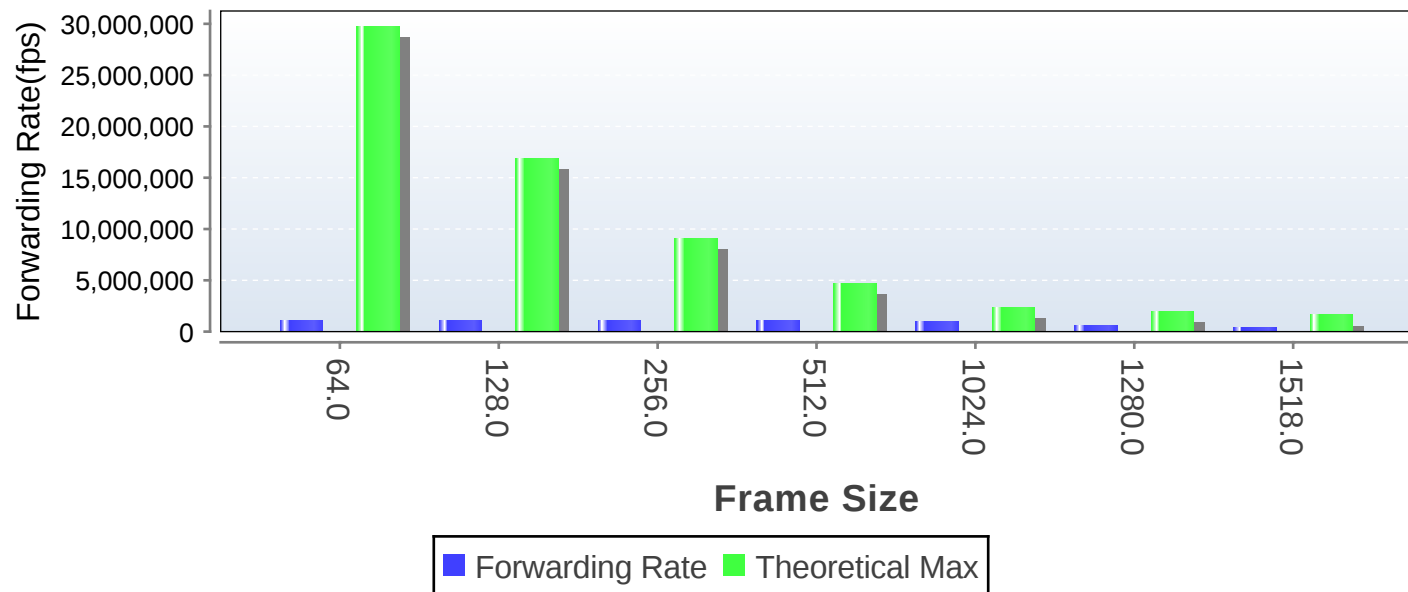


Spirent TestCenter Report

Test Type: RFC2889 Maximum Forwarding Rate
Counter Mode: Interarrivaltime
Test Date: 2015-02-25 10:26:09 MST



Max Forwarding Rate by Frame Size Vs Theoretical Max



Summary Table

Trial	Frame Size Bytes	Burst Size	Intended Load (%)	Offered Load (%)	Forwarding Rate (fps)	Tx Frame Count	Rx Frame Count	Frame Loss (%)	Frames Lost	Flood Count
1	64	1	50	50	1039855.52	446428572	31210427	93.01	415218145	0
1	128	1	10	10	1046079	50675676	31393220	38.05	19282456	0
1	256	1	20	20	1040075.38	54347828	31210850	42.57	23136978	0
1	512	1	50	50	1043386.64	70488722	31308919	55.58	39179803	0

Other Rx Frames
35775
35673
35606
35721

1	1024	1	50	50	996566.26	35919542	29902535	16.75	6017007	0
1	1280	1	50	50	637542.08	28846154	19126952	33.69	9719202	0
1	1518	1	50	50	433394.67	24382316	13001823	46.68	11380493	0

39067
16801
24418



Test Summary by Trial

Trial	Frame Size (bytes)	Burst Size	Intended Load (%)	Offered Load (%)	Offered Load (fps)	Forwarding Rate (fps)	Tx Frame Count	Rx Frame Count	Frame Loss (%)	Frames Lost
1	64	1	10	10	2976190.533	1030651.07	89285716	30934055	65.354	58351661
1	64	1	20	20	5952381	1034804.91	178571430	31059109	82.607	147512321
1	64	1	30	30	8928571.467	1037482.15	267857144	31139651	88.375	236717493
1	64	1	40	39.623	11792452.867	1036507.96	353773586	31110359	91.206	322663227
1	64	1	50	50	14880952.4	1039855.52	446428572	31210427	93.009	415218145
1	128	1	10	10	1689189.2	1046079	50675676	31393220	38.051	19282456
1	128	1	20	20	3378378.4	1037101.09	101351352	31124507	69.29	70226845
1	128	1	30	29.839	5040322.6	1036461.53	151209678	31104962	79.429	120104716
1	128	1	40	39.785	6720430.133	1038075.08	201612904	31153231	84.548	170459673
1	128	1	50	50	8445946	1033678.6	253378380	31019294	87.758	222359086
1	256	1	10	10	905797.133	899295.32	27173914	26978368	0.72	195546
1	256	1	20	20	1811594.267	1040075.38	54347828	31210850	42.572	23136978
1	256	1	30	30	2717391.333	1034843.44	81521740	31054237	61.907	50467503
1	256	1	40	39.884	3612716.8	1032863.64	108381504	30994298	71.403	77387206
1	256	1	50	50	4528985.533	1038907.88	135869566	31175821	77.055	104693745
1	512	1	10	10	469924.867	451476.17	14097746	13544515	3.924	553231
1	512	1	20	20	939849.667	875359.47	28195490	26260240	6.864	1935250
1	512	1	30	29.955	1407657.667	1039063.75	42229730	31178727	26.169	11051003
1	512	1	40	39.94	1876876.933	1040231.76	56306308	31213983	44.564	25092325
1	512	1	50	50	2349624.067	1043386.64	70488722	31308919	55.583	39179803

Flood Count	Other Rx Frames
0	35767
0	35777
0	35772
0	35777
0	35775
0	35673
0	35760
0	35771
0	35772
0	35770
0	497
0	35606
0	35761
0	35768
0	35772
0	2777
0	4133
0	34895
0	35644
0	35721

1	1024	1	10	10	239463.667	205338.23	7183910	6160300	14.249	1023610
1	1024	1	20	20	478927.267	410947.81	14367818	12328451	14.194	2039367
1	1024	1	30	30	718390.867	500231.38	21551726	15011521	30.347	6540205
1	1024	1	40	39.969	957121	765886.48	28713630	22976610	19.98	5737020
1	1024	1	50	50	1197318.067	996566.26	35919542	29902535	16.751	6017007
1	1280	1	10	10	192307.733	152424.8	5769232	4572940	20.736	1196292
1	1280	1	20	20	384615.4	287725.71	11538462	8631776	25.191	2906686
1	1280	1	30	29.982	576568.267	405830.51	17297048	12181501	29.575	5115547
1	1280	1	40	39.975	768757.733	508123.51	23062732	15243554	33.904	7819178
1	1280	1	50	50	961538.467	637542.08	28846154	19126952	33.693	9719202
1	1518	1	10	10	162548.8	139615.99	4876464	4188470	14.108	687994
1	1518	1	20	19.995	325013.067	252309.15	9750392	7569186	22.37	2181206
1	1518	1	30	29.992	487519.533	313638.07	14625586	9409198	35.666	5216388
1	1518	1	40	39.969	649688.2	353824.57	19490646	10615545	45.535	8875101
1	1518	1	50	50	812743.867	433394.67	24382316	13001823	46.675	11380493

0	8105
0	9672
0	17633
0	11133
0	39067
0	11990
0	14677
0	18388
0	19917
0	16801
0	8599
0	13165
0	23817
0	24452
0	24418



FRMOL/MFR by Frame Size

Trial	Frame Size (bytes)	Burst Size	FRMOL (fps)	MOL (fps)	MFR (fps)	OL (%)
1	64	1	N/A	N/A	1039855.52	50
1	128	1	N/A	N/A	1046079	10
1	256	1	N/A	N/A	1040075.38	20
1	512	1	N/A	N/A	1043386.64	50
1	1024	1	N/A	N/A	996566.26	50
1	1280	1	N/A	N/A	637542.08	50
1	1518	1	N/A	N/A	433394.67	50



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: R1E

RunTime Start Data Set ID: 1

RunTime End Data Set ID: 2147483647

RR Template Saved Timestamp Thu Sep 01 19:25:22.281 PDT 2011



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