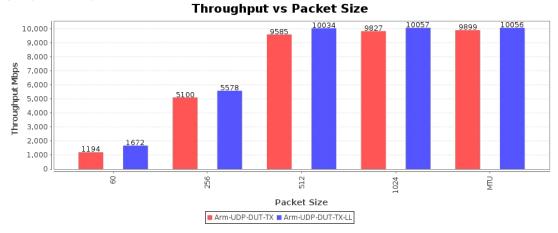
Test Setup Information
Device Under Test

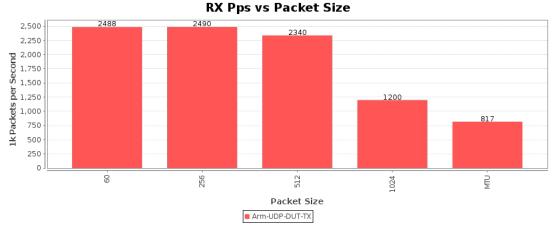
Objective

The Candela data plane test is designed to conduct an automatic testing of all combinations of Traffic types, Traffic direction and Frame sizes. It will run a quick throughput test at every combination of these test variables and plot all the results in a set of charts to compare performance. The user is allowed to define an intended load as a percentage of the max theoretical network rate for every test combination. This test provides a way to go through many combinations in a fully automated fashion and find patterns and problem areas which can be further debugged using more specific testing.

Throughput for each different traffic type. Datasets with names ending in '-LL' will include the IP, TCP, UDP and Ethernet header bytes in their calculation. For Armageddon traffic only, low-level throughput includes the Ethernet FCS and preamble. Other datasets report 'goodput' for the protocol.



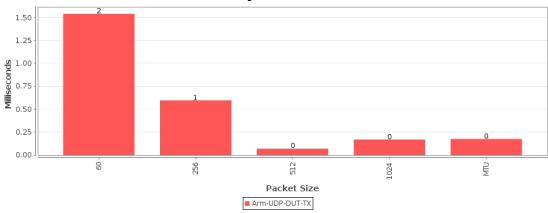
Pps throughput for each different traffic type. The values are estimated packets-per-second over the DUT, but some protocols such as TCP make this difficult to know for certain, so the value is extrapolated.



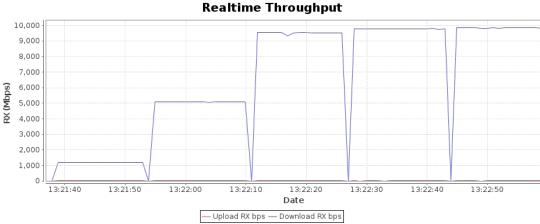
Latency in micro-seconds for each different traffic type. If opposite-direction traffic is non-zero, then round-trip time will be reported.

Otherwise, one-way latency will be reported.





Realtime Graph shows summary download and upload RX Goodput rate of connections created by this test. Goodput does not include Ethernet, IP, UDP/TCP header overhead.

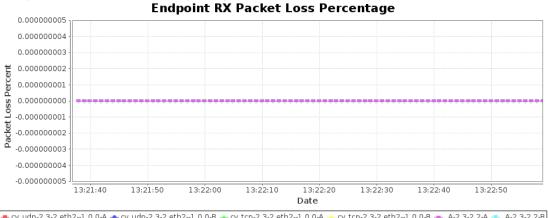


Test Information

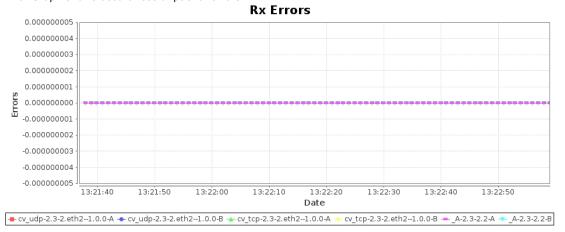
Message
Starting dataplane test with: 5 iterations.

Pkt	Traffic-Type	Direction	Duration	Offered-1m	Rx-Bps	Rx-Bps-1m	Rx-Bps-LL	Rx-Pps-1m	Theoretical	Tx-Failed	Tx-Failed%	Tx/Rx-Rate
60	Arm-UDP	DUT-TX	15	1194385577	1189543232	1194420448	1672188627	2488375	10000000000	0 / 39098360	0	10 Gbps
256	Arm-UDP	DUT-TX	15	5380920531	5077649226	5099748135	5577849523	2490111	10000000000	0 / 36859417	0	10 Gbps
512	Arm-UDP	DUT-TX	15	10115101360	9537364340	9584648607	10033929010	2340001	10000000000	0 / 35969071	0	10 Gbps
1024	Arm-UDP	DUT-TX	15	9826211349	9770714496	9826562124	10056872174	1199531	10000000000	0 / 18023604	0	10 Gbps
MTU	Arm-UDP	DUT-TX	15	9898579332	9844209140	9898817617	10055734145	817273	10000000000	0 / 12665669	0	10 Gbps

Packet Loss Percentage graph shows the percentage of lost packets as detected by the receiving endpoint due to packet gaps. If there is full packet loss, then this will not report any loss since there will be no gap to detect.



Error Graph shows occurances of packet errors.



Test configuration and LANforge software version								
Path Loss	10							
Requested Speed	10gbps							
Requested Opposite Speed	56kbps							
Multi-Conn	1							
Armageddon Multi-Pkt	1000							
ToS	0							
Duration:	15 sec (15 s)							
Channels	AUTO							
Spatial Streams	AUTO							
Bandwidth	AUTO							
Attenuator-1	0							
Attenuation-1	0+50950							
Attenuator-2	0							
Attenuation-2	0+50950							
Turntable Chamber	0							
Turntable Angles	0+45359							
Modes	Auto							
Packet Size	60, 256, 512, 1024, MTU							
Security	AUTO							
Traffic Type	Arm-UDP							
Direction	DUT Transmit							
Upstream Port	1.2.3 eth3 Firmware: 0x00011bab Resource: e5-1630v3-32g- 16010004							
WiFi Port	1.2.2 eth2 Firmware: 0x00011bab Resource: e5-1630v3-32g- 16010004							
Show Events	true							
Auto Save Report	false							
Build Date	Tue Mar 17 14:08:29 PDT 2020							
Build Version	5.4.2							
Git Version	7f2bd524e71d37b216a842d728cef2cbd6c888cd							

