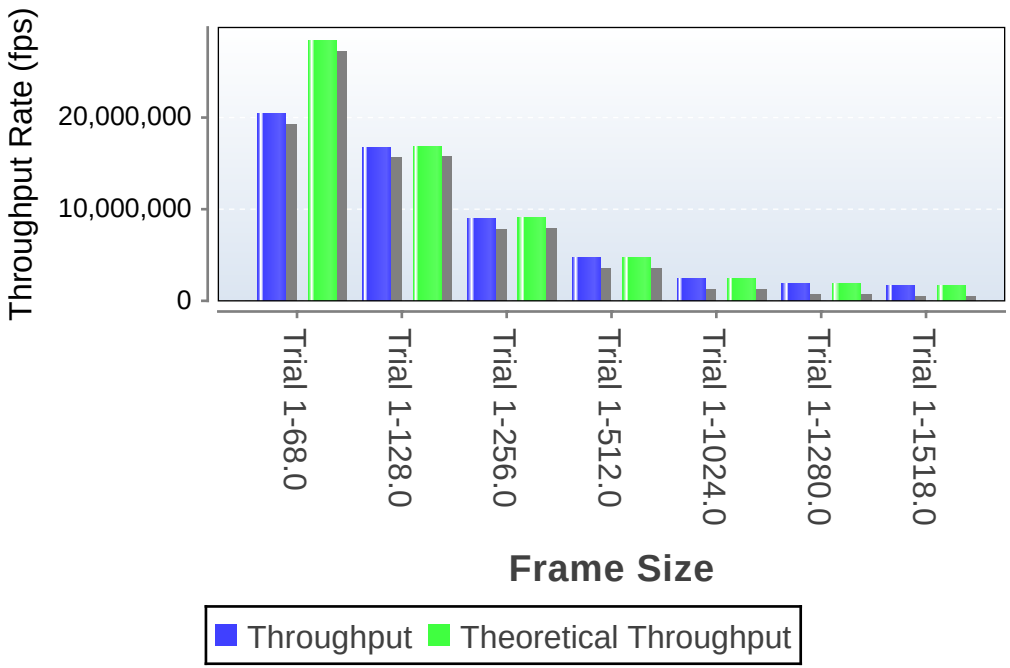
Spirent TestCenter Report

Test Type:	RFC2544 Throughput Test
Counter Mode:	Jitter
Test Date:	2019-03-21 18:06:26 CST

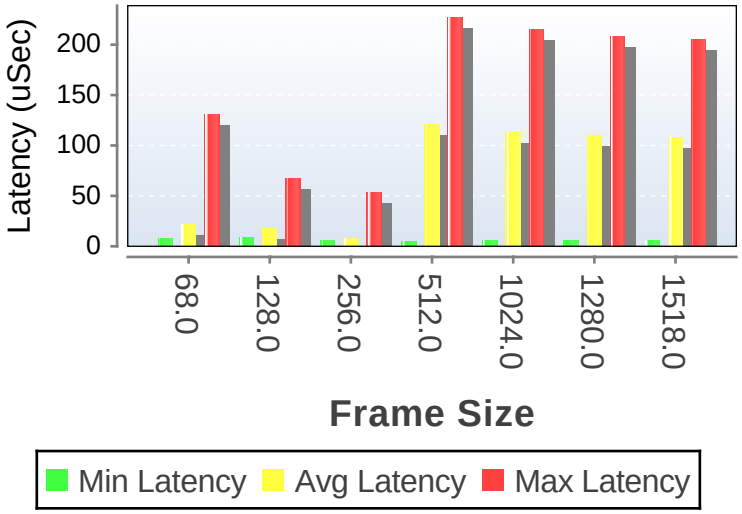
Throughput by Frame Size VS Theoretical Max



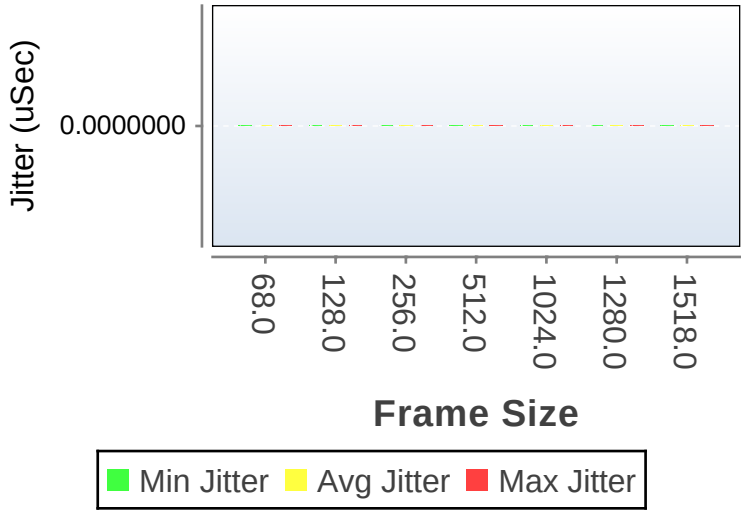
Total Trials	Number of Passed Trials	Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Throughput (%)	Aggregated Throughput (fps)	Aggregated Theoretical Max (fps)	Aggregated Throughput (Mbps)
1	1	68	71.875	71.875	71.875	20419035	28409090	14375.001
1	1	128	99.297	99.297	99.297	16773120	16891891	19859.375
1	1	256	99.297	99.297	99.297	8994282	9057971	19859.375
1	1	512	100	100	100	4699248	4699248	20000
1	1	1024	100	100	100	2394636	2394636	20000
1	1	1280	100	100	100	1923076	1923076	20000
1	1	1518	100	100	100	1625487	1625487	20000

Aggregated Theoretical Max (Mbps)
20000
20000
20000
20000
20000
20000
20000

Latency by Frame size at Throughput



Jitter by Frame size at Throughput



Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Min Frame Loss (%)	Min Latency (uSec)	Avg Latency (uSec)	Max Latency (uSec)	Min Jitter (uSec)	Avg Jitter (uSec)	Max Jitter (uSec)
68	10	10	0	2.72	3.676	31.24	0	0	0
68	55	55	0	5.26	7.955	54.09	0	0	0
68	77.5	77.5	0.00578453315499555	9.04	34.702	161.68	0	0	0
68	66.25	66.25	0	6.61	13.569	66.82	0	0	0
68	71.875	71.875	0	7.4	21.661	130.62	0	0	0

68	74.688	74.688	0.00295958849456776	9.54	27.661	165.46	0	0	0
68	73.281	73.281	0.00002545807882046	6.14	24.901	153.51	0	0	0
68	72.578	72.578	0.00040723381370315	6.85	22.903	168.62	0	0	0
128	10	10	0	2.69	3.616	29.93	0	0	0
128	55	55	0	3.79	5.232	47.55	0	0	0
128	77.5	77.5	0	4.94	7.236	90.54	0	0	0
128	88.75	88.75	0	6.23	9.339	64.21	0	0	0
128	94.375	94.375	0	5.53	11.258	67	0	0	0
128	97.188	97.188	0	7.71	13.031	96.14	0	0	0
128	98.594	98.594	0	6.67	15.183	66.68	0	0	0
128	99.297	99.297	0	8.23	18.055	67.19	0	0	0
128	100	100	0.000219335999894719	7.69	124.134	148.66	0	0	0
256	10	10	0	2.78	3.071	56.33	0	0	0
256	55	55	0	3.34	4.282	36.1	0	0	0
256	77.5	77.5	0	3.86	4.973	43.53	0	0	0
256	88.75	88.75	0	4.32	5.452	49.73	0	0	0
256	94.375	94.375	0	4.55	5.832	49.56	0	0	0
256	97.188	97.188	0	4.79	6.241	47.34	0	0	0
256	98.594	98.594	0	5.04	6.692	47.1	0	0	0
256	99.297	99.297	0	5.27	7.347	53.5	0	0	0
256	100	100	0.0000447119999069991	5.8	157.721	247.73	0	0	0
512	10	10	0	2.94	3.211	29.99	0	0	0
512	55	55	0	3.18	3.955	31.23	0	0	0
512	77.5	77.5	0	3.42	4.299	20.95	0	0	0
512	88.75	88.75	0	3.61	4.571	38.76	0	0	0
512	94.375	94.375	0	3.94	4.843	37	0	0	0
512	97.188	97.188	0	4.18	5.05	38.11	0	0	0
512	98.594	98.594	0	4.33	5.289	77.53	0	0	0

512	99.297	99.297	0	4.45	5.598	37.23	0	0	0
512	100	100	0	4.99	120.582	227.34	0	0	0
1024	10	10	0	3.13	3.428	26.87	0	0	0
1024	55	55	0	2.87	3.308	61.44	0	0	0
1024	77.5	77.5	0	3.33	4.215	33.4	0	0	0
1024	88.75	88.75	0	3.61	4.376	37.1	0	0	0
1024	94.375	94.375	0	3.78	4.504	34.03	0	0	0
1024	97.188	97.188	0	3.97	4.682	67.74	0	0	0
1024	98.594	98.594	0	4.08	4.891	31.34	0	0	0
1024	99.297	99.297	0	4.19	5.154	39.78	0	0	0
1024	100	100	0	5.58	113.092	214.75	0	0	0
1280	10	10	0	3.24	3.547	22.29	0	0	0
1280	55	55	0	3.07	3.433	30.3	0	0	0
1280	77.5	77.5	0	3.01	3.788	34.07	0	0	0
1280	88.75	88.75	0	3.55	4.41	30.83	0	0	0
1280	94.375	94.375	0	3.87	4.581	35.96	0	0	0
1280	97.188	97.188	0	4.04	4.734	33.36	0	0	0
1280	98.594	98.594	0	4.17	4.928	33.3	0	0	0
1280	99.297	99.297	0	4.25	5.164	65.1	0	0	0
1280	100	100	0	6.12	109.612	208.08	0	0	0
1518	10	10	0	3.32	3.66	12.89	0	0	0
1518	55	55	0	3.19	3.556	28.8	0	0	0
1518	77.5	77.5	0	3.08	3.51	17	0	0	0
1518	88.75	88.75	0	3.1	3.876	29.74	0	0	0
1518	94.375	94.375	0	3.21	4.414	31.25	0	0	0
1518	97.188	97.188	0	3.72	4.719	32.88	0	0	0
1518	98.594	98.594	0	4.12	4.922	63.71	0	0	0
1518	99.297	99.297	0	4.34	5.149	36.67	0	0	0

1518	100	100	0	5.42	108.054	204.66	0	0	0

Throughput by Trial

Traffic Duration : 60 Seconds - Custom Frame Size(bytes) : {68 128 256 512 1024 1280 1518}

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Trial	Frame Size (bytes)	Result	Intended Load (%)	Offered Load (%)	Throughput (%)	Port Name	Throughput (fps)	Theoretical Max Throughput (fps)	Throughput (Mbps)	Theoretical Max Throughput (Mbps)	Frame Loss (%)	Max Latency Threshold Exceeded	Out of Sequence Threshold Exceeded
1	68	Passed	71.875	71.875	71.875		20419035	28409090	14375.001	20000	0	False	False
						Port //2/1	10209517	14204545	7187.5	10000			
						Port //2/2	10209517	14204545	7187.5	10000			
1	128	Passed	99.297	99.297	99.297		16773120	16891891	19859.375	20000	0	False	False
						Port //2/1	8386560	8445945	9929.688	10000			
						Port //2/2	8386560	8445945	9929.688	10000			
1	256	Passed	99.297	99.297	99.297		8994282	9057971	19859.375	20000	0	False	False
						Port //2/1	4497141	4528985	9929.688	10000			
						Port //2/2	4497141	4528985	9929.688	10000			
1	512	Passed	100	100	100		4699248	4699248	20000	20000	0	False	False
						Port //2/1	2349624	2349624	10000	10000			
						Port //2/2	2349624	2349624	10000	10000			
1	1024	Passed	100	100	100		2394636	2394636	20000	20000	0	False	False
						Port //2/1	1197318	1197318	10000	10000			
						Port //2/2	1197318	1197318	10000	10000			

1	1280	Passed	100	100	100		1923076	1923076	20000	20000	0	False	False
						Port //2/1	961538	961538	10000	10000			
						Port //2/2	961538	961538	10000	10000			
1	1518	Passed	100	100	100		1625487	1625487	20000	20000	0	False	False
						Port //2/1	812743	812743	10000	10000			
						Port //2/2	812743	812743	10000	10000			

Frame sizes for iMIX Distributions

Note: Imix Distributions are only available for the 'iMIX' Frame Size Type

iMIX Distribution	Frame Length Mode	IP Total Length	Default Ethernet	POS Length	Weight	Percentage (%)

Theoretical Maximum Frame Rates

Media Type	Line Speed (Mbps)	64 Byte	128 Byte	256 Byte	512 Byte	1024 Byte	1280 Byte	1518 Byte
Ethernet	10	14,880	8,445	4,528	2,349	1,197	961	812
Ethernet	100	148,809	84,459	45,289	23,496	11,973	9,615	8,127
Gigabit Ethernet	1,000	1,488,095	844,594	452,898	234,962	119,731	96,153	81,274
2.5 Gigabit Ethernet	2,500	3,720,238	2,111,486	1,132,246	587,406	299,329	240,384	202,922
5 Gigabit Ethernet	5,000	7,440,476	4,222,972	2,264,492	1,174,812	598,659	480,769	406,371
10 Gigabit Ethernet	10,000	14,880,952	8,445,945	4,528,985	2,349,624	1,197,318	961,538	812,743
25 Gigabit Ethernet	25,000	37,202,380	21,114,864	11,322,463	5,874,060	2,993,295	2,403,846	2,029,220
40 Gigabit Ethernet	40,000	59,523,809	33,783,783	18,115,942	9,398,496	4,789,272	3,846,153	3,250,975
50 Gigabit Ethernet	50,000	74,404,761	42,229,729	22,644,927	11,748,120	5,986,590	4,807,692	4,063,719
100 Gigabit Ethernet	100,000	148,809,523	84,459,459	45,289,855	23,496,240	11,973,180	9,615,384	8,127,438
POS (OC-3)	155	288,000	145,116	72,840	36,491	18,263	14,613	12,323
POS (OC-12)	622	1,152,000	580,465	291,361	145,964	73,053	58,622	49,413
POS (OC-48)	2,448	4,608,000	2,321,860	1,165,447	583,859	292,214	233,817	197,182
POS (OC-192)	9,953	18,432,000	9,287,441	4,661,789	2,335,438	1,168,858	935,269	788,729
ATM (OC-3)	155	176,603	117,735	58,867	32,109	16,054	13,082	11,037
ATM (OC-12)	622	706,412	470,940	235,468	122,810	64,216	52,578	44,148

Template Version: R2C

RunTime Start Data Set ID: 1

RunTime End Data Set ID: 2147483647

RR Template Saved Timestamp: Wed Aug 31 19:04:04.798 PDT 2011

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