



# Spirent TestCenter Report

Test Type: RFC2544 Throughput Test

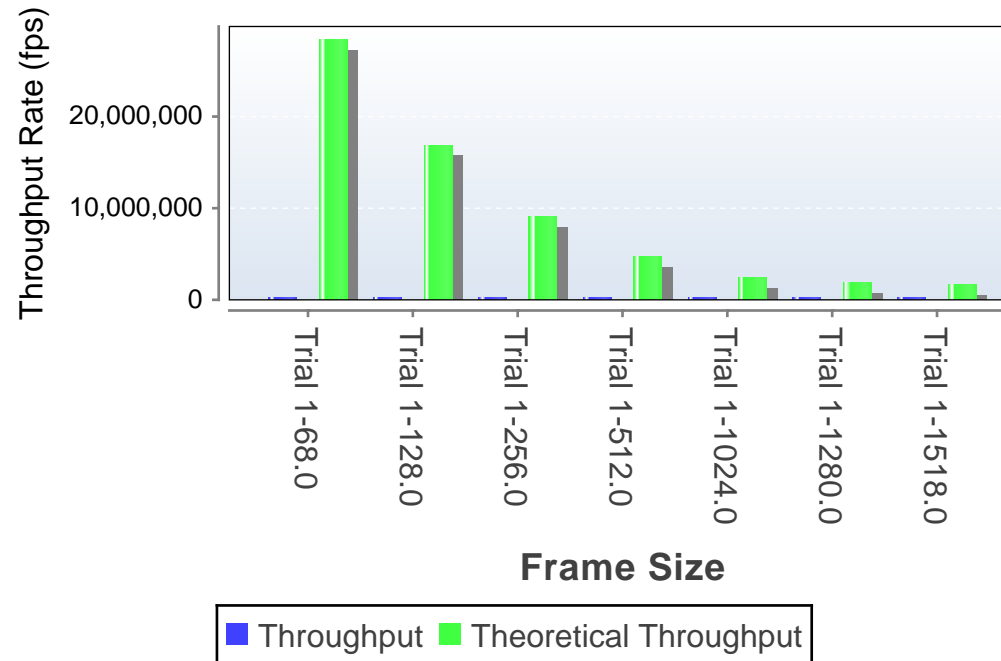
Counter Mode: Jitter

Test Date: 2019-02-25 15:43:19 CST





## Throughput by Frame Size VS Theoretical Max

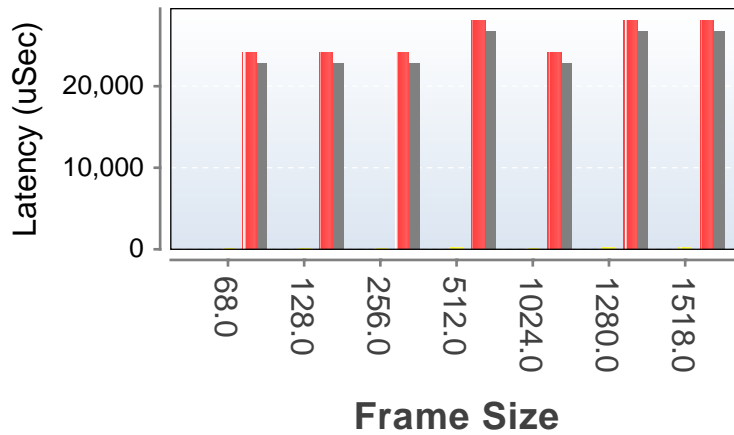


Total Trials	Number of Passed Trials	Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Throughput (%)	Aggregated Throughput (fps)	Aggregated Theoretical Max (fps)	Aggregated Throughput (Mbps)
1	1	68	1	1	1	284090	28409090	200
1	1	128	1.563	1.563	1.563	263935	16891891	312.5
1	1	256	3.25	3.25	3.25	294384	9057971	650
1	1	512	6.063	6.063	6.063	284891	4699248	1212.5
1	1	1024	12.812	12.813	12.813	306812	2394636	2562.5
1	1	1280	14.922	14.922	14.922	286959	1923076	2984.375
1	1	1518	17.734	17.734	17.734	288270	1625487	3546.875

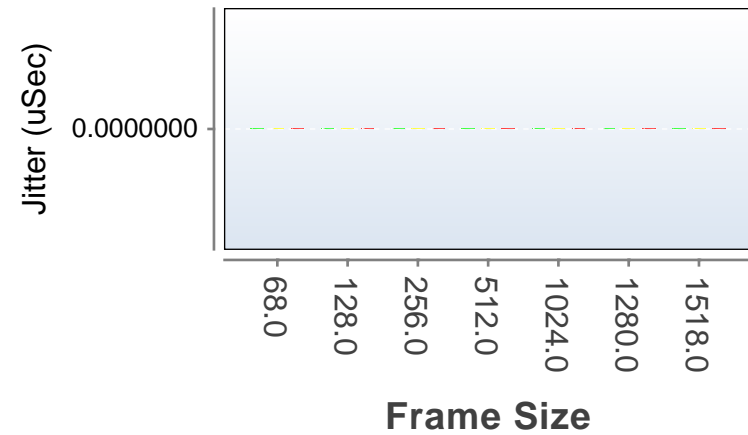
[illegible]



### Latency by Frame size at Throughput



### Jitter by Frame size at Throughput



■ Min Latency 
 ■ Avg Latency 
 ■ Max Latency

■ Min Jitter 
 ■ Avg Jitter 
 ■ Max Jitter

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	29.7193535952414	2.93	58.24	654136.88	0	0	0
68	5.5	5.5	0.00483093323027342	2.72	40.688	8865.7	0	0	0
68	3.25	3.25	0.00145673838982211	2.73	55.71	10553.5	0	0	0
68	2.125	2.125	0.0706484684604697	3.32	115.468	41431.52	0	0	0
68	1.563	1.563	0.0193102482938234	3.22	126.839	28112.98	0	0	0

68	1	1	0	2.58	158.042	24100.76	0	0	0
128	10	10	0.520858318608486	4.56	86.189	17574.18	0	0	0
128	5.5	5.5	0.440591509170152	3.42	150.381	28096.78	0	0	0
128	3.25	3.25	0.0797773060128494	5.62	150.757	24102.31	0	0	0
128	2.125	2.125	0.0243950410555447	4.6	196.82	28090.86	0	0	0
128	1.563	1.563	0	4.06	157.755	24098.51	0	0	0
256	10	10	0.456049470381818	6.76	193.154	28085.47	0	0	0
256	5.5	5.5	0.048883779116242	9.43	191.342	24112.13	0	0	0
256	3.25	3.25	0	7.03	123.189	24098.92	0	0	0
256	4.375	4.375	0.00292297117201807	6.63	122.656	24105.07	0	0	0
256	3.813	3.813	0.00102316059132891	7.76	122.177	24097.94	0	0	0
512	10	10	0.0663155656230436	10.14	195.204	28092.59	0	0	0
512	5.5	5.5	0	7.46	204.468	28094.7	0	0	0
512	7.75	7.75	0.0222913697573064	5.87	176.31	28107.18	0	0	0
512	6.625	6.625	0.00170775339312933	8.78	171.321	28099.57	0	0	0
512	6.063	6.063	0	8.36	196.618	28086.33	0	0	0
1024	10	10	0	10.78	151.312	28100.35	0	0	0
1024	55	55	0.963470226488007	11.15	220.718	28106.6	0	0	0
1024	32.5	32.5	0.146586154535202	17.68	160.965	24095.21	0	0	0
1024	21.25	21.25	0.0825603312396345	8.4	217.077	28094.96	0	0	0
1024	15.625	15.625	0.0533859807746326	14.04	222.834	28097.24	0	0	0
1024	12.812	12.813	0	5.23	149.222	24102.93	0	0	0
1024	14.219	14.219	0.00860041783247933	16.29	185.547	28099.88	0	0	0
1024	13.516	13.516	0.00733817319757215	6.14	229.977	28095.97	0	0	0
1280	10	10	0	11.22	127.494	28100.56	0	0	0
1280	55	55	0.43238785467898	45.8	194.245	30532.32	0	0	0
1280	32.5	32.5	0.153197316992286	12.36	168.723	28095.4	0	0	0
1280	21.25	21.25	0.0242870556233527	9.15	177.088	24105.12	0	0	0

1280	15.625	15.625	0.00255701307149519	13.13	174.593	28104.88	0	0	0
1280	12.812	12.813	0	15.53	199.876	28099.3	0	0	0
1280	14.219	14.219	0	9.31	184.912	28096.83	0	0	0
1280	14.922	14.922	0	10.38	163.239	28102.16	0	0	0
1518	10	10	0	13.02	193.502	28101.31	0	0	0
1518	55	55	0.461981612008823	32.55	232.961	28107.21	0	0	0
1518	32.5	32.5	0.048430432496287	17.59	169.477	24106.01	0	0	0
1518	21.25	21.25	0.0118166636670644	18.79	167.135	28106.83	0	0	0
1518	15.625	15.625	0	6.33	196.795	28101.67	0	0	0
1518	18.438	18.438	0.000795241453100774	7.98	163.073	28089.22	0	0	0
1518	17.031	17.031	0	14.92	156.052	28091.53	0	0	0
1518	17.734	17.734	0	11.09	205.519	28103	0	0	0



## Throughput by Trial

Traffic Duration : 60 Seconds

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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	1	1	1		284090	28409090	200	20000	0	False	False
						Port //2/1	142045	14204545	100	10000			
						Port //2/2	142045	14204545	100	10000			
1	128	Passed	1.563	1.563	1.563		263935	16891891	312.5	20000	0	False	False
						Port //2/1	131967	8445945	156.25	10000			
						Port //2/2	131967	8445945	156.25	10000			
1	256	Passed	3.25	3.25	3.25		294384	9057971	650	20000	0	False	False
						Port //2/1	147192	4528985	325	10000			
						Port //2/2	147192	4528985	325	10000			
1	512	Passed	6.063	6.063	6.063		284891	4699248	1212.5	20000	0	False	False
						Port //2/1	142445	2349624	606.25	10000			
						Port //2/2	142445	2349624	606.25	10000			
1	1024	Passed	12.812	12.813	12.813		306812	2394636	2562.5	20000	0	False	False
						Port //2/1	153406	1197318	1281.25	10000			
						Port //2/2	153406	1197318	1281.25	10000			

1	1280	Passed	14.922	14.922	14.922		286959	1923076	2984.375	20000	0	False	False
						Port //2/1	143479	961538	1492.188	10000			
						Port //2/2	143479	961538	1492.188	10000			
1	1518	Passed	17.734	17.734	17.734		288270	1625487	3546.875	20000	0	False	False
						Port //2/1	144135	812743	1773.438	10000			
						Port //2/2	144135	812743	1773.438	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 (%)
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## 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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