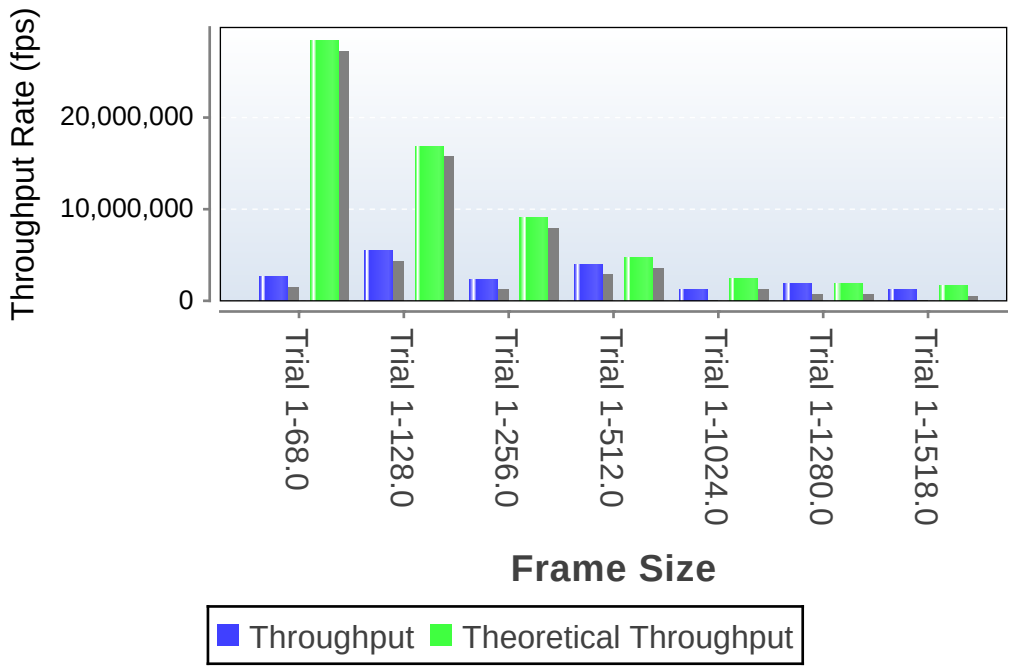
Spirent TestCenter Report

Test Type:	RFC2544 Throughput Test
Counter Mode:	Jitter
Test Date:	2019-02-25 17:24:34 CST

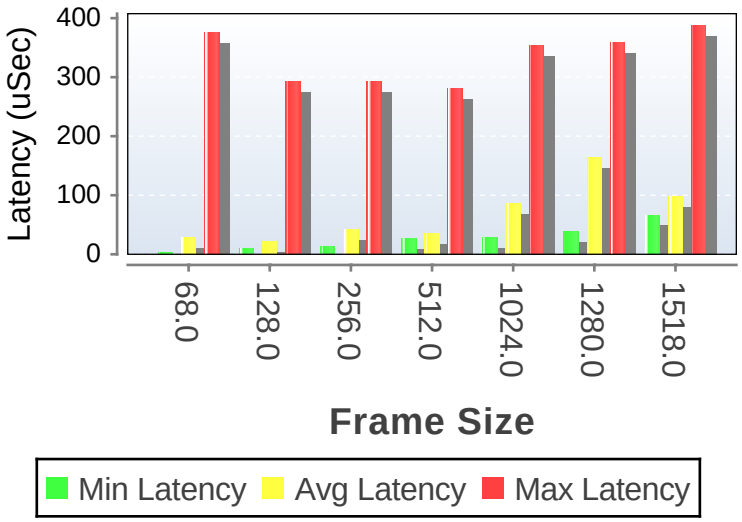
Throughput by Frame Size VS Theoretical Max



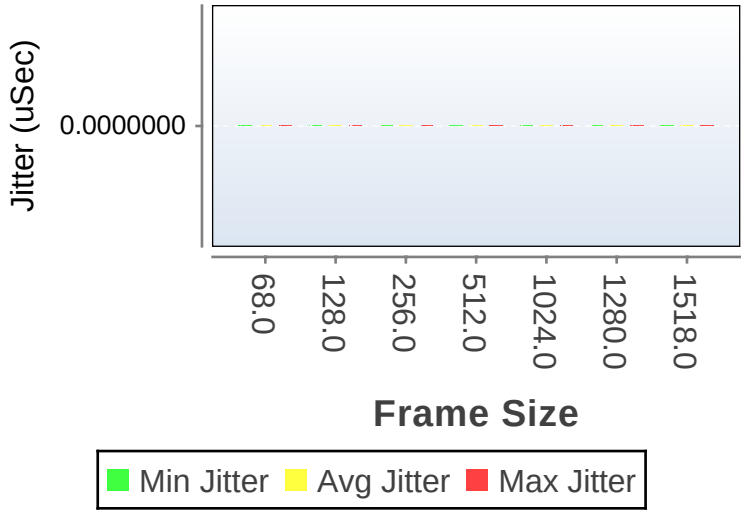
Total Trials	Number of Passed Trials	Frame Size (bytes)	Intended Load (%)	Offered Load (%)	Throughput (%)	Aggregated Throughput (fps)	Aggregated Theoretical Max (fps)	Aggregated Throughput (Mbps)
1	1	68	9.438	9.438	9.438	2681108	28409090	1887.5
1	1	128	32.5	32.5	32.5	5489865	16891891	6500
1	1	256	26.172	26.172	26.172	2370640	9057971	5234.375
1	1	512	85.234	85.234	85.234	4005374	4699248	17046.875
1	1	1024	52.891	52.891	52.891	1266538	2394636	10578.126
1	1	1280	97.891	97.891	97.891	1882512	1923076	19578.125
1	1	1518	73.984	73.984	73.984	1202606	1625487	14796.876

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	79.9278449350039	3.09	103.643	613855.55	0	0	0
68	5.5	5.5	0	3.12	39.952	309.67	0	0	0
68	7.75	7.75	0	2.48	31.103	294.97	0	0	0
68	8.875	8.875	0	2.66	30.864	303.51	0	0	0
68	9.438	9.438	0	2.6	28.643	375.27	0	0	0

128	10	10	0	4.05	39.584	311.38	0	0	0
128	55	55	0.0495193629325357	6.11	46.23	3030.68	0	0	0
128	32.5	32.5	0	9.01	21.251	292.56	0	0	0
128	43.75	43.75	0.0089381845817094	11.7	18.943	10674.35	0	0	0
128	38.125	38.125	0.00854084535456066	10.75	20.342	8682.47	0	0	0
128	35.312	35.313	0.0261619991063238	9.74	20.474	15490.16	0	0	0
128	33.906	33.906	0.0116492500213302	9.26	20.768	15404.27	0	0	0
128	33.203	33.203	0.00546775808665077	9.17	21.047	8018.22	0	0	0
256	10	10	0	9.06	62.279	354.55	0	0	0
256	55	55	4.00759209393651	31.82	1692.104	2137.24	0	0	0
256	32.5	32.5	0.0111838023666656	18.72	39.206	13233.89	0	0	0
256	21.25	21.25	0	13.95	41.803	331.71	0	0	0
256	26.875	26.875	0.0101136666034323	7.32	41.936	15494.04	0	0	0
256	24.063	24.063	0	19.31	40.908	298.71	0	0	0
256	25.469	25.469	0	18.74	40.978	386.16	0	0	0
256	26.172	26.172	0	13.74	41.154	293.04	0	0	0
512	10	10	0	8.01	58.472	301.7	0	0	0
512	55	55	0	17.8	42.856	347.19	0	0	0
512	77.5	77.5	0	7.01	35.257	307.34	0	0	0
512	88.75	88.75	0.0107071360630146	14.34	35.435	14805.14	0	0	0
512	83.125	83.125	0	26.36	35.192	310.74	0	0	0
512	85.938	85.938	0.0100282705692524	27.05	35.658	14067.14	0	0	0
512	84.531	84.531	0	26.94	35.377	314.1	0	0	0
512	85.234	85.234	0	27.01	35.448	280.01	0	0	0
1024	10	10	0	8.68	58.743	353.07	0	0	0
1024	55	55	0.00648039244072156	28.43	83.303	14065.68	0	0	0
1024	32.5	32.5	0	19.39	73.378	375.16	0	0	0
1024	43.75	43.75	0	37.02	80.366	307.29	0	0	0

1024	49.375	49.375	0	30.18	83.756	338.91	0	0	0
1024	52.188	52.188	0	33.79	84.162	348.11	0	0	0
1024	53.594	53.594	0.0030037979538227	36.48	84.767	9923	0	0	0
1024	52.891	52.891	0	27.9	85.59	352.85	0	0	0
1280	10	10	0	12.34	59.939	12704.92	0	0	0
1280	55	55	0	44.49	86.28	598.12	0	0	0
1280	77.5	77.5	0	61.57	84.383	518.95	0	0	0
1280	88.75	88.75	0	37.76	80.604	350.26	0	0	0
1280	94.375	94.375	0	25.45	81.951	334.6	0	0	0
1280	97.188	97.188	0	23.78	152.539	377.42	0	0	0
1280	98.594	98.594	0.354657016299218	43.04	4223.208	4425.81	0	0	0
1280	97.891	97.891	0	38.22	164.439	358.12	0	0	0
1518	10	10	0	12.98	59.282	379.64	0	0	0
1518	55	55	0	50.24	87.091	352.48	0	0	0
1518	77.5	77.5	0.00380100976940214	76.95	99.041	10163.43	0	0	0
1518	66.25	66.25	0	43.05	92.75	337.54	0	0	0
1518	71.875	71.875	0	11.06	95.853	383.15	0	0	0
1518	74.688	74.688	0.00443012636389753	75.34	98.794	12071	0	0	0
1518	73.281	73.281	0	39.02	96.897	361.43	0	0	0
1518	73.984	73.984	0	66.51	97.654	388.17	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	9.438	9.438	9.438		2681108	28409090	1887.5	20000	0	False	False
						Port //2/1	1340554	14204545	943.75	10000			
						Port //2/2	1340554	14204545	943.75	10000			
1	128	Passed	32.5	32.5	32.5		5489865	16891891	6500	20000	0	False	False
						Port //2/1	2744932	8445945	3250	10000			
						Port //2/2	2744932	8445945	3250	10000			
1	256	Passed	26.172	26.172	26.172		2370640	9057971	5234.375	20000	0	False	False
						Port //2/1	1185320	4528985	2617.188	10000			
						Port //2/2	1185320	4528985	2617.188	10000			
1	512	Passed	85.234	85.234	85.234		4005374	4699248	17046.875	20000	0	False	False
						Port //2/1	2002687	2349624	8523.438	10000			
						Port //2/2	2002687	2349624	8523.438	10000			
1	1024	Passed	52.891	52.891	52.891		1266538	2394636	10578.126	20000	0	False	False
						Port //2/1	633269	1197318	5289.063	10000			
						Port //2/2	633269	1197318	5289.063	10000			

1	1280	Passed	97.891	97.891	97.891		1882512	1923076	19578.125	20000	0	False	False
						Port //2/1	941256	961538	9789.063	10000			
						Port //2/2	941256	961538	9789.063	10000			
1	1518	Passed	73.984	73.984	73.984		1202606	1625487	14796.876	20000	0	False	False
						Port //2/1	601303	812743	7398.438	10000			
						Port //2/2	601303	812743	7398.438	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 (%)

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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