Spirent TestCenter Report

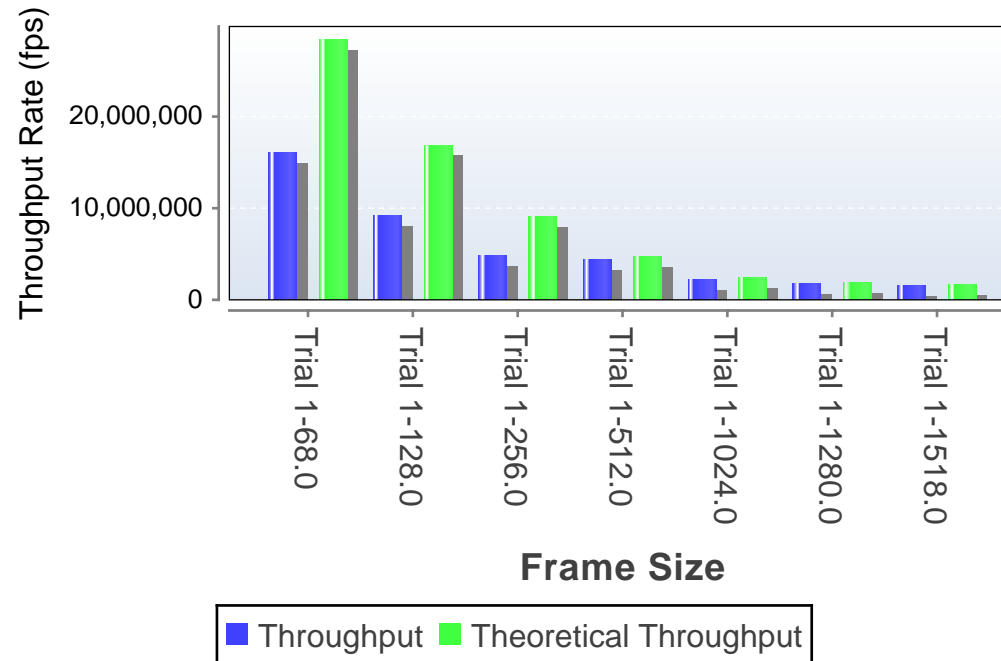|	
Test Type:	RFC2544 Throughput Test
Counter Mode:	Jitter
Test Date:	2019-02-26 11:56:41 CST

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	56.406	56.406	56.406	16024503	28409090	11281.25
1	1	128	54.297	54.297	54.297	9171769	16891891	10859.375
1	1	256	52.891	52.891	52.891	4790817	9057971	10578.126
1	1	512	93.672	93.672	93.672	4401874	4699248	18734.376
1	1	1024	93.672	93.672	93.672	2243100	2394636	18734.376
1	1	1280	93.672	93.672	93.672	1801382	1923076	18734.376
1	1	1518	97.891	97.891	97.891	1591200	1625487	19578.126

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

Latency by Frame size at Throughput
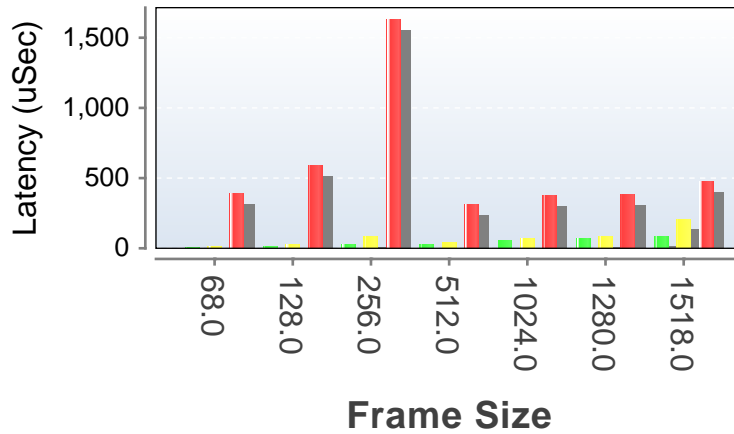
Frame Size

- Min Latency
- Avg Latency
- Max Latency

Jitter by Frame size at Throughput
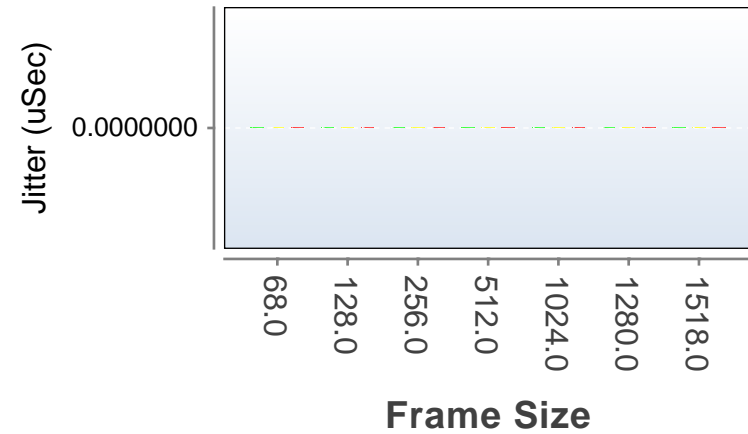
Frame Size

- 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	0	3.14	26.825	321.49	0	0	0
68	55	55	0	6.64	13.146	396.04	0	0	0
68	77.5	77.5	24.5518187768282	13.99	917.466	1200.21	0	0	0
68	66.25	66.25	2.82790804520132	13.24	382.545	945.23	0	0	0
68	60.625	60.625	0.00312527610831236	8.71	18.877	670.76	0	0	0

68	57.813	57.813	0.00011365476957426	7.55	14.639	539.29	0	0	0
68	56.406	56.406	0	7.05	13.625	389.84	0	0	0
68	57.109	57.109	0.000178950178811498	7.36	14.079	628.66	0	0	0
128	10	10	0	4.62	40.187	332.6	0	0	0
128	55	55	0.000553609675550035	14.94	28.565	1161.53	0	0	0
128	32.5	32.5	0	9.04	22.083	416.58	0	0	0
128	43.75	43.75	0	11.9	19.781	322.68	0	0	0
128	49.375	49.375	0	13.22	20.215	562.36	0	0	0
128	52.188	52.188	0	13.93	21.257	395.85	0	0	0
128	53.594	53.594	0	14.25	22.868	651.94	0	0	0
128	54.297	54.297	0	14.76	24.328	592.51	0	0	0
256	10	10	0	10.32	63.222	355.21	0	0	0
256	55	55	3.93596558057337	31.89	1692.796	2213.65	0	0	0
256	32.5	32.5	0	19.21	40.208	304.59	0	0	0
256	43.75	43.75	0	22.42	34.775	344.82	0	0	0
256	49.375	49.375	0	26.39	36.366	601.53	0	0	0
256	52.188	52.188	0	28.22	50.073	1293.31	0	0	0
256	53.594	53.594	0.829872562670155	32.99	1651.857	2217.21	0	0	0
256	52.891	52.891	0	29.06	81.833	1632.52	0	0	0
512	10	10	0	6.61	59.283	367.83	0	0	0
512	55	55	0	18.46	45.366	363.15	0	0	0
512	77.5	77.5	0	24.42	37.601	346.57	0	0	0
512	88.75	88.75	0	23.96	37.629	356.82	0	0	0
512	94.375	94.375	0.0000435934642784293	22.9	38.253	318.06	0	0	0
512	91.563	91.563	0	28.47	37.616	371.1	0	0	0
512	92.969	92.969	0	24.34	37.939	317.22	0	0	0
512	93.672	93.672	0	29.01	38.007	312	0	0	0
1024	10	10	0	10.08	59.464	348.13	0	0	0

1024	55	55	0	39.76	88.079	421.09	0	0	0
1024	77.5	77.5	0	45.02	71.418	375.51	0	0	0
1024	88.75	88.75	0	50.49	69.432	367.95	0	0	0
1024	94.375	94.375	0.0000007374834130762	53.98	70.209	424.04	0	0	0
1024	91.563	91.563	0	44.39	69.487	624.47	0	0	0
1024	92.969	92.969	0	53.25	69.69	387.21	0	0	0
1024	93.672	93.672	0	53.61	69.949	373.63	0	0	0
1280	10	10	0	12.38	59.888	397.28	0	0	0
1280	55	55	0	18.56	89.415	400.88	0	0	0
1280	77.5	77.5	0	59.71	86.754	383.06	0	0	0
1280	88.75	88.75	0	6.24	83.48	357.34	0	0	0
1280	94.375	94.375	0.0000137748340284023	67.94	85.505	357.54	0	0	0
1280	91.563	91.563	0	21.37	83.767	594.31	0	0	0
1280	92.969	92.969	0	15.3	84.406	387.88	0	0	0
1280	93.672	93.672	0	67.36	84.828	380.99	0	0	0
1518	10	10	0	13.05	60.062	464.35	0	0	0
1518	55	55	0	40.35	91.399	418.83	0	0	0
1518	77.5	77.5	0	9.11	103.49	438.26	0	0	0
1518	88.75	88.75	0	10.51	99.381	377.6	0	0	0
1518	94.375	94.375	0	14.97	104.293	376.45	0	0	0
1518	97.188	97.188	0	74.55	177.151	400.86	0	0	0
1518	98.594	98.594	0.246829798173955	23.52	4954.37	5281.09	0	0	0
1518	97.891	97.891	0	87.38	208.299	475.97	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	56.406	56.406	56.406		16024503	28409090	11281.25	20000	0	False	False
						Port //2/1	8012251	14204545	5640.625	10000			
						Port //2/2	8012251	14204545	5640.625	10000			
1	128	Passed	54.297	54.297	54.297		9171769	16891891	10859.375	20000	0	False	False
						Port //2/1	4585884	8445945	5429.688	10000			
						Port //2/2	4585884	8445945	5429.688	10000			
1	256	Passed	52.891	52.891	52.891		4790817	9057971	10578.126	20000	0	False	False
						Port //2/1	2395408	4528985	5289.063	10000			
						Port //2/2	2395408	4528985	5289.063	10000			
1	512	Passed	93.672	93.672	93.672		4401874	4699248	18734.376	20000	0	False	False
						Port //2/1	2200937	2349624	9367.188	10000			
						Port //2/2	2200937	2349624	9367.188	10000			
1	1024	Passed	93.672	93.672	93.672		2243100	2394636	18734.376	20000	0	False	False
						Port //2/1	1121550	1197318	9367.188	10000			
						Port //2/2	1121550	1197318	9367.188	10000			

1		1280	Passed	93.672	93.672	93.672		1801382	1923076	18734.376	20000	0	False	False
							Port //2/1	900691	961538	9367.188	10000			
							Port //2/2	900691	961538	9367.188	10000			
1		1518	Passed	97.891	97.891	97.891		1591200	1625487	19578.126	20000	0	False	False
							Port //2/1	795600	812743	9789.063	10000			
							Port //2/2	795600	812743	9789.063	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

SPIRENT

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

TESTED SPIRENT