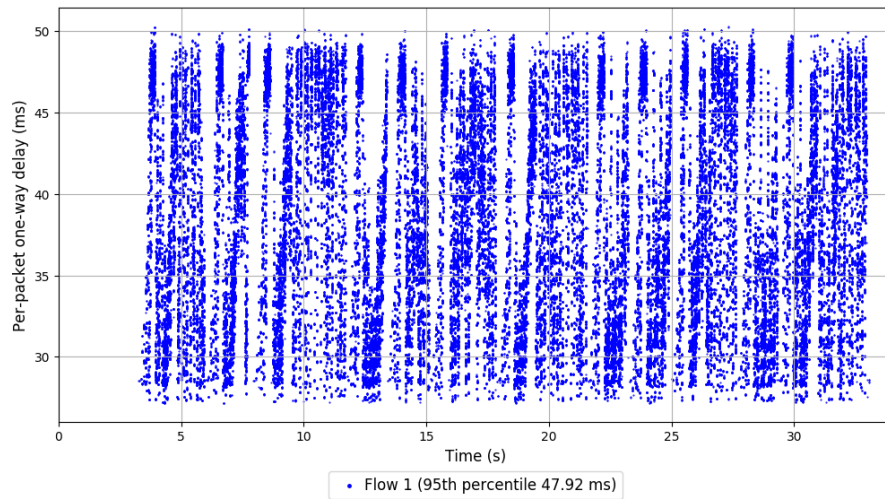
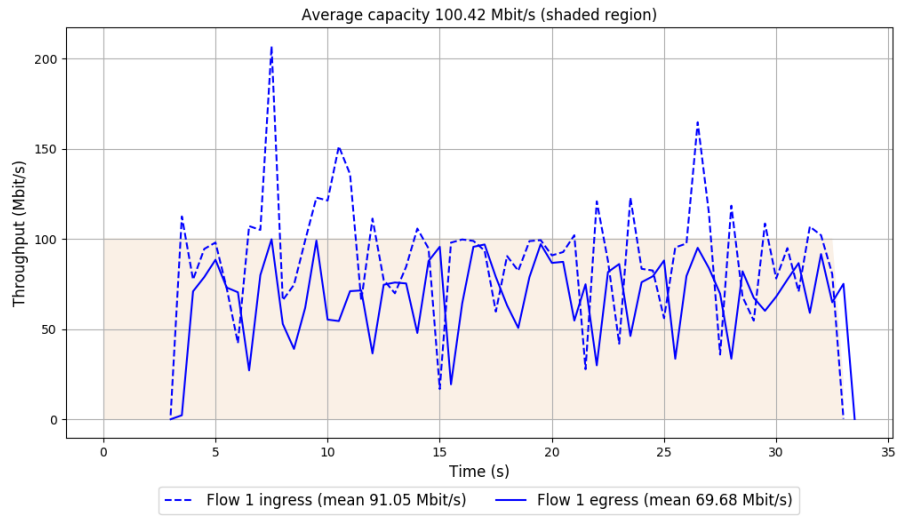
-- Flow 1:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 47.920 ms

Loss rate: 23.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-24 05:54:13

End at: 2018-07-24 05:54:43

Below is generated by plot.py at 2018-07-24 08:13:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 67.84 Mbit/s (67.6% utilization)

95th percentile per-packet one-way delay: 48.034 ms

Loss rate: 25.67%

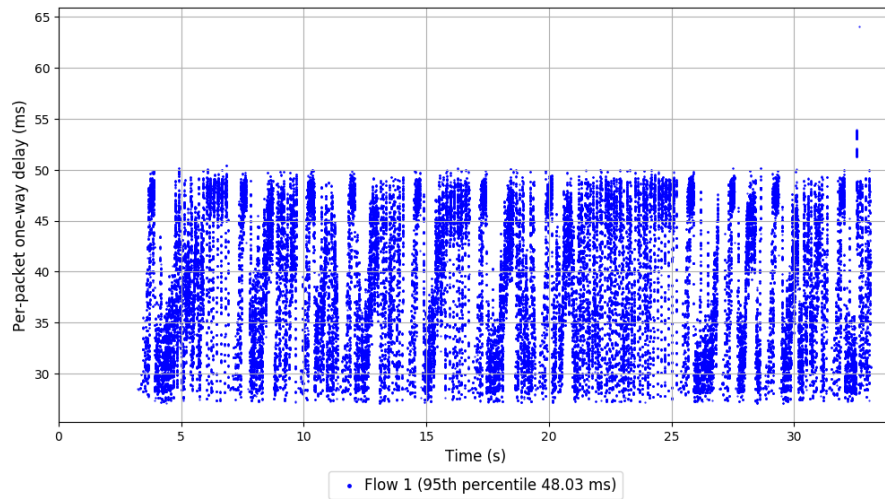
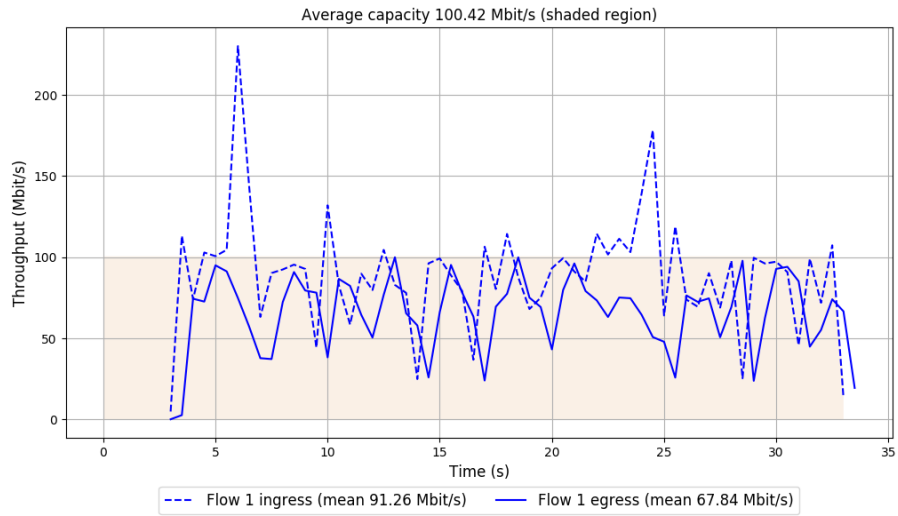
-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 48.034 ms

Loss rate: 25.67%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-24 06:05:21

End at: 2018-07-24 06:05:51

Below is generated by plot.py at 2018-07-24 08:14:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 68.88 Mbit/s (68.6% utilization)

95th percentile per-packet one-way delay: 48.066 ms

Loss rate: 29.68%

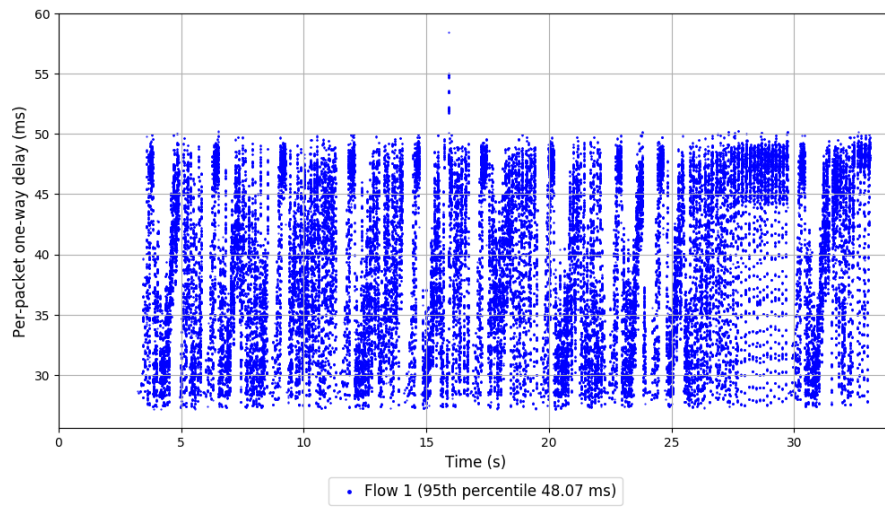
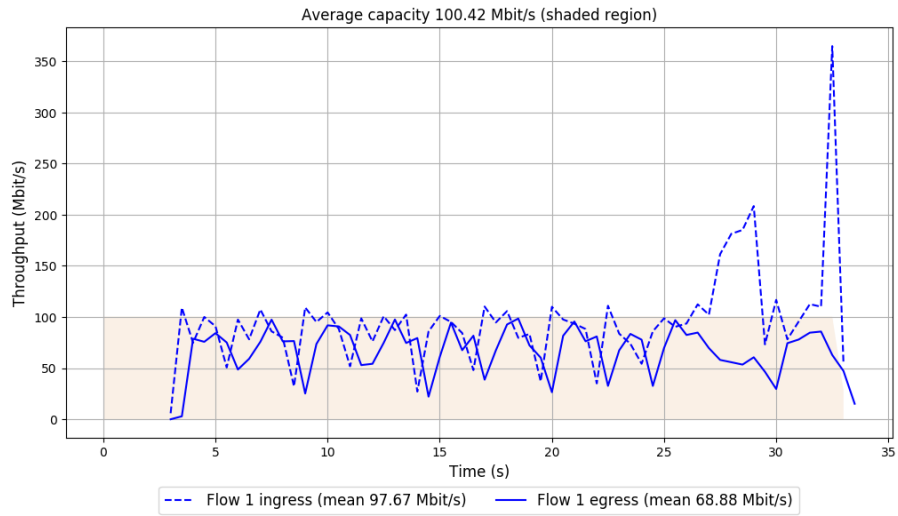
-- Flow 1:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 48.066 ms

Loss rate: 29.68%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-24 06:16:30

End at: 2018-07-24 06:17:00

Below is generated by plot.py at 2018-07-24 08:14:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 62.46 Mbit/s (62.2% utilization)

95th percentile per-packet one-way delay: 48.564 ms

Loss rate: 56.38%

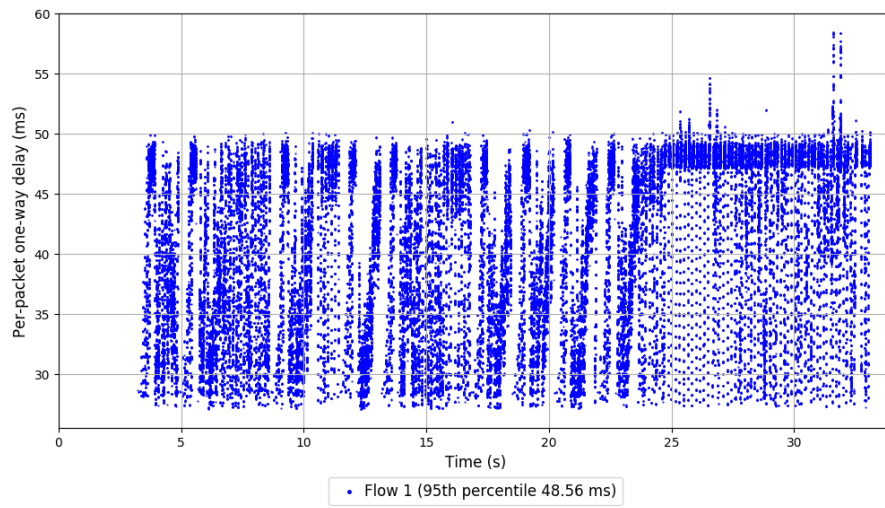
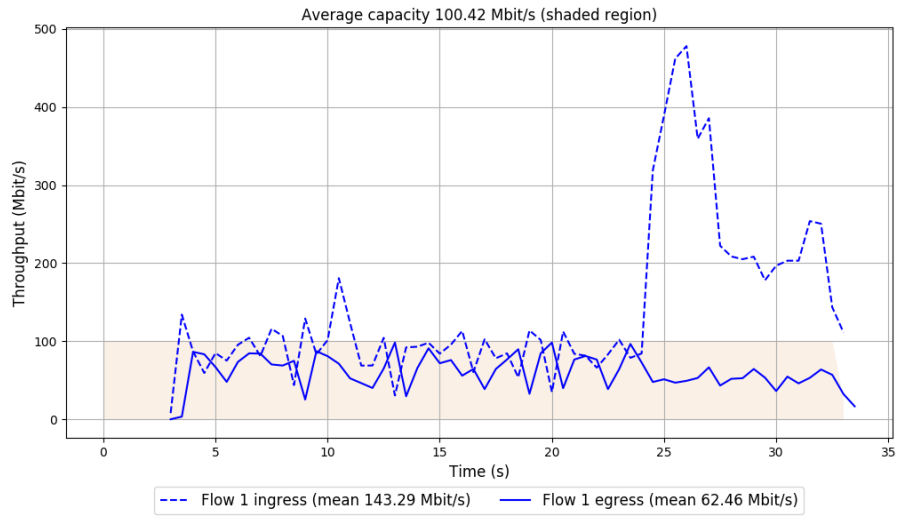
-- Flow 1:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 48.564 ms

Loss rate: 56.38%

Run 4: Report of Verus — Data Link

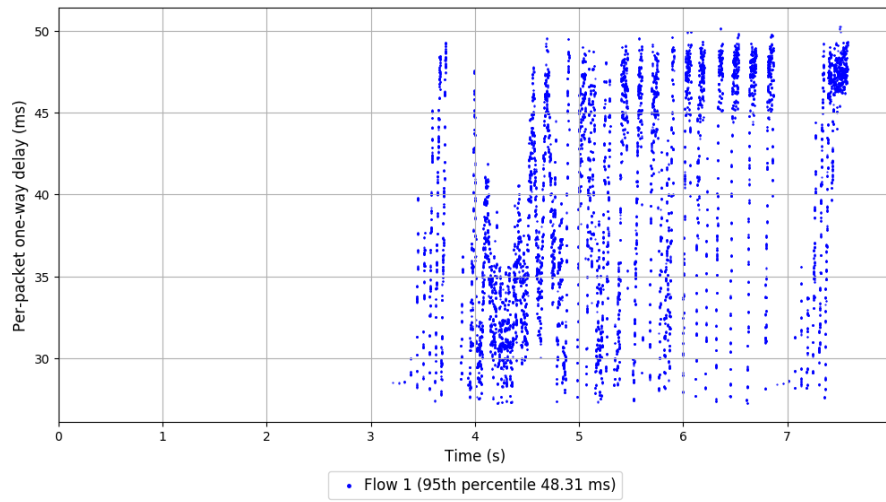
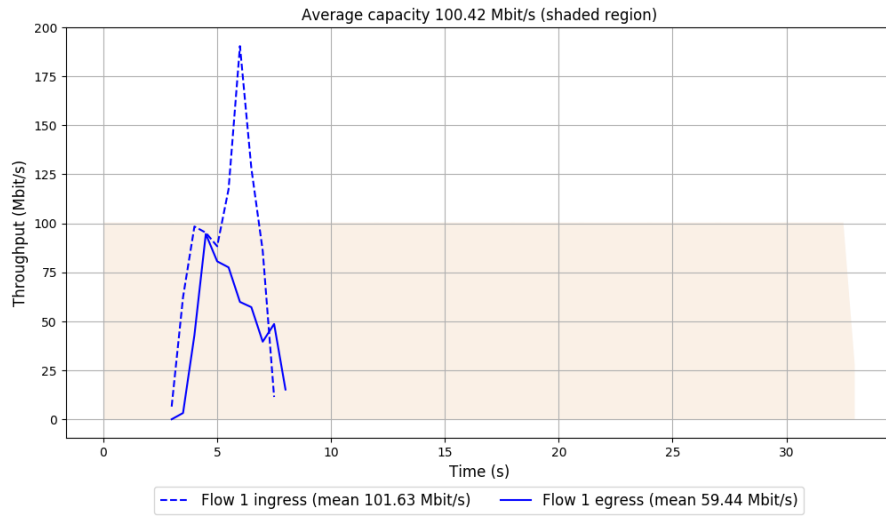


Run 5: Statistics of Verus

Start at: 2018-07-24 06:27:42

End at: 2018-07-24 06:28:12

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-24 06:38:48

End at: 2018-07-24 06:39:18

Below is generated by plot.py at 2018-07-24 08:15:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 67.41 Mbit/s (67.1% utilization)

95th percentile per-packet one-way delay: 47.959 ms

Loss rate: 23.35%

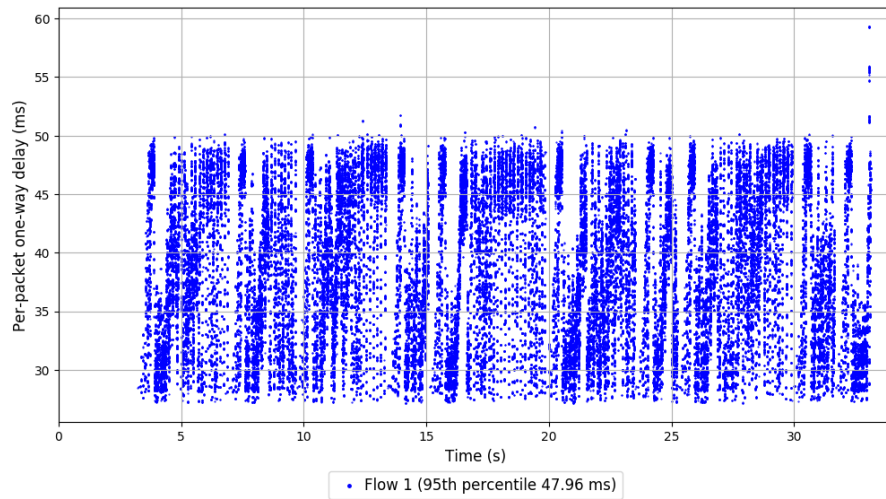
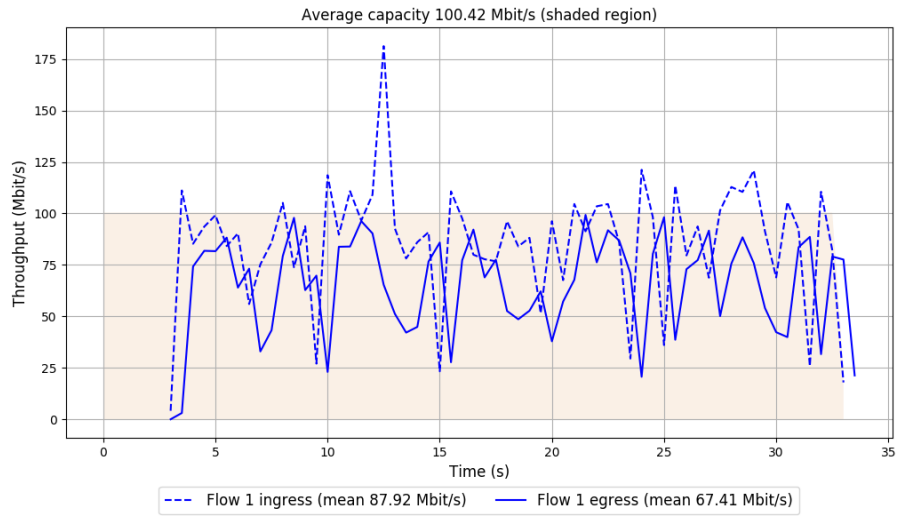
-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 47.959 ms

Loss rate: 23.35%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-24 06:49:58

End at: 2018-07-24 06:50:28

Below is generated by plot.py at 2018-07-24 08:15:03

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 66.92 Mbit/s (66.6% utilization)

95th percentile per-packet one-way delay: 48.026 ms

Loss rate: 27.83%

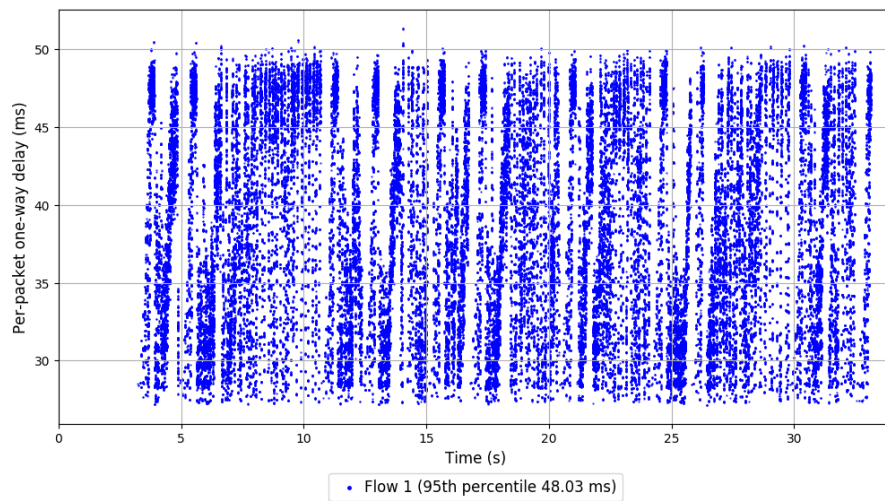
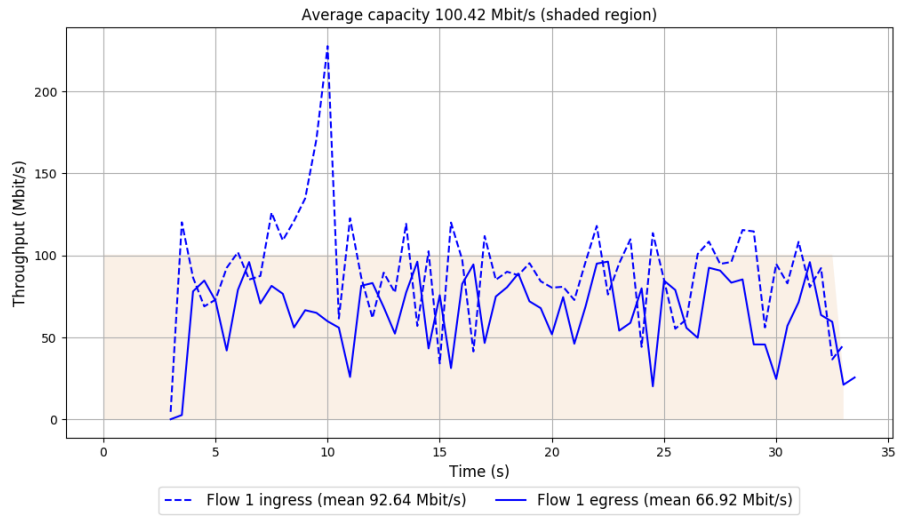
-- Flow 1:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 48.026 ms

Loss rate: 27.83%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-24 07:01:10

End at: 2018-07-24 07:01:40

Below is generated by plot.py at 2018-07-24 08:15:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 62.40 Mbit/s (62.1% utilization)

95th percentile per-packet one-way delay: 48.268 ms

Loss rate: 41.20%

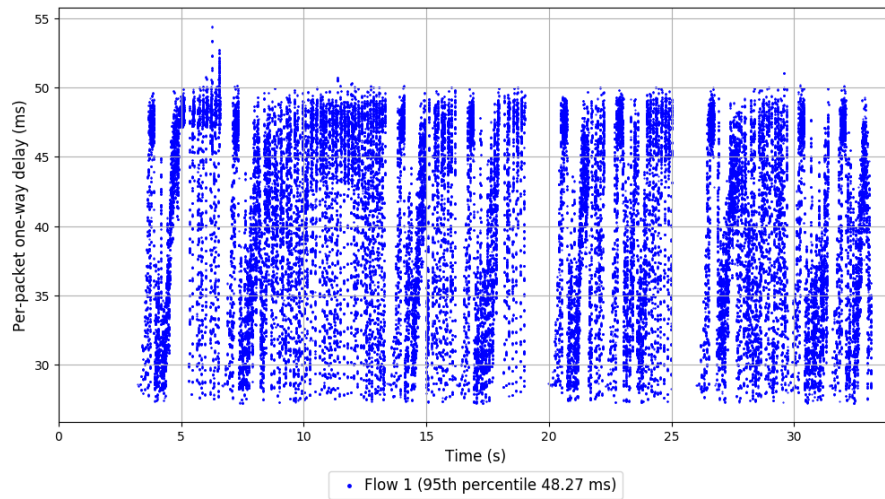
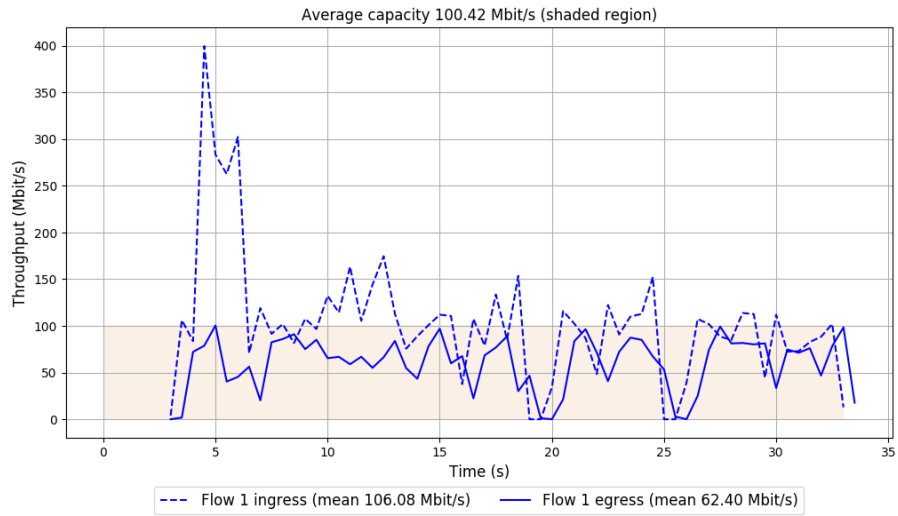
-- Flow 1:

Average throughput: 62.40 Mbit/s

95th percentile per-packet one-way delay: 48.268 ms

Loss rate: 41.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-24 07:12:20

End at: 2018-07-24 07:12:50

Below is generated by plot.py at 2018-07-24 08:15:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 68.44 Mbit/s (68.1% utilization)

95th percentile per-packet one-way delay: 48.137 ms

Loss rate: 32.01%

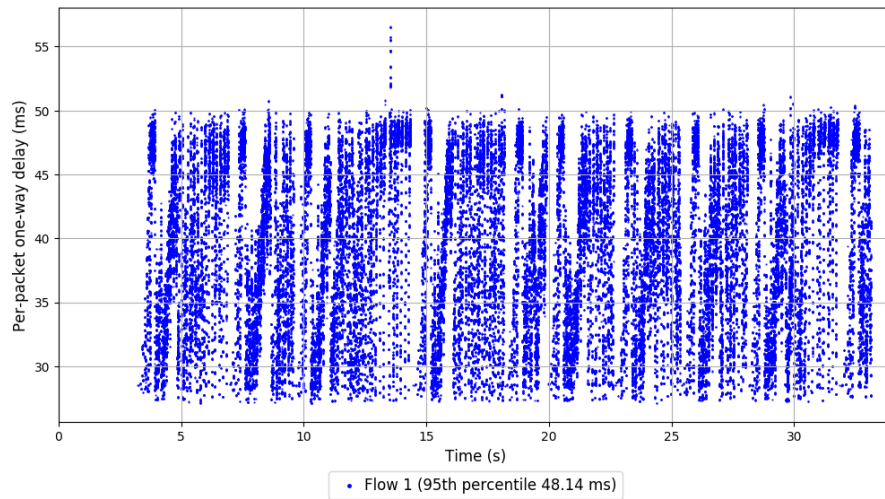
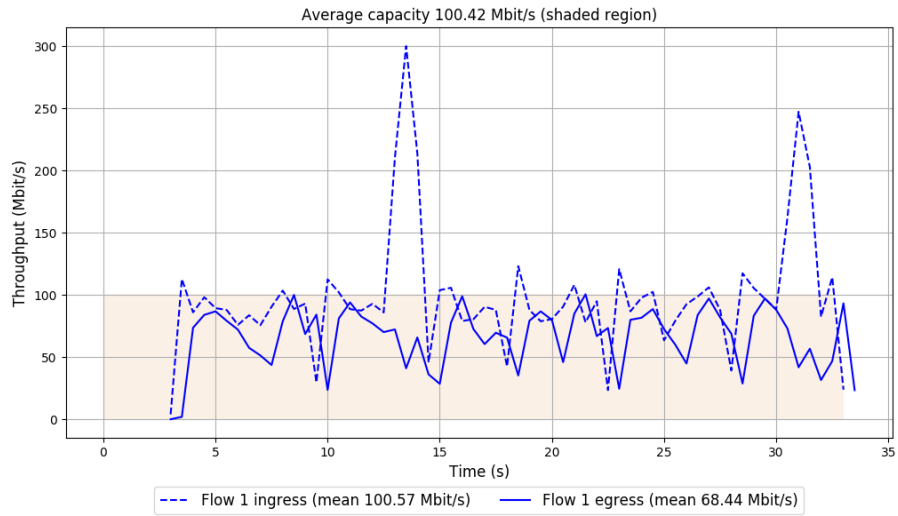
-- Flow 1:

Average throughput: 68.44 Mbit/s

95th percentile per-packet one-way delay: 48.137 ms

Loss rate: 32.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-24 07:23:30

End at: 2018-07-24 07:24:00

Below is generated by plot.py at 2018-07-24 08:15:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 68.75 Mbit/s (68.5% utilization)

95th percentile per-packet one-way delay: 48.035 ms

Loss rate: 26.49%

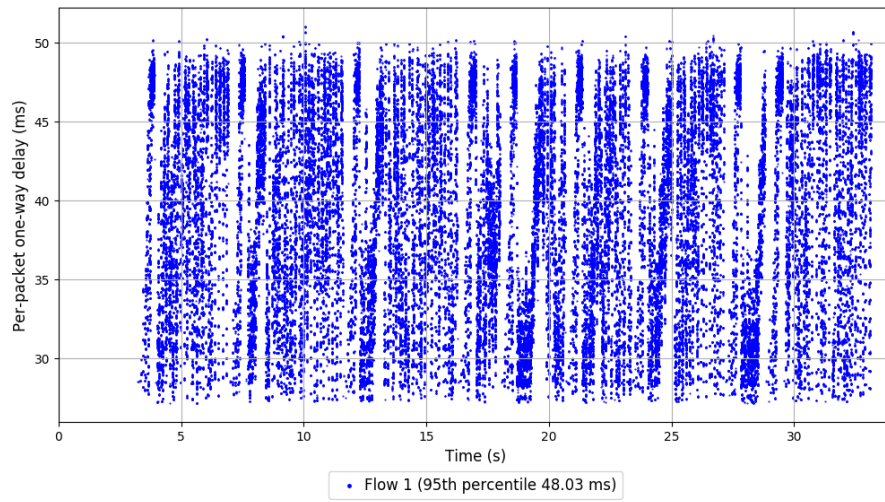
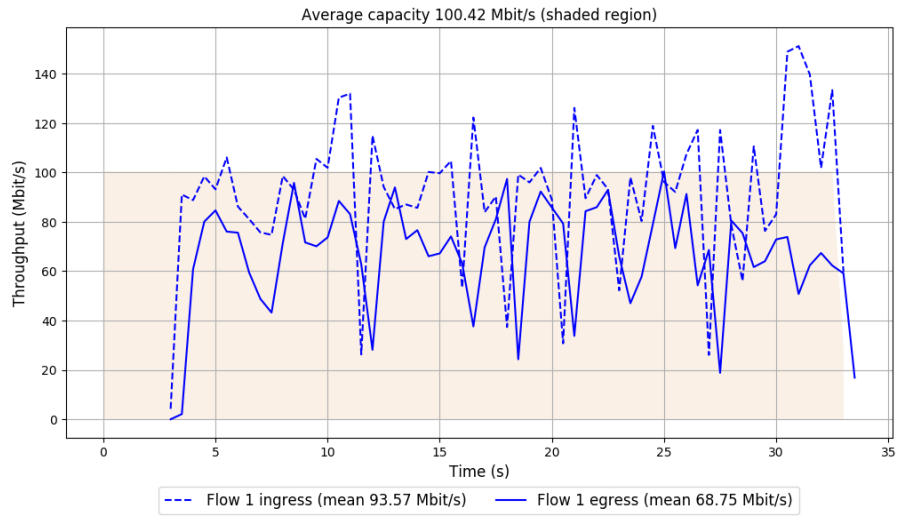
-- Flow 1:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 48.035 ms

Loss rate: 26.49%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-24 05:49:43

End at: 2018-07-24 05:50:13

Below is generated by plot.py at 2018-07-24 08:16:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.34 Mbit/s (87.0% utilization)

95th percentile per-packet one-way delay: 29.587 ms

Loss rate: 0.10%

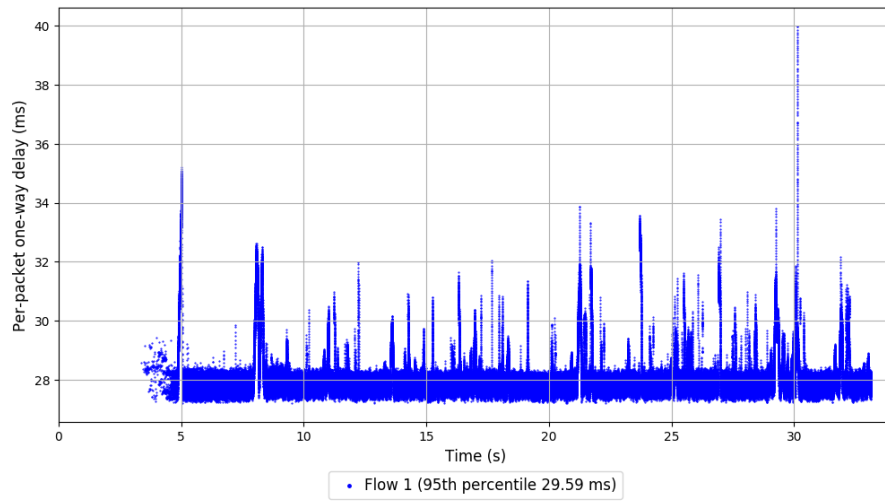
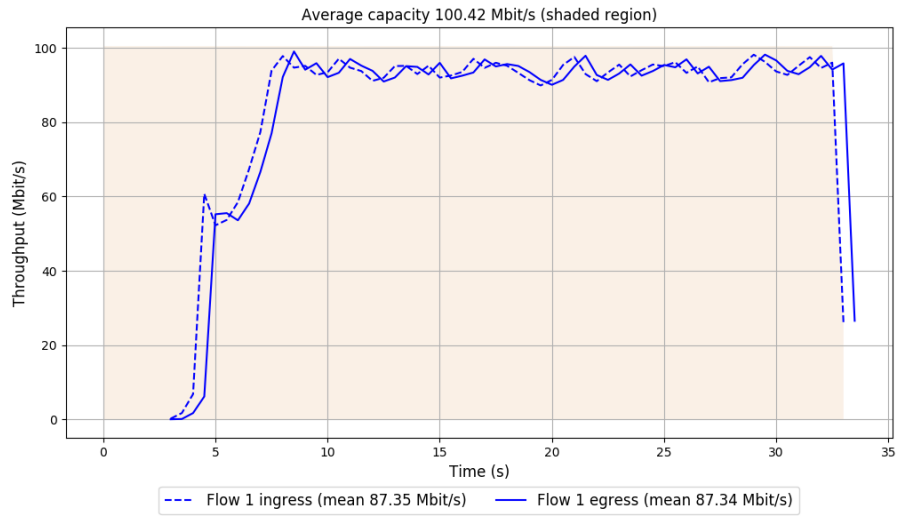
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 29.587 ms

Loss rate: 0.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-24 06:00:43

End at: 2018-07-24 06:01:13

Below is generated by plot.py at 2018-07-24 08:16:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 88.11 Mbit/s (87.7% utilization)

95th percentile per-packet one-way delay: 29.923 ms

Loss rate: 0.11%

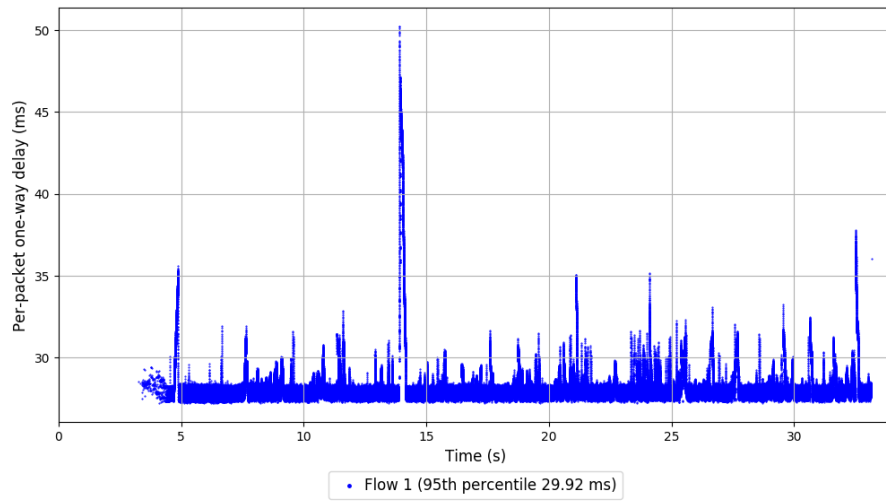
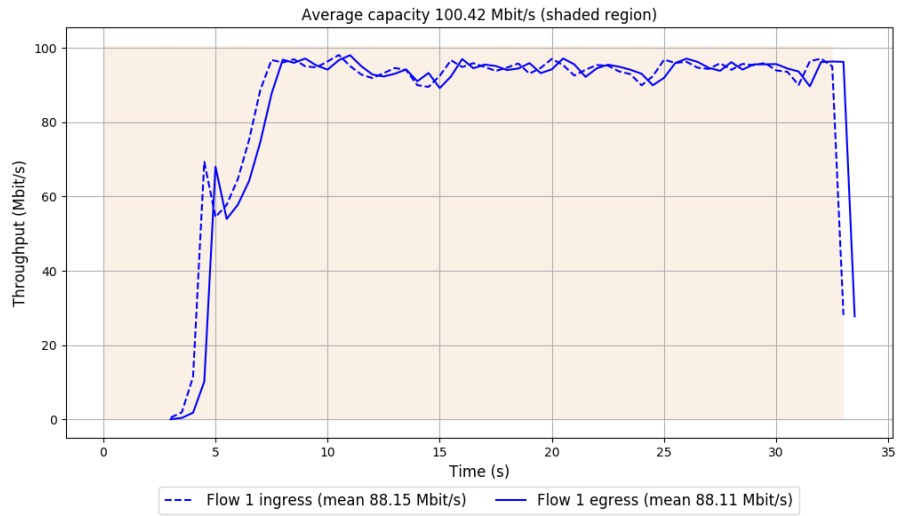
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 29.923 ms

Loss rate: 0.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-24 06:11:52

End at: 2018-07-24 06:12:22

Below is generated by plot.py at 2018-07-24 08:16:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.02 Mbit/s (86.7% utilization)

95th percentile per-packet one-way delay: 29.621 ms

Loss rate: 0.10%

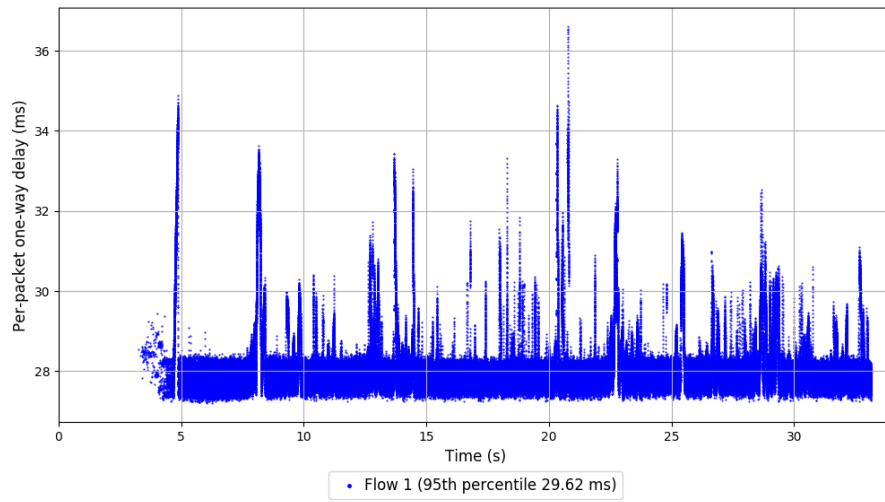
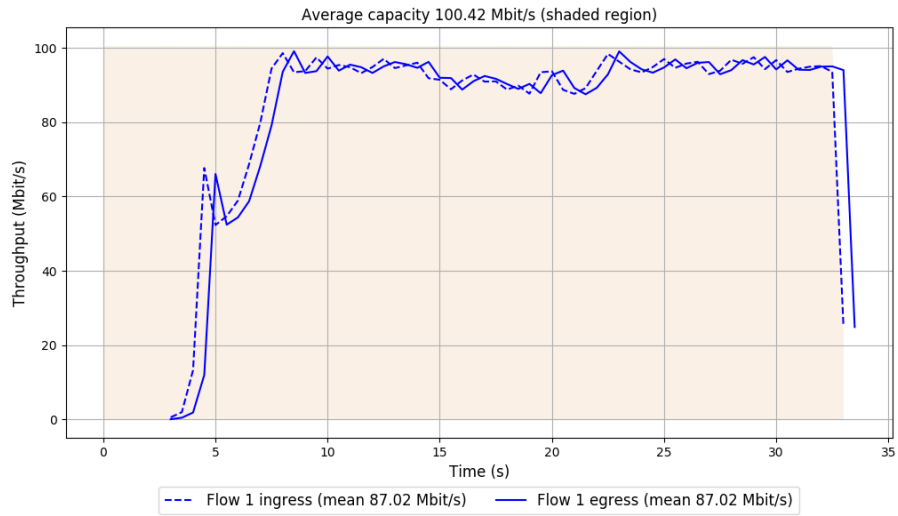
-- Flow 1:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 29.621 ms

Loss rate: 0.10%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-24 06:23:03

End at: 2018-07-24 06:23:33

Below is generated by plot.py at 2018-07-24 08:17:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.50 Mbit/s (87.1% utilization)

95th percentile per-packet one-way delay: 29.540 ms

Loss rate: 0.15%

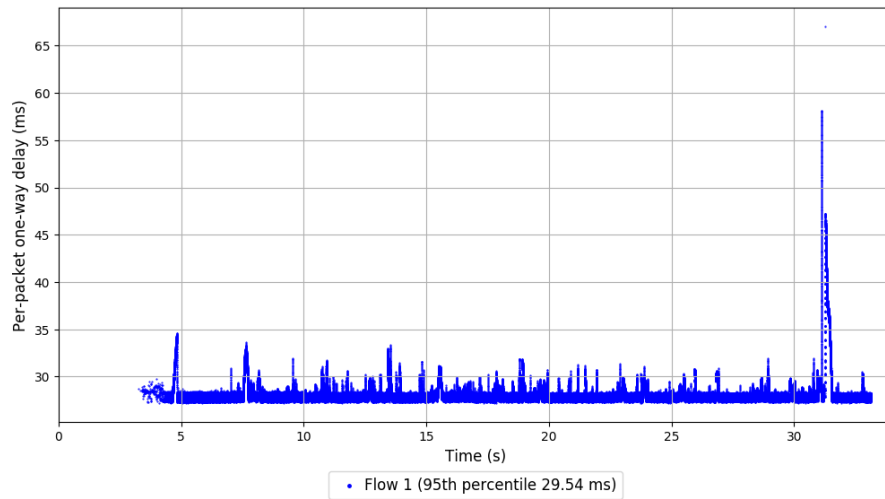
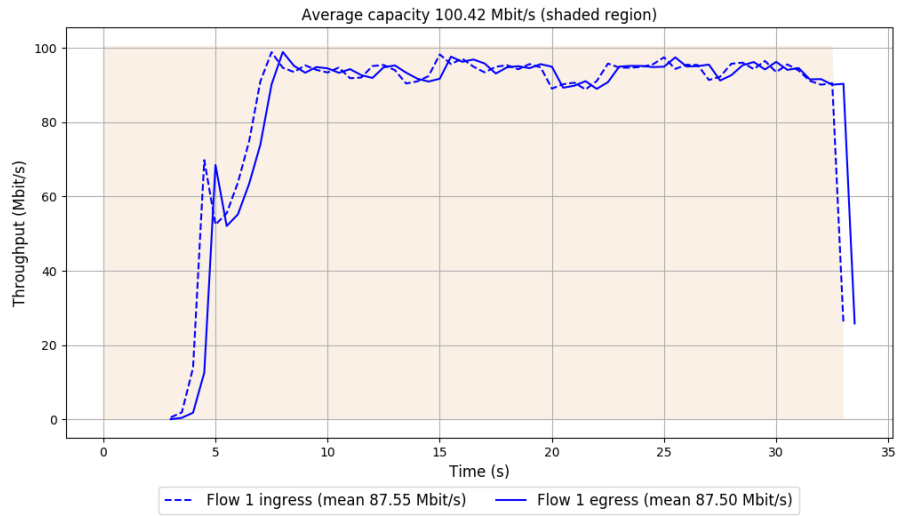
-- Flow 1:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 29.540 ms

Loss rate: 0.15%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-24 06:34:11

End at: 2018-07-24 06:34:41

Below is generated by plot.py at 2018-07-24 08:17:01

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 84.10 Mbit/s (83.8% utilization)

95th percentile per-packet one-way delay: 29.122 ms

Loss rate: 0.22%

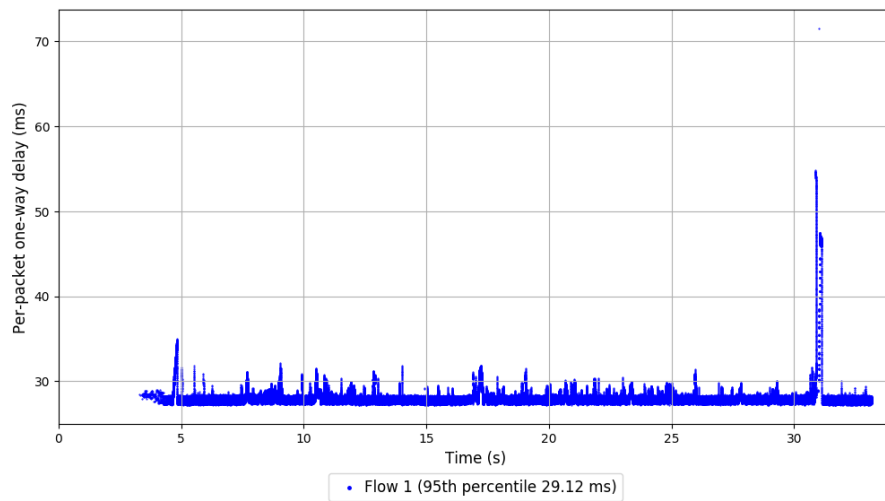
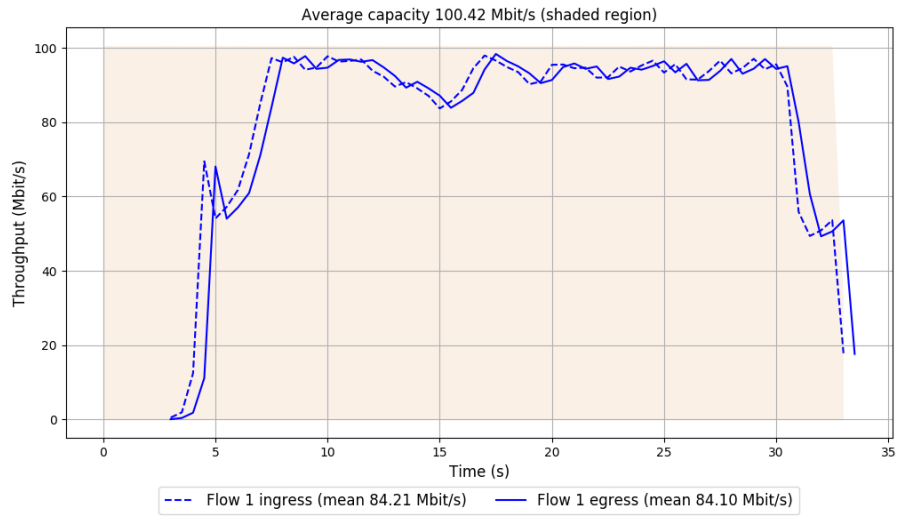
-- Flow 1:

Average throughput: 84.10 Mbit/s

95th percentile per-packet one-way delay: 29.122 ms

Loss rate: 0.22%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-24 06:45:22

End at: 2018-07-24 06:45:52

Below is generated by plot.py at 2018-07-24 08:17:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.15 Mbit/s (86.8% utilization)

95th percentile per-packet one-way delay: 29.141 ms

Loss rate: 0.10%

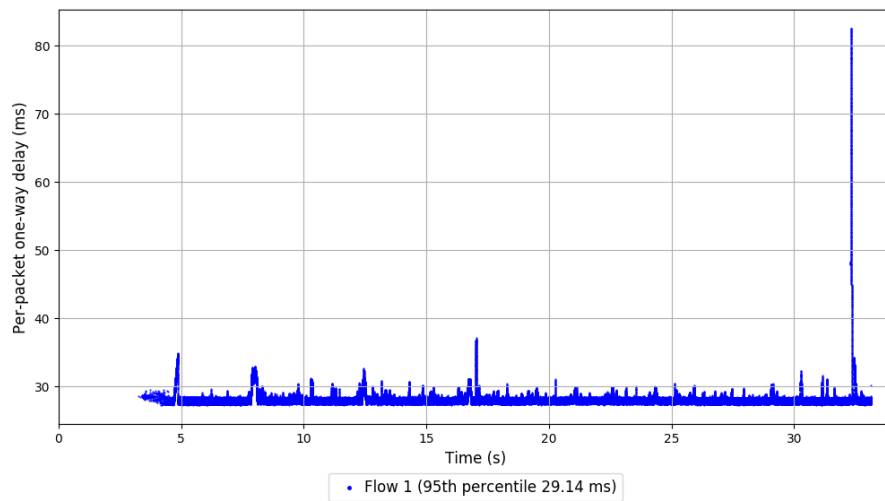
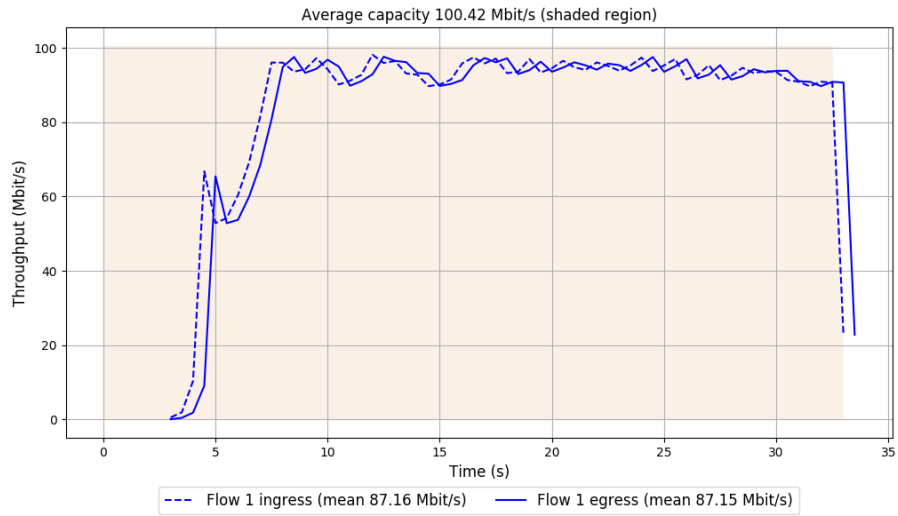
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 29.141 ms

Loss rate: 0.10%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-24 06:56:31

End at: 2018-07-24 06:57:01

Below is generated by plot.py at 2018-07-24 08:17:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.18 Mbit/s (86.8% utilization)

95th percentile per-packet one-way delay: 29.021 ms

Loss rate: 0.15%

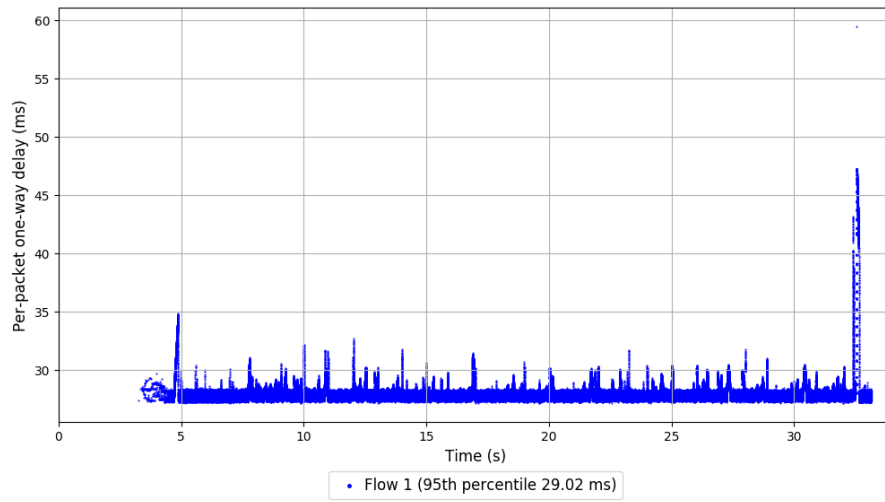
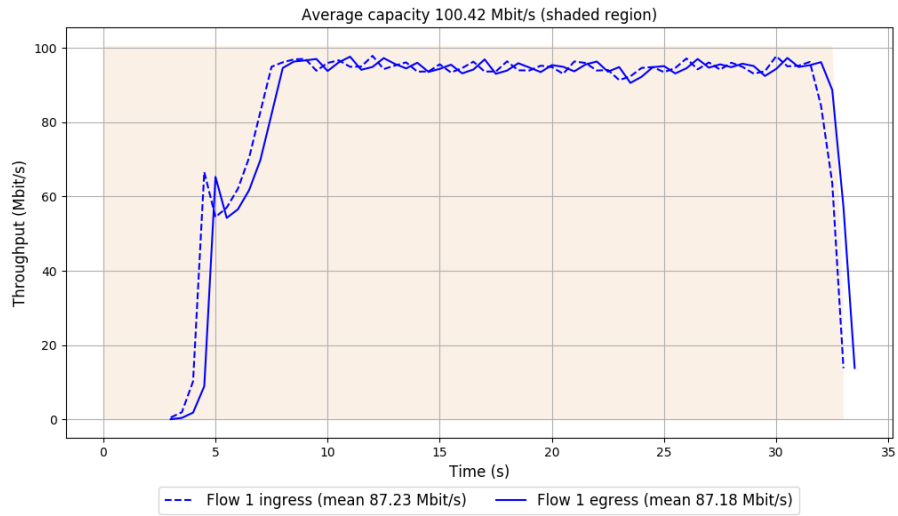
-- Flow 1:

Average throughput: 87.18 Mbit/s

95th percentile per-packet one-way delay: 29.021 ms

Loss rate: 0.15%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-24 07:07:41

End at: 2018-07-24 07:08:11

Below is generated by plot.py at 2018-07-24 08:17:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 86.84 Mbit/s (86.5% utilization)

95th percentile per-packet one-way delay: 30.151 ms

Loss rate: 0.16%

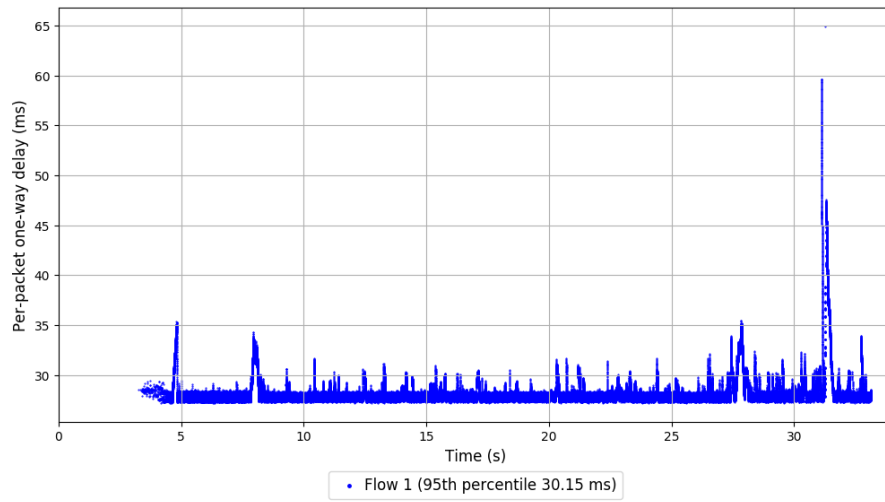
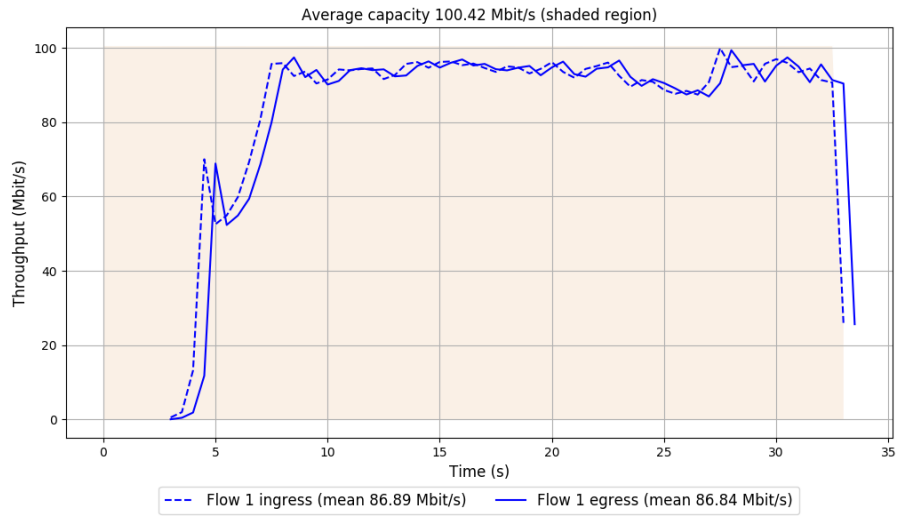
-- Flow 1:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 30.151 ms

Loss rate: 0.16%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-24 07:18:52

End at: 2018-07-24 07:19:22

Below is generated by plot.py at 2018-07-24 08:18:04

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 87.40 Mbit/s (87.0% utilization)

95th percentile per-packet one-way delay: 29.417 ms

Loss rate: 0.17%

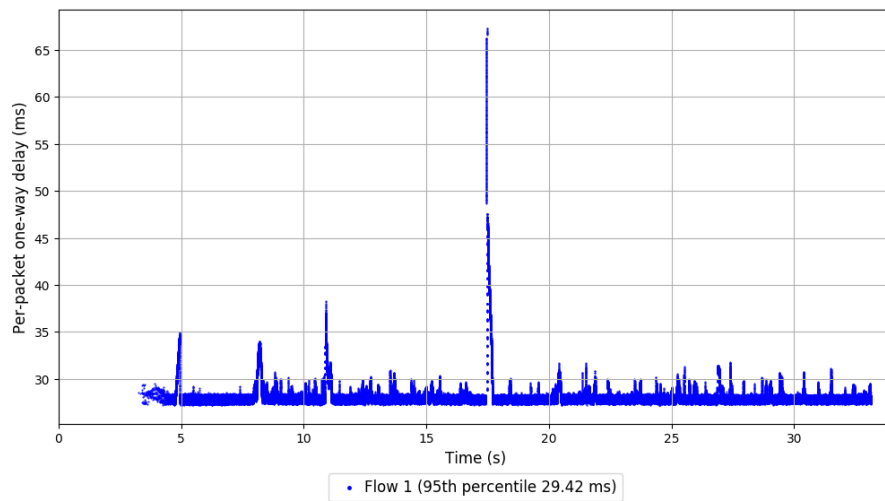
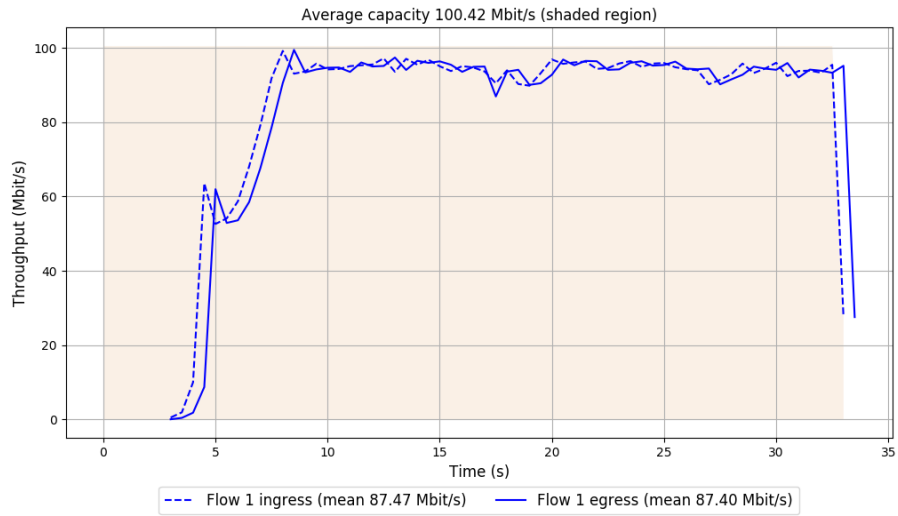
-- Flow 1:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 29.417 ms

Loss rate: 0.17%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-24 07:30:03

End at: 2018-07-24 07:30:33

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 86.61 Mbit/s (86.2% utilization)

95th percentile per-packet one-way delay: 29.902 ms

Loss rate: 0.15%

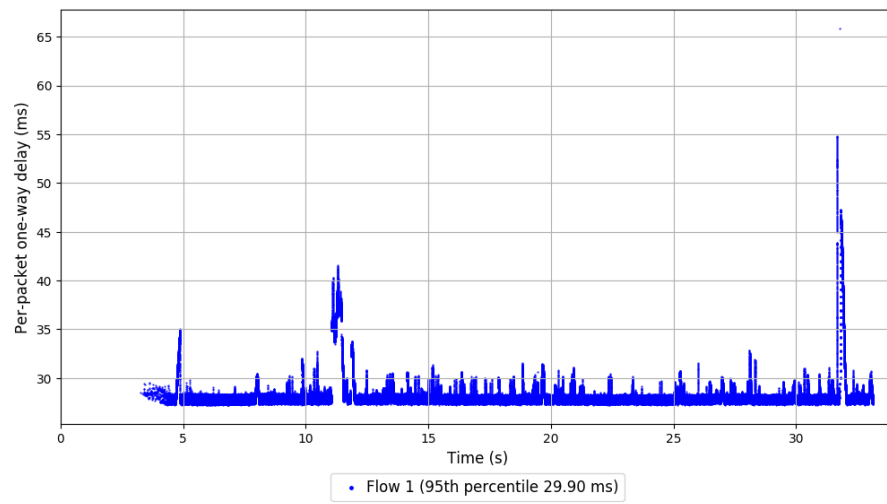
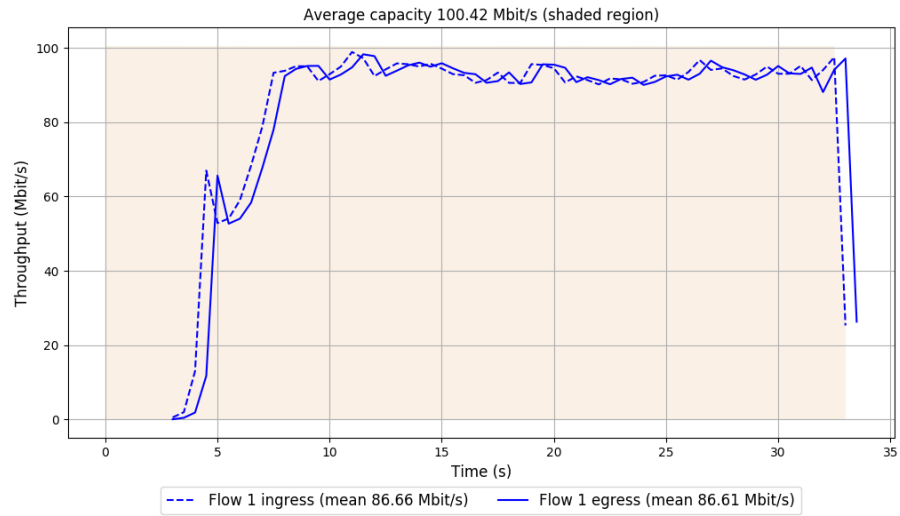
-- Flow 1:

Average throughput: 86.61 Mbit/s

95th percentile per-packet one-way delay: 29.902 ms

Loss rate: 0.15%

Run 10: Report of PCC-Vivace — Data Link

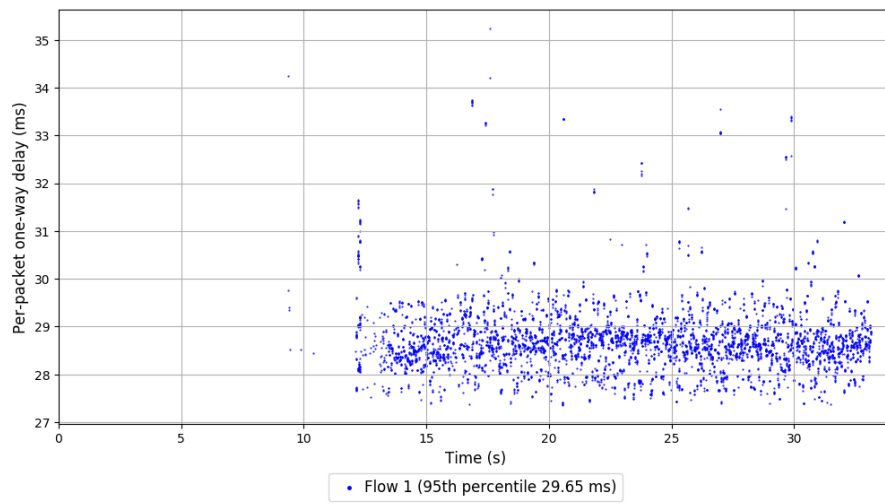
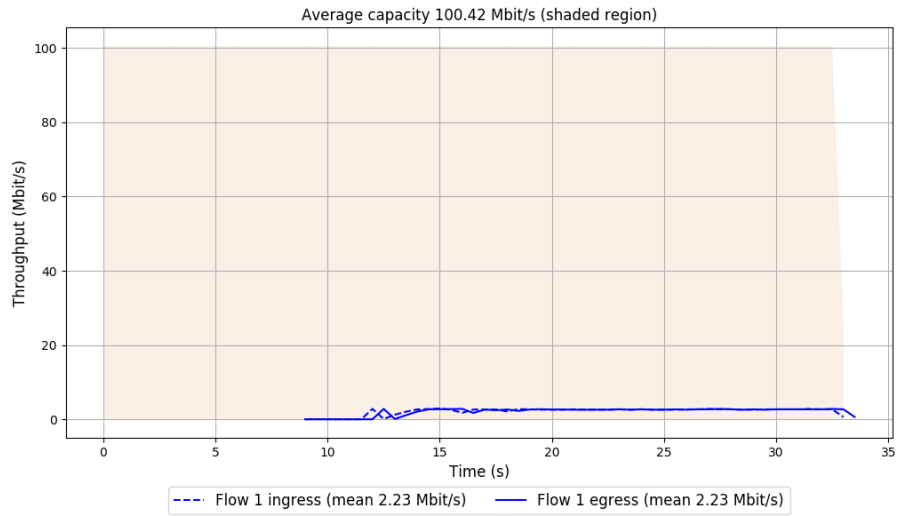


Run 1: Statistics of WebRTC media

Start at: 2018-07-24 05:51:05

End at: 2018-07-24 05:51:35

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-24 06:02:06

End at: 2018-07-24 06:02:36

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 2.34 Mbit/s (2.3% utilization)

95th percentile per-packet one-way delay: 29.580 ms

Loss rate: 0.12%

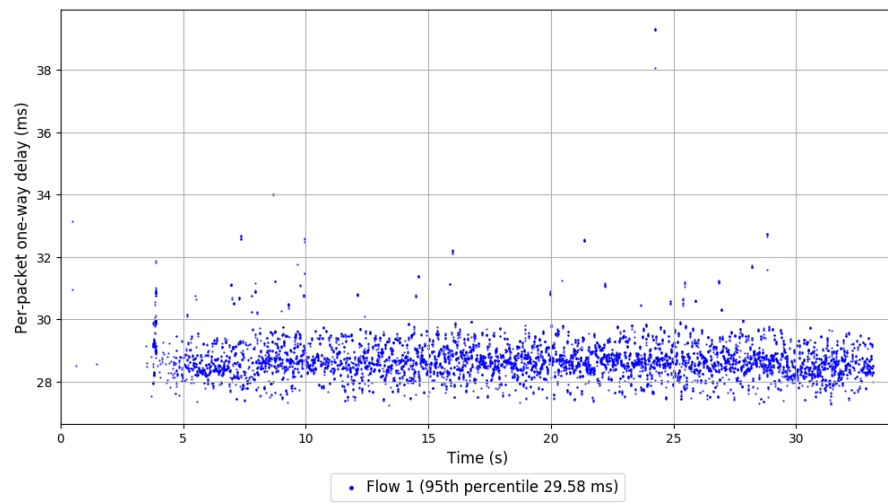
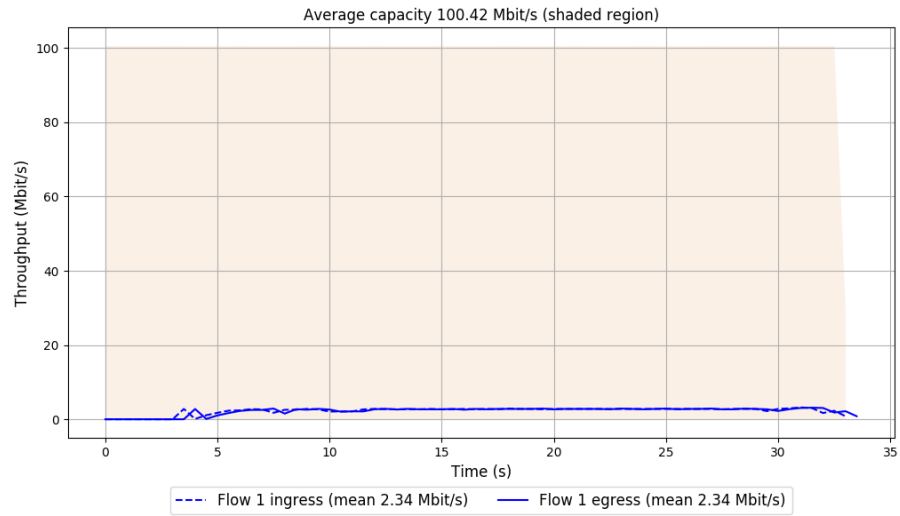
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 29.580 ms

Loss rate: 0.12%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-24 06:13:16

End at: 2018-07-24 06:13:46

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 2.20 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 29.755 ms

Loss rate: 0.08%

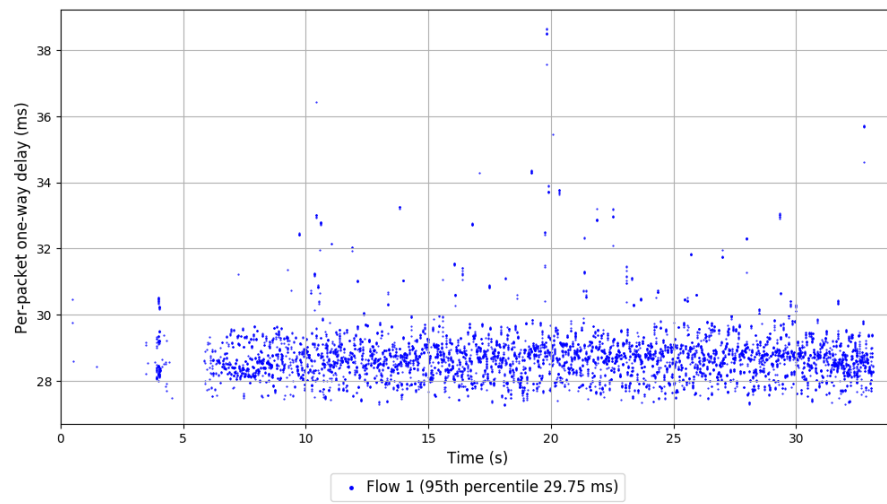
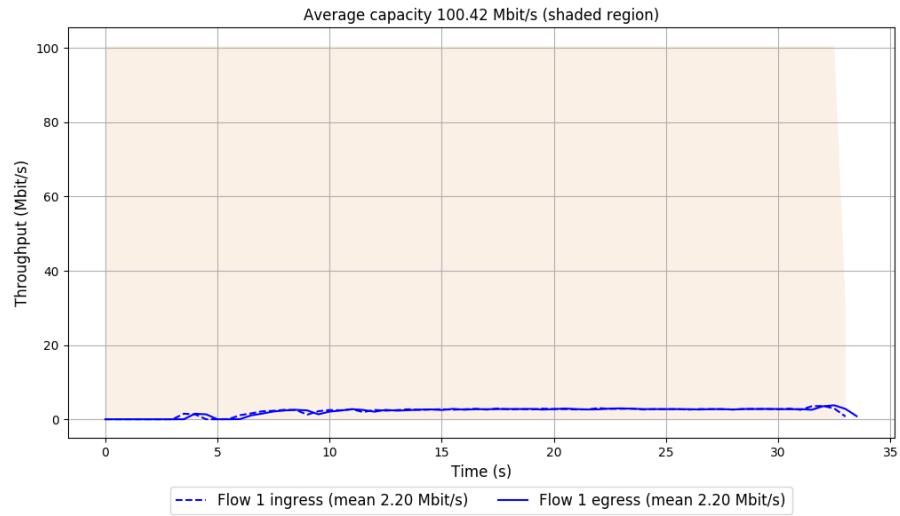
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 29.755 ms

Loss rate: 0.08%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-24 06:24:28

End at: 2018-07-24 06:24:58

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 1.93 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 29.459 ms

Loss rate: 0.08%

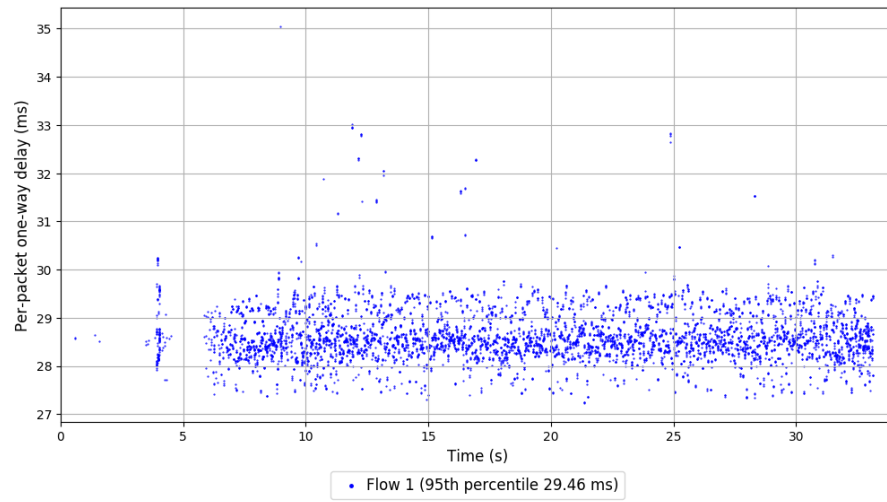
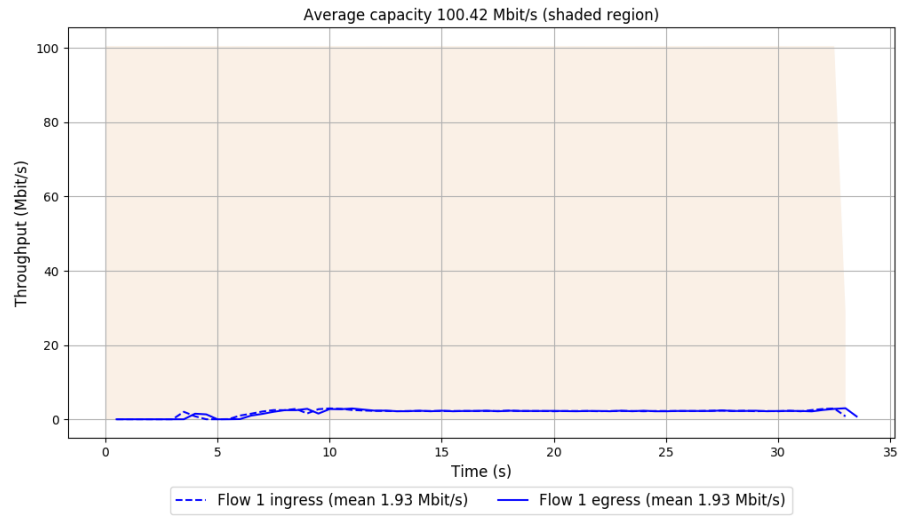
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 29.459 ms

Loss rate: 0.08%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-24 06:35:34

End at: 2018-07-24 06:36:04

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 1.94 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 29.540 ms

Loss rate: 0.16%

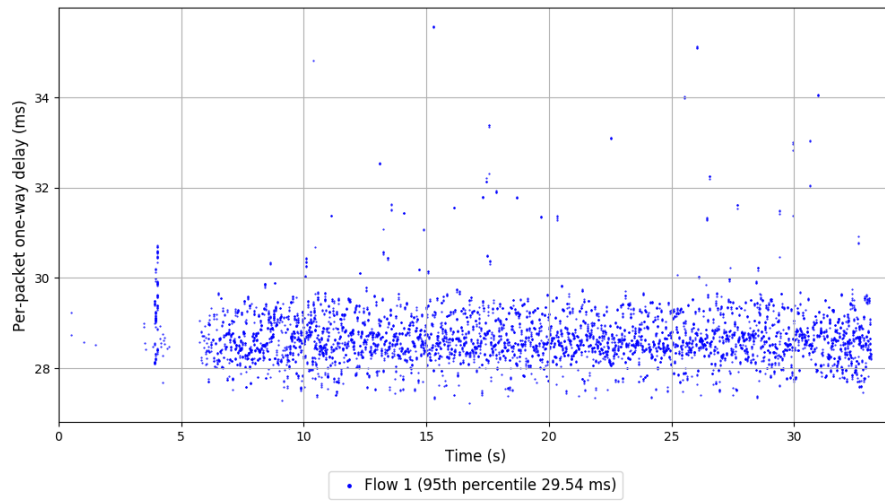
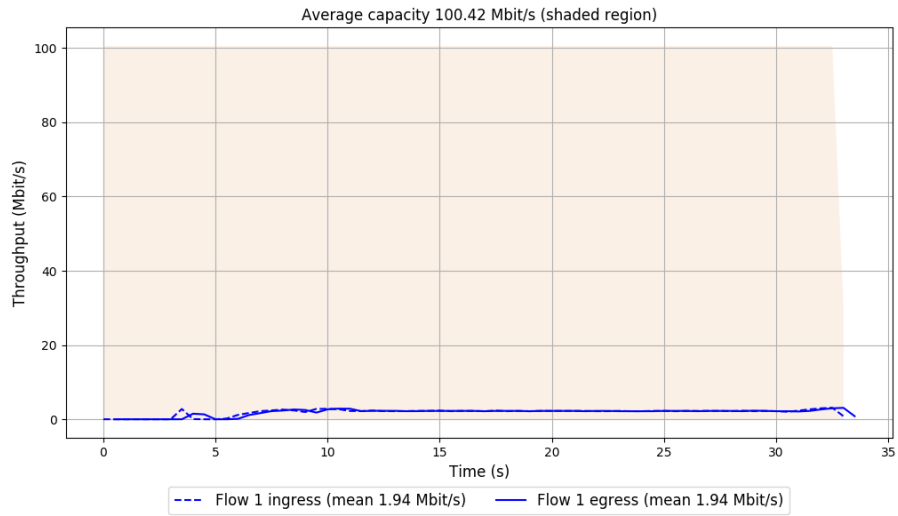
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 29.540 ms

Loss rate: 0.16%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-24 06:46:44

End at: 2018-07-24 06:47:15

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 1.92 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 29.569 ms

Loss rate: 0.17%

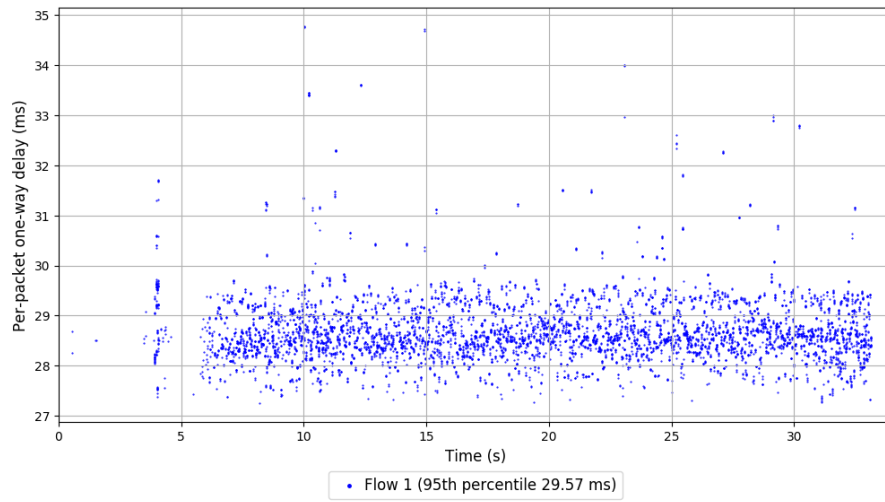
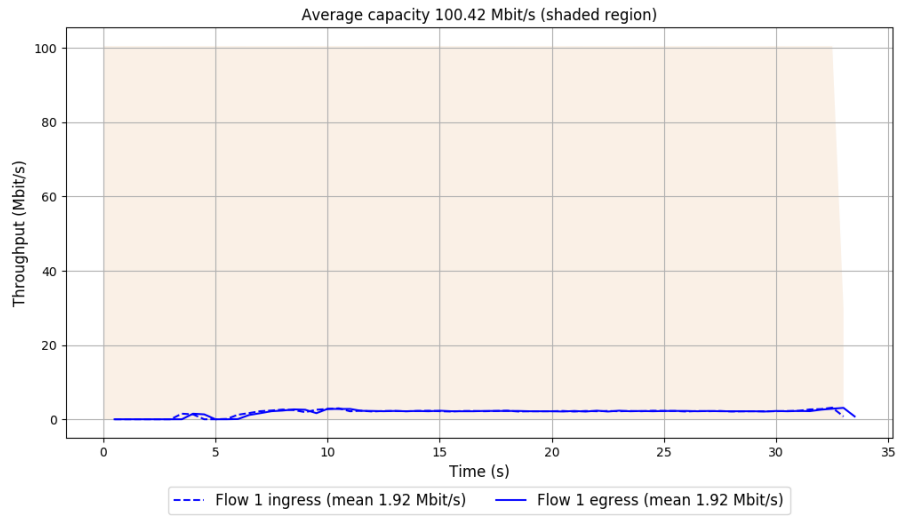
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 29.569 ms

Loss rate: 0.17%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-24 06:57:55

End at: 2018-07-24 06:58:25

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 1.93 Mbit/s (1.9% utilization)

95th percentile per-packet one-way delay: 29.464 ms

Loss rate: 0.14%

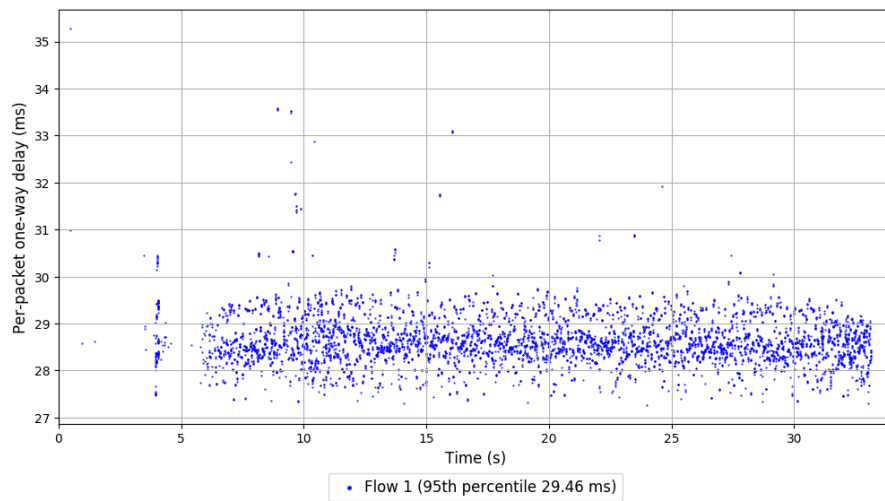
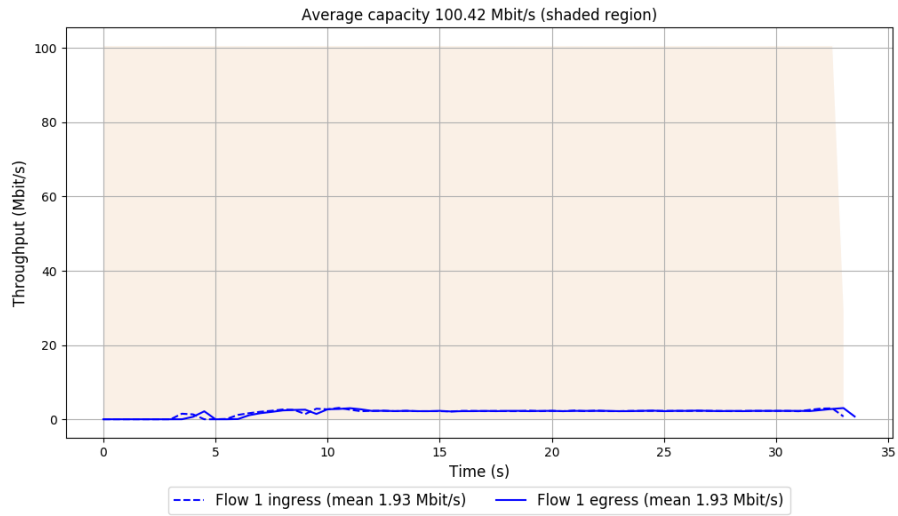
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 29.464 ms

Loss rate: 0.14%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-24 07:09:05

End at: 2018-07-24 07:09:35

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 2.24 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 29.755 ms

Loss rate: 0.14%

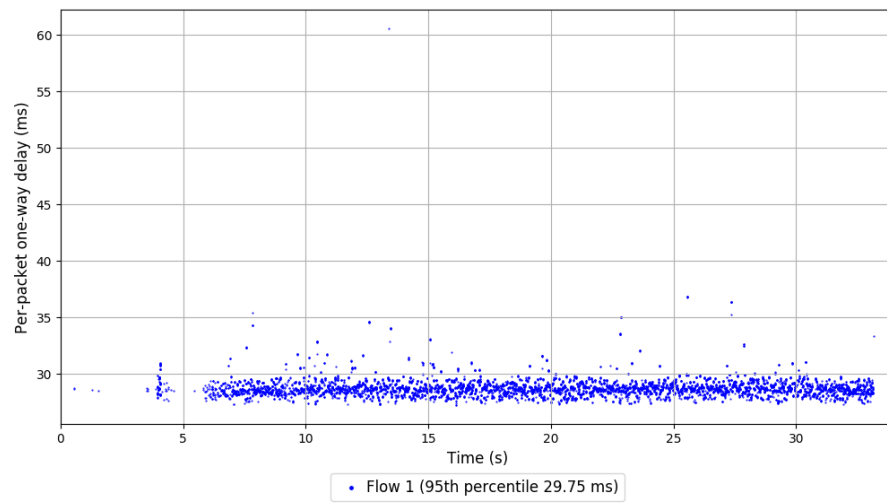
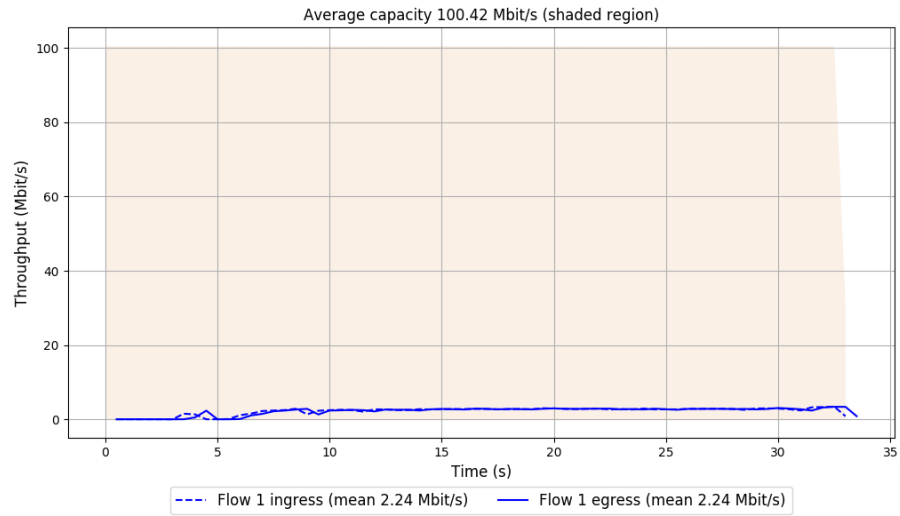
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 29.755 ms

Loss rate: 0.14%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-24 07:20:16

End at: 2018-07-24 07:20:46

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 2.20 Mbit/s (2.2% utilization)

95th percentile per-packet one-way delay: 29.738 ms

Loss rate: 0.14%

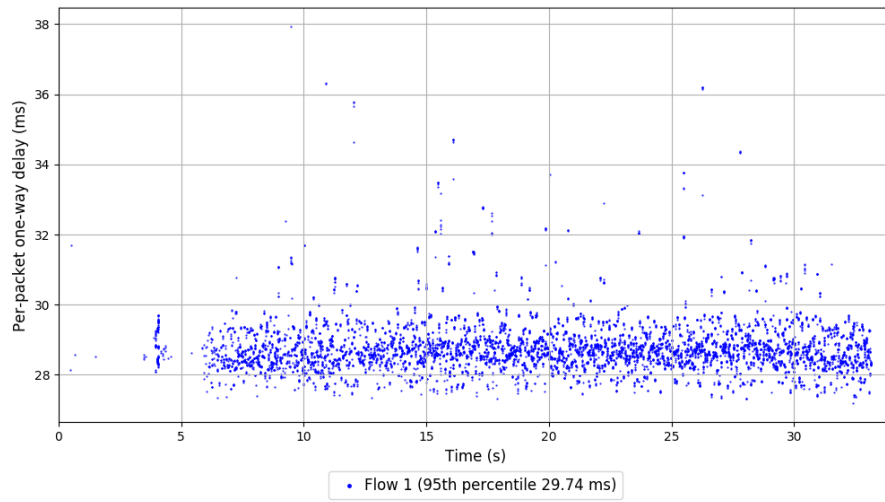
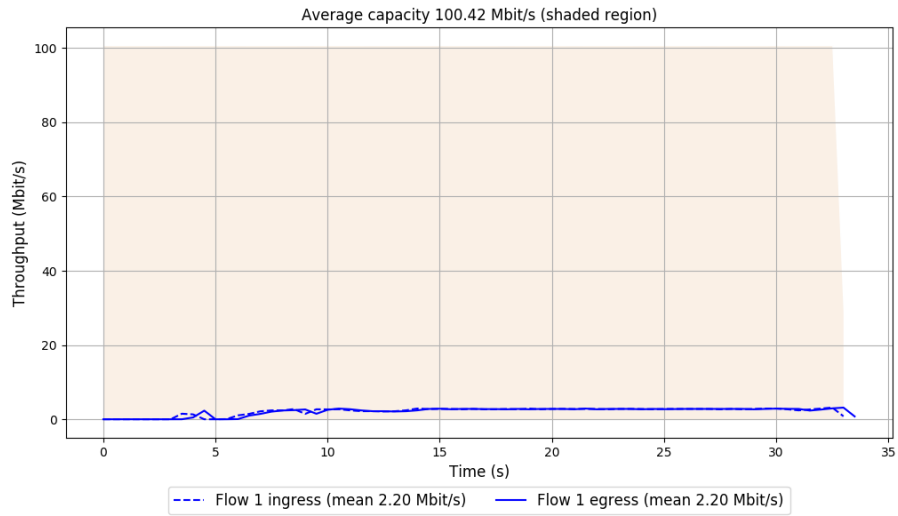
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 29.738 ms

Loss rate: 0.14%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-24 07:31:26

End at: 2018-07-24 07:31:56

Below is generated by plot.py at 2018-07-24 08:18:16

Datalink statistics

-- Total of 1 flow:

Average capacity: 100.42 Mbit/s

Average throughput: 2.15 Mbit/s (2.1% utilization)

95th percentile per-packet one-way delay: 29.604 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 29.604 ms

Loss rate: 0.08%

Run 10: Report of WebRTC media — Data Link

