Spirent TestCenter Report

Test Type: RFC2544 Throughput Test
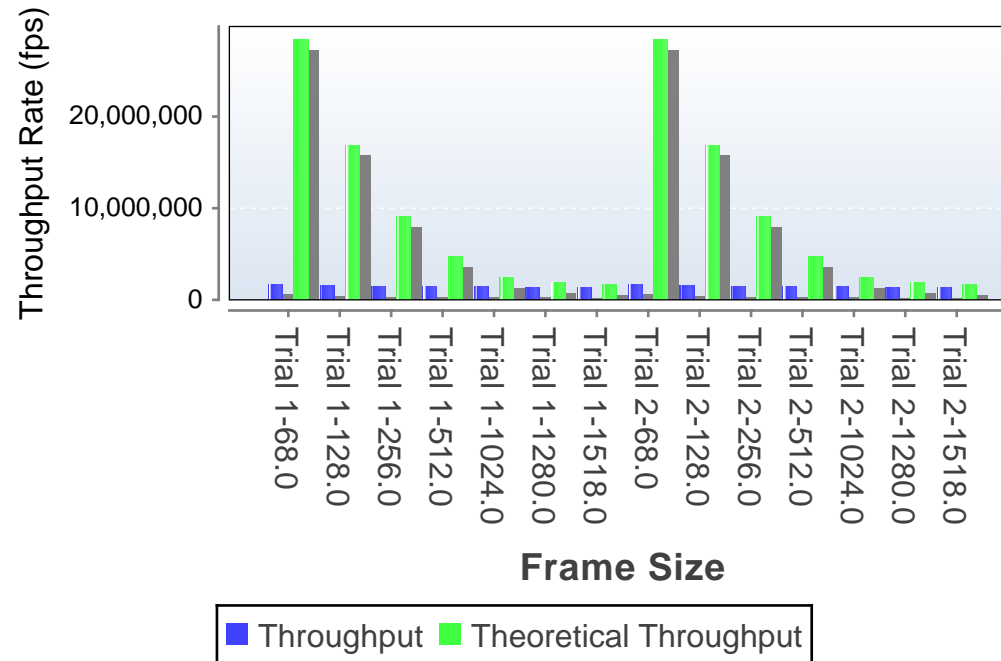
Counter Mode: Jitter

Test Date: 2019-03-26 17:40:33 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	6.063	6.063	6.063	1722301	28409090	1212.5
2	2	128	9.438	9.438	9.438	1594172	16891891	1887.5
2	2	256	16.328	16.328	16.328	1478996	9057971	3265.625
2	2	512	30.391	30.391	30.391	1428130	4699248	6078.125
2	2	1024	58.516	58.516	58.516	1401236	2394636	11703.126
2	2	1280	71.875	71.875	71.875	1382211	1923076	14375.001
2	2	1518	83.828	83.828	83.828	1362615	1625487	16765.626

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

Latency by Frame size at Throughput
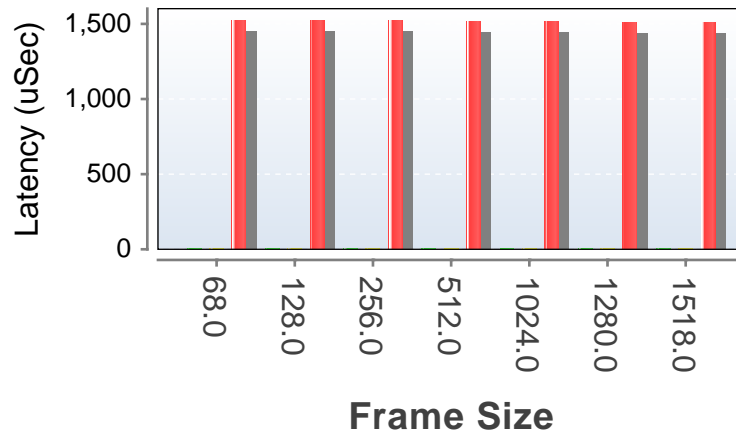
Frame Size

- ■ Min Latency ■ Avg Latency ■ Max Latency

Jitter by Frame size at Throughput
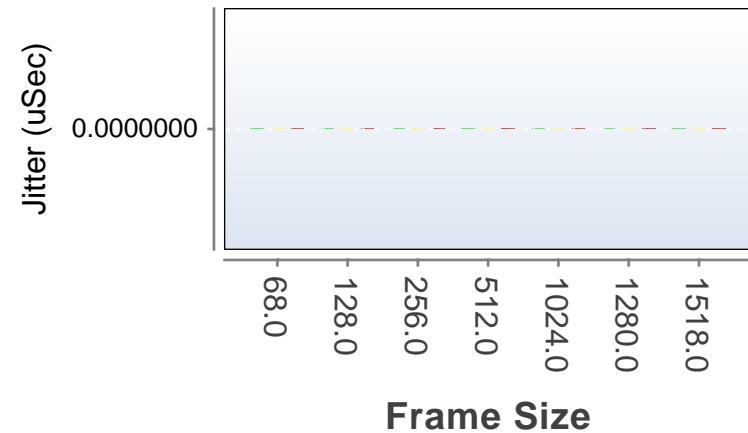
Frame Size

- ■ 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	0.000458773288801739	2.76	3.696	1529.07	0	0	0
68	5.5	5.5	0	2.62	3.547	1524.32	0	0	0
68	7.75	7.75	0.000221797833893589	2.75	3.599	1524.63	0	0	0
68	6.625	6.625	0.0000487044009473803	2.78	3.588	1523.09	0	0	0
68	6.063	6.063	0	2.73	3.575	1525	0	0	0

128	10	10	0.0000424266622090387	2.69	3.607	1520.43	0	0	0
128	5.5	5.5	0	2.71	3.015	1518.39	0	0	0
128	7.75	7.75	0	2.67	3.02	1521.73	0	0	0
128	8.875	8.875	0	2.63	3.258	1550.32	0	0	0
128	9.438	9.438	0	2.65	3.596	1520.1	0	0	0
256	10	10	0	2.76	3.08	1516.27	0	0	0
256	55	55	0.000880523599477702	3.38	4.276	1529.06	0	0	0
256	32.5	32.5	0.000614843037875815	2.95	3.887	1526.88	0	0	0
256	21.25	21.25	0.000268423511828446	2.91	3.721	1522.38	0	0	0
256	15.625	15.625	0	2.68	3.071	1521.67	0	0	0
256	18.438	18.438	0.000117759991007129	2.76	3.675	1523.37	0	0	0
256	17.031	17.031	0.0000237680732158642	2.68	3.594	1519.5	0	0	0
256	16.328	16.328	0	2.68	3.143	1524.63	0	0	0
512	10	10	0	2.89	3.197	1514.81	0	0	0
512	55	55	0.000555859372324886	3.19	3.954	1525.69	0	0	0
512	32.5	32.5	0.0000687507649886707	2.76	3.646	1520.58	0	0	0
512	21.25	21.25	0	2.81	3.136	1513.39	0	0	0
512	26.875	26.875	0	2.78	3.157	1519.34	0	0	0
512	29.688	29.688	0	2.74	3.146	1515.87	0	0	0
512	31.094	31.094	0.0000148282736488095	2.73	3.187	1517	0	0	0
512	30.391	30.391	0	2.73	3.164	1517.26	0	0	0
1024	10	10	0	3.07	3.44	1503.79	0	0	0
1024	55	55	0	2.9	3.334	1507.69	0	0	0
1024	77.5	77.5	0.000312526436772938	3.34	4.228	1516.13	0	0	0
1024	66.25	66.25	0.000147079235408175	3.01	4.001	1519.87	0	0	0
1024	60.625	60.625	0.0000344412359499274	2.89	3.359	1514.05	0	0	0
1024	57.813	57.813	0	2.89	3.33	1518.2	0	0	0
1024	59.219	59.219	0.0000082271237126931	2.88	3.333	1512.71	0	0	0

1024	58.516	58.516	0	2.9	3.336	1513.88	0	0	0
1280	10	10	0	3.17	3.513	1495.42	0	0	0
1280	55	55	0	3.05	3.445	1509.15	0	0	0
1280	77.5	77.5	0.0000928172011073651	3.02	3.699	1512.25	0	0	0
1280	66.25	66.25	0	3	3.425	1509.9	0	0	0
1280	71.875	71.875	0	2.98	3.455	1510.18	0	0	0
1280	74.688	74.688	0.0000475760103931999	3	3.471	1509.21	0	0	0
1280	73.281	73.281	0.0000295664508110763	2.98	3.473	1513.14	0	0	0
1280	72.578	72.578	0.0000155235016740067	2.97	3.472	1512.34	0	0	0
1280	69.063	69.063	0	3	3.442	1511.76	0	0	0
1280	70.469	70.469	0	3	3.452	1512.27	0	0	0
1280	71.172	71.172	0	2.99	3.455	1510.48	0	0	0
1518	10	10	0	3.28	3.631	1486	0	0	0
1518	55	55	0	3.19	3.563	1507.09	0	0	0
1518	77.5	77.5	0	3.07	3.553	1517.07	0	0	0
1518	88.75	88.75	0.0000797160500433794	3.09	3.692	1512.57	0	0	0
1518	83.125	83.125	0	3.09	3.613	1509.24	0	0	0
1518	85.938	85.938	0.0000322141078463902	3.08	3.642	1509.39	0	0	0
1518	84.531	84.531	0.0000121296355282265	3.09	3.628	1511.12	0	0	0
1518	83.828	83.828	0	3.09	3.622	1510.3	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	6.063	6.063	6.063		1722301	28409090	1212.5	20000	0	False	False
						Port //2/1	861150	14204545	606.25	10000			
						Port //2/2	861150	14204545	606.25	10000			
1	128	Passed	9.438	9.438	9.438		1594172	16891891	1887.5	20000	0	False	False
						Port //2/1	797086	8445945	943.75	10000			
						Port //2/2	797086	8445945	943.75	10000			
1	256	Passed	16.328	16.328	16.328		1478996	9057971	3265.625	20000	0	False	False
						Port //2/1	739498	4528985	1632.813	10000			
						Port //2/2	739498	4528985	1632.813	10000			
1	512	Passed	30.391	30.391	30.391		1428130	4699248	6078.125	20000	0	False	False
						Port //2/1	714065	2349624	3039.063	10000			
						Port //2/2	714065	2349624	3039.063	10000			
1	1024	Passed	58.516	58.516	58.516		1401236	2394636	11703.126	20000	0	False	False
						Port //2/1	700618	1197318	5851.563	10000			
						Port //2/2	700618	1197318	5851.563	10000			

1	1280	Passed	71.875	71.875	71.875		1382211	1923076	14375.001	20000	0	False	False
						Port //2/1	691105	961538	7187.5	10000			
						Port //2/2	691105	961538	7187.5	10000			
1	1518	Passed	83.828	83.828	83.828		1362615	1625487	16765.626	20000	0	False	False
						Port //2/1	681307	812743	8382.813	10000			
						Port //2/2	681307	812743	8382.813	10000			
2	68	Passed	6.063	6.063	6.063		1722301	28409090	1212.5	20000	0	False	False
						Port //2/1	861150	14204545	606.25	10000			
						Port //2/2	861150	14204545	606.25	10000			
2	128	Passed	9.438	9.438	9.438		1594172	16891891	1887.5	20000	0	False	False
						Port //2/1	797086	8445945	943.75	10000			
						Port //2/2	797086	8445945	943.75	10000			
2	256	Passed	16.328	16.328	16.328		1478996	9057971	3265.625	20000	0	False	False
						Port //2/1	739498	4528985	1632.813	10000			
						Port //2/2	739498	4528985	1632.813	10000			
2	512	Passed	30.391	30.391	30.391		1428130	4699248	6078.125	20000	0	False	False
						Port //2/1	714065	2349624	3039.063	10000			
						Port //2/2	714065	2349624	3039.063	10000			
2	1024	Passed	58.516	58.516	58.516		1401236	2394636	11703.126	20000	0	False	False
						Port //2/1	700618	1197318	5851.563	10000			
						Port //2/2	700618	1197318	5851.563	10000			
2	1280	Passed	71.172	71.172	71.172		1368690	1923076	14234.376	20000	0	False	False
						Port //2/1	684345	961538	7117.188	10000			
						Port //2/2	684345	961538	7117.188	10000			
2	1518	Passed	83.125	83.125	83.125		1351186	1625487	16625.001	20000	0	False	False
						Port //2/1	675593	812743	8312.501	10000			
						Port //2/2	675593	812743	8312.501	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