

RFC 2544 Test Report

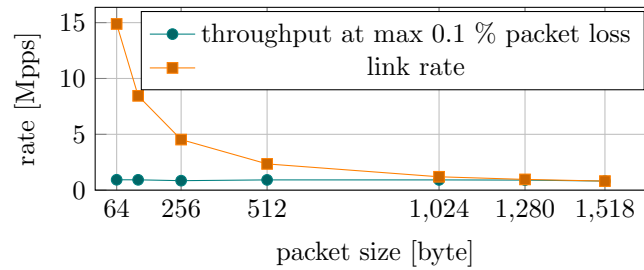
1 General Test Information

Device Under Test: narva
Operating System: Linux narva 3.7-1-grml-amd64 1 SMP Debian 3.7.9-1+grml.1 x86_64GNU/Linux
Date: 2015-10-08

2 Throughput

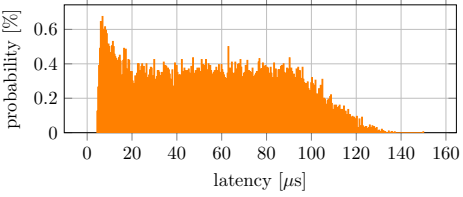
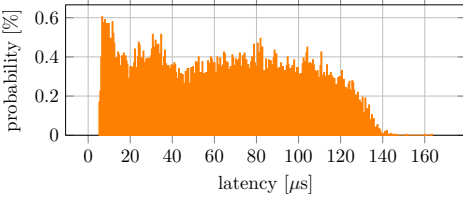
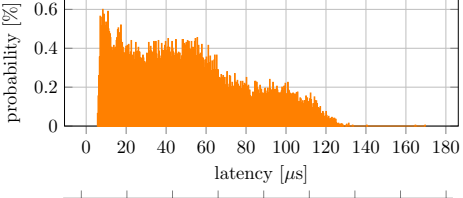
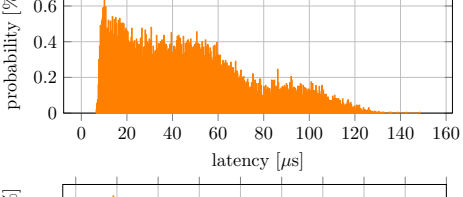
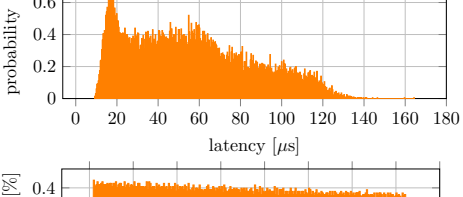
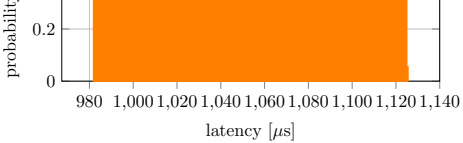
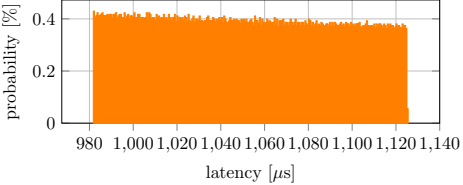
Test Duration: 20 s
Maximal Loss Rate: 0.100 %
Accuracy: 100 Mbps

Frame Size (bytes)	Iteration	Total Tx Frames	Total Rx Frames	Throughput (Mpps)	Throughput (Mbps)
64	1	18614925	18614925	0.931	625.461
128	1	18491067	18491067	0.925	1094.671
256	1	16983603	16983603	0.849	1874.990
512	1	18368784	18368784	0.918	3908.877
1024	1	18337347	18329897	0.917	7657.676
1280	1	18028899	18028899	0.901	9375.027
1518	1	16254819	16254819	0.813	9999.965



3 Latency

Test Duration: 20 s

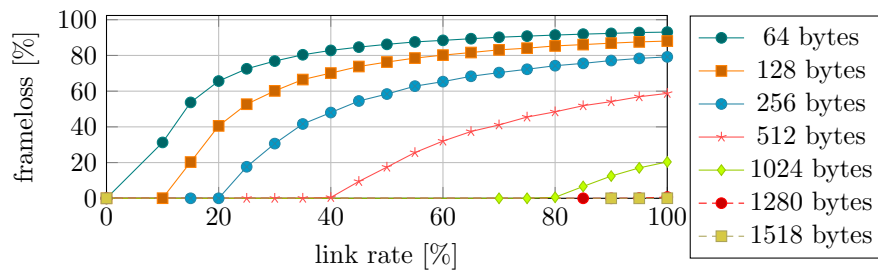
Frame Size (bytes)	Throughput (Mpps)	Latency Min (ns)	Latency Avg (ns)	Latency Max (ns)	
64	1.025	4352.0	55686.3	149990.4	
128	1.018	4518.4	63498.9	6201152.0	
256	0.934	5132.8	64609.7	163238.4	
512	1.011	5580.8	50363.2	169600.0	
1024	1.009	6464.0	47202.6	148339.2	
1280	0.992	9216.0	55864.9	164390.4	
1518	0.893	981747.2	1052015.9	1125094.4	

4 Frame loss rate

Test Duration: 20 s

Frame Size (bytes)	Load (%)	Total Tx Frames	Total Rx Frames	Total Frames Lost	Frame Loss (%)
64	100.0	297617355	20636048	276981307	93.0662
	95.0	283016916	20308641	262708275	92.8242
	90.0	267855462	20493623	247361839	92.3490
	85.0	253376739	20436289	232940450	91.9344
	80.0	238093695	20440109	217653586	91.4151
	75.0	223212906	20511453	202701453	90.8108
	70.0	208332180	20430184	187901996	90.1935
	65.0	193797450	20593115	173204335	89.3739
	60.0	178570413	20635644	157934769	88.4440
	55.0	164472210	20451808	144020402	87.5652
	50.0	148808268	20514752	128293516	86.2140
	45.0	134407476	20618800	113788676	84.6595
	40.0	119046753	20447193	98599560	82.8242
	35.0	104165964	20446036	83719928	80.3717
	30.0	89285112	20670320	68614792	76.8491
	25.0	74404323	20445387	53958936	72.5212
	20.0	59523471	20443024	39080447	65.6555
15.0	44642619	20670320	23972299	53.6982	
10.0	29761767	20450314	9311453	31.2866	
128	100.0	168917994	20175729	148742265	88.0559
	95.0	160598781	19948542	140650239	87.5786
	90.0	152128935	19957878	132171057	86.8809
	85.0	143677422	20007413	123670009	86.0748
	80.0	135134433	19825110	115309323	85.3293
	75.0	126688590	20189351	106499239	84.0638
	70.0	118295919	19949647	98346272	83.1358
	65.0	109809189	20170851	89638338	81.6310
	60.0	101350872	20092781	81258091	80.1750
	55.0	92936151	19961056	72975095	78.5218
	50.0	84458871	20018117	64440754	76.2984
	45.0	76218975	19968153	56250822	73.8016
	40.0	67567059	20190578	47376481	70.1177
	35.0	59241420	19846268	39395152	66.4993
	30.0	50709708	20204624	30505084	60.1563
	25.0	42229530	19980083	22249447	52.6869
	20.0	33783624	20080789	13702835	40.5606
15.0	25354854	20211907	5142947	20.2839	
10.0	16891812	16882531	9281	0.0549	
256	100.0	90579195	18838176	71741019	79.2025
	95.0	86107581	18652220	67455361	78.3385
	90.0	81521370	18629601	62891769	77.1476
	85.0	77001813	18818647	58183166	75.5608
	80.0	72463545	18661007	53802538	74.2477
	75.0	67934412	18849072	49085340	72.2540
	70.0	63451458	18791325	44660133	70.3847
	65.0	58915710	18659910	40255800	68.3278

	60.0	54347580	18843610	35503970	65.3276
	55.0	49899969	18559357	31340612	62.8069
	50.0	45289629	18849935	26439694	58.3791
	45.0	40782861	18561446	22221415	54.4871
	40.0	36231678	18834894	17396784	48.0154
	35.0	31725729	18524014	13201715	41.6120
	30.0	27173790	18851698	8322092	30.6254
	25.0	22644783	18646510	3998273	17.6565
	20.0	18115839	18115839	0	0.0000
	15.0	13586895	13586895	0	0.0000
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512	100.0	46992204	19384912	27607292	58.7487
	95.0	44669394	19268794	25400600	56.8635
	90.0	42301035	19399437	22901598	54.1396
	85.0	39957246	19237845	20719401	51.8539
	80.0	37593801	19391432	18202369	48.4185
	75.0	35244153	19211159	16032994	45.4912
	70.0	32894694	19376637	13518057	41.0949
	65.0	30549771	19124966	11424805	37.3974
	60.0	28195398	19163768	9031630	32.0323
	55.0	25853058	19230817	6622241	25.6149
	50.0	23496165	19397136	4099029	17.4455
	45.0	21150486	19153656	1996830	9.4411
	40.0	18796932	18706386	90546	0.4817
	35.0	16447347	16440939	6408	0.0390
30.0	14100345	14100345	0	0.0000	
25.0	11748051	11748051	0	0.0000	
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1024	100.0	23946237	19068741	4877496	20.3685
	95.0	22754844	18877868	3876976	17.0380
	90.0	21557907	18871272	2686635	12.4624
	85.0	20358324	19008859	1349465	6.6286
	80.0	19157040	19048518	108522	0.5665
	75.0	17959725	17959725	0	0.0000
70.0	16763544	16763544	0	0.0000	
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1280	100.0	19230687	19095492	135195	0.7030
	95.0	18270441	18247206	23235	0.1272
	90.0	17308998	17308998	0	0.0000
	85.0	16346988	16346988	0	0.0000
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1518	100.0	16254819	16247393	7426	0.0457
	95.0	15444891	15444891	0	0.0000
	90.0	14631246	14631246	0	0.0000



5 Back-to-back frames

Test Duration: 2 s
Accuracy: 100 packets
Rate: 10000 Mbps

Frame Size (bytes)	Burst size min	Burst size avg	Burst size max	Theoretical maximum
64	5338	5338.0	5338	29761905
128	3480	3480.0	3480	16891892
256	2212	2212.0	2212	9057972
512	1579	1579.0	1579	4699249
1024	1317	1317.0	1317	2394637
1280	1528	1528.0	1528	1923077
1518	1787	1787.0	1787	1625488

