



## Spirent TestCenter Report

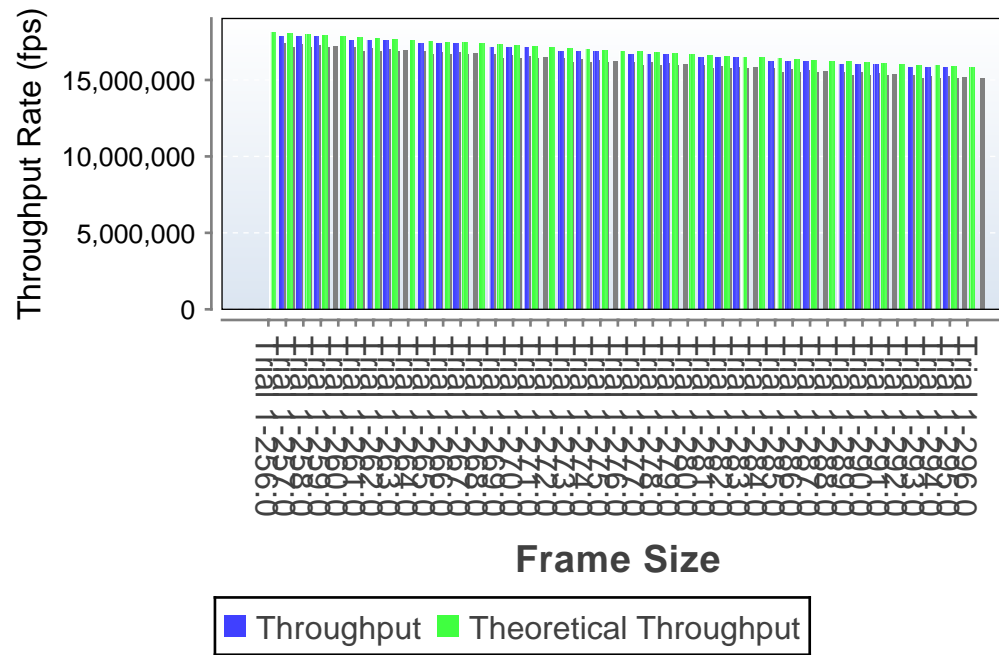
Test Type: RFC2544 Throughput Test

Counter Mode: Interarrivaltime

Test Date: 2016-06-30 16:50:04 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	256	100	99.999	0	0	18115942.029	0
1	1	257	100	98.928	98.928	17857050.583	18050541.516	39571.224
1	1	258	100	99.285	99.285	17857050.267	17985611.511	39714.08
1	1	259	100	99.642	99.642	17857050.483	17921146.953	39856.937
1	1	260	100	99.999	0	0	17857142.857	0
1	1	261	100	98.943	98.943	17605541.267	17793594.306	39577.257
1	1	262	100	99.295	99.295	17605541.5	17730496.454	39718.102
1	1	263	100	99.647	99.647	17605541.4	17667844.523	39858.946



1	1	264	100	99.999	0	0	17605633.803	0
1	1	265	100	98.958	98.958	17361020.483	17543859.649	39583.127
1	1	266	100	99.305	99.305	17361020.25	17482517.483	39722.014
1	1	267	100	99.652	99.652	17361020.117	17421602.787	39860.902
1	1	268	100	99.999	0	0	17361111.111	0
1	1	269	100	98.972	98.972	17123197.5	17301038.062	39588.833
1	1	270	100	99.315	99.315	17123197.333	17241379.31	39725.818
1	1	271	100	99.657	99.657	17123197.267	17182130.584	39862.803
1	1	272	100	99.999	0	0	17123287.671	0
1	1	273	100	98.986	98.986	16891803.1	17064846.416	39594.386
1	1	274	100	99.324	99.324	16891803.033	17006802.721	39729.521
1	1	275	100	99.662	99.662	16891803.217	16949152.542	39864.656
1	1	276	100	99.999	0	0	16891891.892	0
1	1	277	100	98.999	98.999	16666579.583	16835016.835	39599.793
1	1	278	100	99.333	99.333	16666579.767	16778523.49	39733.126
1	1	279	100	99.666	99.666	16666579.95	16722408.027	39866.459
1	1	280	100	99.999	0	0	16666666.667	0
1	1	281	100	99.013	99.013	16447282.8	16611295.681	39605.057
1	1	282	100	99.342	99.342	16447282.6	16556291.391	39736.635
1	1	283	100	99.671	99.671	16447282.767	16501650.165	39868.213
1	1	284	100	99.999	0	0	16447368.421	0
1	1	285	100	99.025	99.025	16233681.65	16393442.623	39610.183
1	0	286	100	99.35	99.35	16233681.95	16339869.281	39740.053
1	0	287	100	99.675	99.675	16233681.667	16286644.951	39869.922
1	0	288	100	99.999	0	0	16233766.234	0
1	0	289	100	99.038	99.038	16025557.767	16181229.773	39615.179
1	0	290	100	99.358	99.358	16025557.95	16129032.258	39743.384
1	0	291	100	99.679	99.679	16025558.417	16077170.418	39871.589
1	0	292	100	99.999	0	0	16025641.026	0
1	0	293	100	99.05	99.05	15822702.45	15974440.895	39620.047
1	0	294	100	99.367	99.367	15822702.6	15923566.879	39746.629
1	0	295	100	99.683	99.683	15822702.7	15873015.873	39873.211



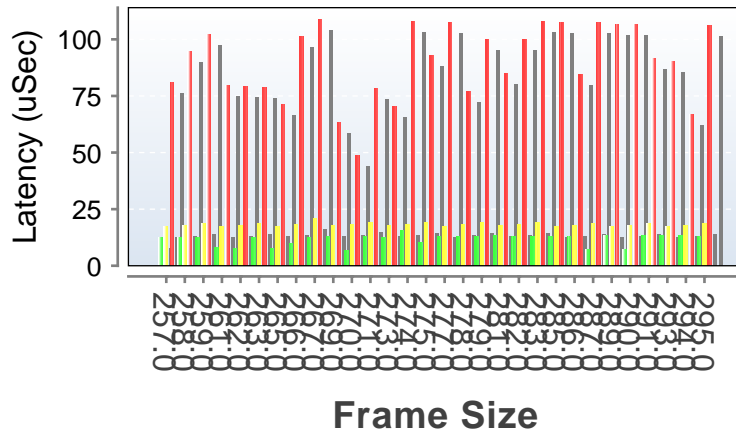
1	0	296	100	99.999	0	0	15822784.81	0
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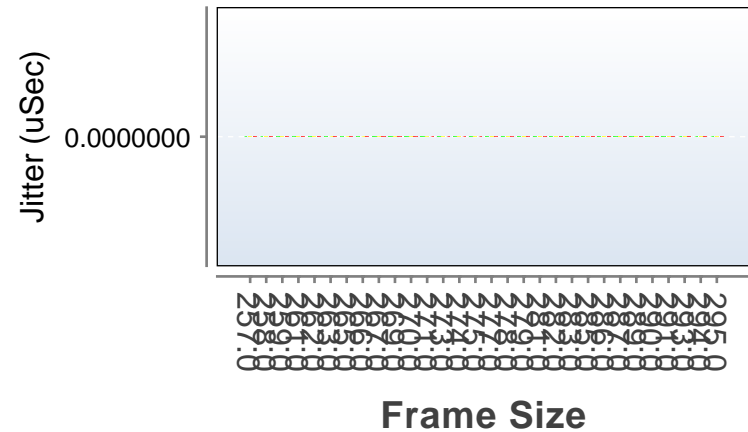
Note: Jitter measurements are only available when the test is run in the 'Jitter' mode or 'Latency\_Jitter' mode.

### Latency by Frame size at Throughput



■ Min Latency ■ Avg Latency ■ Max Latency

### Jitter by Frame size at Throughput



■ 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)
256	100	99.999	0.00492184136520166	12.28	226.448	234.52	0	0	0
257	100	98.928	0	12.44	17.26	80.92	0	0	0
258	100	99.285	0	12.42	17.728	94.45	0	0	0
259	100	99.642	0	12.58	18.687	102.27	0	0	0
260	100	99.999	0.00492186554316967	12.57	232.823	242.26	0	0	0



261	100	98.943	0	8.04	17.426	79.4	0	0	0
262	100	99.295	0	7.66	17.895	79.34	0	0	0
263	100	99.647	0	12.52	18.845	78.91	0	0	0
264	100	99.999	0.00492780449283008	12.57	229.36	237.63	0	0	0
265	100	98.958	0	7.41	17.555	71.32	0	0	0
266	100	99.305	0	9.61	18.013	101.29	0	0	0
267	100	99.652	0	12.62	20.89	108.57	0	0	0
268	100	99.999	0.00492252192318185	12.64	232.701	241.2	0	0	0
269	100	98.972	0	12.71	17.747	63.44	0	0	0
270	100	99.315	0	6.62	18.245	48.65	0	0	0
271	100	99.657	0	12.73	19.301	78.43	0	0	0
272	100	99.999	0.00492499533067635	12.49	235.714	244.4	0	0	0
273	100	98.986	0	12.64	17.807	70.26	0	0	0
274	100	99.324	0	15.52	18.139	107.94	0	0	0
275	100	99.662	0	10.06	19.217	92.96	0	0	0
276	100	99.999	0.00491096175622647	9.81	238.238	247.47	0	0	0
277	100	98.999	0	12.93	17.472	107.36	0	0	0
278	100	99.333	0	12.72	18.014	76.91	0	0	0
279	100	99.666	0	12.86	19.029	99.87	0	0	0
280	100	99.999	0.00491882567627003	12.93	235.262	244.07	0	0	0
281	100	99.013	0	13.15	17.74	84.74	0	0	0
282	100	99.342	0	12.87	18.221	100.11	0	0	0
283	100	99.671	0	12.9	19.144	107.99	0	0	0
284	100	99.999	0.00491388157052932	12.91	238.21	247.31	0	0	0
285	100	99.025	0	12.91	17.342	107.31	0	0	0
286	100	99.35	0	12.76	17.854	84.33	0	0	0
287	100	99.675	0	7.21	18.775	107.34	0	0	0
288	100	99.999	0.00490256422085778	7.23	241.103	250.46	0	0	0

289	100	99.038	0	13.16	17.195	106.46	0	0	0
290	100	99.358	0	7.29	17.679	106.71	0	0	0
291	100	99.679	0	13.21	18.528	91.53	0	0	0
292	100	99.999	0.00489644938789422	13.31	244.038	253.68	0	0	0
293	100	99.05	0	13.21	17.174	90.37	0	0	0
294	100	99.367	0	13.28	17.679	66.86	0	0	0
295	100	99.683	0	13.05	18.528	106.31	0	0	0
296	100	99.999	0.00490518798711625	13.42	241.158	250.35	0	0	0



## Throughput by Trial

Traffic Duration : 60 Seconds

Start frame size(bytes) : 256

End frame size(bytes) : 512

Step frame size(bytes) : 1

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 (%)
1	256	Failed	100	99.999	0		0	18115942.029	0	40000	0.00492184136520166
						Port //3/1	0	4528985.507	0	10000	
						Port //3/2	0	4528985.507	0	10000	
						Port //6/1	0	4528985.507	0	10000	
						Port //6/2	0	4528985.507	0	10000	
1	257	Passed	100	98.928	98.928		17857050.583	18050541.516	40000	40000	0
						Port //3/1	4464214.583	4512635.379	9892.7	10000	
						Port //3/2	4464286.583	4512635.379	9892.86	10000	
						Port //6/1	4464298.683	4512635.379	9892.89	10000	
						Port //6/2	4464250.733	4512635.379	9892.78	10000	
1	258	Passed	100	99.285	99.285		17857050.267	17985611.511	40000	40000	0
						Port //3/1	4464214.583	4496402.878	9928.41	10000	
						Port //3/2	4464286.417	4496402.878	9928.57	10000	
						Port //6/1	4464298.6	4496402.878	9928.6	10000	
						Port //6/2	4464250.667	4496402.878	9928.49	10000	

Max Latency Threshold Exceeded	Out of Sequence Threshold Exceeded
False	False
False	False
False	False

1	259	Passed	100	99.642	99.642		17857050.483	17921146.953	40000	40000	0
						Port //3/1	4464214.517	4480286.738	9964.13	10000	
						Port //3/2	4464286.483	4480286.738	9964.29	10000	
						Port //6/1	4464298.767	4480286.738	9964.31	10000	
						Port //6/2	4464250.717	4480286.738	9964.21	10000	
1	260	Failed	100	99.999	0		0	17857142.857	0	40000	0.00492186554316967
						Port //3/1	0	4464285.714	0	10000	
						Port //3/2	0	4464285.714	0	10000	
						Port //6/1	0	4464285.714	0	10000	
						Port //6/2	0	4464285.714	0	10000	
1	261	Passed	100	98.943	98.943		17605541.267	17793594.306	40000	40000	0
						Port //3/1	4401337.817	4448398.577	9894.21	10000	
						Port //3/2	4401408.733	4448398.577	9894.37	10000	
						Port //6/1	4401420.783	4448398.577	9894.39	10000	
						Port //6/2	4401373.933	4448398.577	9894.29	10000	
1	262	Passed	100	99.295	99.295		17605541.5	17730496.454	40000	40000	0
						Port //3/1	4401337.817	4432624.113	9929.42	10000	
						Port //3/2	4401408.833	4432624.113	9929.58	10000	
						Port //6/1	4401420.917	4432624.113	9929.61	10000	
						Port //6/2	4401373.933	4432624.113	9929.5	10000	
1	263	Passed	100	99.647	99.647		17605541.4	17667844.523	40000	40000	0
						Port //3/1	4401337.817	4416961.131	9964.63	10000	
						Port //3/2	4401408.783	4416961.131	9964.79	10000	
						Port //6/1	4401420.867	4416961.131	9964.82	10000	
						Port //6/2	4401373.933	4416961.131	9964.71	10000	
1	264	Failed	100	99.999	0		0	17605633.803	0	40000	0.00492780449283008
						Port //3/1	0	4401408.451	0	10000	
						Port //3/2	0	4401408.451	0	10000	



						Port //6/1	0	4401408.451	0	10000	
						Port //6/2	0	4401408.451	0	10000	
1	265	Passed	100	98.958	98.958		17361020.483	17543859.649	40000	40000	0
						Port //3/1	4340208.5	4385964.912	9895.68	10000	
						Port //3/2	4340278.183	4385964.912	9895.83	10000	
						Port //6/1	4340290.267	4385964.912	9895.86	10000	
						Port //6/2	4340243.533	4385964.912	9895.76	10000	
1	266	Passed	100	99.305	99.305		17361020.25	17482517.483	40000	40000	0
						Port //3/1	4340208.367	4370629.371	9930.4	10000	
						Port //3/2	4340278.167	4370629.371	9930.56	10000	
						Port //6/1	4340290.183	4370629.371	9930.58	10000	
						Port //6/2	4340243.533	4370629.371	9930.48	10000	
1	267	Passed	100	99.652	99.652		17361020.117	17421602.787	40000	40000	0
						Port //3/1	4340208.217	4355400.697	9965.12	10000	
						Port //3/2	4340278.083	4355400.697	9965.28	10000	
						Port //6/1	4340290.267	4355400.697	9965.31	10000	
						Port //6/2	4340243.55	4355400.697	9965.2	10000	
1	268	Failed	100	99.999	0		0	17361111.111	0	40000	0.00492252192318185
						Port //3/1	0	4340277.778	0	10000	
						Port //3/2	0	4340277.778	0	10000	
						Port //6/1	0	4340277.778	0	10000	
						Port //6/2	0	4340277.778	0	10000	
1	269	Passed	100	98.972	98.972		17123197.5	17301038.062	40000	40000	0
						Port //3/1	4280753.05	4325259.516	9897.1	10000	
						Port //3/2	4280822.333	4325259.516	9897.26	10000	
						Port //6/1	4280834.033	4325259.516	9897.29	10000	
						Port //6/2	4280788.083	4325259.516	9897.18	10000	
1	270	Passed	100	99.315	99.315		17123197.333	17241379.31	40000	40000	0





						Port //3/1	4280752.9	4310344.828	9931.35	10000	
						Port //3/2	4280822.317	4310344.828	9931.51	10000	
						Port //6/1	4280834.033	4310344.828	9931.53	10000	
						Port //6/2	4280788.083	4310344.828	9931.43	10000	
1	271	Passed	100	99.657	99.657		17123197.267	17182130.584	40000	40000	0
						Port //3/1	4280752.8	4295532.646	9965.59	10000	
						Port //3/2	4280822.35	4295532.646	9965.75	10000	
						Port //6/1	4280834.033	4295532.646	9965.78	10000	
						Port //6/2	4280788.083	4295532.646	9965.67	10000	
1	272	Failed	100	99.999	0		0	17123287.671	0	40000	0.00492499533067635
						Port //3/1	0	4280821.918	0	10000	
						Port //3/2	0	4280821.918	0	10000	
						Port //6/1	0	4280821.918	0	10000	
						Port //6/2	0	4280821.918	0	10000	
1	273	Passed	100	98.986	98.986		16891803.1	17064846.416	40000	40000	0
						Port //3/1	4222905.2	4266211.604	9898.49	10000	
						Port //3/2	4222973.317	4266211.604	9898.65	10000	
						Port //6/1	4222984.767	4266211.604	9898.68	10000	
						Port //6/2	4222939.817	4266211.604	9898.57	10000	
1	274	Passed	100	99.324	99.324		16891803.033	17006802.721	40000	40000	0
						Port //3/1	4222905.1	4251700.68	9932.27	10000	
						Port //3/2	4222973.35	4251700.68	9932.43	10000	
						Port //6/1	4222984.767	4251700.68	9932.46	10000	
						Port //6/2	4222939.817	4251700.68	9932.35	10000	
1	275	Passed	100	99.662	99.662		16891803.217	16949152.542	40000	40000	0
						Port //3/1	4222905.3	4237288.136	9966.06	10000	
						Port //3/2	4222973.317	4237288.136	9966.22	10000	
						Port //6/1	4222984.783	4237288.136	9966.24	10000	



						Port //6/2	4222939.817	4237288.136	9966.14	10000	
1	276	Failed	100	99.999	0		0	16891891.892	0	40000	0.00491096175622647
						Port //3/1	0	4222972.973	0	10000	
						Port //3/2	0	4222972.973	0	10000	
						Port //6/1	0	4222972.973	0	10000	
						Port //6/2	0	4222972.973	0	10000	
1	277	Passed	100	98.999	98.999		16666579.583	16835016.835	40000	40000	0
						Port //3/1	4166600	4208754.209	9899.84	10000	
						Port //3/2	4166667.317	4208754.209	9900	10000	
						Port //6/1	4166678.35	4208754.209	9900.03	10000	
						Port //6/2	4166633.917	4208754.209	9899.92	10000	
1	278	Passed	100	99.333	99.333		16666579.767	16778523.49	40000	40000	0
						Port //3/1	4166599.983	4194630.872	9933.17	10000	
						Port //3/2	4166667.233	4194630.872	9933.33	10000	
						Port //6/1	4166678.467	4194630.872	9933.36	10000	
						Port //6/2	4166634.083	4194630.872	9933.26	10000	
1	279	Passed	100	99.666	99.666		16666579.95	16722408.027	40000	40000	0
						Port //3/1	4166599.983	4180602.007	9966.51	10000	
						Port //3/2	4166667.367	4180602.007	9966.67	10000	
						Port //6/1	4166678.5	4180602.007	9966.69	10000	
						Port //6/2	4166634.1	4180602.007	9966.59	10000	
1	280	Failed	100	99.999	0		0	16666666.667	0	40000	0.00491882567627003
						Port //3/1	0	4166666.667	0	10000	
						Port //3/2	0	4166666.667	0	10000	
						Port //6/1	0	4166666.667	0	10000	
						Port //6/2	0	4166666.667	0	10000	
1	281	Passed	100	99.013	99.013		16447282.8	16611295.681	40000	40000	0
						Port //3/1	4111776.567	4152823.92	9901.16	10000	



						Port //3/2	4111842.567	4152823.92	9901.32	10000	
						Port //6/1	4111853.9	4152823.92	9901.34	10000	
						Port //6/2	4111809.767	4152823.92	9901.24	10000	
1	282	Passed	100	99.342	99.342		16447282.6	16556291.391	40000	40000	0
						Port //3/1	4111776.567	4139072.848	9934.05	10000	
						Port //3/2	4111842.517	4139072.848	9934.21	10000	
						Port //6/1	4111853.817	4139072.848	9934.24	10000	
						Port //6/2	4111809.7	4139072.848	9934.13	10000	
1	283	Passed	100	99.671	99.671		16447282.767	16501650.165	40000	40000	0
						Port //3/1	4111776.567	4125412.541	9966.95	10000	
						Port //3/2	4111842.567	4125412.541	9967.11	10000	
						Port //6/1	4111853.9	4125412.541	9967.13	10000	
						Port //6/2	4111809.733	4125412.541	9967.03	10000	
1	284	Failed	100	99.999	0		0	16447368.421	0	40000	0.00491388157052932
						Port //3/1	0	4111842.105	0	10000	
						Port //3/2	0	4111842.105	0	10000	
						Port //6/1	0	4111842.105	0	10000	
						Port //6/2	0	4111842.105	0	10000	
1	285	Passed	100	99.025	99.025		16233681.65	16393442.623	40000	40000	0
						Port //3/1	4058376.717	4098360.656	9902.44	10000	
						Port //3/2	4058442.117	4098360.656	9902.6	10000	
						Port //6/1	4058453.183	4098360.656	9902.63	10000	
						Port //6/2	4058409.633	4098360.656	9902.52	10000	
1	286	Passed	100	99.35	99.35		16233681.95	16339869.281	40000	40000	0
						Port //3/1	4058376.733	4084967.32	9934.91	10000	
						Port //3/2	4058442.333	4084967.32	9935.07	10000	
						Port //6/1	4058453.2	4084967.32	9935.09	10000	
						Port //6/2	4058409.683	4084967.32	9934.99	10000	



1	287	Passed	100	99.675	99.675		16233681.667	16286644.951	40000	40000	0
						Port //3/1	4058376.667	4071661.238	9967.37	10000	
						Port //3/2	4058442.133	4071661.238	9967.53	10000	
						Port //6/1	4058453.183	4071661.238	9967.56	10000	
						Port //6/2	4058409.683	4071661.238	9967.45	10000	
1	288	Failed	100	99.999	0		0	16233766.234	0	40000	0.00490256422085778
						Port //3/1	0	4058441.558	0	10000	
						Port //3/2	0	4058441.558	0	10000	
						Port //6/1	0	4058441.558	0	10000	
						Port //6/2	0	4058441.558	0	10000	
1	289	Passed	100	99.038	99.038		16025557.767	16181229.773	40000	40000	0
						Port //3/1	4006346.25	4045307.443	9903.69	10000	
						Port //3/2	4006411.067	4045307.443	9903.85	10000	
						Port //6/1	4006421.7	4045307.443	9903.87	10000	
						Port //6/2	4006378.75	4045307.443	9903.77	10000	
1	290	Passed	100	99.358	99.358		16025557.95	16129032.258	40000	40000	0
						Port //3/1	4006346.3	4032258.065	9935.74	10000	
						Port //3/2	4006411.067	4032258.065	9935.9	10000	
						Port //6/1	4006421.783	4032258.065	9935.93	10000	
						Port //6/2	4006378.8	4032258.065	9935.82	10000	
1	291	Passed	100	99.679	99.679		16025558.417	16077170.418	40000	40000	0
						Port //3/1	4006346.617	4019292.605	9967.79	10000	
						Port //3/2	4006411.067	4019292.605	9967.95	10000	
						Port //6/1	4006421.867	4019292.605	9967.98	10000	
						Port //6/2	4006378.867	4019292.605	9967.87	10000	
1	292	Failed	100	99.999	0		0	16025641.026	0	40000	0.00489644938789422
						Port //3/1	0	4006410.256	0	10000	
						Port //3/2	0	4006410.256	0	10000	





						Port //6/1	0	4006410.256	0	10000	
						Port //6/2	0	4006410.256	0	10000	
1	293	Passed	100	99.05	99.05		15822702.45	15974440.895	40000	40000	0
						Port //3/1	3955633.033	3993610.224	9904.91	10000	
						Port //3/2	3955696.883	3993610.224	9905.06	10000	
						Port //6/1	3955707.45	3993610.224	9905.09	10000	
						Port //6/2	3955665.083	3993610.224	9904.99	10000	
1	294	Passed	100	99.367	99.367		15822702.6	15923566.879	40000	40000	0
						Port //3/1	3955633.133	3980891.72	9936.55	10000	
						Port //3/2	3955696.917	3980891.72	9936.71	10000	
						Port //6/1	3955707.467	3980891.72	9936.74	10000	
						Port //6/2	3955665.083	3980891.72	9936.63	10000	
1	295	Passed	100	99.683	99.683		15822702.7	15873015.873	40000	40000	0
						Port //3/1	3955633.133	3968253.968	9968.2	10000	
						Port //3/2	3955696.917	3968253.968	9968.36	10000	
						Port //6/1	3955707.567	3968253.968	9968.38	10000	
						Port //6/2	3955665.083	3968253.968	9968.28	10000	
1	296	Failed	100	99.999	0		0	15822784.81	0	40000	0.00490518798711625
						Port //3/1	0	3955696.203	0	10000	
						Port //3/2	0	3955696.203	0	10000	
						Port //6/1	0	3955696.203	0	10000	
						Port //6/2	0	3955696.203	0	10000	

False	False
False	False
False	False
False	False



## 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
10 Gigabit Ethernet	10,000	14,880,952	8,445,945	4,528,985	2,349,624	1,197,318	961,538	812,743
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
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



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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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