Results

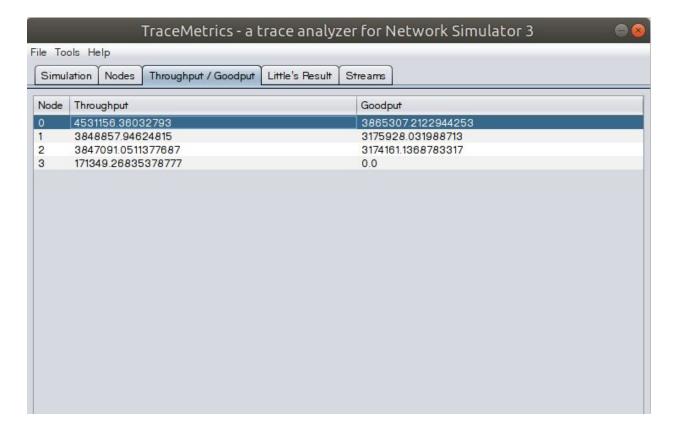
Average Results

Configuration	Avg Throughput	Avg Delay
With ack filter	3099613.25	0.0064028
Without ack filter	1632804.25	0.0010145

Detailed Results

Results With Ack Filter

TCP throughput with ack filter



TCP Delay with ack filter

TCP ALL:

----- Stream 0 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60000 --> 49153

Number of packets: 295

Average Delay: 0.006167964579660985
Delay variance: 1.115864778354636E-4
Average PDV: 0.00615996457966109
PDV variance: 1.1120821858856477E-4
Average IPDV: -1.6107482993197914E-6
IPDV variance: 9.174889497463886E-6

----- Stream 1 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60001 --> 49154

Number of packets: 257

Average Delay: 0.007526175112840455
Delay variance: 1.490120118237513E-4
Average PDV: 0.007518175112840472
PDV variance: 1.4843219854817252E-4
Average IPDV: -3.5980234374999624E-6
IPDV variance: 5.241471838198452E-6

----- Stream 2 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60002 --> 49155

Number of packets: 205

Average Delay: 0.010418475229268236
Delay variance: 2.0616461461099374E-4
Average PDV: 0.010410475229268353
PDV variance: 2.051589335641131E-4
Average IPDV: -6.7236862745097585E-6
IPDV variance: 8.392710560751262E-6

----- Stream 3 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60003 --> 49156

Number of packets: 204

Average Delay: 0.011459820127450983

Delay variance: 2.469139970999465E-4

Average PDV: 0.011451820127451037

PDV variance: 2.4570363436906395E-4 Average IPDV: -8.961408866994889E-6 IPDV variance: 1.0333351964827938E-5

----- Stream 4 -----

IPs: 10.1.1.1 --> 10.1.3.2 Ports: 49153 --> 60000

Number of packets: 592

Average Delay: 0.003937408697635104
Delay variance: 1.379101872910195E-5
Average PDV: 0.003905728697635178
PDV variance: 1.3767723089356907E-5
Average IPDV: 1.0147884940775548E-7
IPDV variance: 1.5187886323330084E-7

----- Stream 5 -----

IPs: 10.1.1.1 --> 10.1.3.2
Ports: 49154 --> 60001
Number of packets: 580

Average Delay: 0.0035575764137930413
Delay variance: 2.0591098901728248E-5
Average PDV: 0.003525892413793121
PDV variance: 2.055559700706997E-5
Average IPDV: 9.462521588948567E-8
IPDV variance: 2.997420067395371E-7

----- Stream 6 -----

IPs: 10.1.1.1 --> 10.1.3.2 Ports: 49155 --> 60002

Number of packets: 584

Average Delay: 0.003892680373287614
Delay variance: 2.5038806236968236E-5
Average PDV: 0.0038610003732877213
PDV variance: 2.499593156875405E-5
Average IPDV: 8.165008576336007E-8
IPDV variance: 3.613819107098012E-7

----- Stream 7 -----

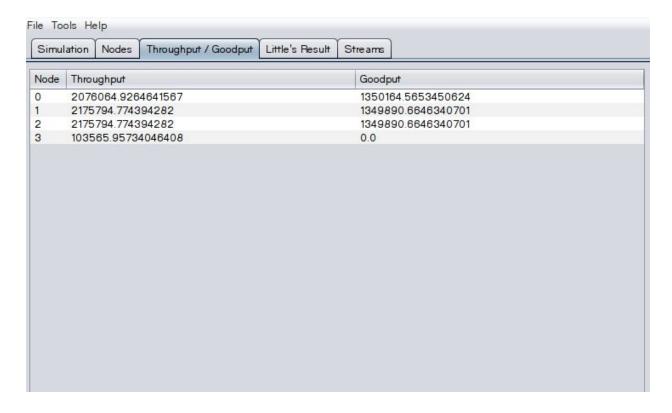
IPs: 10.1.1.1 --> 10.1.3.2 Ports: 49156 --> 60003

Number of packets: 581

Average Delay: 0.004272848354561038 Delay variance: 3.005910568563507E-5 Average PDV: 0.004241168354561149
PDV variance: 3.0007368842802688E-5
Average IPDV: 7.140689655179117E-8
IPDV variance: 4.335732528403928E-7

Results without Ack Filter

TCP throughput without ack filter



TCP Delay

TCP ALL:

----- Stream 0 -----

IPs: 10.1.3.2 --> 10.1.1.1
Ports: 60000 --> 49153
Number of packets: 1630

Average Delay: 0.0011233843871165693
Delay variance: 2.5765749536984133E-5
Average PDV: 0.0011233843871165693
PDV variance: 2.5749942328679237E-5

Average IPDV: -2.9009208103126727E-7 IPDV variance: 1.6558902854233309E-6

----- Stream 1 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60001 --> 49154

Number of packets: 2235

Average Delay: 8.73082328411627E-4
Delay variance: 2.2829405619444524E-5
Average PDV: 8.73082328411627E-4
PDV variance: 2.2819191120285935E-5
Average IPDV: -4.123070725158366E-7
IPDV variance: 6.006527318365723E-7

----- Stream 2 -----

IPs: 10.1.3.2 --> 10.1.1.1 Ports: 60002 --> 49155

Number of packets: 1480

Average Delay: 0.0014512732581080908
Delay variance: 4.1374158750221174E-5
Average PDV: 0.0014512732581080908
PDV variance: 4.134620323755211E-5
Average IPDV: -6.285544286681266E-7
IPDV variance: 1.1577651943828118E-6

----- Stream 3 -----

IPs: 10.1.3.2 --> 10.1.1.1
Ports: 60003 --> 49156

Number of packets: 2235

Average Delay: 0.001053894991498869
Delay variance: 3.331786775994651E-5
Average PDV: 0.001053894991498869
PDV variance: 3.3302960436563986E-5
Average IPDV: -8.138612354520741E-7
IPDV variance: 9.39000125521605E-7

----- Stream 4 -----

IPs: 10.1.1.1 --> 10.1.3.2 Ports: 49153 --> 60000 Number of packets: 2885

Average Delay: 0.0014684554415944281
Delay variance: 7.604466998445518E-6
Average PDV: 0.0014684554415944281

PDV variance: 7.601831134667893E-6 Average IPDV: -1.3959778085308478E-9 IPDV variance: 4.129454863084407E-8

----- Stream 5 -----

IPs: 10.1.1.1 --> 10.1.3.2
Ports: 49154 --> 60001
Number of packets: 4467

Average Delay: 0.0012715581643160411
Delay variance: 7.989065271195854E-6
Average PDV: 0.0012715581643160411
PDV variance: 7.987276807960752E-6
Average IPDV: -2.286609941738245E-9
IPDV variance: 5.6012628316875245E-8

----- Stream 6 -----

IPs: 10.1.1.1 --> 10.1.3.2
Ports: 49155 --> 60002
Number of packets: 2595

Average Delay: 0.0014395746967244463
Delay variance: 9.268689175656207E-6
Average PDV: 0.0014395746967244463
PDV variance: 9.265117426455568E-6
Average IPDV: -6.3215111797406056E-9
IPDV variance: 1.2503655425091163E-7

----- Stream 7 -----

IPs: 10.1.1.1 --> 10.1.3.2 Ports: 49156 --> 60003 Number of packets: 4466

Average Delay: 9.036105897895161E-4
Delay variance: 5.623439748393179E-6
Average PDV: 8.736105897893137E-4
PDV variance: 5.622180581409668E-6
Average IPDV: -5.058006718880869E-9
IPDV variance: 5.8683432360711405E-8