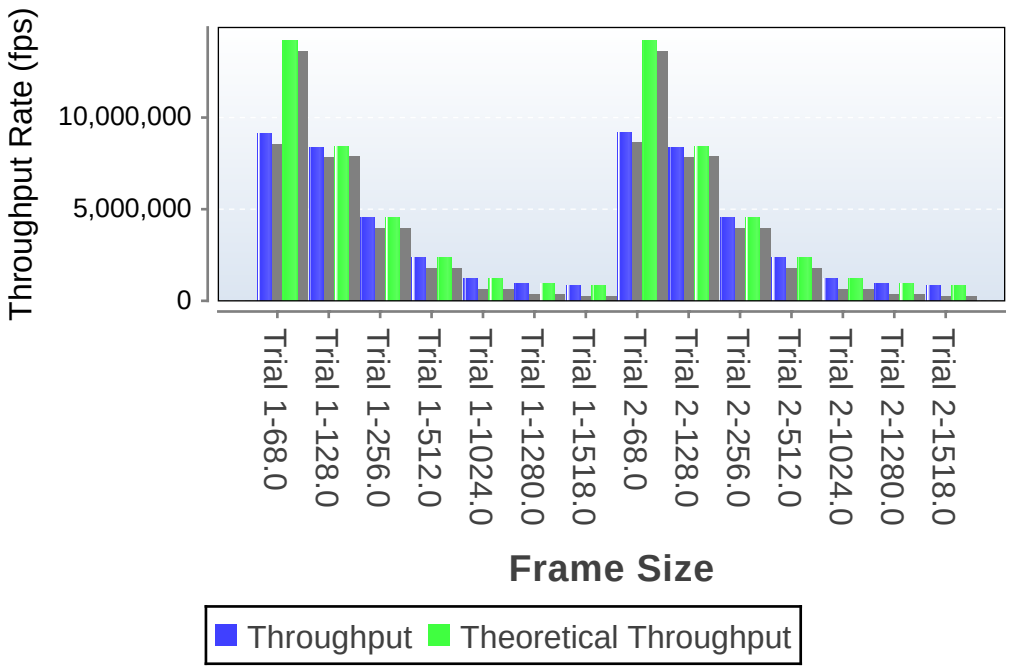
Spirent TestCenter Report

Test Type:	RFC2544 Throughput Test
Counter Mode:	Jitter
Test Date:	2019-03-26 10:04:32 CST

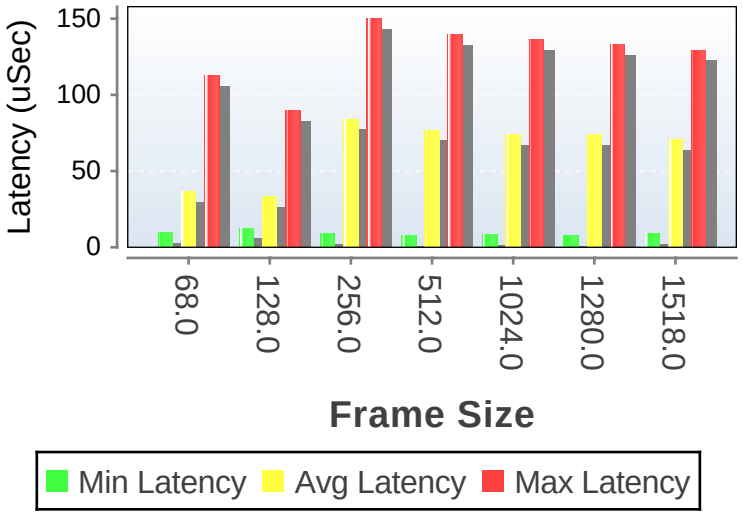
Throughput by Frame Size VS Theoretical Max



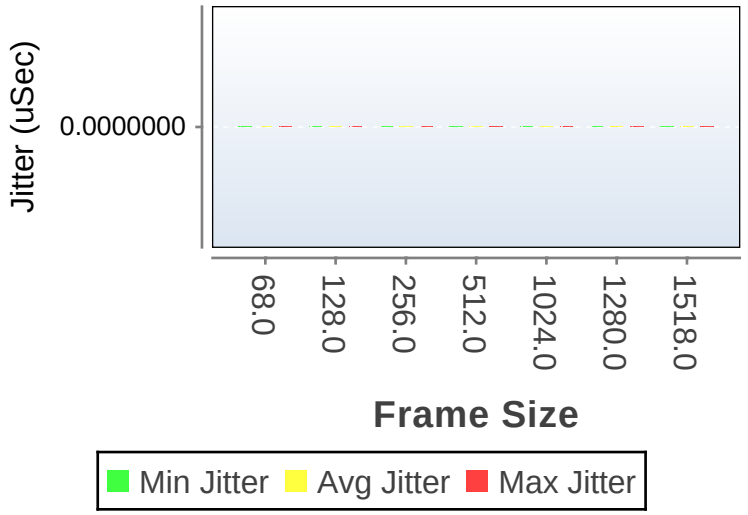
Total Trials	Number of Passed Trials	Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Throughput (%)	Aggregated Throughput (fps)	Aggregated Theoretical Max (fps)	Aggregated Throughput (Mbps)
2	2	68	64.844	64.844	64.844	9210760	14204545	6484.375
2	2	128	99.297	99.297	99.297	8386560	8445945	9929.688
2	2	256	100	100	100	4528985	4528985	10000
2	2	512	100	100	100	2349624	2349624	10000
2	2	1024	100	100	100	1197318	1197318	10000
2	2	1280	100	100	100	961538	961538	10000
2	2	1518	100	100	100	812743	812743	10000

Aggregated Theoretical Max (Mbps)
10000
10000
10000
10000
10000
10000
10000

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	3.27	4.264	25.74	0	0	0
68	55	55	0	7.75	13.301	68.9	0	0	0
68	77.5	77.5	12.9094778781284	10.65	156.923	198.98	0	0	0
68	66.25	66.25	0.00041726387263259	10.82	42.558	189.67	0	0	0
68	60.625	60.625	0	11.62	20.8	86.22	0	0	0

68	63.438	63.438	0	10.95	29.263	91.68	0	0	0
68	64.844	64.844	0	9.7	36.352	112.91	0	0	0
68	64.141	64.141	0	11.5	32.102	94.53	0	0	0
68	65.547	65.547	0.0002513254760612	12.29	40.025	179.29	0	0	0
128	10	10	0	3.21	4.136	18.25	0	0	0
128	55	55	0	4.95	6.517	29.09	0	0	0
128	77.5	77.5	0	7.3	9.861	63.59	0	0	0
128	88.75	88.75	0	9.55	13.713	78.16	0	0	0
128	94.375	94.375	0	9.16	18.237	74.78	0	0	0
128	97.188	97.188	0	10.05	22.874	89.1	0	0	0
128	98.594	98.594	0	10.38	27.541	79.11	0	0	0
128	99.297	99.297	0	12.64	33.069	90	0	0	0
128	100	100	0.0000994559999522611	12.88	138.077	152.86	0	0	0
256	10	10	0	3.05	3.285	14.79	0	0	0
256	55	55	0	4.07	5.044	20.55	0	0	0
256	77.5	77.5	0	4.77	5.871	26.35	0	0	0
256	88.75	88.75	0	5.47	6.636	27.69	0	0	0
256	94.375	94.375	0	6.01	7.126	29.21	0	0	0
256	97.188	97.188	0	6.25	7.567	34.72	0	0	0
256	98.594	98.594	0	6.47	8.07	29.29	0	0	0
256	99.297	99.297	0	6.55	8.79	30.55	0	0	0
256	100	100	0	8.77	84.158	150.38	0	0	0
512	10	10	0	3.12	3.389	14.1	0	0	0
512	55	55	0	3.67	4.626	19.09	0	0	0
512	77.5	77.5	0	4.13	5.046	27.3	0	0	0
512	88.75	88.75	0	4.37	5.274	21.66	0	0	0
512	94.375	94.375	0	4.47	5.656	22.88	0	0	0
512	97.188	97.188	0	4.94	5.909	23.39	0	0	0

512	98.594	98.594	0	5.1	6.214	23.03	0	0	0
512	99.297	99.297	0	5.25	6.687	22.48	0	0	0
512	100	100	0	7.42	76.968	139.38	0	0	0
1024	10	10	0	3.3	3.537	17.03	0	0	0
1024	55	55	0	3.2	4.37	17.69	0	0	0
1024	77.5	77.5	0	3.81	4.601	26.05	0	0	0
1024	88.75	88.75	0	3.97	4.729	18.87	0	0	0
1024	94.375	94.375	0	4.04	4.926	24.67	0	0	0
1024	97.188	97.188	0	4.1	5.19	21.08	0	0	0
1024	98.594	98.594	0	4.22	5.568	19.16	0	0	0
1024	99.297	99.297	0	4.4	5.952	19.69	0	0	0
1024	100	100	0	8.37	73.746	136.62	0	0	0
1280	10	10	0	3.37	3.61	13.42	0	0	0
1280	55	55	0	3.21	3.55	16.21	0	0	0
1280	77.5	77.5	0	3.78	4.64	17.5	0	0	0
1280	88.75	88.75	0	4.08	4.862	18.74	0	0	0
1280	94.375	94.375	0	4.23	4.914	17.82	0	0	0
1280	97.188	97.188	0	4.35	5.171	22.24	0	0	0
1280	98.594	98.594	0	4.63	5.408	20.03	0	0	0
1280	99.297	99.297	0	4.67	5.765	20.1	0	0	0
1280	100	100	0	7.44	73.72	132.83	0	0	0
1518	10	10	0	3.43	3.672	12.86	0	0	0
1518	55	55	0	3.33	3.589	15.12	0	0	0
1518	77.5	77.5	0	3.26	4.426	17.95	0	0	0
1518	88.75	88.75	0	4.01	4.857	18.89	0	0	0
1518	94.375	94.375	0	4.37	5.022	18.63	0	0	0
1518	97.188	97.188	0	4.51	5.195	17.86	0	0	0
1518	98.594	98.594	0	4.6	5.416	23	0	0	0

1518	99.297	99.297	0	4.75	5.77	17.97	0	0	0
1518	100	100	0	8.98	70.437	129.46	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	64.141	64.141	64.141		9110884	14204545	6414.063	10000	0	False	False
						Port //2/1	9110884	14204545	6414.063	10000			
1	128	Passed	99.297	99.297	99.297		8386560	8445945	9929.688	10000	0	False	False
						Port //2/1	8386560	8445945	9929.688	10000			
1	256	Passed	100	100	100		4528985	4528985	10000	10000	0	False	False
						Port //2/1	4528985	4528985	10000	10000			
1	512	Passed	100	100	100		2349624	2349624	10000	10000	0	False	False
						Port //2/1	2349624	2349624	10000	10000			
1	1024	Passed	100	100	100		1197318	1197318	10000	10000	0	False	False
						Port //2/1	1197318	1197318	10000	10000			
1	1280	Passed	100	100	100		961538	961538	10000	10000	0	False	False
						Port //2/1	961538	961538	10000	10000			
1	1518	Passed	100	100	100		812743	812743	10000	10000	0	False	False
						Port //2/1	812743	812743	10000	10000			
2	68	Passed	64.844	64.844	64.844		9210760	14204545	6484.375	10000	0	False	False

						Port //2/1	9210760	14204545	6484.375	10000			
2	128	Passed	99.297	99.297	99.297		8386560	8445945	9929.688	10000	0	False	False
						Port //2/1	8386560	8445945	9929.688	10000			
2	256	Passed	100	100	100		4528985	4528985	10000	10000	0	False	False
						Port //2/1	4528985	4528985	10000	10000			
2	512	Passed	100	100	100		2349624	2349624	10000	10000	0	False	False
						Port //2/1	2349624	2349624	10000	10000			
2	1024	Passed	100	100	100		1197318	1197318	10000	10000	0	False	False
						Port //2/1	1197318	1197318	10000	10000			
2	1280	Passed	100	100	100		961538	961538	10000	10000	0	False	False
						Port //2/1	961538	961538	10000	10000			
2	1518	Passed	100	100	100		812743	812743	10000	10000	0	False	False
						Port //2/1	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

Blank