



Prerequisites:

- added rough support for arm v7: https://github.com/ikhorn/af_xdp_stuff/tree/af_xdp_armv7
- added xdp support for cpsw: https://github.com/ikhorn/af_xdp_stuff/tree/xdp_cpsw
- added hw/sw timestamping for af_xdp: https://github.com/ikhorn/af_xdp_stuff/tree/xdp_hw_ts_cpsw
- plget tool is used: <https://github.com/ikhorn/plget>
- TIsdk 05.01.00.11 with kernel > 5.0 on am572 evm.

All measurements done retrieving one packet at time. As here not throughput is first requirement but latency for single packet. For throughput it could be different as af_xdp sockets can retrieve bunch of packets at a time from umem and this doesn't reflect real one packet latency. For comparison it can be added later, for now only 1 and 128 PPS, retrieving and handling one packet at a time, as it should be. As it's first evaluation report, that can be repeated after some optimization, only 1024 packets (512 Bytes) were sent, that's enough to think on values.

For accuracy reason, measurement before this test were verified as with h/w ts support and w/o h/w ts support for "af_xdp" stack, and there were no differences so all as is. No any cpu pinning and rt and priority settings were used. This is w/o zero copy support, that is also wasn't evaluated appropriately for packet latency. With cpu pinning, priority settings and RT kernel results will be more accurate and stable, this only for evaluation.

For arm v8 as soon as completely verified on linux/next master.

Driver latency – latency from wire to entrance in the stack

Stack latency – latency from driver till receiving into the application

Complete latency – Driver latency + Stack latency

Don't be confused in case of HI rate this latency could be different, for instance PPS=5000 with 10000 can drop in average 10us, with per packet retrieve:

RX	Socket (AF_XDP, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_RAW, 0)
Complete latency	max val(#2489) = 290.43us min val(#8763) = 41.38us peak-to-peak = 249.04us mean +- RMS = 50.66 +- 4.96 us	max val(#7495) = 367.90us min val(#9756) = 38.11us peak-to-peak = 329.79us mean +- RMS = 54.53 +- 5.77 us

Significant improve possible in throughput, as that's possible to receive packet BATCHes... but for single packet situation is different, at least for now.

1 Conclusion

2 Tx complete latency (app → wire)

2.1 AF_XDP “socket(AF_XDP, SOCK_RAW, 0)”

2.1.1 AF_XDP, 1PPS

2.1.2 AF_XDP 128 PPS

2.2 RAW AF_PACKET “socket(AF_PACKET, SOCK_RAW, 0)”

2.2.1 RAW AF_PACKET, 1 PPS

2.2.1 RAW AF_PACKET, 128 PPS

2.3 AF_PACKET “socket(AF_PACKET, SOCK_DGRAM, ETH_P_1588)”

2.3.1 AF_PACKET, 1 PPS

2.3.2 AF_PACKET, 128 PPS

2.4 AF_INET “socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP)”

2.4.1 AF_INET, 1 PPS

2.4.2 AF_INET, 128 PPS

3 Rx complete latency (“driver” latency + “af_xdp stack” latency)

3.1 AF_XDP “socket(AF_XDP, SOCK_RAW, 0)”

3.1.1 AF_XDP, 1 PPS

3.1.2 AF_XDP, 128 PPS

3.2 RAW AF_PACKET “socket(AF_PACKET, SOCK_RAW, 0)”

3.2.1 RAW AF_PACKET, 1 PPS

3.2.2 RAW AF_PACKET, 128 PPS

3.3 AF_PACKET “socket(AF_PACKET, SOCK_DGRAM, ETH_P_1588)”

3.3.1 AF_PACKET, 1 PPS

3.3.2 AF_PACKET, 128 PPS

3.4 AF_INET “socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP)”

3.4.1 AF_INET, 1 PPS

3.4.2 AF_INET, 128 PPS

1 Conclusion

Summary for TX (app → wire), 1 PPS

TX 1 PPS	Socket (AF_XDP, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_DGRAM, ETH_P_1588)	Socket (AF_INET, SOCK_DGRAM, IPPROTO_UDP)”
Complete latency	max val(#0) = 31.78us min val(#829) = 17.45us peak-to-peak = 14.33us mean +- RMS = 19.16 +- 1.19 us	max val(#0) = 36.26us min val(#508) = 18.93us peak-to-peak = 17.33us mean +- RMS = 20.96 +- 1.36 us	max val(#40) = 37.51us min val(#144) = 18.59us peak-to-peak = 18.92us mean +- RMS = 20.76 +- 1.77 us	max val(#0) = 60.23us min val(#204) = 27.19us peak-to-peak = 33.04us mean +- RMS = 30.15 +- 2.29 us

Summary for TX (app → wire), 128 PPS

TX 128 PPS	Socket (AF_XDP, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_DGRAM, ETH_P_1588)	Socket (AF_INET, SOCK_DGRAM, IPPROTO_UDP)”
Complete latency	max val(#0) = 29.95us min val(#1) = 15.05us peak-to-peak = 14.90us mean +- RMS = 17.42 +- 1.13 us	max val(#0) = 36.04us min val(#3) = 16.25us peak-to-peak = 19.79us mean +- RMS = 17.62 +- 0.90 us	max val(#0) = 35.43us min val(#990) = 17.21us peak-to-peak = 18.22us mean +- RMS = 18.05 +- 0.78 us	max val(#0) = 55.14us min val(#982) = 23.95us peak-to-peak = 31.20us mean +- RMS = 25.25 +- 1.31 us

Summary for RX, 1 PPS

RX 1 PPS	Socket (AF_XDP, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_DGRAM, ETH_P_1588)	Socket (AF_INET, SOCK_DGRAM, IPPROTO_UDP)”
Driver latency	max val(#860) = 42.21us min val(#817) = 22.29us peak-to-peak = 19.93us mean +- RMS = 27.15 +- 4.27 us	max val(#702) = 43.23us min val(#525) = 24.76us peak-to-peak = 18.47us mean +- RMS = 29.94 +- 3.58 us	max val(#872) = 58.29us min val(#535) = 24.18us peak-to-peak = 34.11us mean +- RMS = 30.24 +- 4.68 us	max val(#885) = 53.85us min val(#120) = 24.96us peak-to-peak = 28.89us mean +- RMS = 30.69 +- 4.24 us
Stack latency	max val(#527) = 229.52us min val(#500) = 27.65us peak-to-peak = 201.87us mean +- RMS = 35.79 +- 8.07 us	max val(#476) = 278.16us min val(#9) = 31.07us peak-to-peak = 247.09us mean +- RMS = 39.34 +- 10.88 us	max val(#33) = 66.20us min val(#940) = 29.12us peak-to-peak = 37.09us mean +- RMS = 41.22 +- 5.32 us	max val(#0) = 85.72us min val(#869) = 40.02us peak-to-peak = 45.71us mean +- RMS = 52.17 +- 5.51 us
Complete latency	max val(#527) = 254.29us min val(#661) = 51.31us peak-to-peak = 202.98us mean +- RMS = 62.94 +- 9.50 us	max val(#476) = 303.84us min val(#9) = 56.61us peak-to-peak = 247.23us mean +- RMS = 69.28 +- 11.95 us	max val(#33) = 107.52us min val(#940) = 54.33us peak-to-peak = 53.18us mean +- RMS = 71.46 +- 9.18 us	max val(#0) = 123.39us min val(#869) = 66.93us peak-to-peak = 56.45us mean +- RMS = 82.86 +- 8.81 us

Summary for RX, 128 PPS

RX 128 PPS	Socket (AF_XDP, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_RAW, 0)	Socket (AF_PACKET, SOCK_DGRAM, ETH_P_1588)	Socket (AF_INET, SOCK_DGRAM, IPPROTO_UDP)”
Driver latency	max val(#32) = 34.68us min val(#653) = 20.82us peak-to-peak = 13.86us mean +- RMS = 22.70 +- 1.67 us	max val(#599) = 72.21us min val(#147) = 21.04us peak-to-peak = 51.17us mean +- RMS = 24.25 +- 2.92 us	max val(#81) = 36.89us min val(#1007) = 20.95us peak-to-peak = 15.94us mean +- RMS = 23.82 +- 2.04 us	max val(#0) = 37.35us min val(#355) = 23.23us peak-to-peak = 14.12us mean +- RMS = 25.95 +- 1.66 us
Stack latency	max val(#1017) = 207.89us min val(#434) = 28.30us peak-to-peak = 179.58us mean +- RMS = 35.23 +- 7.83 us	max val(#0) = 65.07us min val(#358) = 17.89us peak-to-peak = 47.17us mean +- RMS = 30.89 +- 8.50 us	max val(#292) = 131.60us min val(#641) = 17.89us peak-to-peak = 113.71us mean +- RMS = 30.62 +- 9.31 us	max val(#351) = 287.76us min val(#355) = 37.58us peak-to-peak = 250.18us mean +- RMS = 47.58 +- 9.66 us
Complete latency	max val(#1017) = 238.65us min val(#434) = 49.77us peak-to-peak = 188.88us mean +- RMS = 57.94 +- 8.60 us	max val(#599) = 106.53us min val(#458) = 39.43us peak-to-peak = 67.11us mean +- RMS = 55.14 +- 9.78 us	max val(#292) = 158.43us min val(#1007) = 39.65us peak-to-peak = 118.78us mean +- RMS = 54.44 +- 10.45 us	max val(#351) = 324.08us min val(#355) = 60.81us peak-to-peak = 263.27us mean +- RMS = 73.53 +- 10.33 us

2 Tx complete latency (app → wire)

2.1 AF_XDP “socket(AF_XDP, SOCK_RAW, 0)”

2.1.1 AF_XDP, 1PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t xdp_ptpl2 -m tx-lat -n 1024 --pps=1 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 0
SIOCSHWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app → wire): packets 1024:

31.782	22.517	20.36	19.438	17.882	21.596	18.888	20.144
19.241	17.958	19.728	19.338	18.759	17.994	19.17	20.348
18.138	18.801	17.911	17.875	18.437	17.515	20.026	23.004
19.717	20.209	19.765	18.833	17.742	19.386	20.224	19.867
19.778	17.665	20.193	19.446	17.457	19.022	19.001	18.168
19.534	18.389	18.041	17.653	18.194	18.739	19.328	18.235
17.758	17.957	20.911	19.501	19.927	20.211	21.746	20.307
19.653	19.703	18.187	18.294	18.674	18.807	18.577	19.939
18.218	18.377	20.585	20.02	21.664	20.319	19.342	19.586
18.825	19.584	18.26	18.411	20.275	18.446	18.183	17.583
19.391	19.636	19.849	19.516	22.776	19.475	19.332	19.478
20.335	18.997	20.342	18.348	18.674	18.3	17.842	19.294
19.81	18.184	18.038	19.998	19.106	18.081	18.634	19.035
18.745	19.576	18.09	19.316	18.183	20.024	19.128	17.971
18.389	18.355	22.341	20.06	19.509	18.351	18.085	18.299
19.082	18.217	20.502	19.795	17.758	19.95	20.457	18.69
18.142	18.361	18.309	18.473	18.175	17.929	18.489	17.865
18.295	18.544	20.534	20.182	18.47	19.784	19.797	18.692
21.12	20.856	19.526	20.992	19.411	19.15	19.482	19.818
18.699	19.49	19.759	18.942	18.13	19.001	18.081	17.814
18.751	18.193	18.342	17.905	18.045	18.047	19.669	18.651
17.83	19.664	18.405	18.16	18.626	18.325	19.912	21.021
19.587	18.625	17.682	19.679	20.046	18.695	19.686	19.405
18.613	19.617	20.374	19.571	18.875	18.495	19.375	18.565
18.495	19.364	19.287	18.047	19.093	18.933	17.701	17.819
20.111	18.007	19.26	18.275	18.057	23.033	20.334	19.31
18.546	20.708	19.736	18.56	19.222	18.206	19.705	19.625
18.213	18.991	18.117	18.507	18.54	18.858	18.085	17.591
18.315	18.354	19.599	18.694	18.267	17.962	18.895	18.868
18.87	18.354	18.047	23.067	19.902	18.242	17.807	18.469
19.561	18.218	18.995	19.203	18.333	19.055	18.027	20.18
25.651	18.352	19.898	18.867	18.5	18.289	18.589	18.737
18.482	18.474	18.137	17.836	19.579	18.418	20.409	18.751
18.347	23.403	20.058	19.432	18.164	19.865	20.173	18.52
19.153	18.2	19.052	19.805	18.397	18.22	18.361	18.478
18.875	18.529	18.342	19.659	17.929	18.604	20.416	18.36
19.557	19.924	18.634	17.799	18.235	18.242	17.737	18.171
23.085	18.981	18.053	18.653	21.145	18.458	19.375	19.243
17.73	18.736	19.862	20.618	19.56	19.366	20.672	19.112
18.173	20.183	18.114	18.488	19.746	20.405	19.936	19.93
20.262	19.714	20.095	18.478	17.918	19.797	22.937	19.558
19.67	19.021	19.893	17.747	20.326	18.347	18.851	19.139
18.098	18.749	18.987	18.226	18.983	18.834	18.715	19.646
18.193	18.533	19.48	18.41	20.019	17.905	18.118	18.404
18.307	18.579	18.781	19.328	22.881	19.485	17.713	17.855
19.579	20.914	19.608	19.955	18.407	19.503	17.95	18.956
18.886	17.974	18.751	18.726	18.961	18.569	18.591	19.312
17.825	19.18	17.841	17.709	19.018	18.009	20.042	18.475
17.853	19.381	21.919	20.21	19.928	20.233	20.697	17.981
19.147	17.927	18.222	19.362	18.282	18.853	18.453	19.775
19.632	18.122	18.062	20.304	19.79	19	17.879	18.238
18.174	19.688	18.609	18.151	18.82	18.372	18.167	18.391
18.318	23.387	18.911	19.963	20.365	18.357	18.263	19.237
18.085	18.955	19.867	19.193	18.694	18.012	19.314	18.474
18.962	19.846	17.85	18.628	19.34	19.421	17.816	20.043
19.561	18.151	20.185	18.524	20.781	19.649	19.215	21.612
18.94	19.301	20.979	18.41	18.819	17.912	17.724	19.582
18.165	18.927	18.581	17.86	18.769	20.068	18.694	18.237
18.065	18.799	17.886	18.621	18.447	18.475	19.085	18.272
18.205	17.963	18.389	20.954	19.032	22.93	18.781	19.22
20.005	18.101	19.436	19.393	20.018	20.116	18.619	19.76
18.949	18.217	18.344	18.11	17.978	18.43	18.341	19.471
18.429	18.328	19.81	19.652	20.079	18.547	19.631	18.597
26.544	19.791	18.602	21.841	19.048	21.649	20.199	18.752
19.898	19.424	18.062	19.698	19.973	21.019	18.984	18.145
19.281	18.622	18.548	18.57	18.486	18.659	20.067	18.258
18.015	17.82	18.378	20.064	19.055	17.933	20.036	18.501
18.723	18.129	22.158	19.258	19.989	18.508	18.626	19.926
20.138	19.86	19.349	20.044	20.562	18.315	19.19	19.434
19.401	18.285	18.542	18.431	18.073	20.116	18.448	19.761
19.705	20.076	20.728	18.737	19.775	20.304	19.351	19.321
22.231	19.487	19.609	20.539	19.393	18.105	18.029	19.489
18.291	18.682	18.773	19.814	18.954	20.585	18.142	18.044
18.284	18.254	19.988	18.62	19.597	17.517	18.793	18.475
19.115	17.944	19.922	18.305	17.7	20.242	21.316	19.569
20.13	18.083	18.77	19.122	19.034	20.545	19.115	19.49
18.681	18.57	19.392	19.221	18.36	19.809	18.463	19.458
18.467	18.626	18.047	17.624	19.337	18.34	20.442	18.458
19.565	18.415	18.147	19.015	22.957	20.774	21.031	18.922
19.172	18.071	17.81	19.115	19.247	19.078	18.48	18.443
19.162	17.98	18.504	18.456	18.541	18.486	20.233	18.621
19.572	19.891	18.816	20.09	18.665	18.23	18.285	19.23
18.953	18.176	17.801	22.454	20.046	18.978	19.456	19.97
17.966	20.381	19.737	20.643	19.153	18.582	19.748	18.729
18.221	19.73	18.109	18.895	18.307	18.775	17.774	19.511
19.074	18.375	19.3	18.461	18.054	18.732	19.003	18.7
17.892	23.584	20.321	20.958	19.735	19.14	18.662	19.35
18.595	19.362	18.397	17.927	19.089	18.446	18.253	19.791
18.584	18.566	19.884	18.293	17.863	17.851	18.982	18.166
18.565	21.389	20.439	18.723	18.182	18.418	18.379	23.458
20.739	19.208	19.908	19.785	18.586	20.431	19.088	19.667
18.074	18.278	19.44	18.034	18.847	20.174	18.06	18.332
18.085	19.063	18.015	18.155	19.465	20.079	19.74	18.973
18.21	18.84	19.239	20.433	18.163	23.847	20.974	18.717
19.238	18.415	18.271	19.632	18.024	19.154	18.949	18.557
26.019	19.191	18.976	19.622	18.366	19.392	18.614	19.337

18.262	18.128	18.667	17.766	18.169	19.958	20.106	18.585
18.057	18.193	20.13	19.621	23.191	18.255	19.44	19.298
18.247	20.617	20.287	19.593	18.743	18.362	18.969	20.408
18.478	18.101	18.657	18.552	18.87	18.752	17.819	19.669
18.76	18.585	19.613	19.063	18.351	19.406	18.836	19.28
19.697	18.455	23.226	19.173	20.353	18.703	18.745	18.924
18.824	18.758	19.026	18.09	18.528	19.004	18.528	18.062
18.787	19.728	18.211	18.937	17.763	17.452	18.684	18.098
18.945	20.739	17.98	17.889	20.11	18.444	18.093	18.745
23.029	18.525	19.622	20.74	18.267	20.599	18.843	19.299
17.929	18.048	18.72	18.506	18.626	19.966	18.944	19.486
17.856	18.384	19.702	18.159	19.017	18.31	20.524	18.753
18.865	19.198	19.185	18.549	19.735	18.562	21.274	19.315
19.897	18.322	18.214	19.91	18.736	20.977	18.212	18.743
18.565	19.834	20.307	19.763	18.719	18.937	18.966	18.527
19.976	20.502	19.193	18.464	18.768	18.92	18.511	18.202
20.655	18.705	19.982	18.104	18.526	20.75	21.268	19.807
18.774	20.467	20.612	19.263	19.035	20.234	18.744	19.072
18.81	18.541	18.279	18.579	18.483	20.028	18.201	19.966
19.275	20.124	20.466	19.884	20.199	19.459	18.797	18.586
20.057	20.353	19.431	23.655	20.943	18.933	18.578	20.139
19.07	19.726	19.468	18.364	19.234	18.953	19.392	18.688
18.816	19.327	19.913	20.451	19.474	18.57	19.33	18.974
19.521	19.037	20.059	18.278	18.587	18.426	17.976	19.701
19.607	21.61	21.284	20.214	18.339	20.408	18.968	20.327
19.323	20.28	19.152	18.626	18.947	20.034	18.776	18.465
18.337	18.562	17.824	17.795	18.853	18.55	20.367	20.13
18.586	19.265	18.87	19.024	20.061	19.808	18.784	22.255
21.128	18.643	19.632	20.331	18.318	19.236	19.257	18.267
18.718	18.425	18.098	19.85	18.217	18.752	18.285	18.74
18.443	17.862	18.633	17.804	18.769	19.214	20.18	19.178
25.227	20.421	18.686	19.331	18.781	18.225	21.36	20.018

```

max val(#0) = 31.78us
min val(#829) = 17.45us
peak-to-peak = 14.33us
mean +- RMS = 19.16 +- 1.19 us

```

```

packet size: 512
number of packets: 1024
RATE = 4.10kbps, PPS = 1.0

```

2.1.2 AF_XDP 128 PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t xdp_ptpl2 -m tx-lat -n 1024 --pps=128 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 0
SIOCShWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

29.952	15.054	17.188	16.853	16.977	16.65	18.357	17.407
16.574	17.908	16.755	16.372	19.449	16.156	15.8	17.901
19.225	16.261	17.907	18.965	16.478	17.369	17.427	15.891
15.373	15.849	17.721	18.427	16.606	17.608	17.723	15.673
17.603	18.555	16.024	17.652	17.547	17.834	17.811	15.743
17.419	15.314	17.604	18.259	18.282	16.262	17.449	17.648
19.544	17.751	16.316	17.872	15.879	17.65	18.275	15.884
18.151	17.899	18.237	17.69	17.701	17.67	17.946	15.663
17.738	17.947	17.702	17.47	19.618	17.582	15.703	18.139
17.794	18.113	19.657	18.045	15.932	17.771	15.481	17.533
19.538	15.81	15.538	17.737	19.893	18.072	18.063	17.783
17.784	17.987	17.573	17.466	16.28	17.356	18.244	18.039
17.542	18.314	18.54	17.875	15.938	19.162	17.823	18.115
15.797	17.734	18.841	18.08	19.231	19.33	17.441	17.672
19.664	18.035	17.53	17.917	17.92	18.229	17.596	17.217
16.351	17.528	18.244	15.876	19.519	17.851	17.84	18.036
17.676	17.447	19.218	17.696	17.351	17.859	18.245	17.645
19.77	17.876	16.466	17.79	17.695	17.941	15.941	18.319
17.783	18.113	15.605	17.558	17.79	18.13	17.73	17.761
17.927	18.123	17.812	18.156	19.574	17.801	18.39	18.064
17.387	18.291	17.936	18.894	19.731	18.116	17.837	16.094
18.152	18.185	18.195	18.256	17.892	18.645	17.88	17.809
18.733	18.053	16.237	16.323	20.492	18.944	17.774	17.882
16.106	17.762	16.374	17.73	17.828	17.874	17.489	15.557
19.963	17.959	18.542	18.03	20.123	18.008	18.207	15.504
16.294	16.268	17.772	20.364	17.748	17.836	17.726	18.144
15.906	18.614	17.735	15.832	20.009	15.814	18.027	18.014
17.48	20.278	18.06	18.082	19.751	17.878	20.786	15.922
17.903	18.028	16.026	18.019	17.572	17.801	17.663	17.693
16.048	19.148	17.862	18.687	19.791	16.284	17.882	17.851
17.49	16.029	16.031	17.812	16.013	18.036	17.803	18.046
24.116	18.02	18.481	15.861	17.66	15.937	17.683	17.493
17.642	15.808	18.902	17.542	18.305	19.161	17.84	16.096
18.279	16.217	15.895	15.811	17.743	17.687	15.855	16.026
17.779	17.97	15.952	17.861	17.171	18.146	18.119	19.731
18.023	17.689	17.835	17.872	18.191	18.145	18.288	16.998
17.693	18.323	17.894	17.932	17.707	15.906	17.898	17.657
17.803	15.941	19.564	18.323	15.802	18.212	19.891	17.323
18.232	18.04	16.734	18.17	17.652	17.26	15.902	17.716
18.519	17.999	18.347	18.325	17.941	18.125	17.825	17.76
17.818	17.752	15.896	17.62	18.183	21.019	18.26	19.089
17.966	16.371	17.839	16.004	17.647	16.094	15.962	17.602
15.657	18.358	17.973	17.978	17.972	17.067	18.038	16.007
17.714	18.008	17.08	18.02	17.964	19.548	18.16	16.265
17.727	16.648	18.444	18.019	17.763	18.084	17.964	17.869
15.736	19.752	15.462	16.36	17.522	16.412	15.711	17.413
17.977	18.267	17.744	17.691	15.894	17.686	17.576	17.991
17.704	17.887	19.387	17.981	19.768	17.958	15.976	16.054
16.841	15.803	16.196	18.088	17.913	19.94	17.746	16.474
17.623	15.524	17.582	17.736	15.787	15.794	17.877	15.857
17.823	17.969	16.744	17.52	18.227	17.634	18.209	17.616
15.909	16.341	17.486	16.262	19.697	17.655	18.312	15.595
15.535	18.44	17.826	18.068	15.64	17.74	18.208	17.807
17.8	15.845	17.72	17.717	18.108	17.615	15.94	16.297
18.713	17.811	16.269	17.496	17.699	17.33	16.329	17.664
17.606	18.245	17.477	18.261	17.83	17.512	17.779	15.53
17.318	17.597	17.999	17.97	17.638	18.135	18.44	18.058
16.266	17.354	17.744	17.597	17.749	17.621	15.69	17.688
16	17.848	16.087	17.896	17.978	16.052	17.916	17.786
17.425	17.93	17.952	15.464	15.497	17.713	17.439	21.353
19.791	18.719	16.064	15.054	17.811	17.844	15.491	17.276
17.264	15.75	15.408	15.921	17.719	17.761	15.658	15.534
18.915	17.661	17.385	15.174	15.829	16.189	17.63	17.344
17.677	17.889	17.488	15.642	17.516	16.726	15.405	16.934
15.662	15.534	16.279	16.887	19.447	17.626	15.914	17.798
19.11	16.539	17.791	17.366	17.757	17.45	17.112	18.186
17.745	17.53	15.759	17.433	17.868	17.752	18.52	17.465
17.762	15.337	17.18	16.557	18.503	15.775	17.6	17.605
17.736	17.663	15.835	15.422	15.909	17.688	17.344	17.702
16.076	16.101	17.741	17.58	17.794	17.7	17.371	17.365
19.041	16.438	16.03	17.576	15.664	16.541	17.509	17.357
17.672	17.605	17.528	17.535	17.374	15.607	17.564	18.448
17.62	17.653	16.697	17.86	17.811	17.602	15.497	17.888
17.396	17.316	17.595	17.535	17.507	16.165	17.414	16.317
15.677	17.567	15.579	17.144	15.901	15.689	17.601	17.435
17.371	17.999	17.807	17.618	18.599	16.046	15.906	16.147
17.262	17.512	17.322	17.48	15.605	17.678	15.433	17.433
17.52	16.513	17.259	15.933	17.524	17.772	17.151	17.263
17.387	17.548	17.853	17.623	17.619	18.308	17.905	19.201
18.05	17.213	17.796	17.409	18.768	17.561	17.285	18.112
17.345	15.496	18.415	17.864	17.475	17.563	17.411	17.509
17.129	17.21	16.921	17.619	17.541	17.283	17.509	18.834
17.708	17.802	15.836	17.057	17.195	15.62	17.406	17.662
17.252	15.135	17.61	17.521	18.183	17.847	17.758	17.664
15.272	17.639	15.335	17.171	17.085	17	17.503	15.482
17.239	16.292	17.352	17.419	17.614	17.759	17.403	17.256
18.147	18.148	17.554	17.241	17.855	17.736	16.833	15.739
17.922	17.708	17.534	17.346	17.582	17.462	16.944	16.597
17.458	17.444	17.532	17.666	19.604	17.703	15.818	19.577
17.35	15.954	17.618	17.336	17.398	15.281	17.202	20.49
17.44	17.715	17.642	19.23	19.395	17.405	17.329	15.513
17.377	17.293	17.34	17.576	16.187	17.712	18.288	18.501
17.685	17.631	17.611	17.403	17.57	16.578	18.479	17.567
17.325	18.536	18.168	15.923	17.629	16.966	17.25	17.429
17.301	17.568	19.078	15.58	17.22	16.975	18.597	17.403
15.955	17.695	17.8	17.433	15.76	16.026	16.642	16.131
17.02	17.24	15.814	15.865	15.633	17.643	18.858	17.808
19.083	17.18	15.429	17.223	17.564	17.36	17.192	18.079
17.741	17.651	18.536	16.035	15.8	15.752	18.003	17.666
17.823	17.653	18.907	15.299	16.413	15.645	17.761	17.495
17.31	17.614	19.401	17.235	15.324	16.589	16.613	15.539
17.426	16.634	17.456	17.515	17.578	17.705	15.503	15.734

18.159	16.319	15.808	15.489	17.878	17.742	18.388	15.211
17.263	17.514	17.945	18.138	17.168	16.364	16.969	16.828
16.119	15.526	15.609	16.577	17.731	15.41	15.689	17.603
17.13	15.568	17.424	17.557	17.43	18.536	17.692	18.605
16.28	17.769	15.831	17.389	16.801	15.27	17.653	17.627
17.174	17.642	16.813	17.308	18.307	17.501	15.768	16.376
17.456	17.537	17.773	17.825	17.604	16.979	17.642	19.259
18.817	16.792	19.425	17.807	17.377	17.582	15.376	17.327
15.409	16.072	17.726	17.585	17.621	17.554	16.515	17.157
17.967	17.881	17.592	15.137	15.312	17.838	17.378	18.102
16.154	17.64	17.554	19.031	19.299	17.418	16.623	17.615
19.074	17.328	17.411	17.351	15.574	17.739	17.405	17.697
18.497	19.919	15.931	17.479	16.794	16.952	15.692	17.278
15.802	17.649	17.523	17.436	16.745	15.744	17.214	18.01
17.42	17.856	17.601	17.4	17.604	17.523	17.304	15.885
16.076	16.459	17.916	18.125	18.982	15.896	15.525	17.565
18.71	16.371	15.796	17.744	17.738	17.497	18.331	17.702
17.682	18.18	17.47	15.625	17.66	17.642	17.218	17.267
19.746	17.1	15.651	18.395	19.281	17.266	16.364	16.023
19.416	17.415	16.963	17.64	17.822	15.325	15.686	17.393
16.815	18.142	19.715	17.68	16.214	18.086	15.576	17.555
17.228	19.354	17.447	17.472	16.336	15.936	15.878	18.425
17.655	15.785	17.845	17.489	17.533	17.652	16.424	17.619
17.895	17.299	17.792	17.915	17.748	18.295	17.699	17.709
17.644	17.919	17.968	16.98	15.571	19.413	18.53	17.452
17.734	17.823	16.071	15.917	15.899	17.841	17.386	16.63

max val(#0) = 29.95us
min val(#1) = 15.05us
peak-to-peak = 14.90us
mean +- RMS = 17.42 +- 1.13 us

packet size: 512
number of packets: 1024
RATE = 524.29kbps, PPS = 128.0

2.2 RAW AF_PACKET “socket(AF_PACKET, SOCK_RAW, 0)”

2.2.1 RAW AF_PACKET, 1 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t raw_ptpl2 -m tx-lat -n 1024 --pps=1 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 1; rx_filter was 0
SIOCASHWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

36.261	24.996	22.804	20.716	19.649	23.798	22.399	20.718
22.4	20.174	22.455	20.515	25.521	21.804	22.025	22.901
20.475	21.072	21.385	19.515	20.006	19.699	20.048	20.42
21.359	21.268	21.083	19.822	19.417	19.539	20.214	20.074
20.29	21.543	19.574	21.311	20.443	19.668	20.499	20.183
22.478	21.002	20.06	26.673	23.067	24.118	21.78	20.216
20.011	19.412	20.867	20.044	21.615	21.566	19.635	20.761
20.026	19.717	20.852	21.176	21.647	20.069	20.466	19.781
21.401	22.815	20.896	21.128	20.241	20.036	21.201	21.069
20.302	24.337	22.822	22.076	20.011	20.942	20.045	19.604
21.173	21.636	20.939	20.217	21.746	21.505	20.977	19.981
19.554	20.017	20.459	20.031	20.366	21.525	20.249	21.651
19.621	19.431	19.791	20.656	22.219	20.516	19.332	25.04
22.697	21.214	20.049	20.239	18.991	19.366	22.495	21.325
21.962	20.723	20.689	22.382	21.364	19.515	22.285	21.564
21.312	21.267	21.377	20.156	19.343	22.441	20.097	20.04
20.025	20.048	20.87	21.156	19.897	24.849	24.361	22.404
20.645	21.021	19.948	20.948	23.196	20.589	19.51	20.457
21.056	21.72	20.772	19.472	20.215	20.278	21.16	19.892
20.429	21.001	19.71	21.362	20.148	19.386	19.88	19.812
22.308	22.227	21.048	21.423	24.636	24.755	20.571	20.92
19.912	20.018	22.531	20.803	21.347	20.586	19.573	22.468
20.713	19.981	20.841	21.225	21.182	21.36	19.863	20.542
19.499	21.066	20.961	20.077	20.152	19.661	20.783	20.807
19.797	19.466	25.843	24.414	20.285	20.044	20.264	20.265
20.362	20.585	19.838	20.665	20.69	22.384	20.775	20.32
21.696	19.829	21.088	19.976	20.489	20.472	19.999	21.987
20.544	19.681	19.943	21.731	22.198	21.644	19.707	21.112
25.105	24.473	20.926	21.498	20.705	19.953	22.335	19.93
20.411	21.203	20.127	20.857	20.758	19.659	21.887	21.927
21.586	20.586	20.724	20.211	20.148	21.074	19.788	20.074
19.662	19.643	20.567	20.417	22.445	19.568	24.855	23.97
21.349	21.602	20.358	19.82	21.843	20.191	19.339	20.569
20.789	22.107	20.903	20.307	19.922	19.82	20.644	20.909
20.223	20.432	20.157	20.627	20.125	20.436	19.783	19.861
21.591	21.514	19.778	21.558	19.493	26.986	21.435	21.619
20.285	19.532	21.518	20.265	21.653	21.616	20.229	21.327
20.948	20.381	20.986	20.517	20.902	19.566	20.161	20.467
19.663	20.84	21.927	19.514	20.521	19.874	21.005	22.221
19.832	21.448	19.894	26.504	22.323	21.88	20.211	21.888
21.628	20.744	20.188	20.399	20.864	21.783	20.908	20.349
20.53	20.961	20.536	20.889	20.067	22.194	19.651	21.221
20.502	19.967	20.483	21.516	22.291	20.83	20.085	20.16
19.966	25.647	21.932	21.043	20.547	19.929	21.124	20.819
21.946	21.151	20.328	21.122	20.424	19.468	21.132	20.491
20.604	20.867	21.035	19.892	20.194	20.942	21.043	19.545
20	19.784	20.845	20.495	20.131	19.342	20.078	25.079
22.067	21.923	22.587	19.906	21.926	20.775	20.255	21.033
21.397	21.804	20.65	20.378	23.654	19.633	21.145	19.893
21.383	20.892	21.425	21.668	21.082	22.301	20.54	22.27
21.36	20.283	19.986	19.753	21.706	21.46	25.442	22.842
20.332	20.067	23.443	20.705	22.333	20.318	20.577	22.266
21.631	19.333	22.152	20.966	22.177	20.827	21.171	20.089
19.529	21.213	20.218	19.53	22.032	20.099	21.018	20
19.563	19.265	19.457	20.412	24.748	23.26	20.636	21.973
21.682	20.88	20	21.028	20.681	21.505	20.513	19.499
19.456	22.011	21.052	19.993	19.741	21.394	19.901	21.014
20.748	20.65	20.268	19.597	22.613	21.318	20.356	19.32
22.463	19.574	24.104	21.466	20.29	19.995	22.68	22.441
21.397	20.273	19.941	21.123	20.629	19.933	21.417	20.123
21.417	21.346	20.624	19.742	19.787	21.033	19.825	21.44
20.256	19.637	21.286	20.739	19.656	21.415	19.902	20.189
24.677	22.021	21.351	20.255	22.308	20.124	19.795	21.048
21.803	22.049	21.737	19.628	18.928	20.443	21.116	20.115
20.21	20.966	20.465	21.147	19.947	21.359	19.816	19.858
21.805	22.739	21.186	19.874	20.01	20.954	19.649	26.71
21.044	22.518	23.766	20.918	22.655	22.217	20.325	21.116
20.48	20.91	20.689	22.43	22.245	20.363	19.832	19.461
21.381	21.429	19.773	19.651	22.218	19.944	20.725	19.835
20.08	21.405	19.593	20.106	21.494	25.327	21.257	20.658
22.309	20.944	19.935	20.512	20.845	20.941	20.885	19.726
19.644	19.251	20.855	19.781	19.897	20.473	19.836	21.862
20.399	19.554	19.973	19.376	22.066	21.319	20.229	21.748
21.935	21.83	20.261	25.149	22.567	20.647	22.947	21.127
21.687	21.048	20.106	21.955	21.996	20.407	22.149	21.391
21.971	20.173	20.138	19.981	19.938	20.162	19.997	19.52
19.921	20.213	20.386	19.73	19.569	19.882	20.037	20.793
22.728	24.34	21.184	20.012	22.228	20.724	20.112	20.068
22.153	21.68	20.753	22.002	19.559	19.493	21.158	20.945
19.803	21.179	19.796	21.432	20.937	22.47	22.559	20.022
20.928	20.334	20.437	19.865	19.915	20.318	19.959	19.791
24.559	20.976	23.449	21.326	21.491	20.567	21.248	22.922
22.313	20.193	21.737	20.714	21.409	20.322	20.387	19.748
21.841	21.444	20.018	20.947	20.479	19.18	20.161	20.606
19.86	20.435	19.587	20.882	20.375	19.678	24.739	21.516
23.654	20.989	19.988	20.217	21.565	21.923	20.991	19.718
20.494	20.339	21.555	20.383	19.809	21.05	19.727	20.983
20.36	19.847	20.21	19.927	22.23	20.746	20.717	19.746
20.096	20.431	20.51	19.791	24.346	21.387	23.193	21.21
22.072	20.771	20.787	22.099	20.695	20.768	20.651	20.95
21.344	20.614	20.574	19.914	19.863	20.495	20.042	19.778
20.216	19.289	20.646	20.04	19.821	19.363	19.733	20.826
20.323	20.202	24.675	22.453	23.796	21.552	19.966	20.403
22.019	21.926	20.769	20.301	19.544	20.117	20.971	20.352
20.758	21.874	20.029	21.521	20.344	19.422	20.185	22.043
21.372	21.252	19.988	19.889	20.343	21.013	20.131	20.352
19.716	25.263	23.66	21.799	21.785	22.644	20.523	21.872
21.693	19.657	22.01	21.873	21.951	20.409	20.823	20.951

20.837	22.346	20.554	19.782	20.05	23.957	20.499	20.693
19.817	19.483	20.328	21.819	20.129	19.602	19.624	24.727
24.376	21.492	19.849	20.261	20.408	21.74	20.704	19.415
19.318	19.94	21.015	20.414	20.575	21.493	19.946	21.661
20.398	21.535	19.975	19.613	21.282	20.465	21.366	19.683
19.543	21.149	21.167	19.836	19.587	25.401	23.781	21.607
21.962	20.886	20.418	20.939	20.289	19.916	21.424	20.907
21.785	20.482	21.47	20.399	19.949	21.865	20.047	19.651
19.827	19.68	20.998	19.828	19.766	19.454	19.894	19.673
19.448	19.535	19.548	23.711	23.805	21.126	22.057	20.574
20.962	22.177	20.951	19.908	19.273	20.1	20.204	19.642
19.591	21.385	20.273	20.767	20.046	19.707	19.847	20.071
21.643	21.161	20.275	19.739	20.417	20.238	19.714	19.891
19.715	21.747	23.137	21.391	23.256	22.292	20.418	23.34
22.088	19.932	21.564	21.207	23.104	20.93	23.082	20.068
19.954	21.434	20.282	19.931	20.366	20.25	21.331	20.166
19.929	22.161	20.746	20.827	21.371	20.374	19.842	20.545
27.243	22.231	22.461	20.083	21.533	22.351	20.807	19.97
19.22	19.748	20.611	20.727	19.971	21.944	20.009	21.331
20.25	19.537	20.407	19.914	22.502	21.157	20.084	21.92
19.778	21.193	21.763	21.899	21.78	19.578	26.879	22.529
22.754	20.622	19.943	23.737	21.343	21.405	21.487	20.287
22.962	20.434	19.614	19.974	20.138	22.082	20.84	19.628
22.098	21.658	22.088	20.144	20.065	19.948	20.621	21.491
20.169	20.043	22.236	19.629	25.534	22.696	20.553	19.76
22.432	23.171	20.406	20.519	19.612	19.574	20.594	19.722
19.482	21.082	21.348	20.969	20.881	19.9	19.635	20.67
21.735	20.347	20.464	19.473	19.859	20.541	19.972	21.598
20.191	20.154	20.109	24.895	22.998	20.085	21.511	22.571
20.968	20.79	22.138	20.335	21.689	20.718	20.712	21.002

```

-----
max val(#0) = 36.26us
min val(#508) = 18.93us
peak-to-peak = 17.33us
mean +- RMS = 20.96 +- 1.36 us

```

```

packet size: 512
number of packets: 1024
RATE = 4.10kbps, PPS = 1.0

```

2.2.1 RAW AF_PACKET, 128 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t raw_ptpl2 -m tx-lat -n 1024 --pps=128 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 1; rx_filter was 0
SIOCShWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

36.042	18.528	17.898	16.253	16.478	19.141	17.871	17.163
17.256	18.27	17.158	17.344	17.198	17.188	17.656	19.791
18.247	17.594	19.286	18.265	17.753	17.481	17.209	17.322
17.066	17.114	17.234	17.142	17.251	17.484	17.793	17.542
19.264	17.935	17.344	17.183	17.4	17.536	17.156	17.285
17.559	17.371	17.816	17.274	17.39	17.541	17.692	17.48
19.454	17.364	18.5	17.509	17.187	16.933	17.702	17.02
17.151	17.568	17.846	17.338	17.454	17.672	17.427	17.521
17.081	16.948	17.027	17.414	17.268	17.797	17.193	17.413
17.481	17.108	17.242	16.949	17.181	17.021	17.223	17.638
17.433	17.425	20.032	17.976	17.529	17.608	16.921	17.002
17.15	21.488	17.964	17.362	19.732	19.112	17.121	17.311
17.288	17.606	17.68	21.472	17.753	17.256	17.082	17.455
17.164	16.861	17.712	17.244	17.298	17.266	17.498	17.173
17.035	17.254	16.95	19.15	17.251	17.287	17.527	17.328
17.51	17.035	17.189	17.269	17.627	17.205	17.204	17.397
17.371	17.412	17.266	17.598	17.354	19.319	17.391	17.64
17.2	17.221	17.654	17.629	17.124	17.694	17.595	19.47
18.137	18.042	17.52	17.522	17.015	17.128	17.073	17.029
17.021	17.015	17.291	17.127	17.115	17.333	17.263	17.395
17.214	17.417	16.944	16.645	17.645	17.288	17.128	17.475
17.027	17.297	17.334	17.242	17.557	17.328	17.224	17.025
17.07	16.983	17.279	17.451	17.377	17.003	17.505	17.308
17.51	17.098	17.362	17.428	17.753	16.923	17.233	17.39
17.053	16.906	17.077	17.487	17.063	19.064	17.648	17.076
17.243	17.323	17.043	17.097	17.048	17.184	17.546	17.304
17.997	17.83	19.637	17.646	17.249	17.339	16.829	17.294
17.213	17.313	20.734	17.532	17.261	17.876	17.406	17.293
18.041	17.613	17.671	16.886	17.143	17.358	17.092	17.174
16.985	17.217	17.294	17.337	17.513	17.333	17.291	17.621
17.496	17.327	17.112	17.335	16.967	16.909	17.076	17.238
17.632	17.398	17.531	17.452	17.438	17.278	17.395	17.223
16.887	17.389	16.959	17.01	17.571	19.393	17.517	17.592
17.653	17.531	17.189	17.757	17.062	17.349	17.289	19.699
18.211	17.233	17.372	18.321	17.507	17.493	17.371	17.211
17.417	17.452	17.239	17.187	17.342	17.453	17.31	17.391
17.358	17.515	17.464	17.289	17.887	17.517	17.493	17.089
17.616	17.239	17.345	17.793	17.5	17.236	17.81	17.501
17.479	17.229	17.214	17.176	17.392	21.691	19.531	17.476
17.493	19.844	19.927	17.463	17.679	17.651	17.368	17.244
17.451	17.489	19.116	18.083	17.761	17.46	17.704	17.407
17.44	17.678	17.421	17.324	17.118	17.722	18.01	17.578
17.452	17.45	19.543	17.47	17.804	17.524	17.703	19.493
19.032	17.624	20.101	18.029	19.453	17.84	17.5	17.493
17.854	17.445	17.472	17.355	17.546	17.523	17.591	17.78
17.702	17.555	17.693	17.475	17.663	17.469	17.424	17.657
17.166	17.447	17.854	17.551	17.506	17.524	17.605	17.511
17.923	17.518	17.21	17.483	17.468	17.204	17.055	19.522
17.591	17.257	21.342	17.58	17.758	17.332	17.556	17.279
17.186	18.103	17.481	19.368	17.202	18.064	17.287	21.332
17.711	17.616	17.725	17.501	17.749	17.444	17.464	17.432
17.216	17.364	16.811	17.639	17.542	17.306	17.664	17.332
17.741	17.233	17.93	17.529	17.033	17.256	17.607	17.116
17.252	17.613	17.287	17.42	17.282	17.521	17.428	17.486
17.229	17.458	17.426	17.352	17.352	17.095	17.373	17.447
17.837	17.572	17.468	17.331	17.197	16.972	17.715	19.521
17.339	17.523	19.555	17.689	17.968	17.399	17.393	17.692
17.558	17.596	17.316	17.411	17.62	17.903	17.39	17.015
16.988	17.643	19.625	17.531	17.647	22.53	17.6	17.682
17.349	16.78	20.658	19.293	17.62	17.654	18.033	17.51
17.626	18.021	17.497	18.034	17.416	17.332	17.419	16.932
17.446	17.34	17.272	17.661	17.576	17.427	17.539	17.699
17.341	17.462	17.502	17.249	17.435	17.17	17.364	17.043
18.276	17.956	19.676	17.344	17.99	17.28	17.1	20.378
17.402	17.47	17.129	17.204	18.489	17.628	17.203	17.571
17.214	17.603	17.238	17.773	17.527	17.263	17.441	19.278
17.498	17.903	17.478	17.269	17.885	17.608	17.274	17.471
17.657	17.634	17.376	17.272	17.232	17.068	17.596	17.159
18.232	17.313	17.534	17.729	17.216	17.363	17.565	17.453
17.367	17.538	17.321	17.636	17.769	17.199	17.312	19.622
17.445	17.306	17.905	17.511	17.476	17.559	17.665	17.352
17.682	17.437	17.519	17.498	17.672	17.055	17.341	20.521
17.507	17.309	17.793	17.443	17.467	17.475	17.234	17.682
17.419	17.187	17.501	17.181	17.406	17.458	17.267	17.22
17.05	17.193	19.752	17.897	17.196	17.155	17.59	17.274
17.177	17.885	20.226	19.301	17.466	17.675	17.888	19.594
17.062	17.649	17.62	17.361	17.434	17.069	17.18	17.252
17.343	17.415	17.381	17.536	17.111	17.537	17.375	17.014
17.675	18.973	17.143	17.856	17.786	17.394	17.635	17.278
17.337	17.229	17.311	16.971	17.626	17.215	17.247	19.601
17.271	17.346	17.059	17.33	17.469	17.577	17.44	17.121
17.403	18.007	17.365	17.408	17.553	17.47	17.009	19.358
18.088	18.295	17.605	17.616	17.692	17.203	17.275	17.086
16.852	17.014	17.617	17.619	17.435	17.532	18.003	17.51
17.311	17.376	17.389	17.546	16.804	17.077	17.345	17.059
17.8	17.146	17.306	17.774	17.412	17.351	17.148	17.376
17.266	17.464	17.662	17.683	16.931	17.063	18.567	17.314
17.544	17.438	18	17.456	19.179	17.565	17.066	17.501
17.569	17.39	17.152	16.96	17.171	17.244	17.821	17.63
17.732	19.189	17.328	17.024	16.823	16.965	18.337	17.307
17.425	17.291	17.393	19.476	17.488	17.586	17.295	17.255
17.176	17.162	20.146	17.696	17.79	17.581	17.766	19.286
17.194	17.718	17.369	17.831	17.105	17.231	17.366	17.049
17.133	17.09	17.427	17.528	16.918	17.7	17.408	17.211
17.74	17.327	17.818	17.381	17.253	17.449	17.338	17.157
16.853	17.81	17.249	17.329	19.314	17.798	17.156	17.417
18.213	19.244	19.036	16.94	17.074	17.62	17.378	19.838
17.731	17.503	17.29	17.995	17.14	17.29	17.203	21.183
17.267	17.707	17.081	17.386	17.606	17.072	17.336	16.968
17.271	17.196	17.215	17.496	17.598	17.478	17.291	17.414
17.14	17.441	17.485	17.656	16.998	17.309	17.165	16.937
17.697	17.28	17.215	17.335	17.167	17.234	17.696	17.2

17.316	17.629	17.542	17.12	17.217	18.607	17.62	20.317
17.602	17.204	17.109	17.175	17.729	17.695	17.396	17.728
17.409	17.27	17.348	17.405	17.496	17.694	17.651	16.859
17.372	17.339	17.519	18.93	17.475	17.122	17.612	17.314
17.405	17.538	17.439	19.208	17.655	17.625	17.178	17.57
17.08	17.409	20.331	18.154	17.975	17.469	18.233	17.461
16.79	17.687	17.537	17.418	17.164	17.57	17.157	17.348
17.655	17.522	17.317	17.788	17.32	17.461	17.553	17.536
17.511	17.283	20.174	17.52	17.386	17.866	17.407	17.537
17.755	17.512	17.803	17.55	17.682	17.751	17.418	17.464
17.513	17.06	16.994	17.331	17.907	18.012	17.493	19.521
17.397	17.427	17.246	18.979	17.301	17.419	17.564	19.383
17.844	18.041	17.513	17.262	17.541	17.545	17.333	16.891
17.109	17.249	17.477	17.357	17.475	16.953	17.476	17.284
17.973	17.759	17.606	17.568	17.66	17.231	17.316	17.003
17.677	17.229	17.126	17.619	17.401	17.338	17.611	19.814
17.886	17.597	17.882	17.314	17.6	17.468	17.586	17.17
17.654	17.617	17.958	17.417	17.638	18.009	17.227	17.678
17.133	17.229	16.838	17.015	17.67	17.551	17.568	17.395
17.632	17.633	17.623	17.37	17.661	17.655	17.266	17.281
16.988	17.81	17.353	19.449	17.969	17.762	17.1	17.758
17.179	19.967	19.563	17.574	17.433	17.681	17.563	17.16
17.675	19.574	18.068	17.595	17.559	19.516	17.545	17.186
17.577	17.644	17.395	17.717	17.568	17.192	18.252	19.404
17.941	17.595	17.494	17.503	17.801	17.45	17.234	17.253
17.658	17.762	17.489	17.003	17.976	17.73	17.319	17.517

```

max val(#0) = 36.04us
min val(#3) = 16.25us
peak-to-peak = 19.79us
mean +- RMS = 17.62 +- 0.90 us

```

```

packet size: 512
number of packets: 1024
RATE = 524.29kbps, PPS = 128.0

```

2.3 AF_PACKET “socket(AF_PACKET, SOCK_DGRAM, ETH_P_1588)”

2.3.1 AF_PACKET, 1 PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t ptpl2 -m tx-lat -n 1024 --pps=1 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 0
SIOCShWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

36.357	25.4	27.973	25.397	24.294	21.684	20.547	23.429
21.12	20.543	21.828	20.202	22.014	21.139	20.633	20.477
20.585	20.283	20.169	22.805	20.338	20.051	20.588	20.219
23.605	21.142	20.15	21.003	22.79	20.425	21.249	20.778
26.457	22.139	22.166	21.168	22.144	23.354	22.319	35.699
37.514	34.601	27.628	25.064	23.075	20.918	21.481	22.519
19.495	20.45	19.79	18.937	20.647	20.455	18.811	19.576
18.932	22.541	20.388	19.146	19.407	20.176	20.434	27.513
21.305	20.163	19.429	22.383	20.472	20.305	21.445	19.533
19.82	20.164	22.32	21.428	20.25	21.525	19.647	20.118
19.501	19.114	20.899	21.196	20.777	21.628	21.595	19.842
19.405	18.76	19.249	18.937	19.574	25.321	21.441	20.517
19.571	22.263	20.104	19.261	20.29	20.345	21.01	20.401
19.558	19.275	19.118	19.999	19.734	19.031	21.268	19.505
20.641	19.978	22.257	19.911	19.193	21.902	20.418	21.532
19.265	19.308	20.152	25.71	22.932	22.334	19.009	22.101
19.416	19.106	20.343	19.264	19.68	21.009	21.263	20.04
21.415	20.001	19.11	19.112	20.997	20.436	22.899	19.388
18.592	19.522	19.288	20.018	19.782	21.011	19.054	19.183
19.579	24.152	22.072	19.601	18.962	23.469	19.66	19.397
21.333	19.961	20.11	19.855	21.102	21.077	19.856	20.507
19.222	21.636	19.393	21.447	22.035	20.275	19.28	21.172
19.301	22.588	20.173	21.468	19.195	19.66	22.318	19.761
24.653	21.746	19.634	21.845	19.634	21.27	20.366	19.17
19.866	19.692	19.028	19.271	21.392	19.493	19.183	19.426
19.339	18.858	19.26	19.199	20.718	19.857	19.316	19.113
19.535	19.233	21.66	19.606	19.634	19.096	24.279	21.963
19.932	24.692	19.948	20.901	22.53	19.844	21.342	20.589
21.234	21.559	20.039	19.72	19.485	19.521	19.295	22.145
21.127	20.356	19.047	19.525	18.825	23.086	20.652	19.772
21.364	20.375	21.768	20.808	24.792	21.832	20.085	23.411
19.582	19.488	20.872	19.43	20.052	19.946	20.228	19.295
19.338	20.091	20.026	19.382	21.032	20.965	20.043	19.104
18.921	20.276	19.491	21.25	19.771	19.286	22.22	19.106
19.61	19.218	24.341	22.616	19.903	23.382	19.751	19.722
21.696	21.161	20.659	19.926	19.66	19.489	19.057	19.99
19.323	19.375	19.062	19.272	20.202	19.725	20.889	19.73
20.882	22.204	21.037	21.511	19.333	20.89	21.057	21.881
21.849	25.012	20.506	23.44	21.15	19.734	20.723	19.165
20.297	20.122	19.06	19.643	19.452	19.377	19.629	19.677
18.975	20.458	20.006	18.759	21.287	21.93	19.183	19.775
20.087	19.358	20.363	18.988	18.835	19.191	19.061	24.375
21.134	24.322	21	19.081	21.188	21.33	21.747	19.927
19.767	19.337	21.225	21.121	19.238	19.584	21.18	19.188
20.241	19.771	18.792	19.571	19.186	22.212	21.429	19.268
19.428	20.9	21.229	21.431	20.121	25.282	21.695	23.232
20.725	19.907	20.427	20.069	20.938	19.83	19.265	21.221
21.479	19.843	21.111	19.147	19.027	19.927	20.468	19.017
18.969	20.169	19.27	19.845	20.312	18.784	19.833	20.827
19.945	19.337	19.236	23.745	20.707	23.939	20.556	19.074
21.491	19.163	20.014	20.137	21.326	18.865	19.856	19.73
18.927	19.719	19.454	19.154	20.306	21.391	21.072	22.403
19.447	22.485	19.871	21.14	21.255	21.909	21.773	20.441
20.663	19.56	25.266	23.396	20.396	22.179	20.821	19.372
20.903	20.034	20.789	19.257	20.261	19.789	19.222	19.445
19.189	19.157	20.27	19	19.046	19.693	18.827	19.31
19.139	20.676	21.241	19.016	19.465	18.983	20.302	19.282
23.786	23.049	19.885	21.734	21.278	20.055	20.18	19.245
21.584	21.491	19.571	19.648	19.291	20.378	19.068	19.086
20.083	19.183	20.962	19.631	18.997	21.528	19.601	19.381
19.696	20.931	21.54	20.587	21.389	21.77	24.563	23.173
20.436	21.531	20.811	19.418	21.097	19.861	20.178	19.808
20.74	21.312	21.84	19.643	19.083	22.282	20.399	19.217
23.072	19.608	19.237	19.709	21.42	19.256	21.554	19.459
20.568	21.456	19.277	21.298	24.864	24.9	20.289	19.33
21.737	19.187	21.381	21.122	18.878	19.214	19.66	21.024
20.16	19.677	19.989	19.042	21.128	19.415	21.226	20.576
19.262	21.778	21.019	19.046	19.751	21.514	21.61	22.063
21.144	19.743	19.548	25.833	20.51	19.449	21.072	19.277
20.859	20.405	18.959	21.314	21.214	20.922	20.613	20.534
19.419	19.895	21.372	19.825	18.846	19.939	19.371	20.443
19.961	19.116	19.24	19.81	20.169	20.497	19.552	20.862
21.05	25.789	20.949	21.527	21.513	21.851	21.399	20.749
19.682	19.568	21.668	21.217	19.523	21.579	21.034	19.552
19.335	19.176	19.184	19.546	19.371	22.208	20.248	21.522
19.932	20.568	20.119	21.835	19.542	20.141	21.891	24.076
21.107	19.298	21.273	19.486	20.361	20.888	19.628	19.137
19.317	19.932	20.253	19.611	19.292	20.047	21.768	20.882
19.24	20.262	20.237	20.902	19.872	23.223	19.909	21.269
19.891	21.793	20.662	19.48	21.21	24.68	21.354	19.634
21.752	20.068	21.075	20.03	20.678	20.898	20.743	20.388
19.31	19.662	19.653	18.988	20.536	19.993	19.052	19.709
19.211	21.844	22.807	19.651	20.461	20.888	23.45	20.846
20.747	21.804	21.317	21.252	24.102	19.778	21.425	20.296
20.918	19.73	19.112	21.457	20.474	20.762	19.743	19.402
19.313	20.994	20.247	21.047	20.939	19.964	20.396	21.014
20.776	21.198	21.704	19.758	19.998	21.375	21.269	19.86
20.994	21.668	24.796	20.414	21.84	20.184	22.494	21.032
21.396	19.676	19.387	20.377	19.698	18.976	19.763	19.269
20.422	19.434	20.865	21.578	19.267	22.736	20.215	19.53
19.532	20.249	22.902	20.601	19.698	20.143	19.108	20.907
25.453	20.635	21.514	19.931	20.978	20.34	21.437	19.26
19.469	20.559	19.724	19.481	21.436	19.159	20.36	18.944
21.32	19.631	18.924	19.348	21.195	19.722	20.03	22.017
21.129	19.714	21.566	19.303	19.065	21.928	22.839	20.861
22.524	19.669	21.881	20.476	19.464	20.555	19.63	20.118
20.086	19.99	19.193	19.099	19.832	20.97	19.398	21.67

18.975	22.432	21.133	21.477	19.33	20.852	21.312	20.986
20.768	19.562	19.248	20.704	19.326	24.538	21.21	19.177
20.947	21.848	21.743	20.242	19.495	20.368	19.45	19.464
21.353	21.456	19.673	21.265	19.166	20.948	19.558	19.78
21.234	19.092	19.212	18.886	19.264	29.274	27.451	22.239
19.934	26.552	20.379	27.146	24.799	21.056	22.732	21.759
19.409	19.979	19.748	20.886	19.22	21.491	19.468	19.545
20.28	19.825	21.242	21.689	19.296	22.412	22.526	21.389
20.577	23.222	22.43	21.866	20.646	21.377	19.306	21.459
19.789	25.031	23.79	21.984	22.695	21.56	20.436	19.772
19.768	21.284	19.894	19.922	19.914	19.989	21.183	20.088
21.825	20.248	22.667	21.355	20.961	20.443	20.165	19.888
20.512	21.277	19.612	20.074	21.354	20.431	19.802	24.29
23.131	21.284	22.309	20.807	23.989	20.021	20.283	20.303
19.863	19.442	21.436	19.918	20.239	19.366	23.197	19.545
19.369	23.31	20.743	21.649	20.05	22.334	23.863	20.924
21.495	20.267	20.151	20.848	22.803	21.459	26.268	21.591
22.283	21.188	20.169	20.181	19.826	20.753	20.536	20.462
20.17	20.654	20.686	20.622	19.399	20.256	19.986	20.563
19.958	19.631	19.915	20.142	22.592	21.329	20.445	20.916
19.86	22.746	21.319	19.93	25.859	21.58	22.69	21.705
20.627	20.849	21.338	22.703	20.033	20.39	22.307	20.026
21.066	20.208	20.011	20.533	20.066	22.481	21.651	22.016
22.264	21.985	22.267	21.563	21.014	20.098	19.972	20.696
20.571	19.812	25.655	22.22	22.474	22.006	22.526	20.726
20.891	21.417	19.952	21.341	24.023	19.765	21.327	20.064
21.788	20.133	20.014	19.723	20.561	19.983	20.658	22.183
20.059	20.061	20.811	20.364	19.918	23.106	20.51	22.178
24.644	21.397	22.76	22.386	19.917	20.096	20.701	20.73
19.922	20.453	20.099	19.696	22.202	20.163	20.372	20.786
19.982	23.456	21.543	20.429	20.543	22.371	22.411	20.912

```

-----
max val(#40) = 37.51us
min val(#144) = 18.59us
peak-to-peak = 18.92us
mean +- RMS = 20.76 +- 1.77 us

```

```

packet size: 512
number of packets: 1024
RATE = 4.10kbps, PPS = 1.0

```

2.3.2 AF_PACKET, 128 PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t ptpl2 -m tx-lat -n 1024 --pps=128 -l 512 -a 18:03:73:66:87:42
SIOCGHWTSTAMP: tx_type was 1; rx_filter was 0
SIOCShWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x53
new ts_flags: 0x53
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

35.431	19.039	17.967	17.966	18.249	18.119	17.71	18.484
18.008	18.109	18.071	18.062	18.012	18.523	18.126	17.679
18.174	17.845	19.896	17.415	18.553	18.352	17.967	17.877
18.014	17.562	17.491	17.401	18.081	18.087	17.651	17.967
17.722	18.721	17.825	18.117	18.489	18.179	17.573	17.55
17.615	17.897	19.114	17.615	17.619	17.799	18.681	17.846
17.807	17.723	18.413	17.972	17.631	17.597	17.946	18.059
17.566	17.862	18.501	18.318	18.005	17.684	17.765	17.925
17.58	21.371	18.622	17.588	17.969	17.431	17.452	19.078
17.854	17.883	17.842	17.684	18.022	17.844	17.83	17.276
18.015	18.076	17.865	17.694	20.489	18.93	17.745	17.734
17.813	17.774	17.519	17.59	17.86	17.866	17.411	17.706
17.631	18.537	18.02	17.913	17.881	17.946	17.694	17.837
17.866	17.744	17.712	17.58	17.65	18.01	18.481	18.108
17.802	17.651	17.932	19.948	17.942	17.704	17.352	17.72
17.693	17.938	18.688	18.465	17.678	17.745	18.014	17.995
17.687	17.833	17.487	17.673	18.141	17.842	17.947	18.258
18.47	18.108	17.894	17.603	18.212	17.792	17.806	17.542
17.545	18.014	17.957	17.881	18.513	18.594	18.047	18.149
17.889	17.419	17.782	17.582	17.791	17.858	17.711	18.833
22.11	18.514	18.039	17.657	17.978	18.14	17.489	18.043
17.761	18.169	17.792	17.677	17.372	17.538	18.24	17.887
17.904	17.582	19.909	17.682	17.448	17.697	17.995	18.219
17.674	17.887	17.895	18.73	18.061	17.74	18.523	18.261
17.845	18.969	17.679	17.666	17.416	19.686	17.864	18.462
18.015	18.093	18.071	17.454	18.637	17.859	17.883	19.56
17.933	17.867	17.645	17.93	18.261	18.424	18.251	18.037
17.609	17.705	17.995	17.874	17.879	17.838	17.879	17.651
17.74	18.682	18.018	17.888	17.806	18.097	17.831	17.838
17.736	17.881	17.526	17.582	17.73	17.597	18.601	17.497
17.681	19.821	18.116	17.914	17.486	17.705	17.643	17.923
17.721	17.553	17.744	18.529	18.177	17.595	17.408	17.788
18.042	17.608	17.926	17.8	17.416	17.861	17.579	17.583
18.257	17.922	17.956	17.752	18.135	17.736	17.405	17.323
17.778	17.853	17.667	17.455	18.584	18.184	17.862	17.909
17.545	17.356	18.47	17.515	17.564	17.77	17.314	17.556
17.793	18.561	17.716	17.655	17.629	17.927	17.36	17.75
18.157	17.899	17.73	17.62	17.841	17.596	18.699	18.227
17.829	17.999	17.967	17.61	17.642	17.411	17.833	17.476
17.445	17.856	17.717	18.315	18.118	17.692	18.168	18.172
17.487	17.789	17.278	18.479	18.049	17.764	17.398	17.845
20.684	17.999	17.941	17.346	17.553	17.834	17.686	17.239
17.573	21.997	18.211	17.964	18.614	17.943	19.839	17.978
17.85	17.578	17.822	17.845	18.07	17.464	17.834	17.517
17.687	19.412	19.083	18.206	18.25	17.83	17.663	17.825
17.426	17.907	17.823	17.804	17.782	17.734	20.262	18
18.152	17.954	18.177	18.026	17.58	17.71	17.836	17.885
17.658	17.804	17.85	18.848	18.325	17.657	17.957	17.919
18.315	18.197	17.527	17.804	17.786	17.705	17.482	17.884
18.603	20.349	17.947	17.503	17.721	17.856	17.756	17.583
17.976	17.715	17.803	17.923	17.791	18.279	18.1	17.844
17.976	18.101	17.776	17.764	17.866	17.646	17.647	18.335
17.884	18.553	17.956	18.115	18.138	18.114	17.778	17.69
17.898	18.811	17.492	17.725	17.766	17.785	18.698	17.996
18.093	18.311	18.051	18.2	18.012	17.633	17.83	17.683
18.057	17.301	17.666	18.553	18.146	17.712	18.21	18.025
18.091	19.228	18.447	17.78	18.046	21.186	17.796	17.886
18.651	19.342	18.041	19.021	18.039	18.139	17.927	18.116
17.859	17.726	18.026	17.783	17.897	18.387	18.143	18.055
18.021	17.655	17.904	18.07	17.605	17.547	17.883	21.495
17.922	17.692	19.185	20.15	18.226	17.94	17.762	21.456
17.998	17.965	18.026	17.973	17.426	17.812	18.788	17.661
18.292	18.044	17.819	17.813	17.764	17.839	17.685	17.567
17.455	17.756	18.133	18.787	19.356	17.948	17.834	18.111
19.739	17.879	17.872	17.868	17.655	17.587	18.1	17.748
18.41	18.998	17.924	18.151	17.862	18.032	17.79	17.957
17.886	17.923	17.998	17.981	17.932	18.638	18.462	18.376
18.053	17.86	18.256	17.823	18.002	17.649	17.762	17.949
18.031	17.846	18.813	19.546	18.499	18.396	18.043	17.945
17.992	17.285	17.818	17.933	17.724	17.979	18.324	17.828
18.22	17.978	17.748	18.358	18.024	17.639	19.816	17.903
18.09	18.166	18.101	18.872	18.264	17.719	18.029	17.953
18.096	18.532	19.874	18.639	17.767	18.65	17.66	17.801
18.831	19.549	18.381	17.708	17.904	18.04	17.736	17.57
18.053	17.896	17.805	17.895	17.745	18.569	18.273	18.075
17.906	17.902	18.093	17.646	18.124	17.786	17.699	18.125
17.93	17.618	18.488	18.162	17.966	18.289	17.636	18.145
17.86	18.055	17.948	17.959	17.96	17.829	17.807	18.584
18.145	19.826	17.881	17.842	17.686	17.811	17.873	20.051
17.572	17.526	17.911	18.68	18.32	18.142	18.084	18.055
18.272	17.529	17.554	17.878	18.002	17.668	17.901	17.728
18.545	18.088	17.797	17.689	18	18.119	17.681	17.542
18.041	18.058	18.044	17.748	17.469	18.868	18.404	17.775
17.89	17.663	18.104	17.848	18.117	17.764	18.015	17.843
19.828	18.022	18.575	18.032	18.243	17.873	17.423	18.006
18.078	18.385	18.232	18.016	17.62	18.244	17.882	18.652
18.027	18.261	17.896	18.257	18.098	17.811	17.943	18.094
19.464	17.917	18.091	18.16	18.797	17.818	18.565	18.331
18.441	18.027	17.773	17.919	17.79	22.115	18.056	17.967
18.687	18.35	17.831	17.833	18.045	18.2	17.692	18.086
17.792	17.765	17.631	17.514	17.709	18.719	18.274	18.265
18.163	17.806	18.015	17.877	17.98	18.188	17.799	17.907
18.102	18.103	18.567	19.735	17.776	18.138	17.554	17.879
17.944	17.662	17.787	17.744	17.832	18.003	18.163	18.813
20.141	18.026	20.125	18.207	17.95	17.866	18.017	17.702
17.757	17.902	17.92	17.94	18.694	17.874	18.08	18.199
17.841	17.574	17.639	18.29	17.781	20.288	17.946	18.082
18.416	18.435	17.879	18.138	18.166	18.163	17.718	17.59
18.004	18.059	17.915	18.018	17.942	18.611	18.499	18.247
18.027	17.451	17.89	17.735	17.833	18.158	18.172	17.887
17.964	17.684	20.551	18.215	18.222	17.945	17.75	18.153

17.897	17.886	18.173	17.727	17.641	17.875	18.249	20.124
18.289	18.104	17.854	17.931	17.594	17.879	17.683	18.216
17.878	17.512	18.029	17.835	18.863	18.094	18.307	18.023
17.976	18.97	17.803	18.285	18.169	18.082	17.901	17.821
17.762	18.605	18.272	17.952	18.025	17.8	17.799	17.443
17.764	18.194	17.846	18.089	17.777	18.48	18.085	17.959
18.205	17.801	17.818	17.875	18.003	17.79	18.092	17.734
18.06	17.907	18.715	18.147	18.123	17.974	17.784	18.178
17.712	17.764	17.643	18.075	17.751	17.772	17.918	18.482
18.014	18.491	17.93	18.121	17.756	17.709	17.92	17.997
18.248	17.7	18.025	17.906	18.651	18.056	18.164	18.022
17.911	17.908	17.749	17.813	17.837	17.848	17.688	17.813
17.939	18.463	18.271	17.612	17.893	17.993	17.706	17.484
18.099	17.787	17.532	17.775	17.883	17.718	18.625	18.063
17.702	17.655	17.982	17.529	18.022	17.695	17.927	17.561
17.862	19.698	18.696	17.901	17.931	18.129	17.458	17.981
17.883	17.458	17.595	17.708	17.585	17.647	17.936	18.417
17.985	17.968	17.545	18.071	17.844	17.778	17.816	18.028
17.288	17.647	17.767	17.679	18.516	17.835	18.104	17.969
18.255	18.705	17.592	17.956	17.395	17.681	17.535	17.45
18.643	18.533	18.055	17.976	17.64	17.871	17.549	17.449
17.537	17.733	18.184	17.7	17.483	17.761	20.058	18.514
18.081	17.858	17.544	17.897	18.133	17.509	17.209	17.76
17.729	18.012	18.341	18.171	17.682	17.998	17.438	19.605
17.726	17.719	17.847	17.735	17.748	17.662	17.742	18.251
18.254	18.065	17.574	17.914	17.816	17.892	17.899	17.601
17.74	17.649	17.742	17.738	18.72	18.043	17.749	17.963

```

max val(#0) = 35.43us
min val(#990) = 17.21us
peak-to-peak = 18.22us
mean +- RMS = 18.05 +- 0.78 us

```

```

packet size: 512
number of packets: 1024
RATE = 524.29kbps, PPS = 128.0

```

2.4 AF_INET “socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP)”

2.4.1 AF_INET, 1 PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t ptpl4 -m tx-lat -n 1024 --pps=1 -l 512 -a 18:03:73:66:87:42
Destination address is set to 224.0.1.129
SIOCGHWSTAMP: tx_type was 1; rx_filter was 0
SIOCASHWSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x8d3
new ts_flags: 0x8d3
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

60.229	38.22	31.299	32.167	30.4	31.313	28.333	32.67
32.067	28.409	30.668	28.998	29.972	32.181	28.789	30.791
30.056	28.792	41.082	31.777	29.829	29.452	28.385	32.055
28.706	29.524	29.6	28.806	30.152	27.969	28.312	30.733
31.164	30.97	29.835	28.535	29.233	28.644	33.004	27.805
29.122	28.286	29.831	32.143	29.204	29.606	28.801	28.068
37.308	33.174	31.978	28.71	29.436	31.702	28.575	30.62
28.669	28.185	30.142	27.569	28.213	28.243	29.933	30.498
30.552	29.408	27.946	28.327	30.851	27.654	30.153	28.792
28.219	32.885	28.529	30.649	28.178	27.946	30.538	39.917
30.573	29.113	30.123	30.592	27.832	29.7	29.74	27.931
32.137	30.226	30.781	28.691	31.456	29.876	30.482	29.516
32.234	31.836	32.744	28.618	30.494	29.936	28.176	31.571
27.995	28.834	28.733	30.562	30.932	37.907	30.391	28.598
31.172	30.803	31.345	32.371	27.842	28.253	29.742	28.495
28.693	30.539	29.606	29.81	28.682	28.958	30.123	28.792
28.818	28.122	28.513	27.437	30.032	31.207	27.533	30.321
29.838	27.571	29.403	38.193	31.917	28.691	31.774	30.527
29.685	29.786	27.533	30.343	32.282	28.207	27.808	28.632
32.737	30.878	29.142	30.26	28.103	28.744	31.903	31.193
31.911	28.277	28.297	32.913	28.995	30.262	29.079	27.96
30.123	36.258	31.791	32.579	32.035	32.076	27.854	30.461
28.287	30.325	31.375	28.373	28.269	28.952	29.9	28.658
28.992	28.752	29.923	28.422	28.18	28.015	28.176	27.548
31.634	32.32	27.553	31.16	29.777	27.62	31.127	30.885
39.448	28.693	30.93	31.33	27.192	31.109	30.364	29.593
30.397	28.106	29.956	28.875	32.68	29.367	31.111	31.058
31.853	32.006	35.663	28.146	30.994	28.305	28.1	31.436
28.048	30.351	29.758	28.01	28.985	28.729	37.163	30.643
29.633	30.871	27.895	29.627	31.137	28.518	30.643	28.123
30.201	28.805	29.107	29.03	28.952	28.817	27.788	28.88
29.761	29.643	31.45	28.293	30.23	31.246	30.159	29.691
28.848	29.835	29.35	29.064	37.571	30.674	31.37	32.325
29.887	30.185	29.851	32.078	31.531	28.461	30.276	31.532
31.421	31.074	30.271	31.559	30.438	28.363	32.891	27.877
29.467	29.091	27.569	31.05	30.088	28.578	28.637	28.388
29.505	28.716	36.457	32.385	31.708	32.448	28.592	30.391
27.966	29.269	30.45	29.709	29.699	31.181	28.342	30.19
29.611	29.676	27.979	28.292	29.785	29.443	30.384	29.499
30.211	32.085	30.119	30.862	29.918	28.366	31.049	29.623
31.188	36.795	30.429	31.855	33.013	29.964	28.558	28.958
29.961	29.212	29.252	29.155	31.123	31.315	28.907	29.517
31.18	29.146	33.892	29.135	32.136	29.241	28.614	30.835
28.792	30.322	28.84	28.428	29.688	28.375	29.475	37.687
30.737	31.823	29.239	30.989	28.025	28.381	29.873	29.605
28.735	28.151	28.255	29.074	31.16	29.531	28.301	31.082
29.816	29.033	29.13	28.193	30.482	30.51	27.923	31.35
29.393	28.806	29.863	27.954	28.4	36.704	31.178	31.923
29.731	31.143	29.122	30.297	30.239	30.281	28.27	27.783
31.572	29.444	28.473	28.497	27.837	28.221	33.085	29.411
29.766	30.724	27.88	30.293	30.457	29.474	28.509	30.297
29.214	29.24	28.975	36.284	34.147	31.854	28.158	30.046
29.126	28.598	31.563	30.458	28.764	27.685	27.436	29.262
30.208	28.214	29.792	31.725	29.975	28.845	30.098	29.105
31.073	30.665	32.178	30.273	30.363	28.516	30.623	28.561
28.331	28.22	37.582	30.562	30.924	30.032	28.164	28.605
33.118	28.684	31.086	29.104	30.296	30.377	29.661	28.627
32.255	31.697	33.668	28.782	30.721	28.228	28.267	31.928
27.847	31.541	30.929	28.386	29.217	29.039	28.564	31.717
36.995	32.52	29.867	29.586	30.989	31.685	32.54	28.516
28.699	29.045	29.731	29.848	28.844	29.065	30.189	28.455
29.447	30.844	32.578	30.133	32.001	32.697	30.361	29.995
29.43	28.731	29.883	28.322	27.726	30.125	38.627	32.721
29.377	33.043	28.684	29.066	30.646	28.449	28.859	29.698
31.381	30.39	31.57	29.569	27.895	29.795	32.634	29.748
30.703	28.362	28.115	31.445	30.097	30.714	28.411	28.972
30.31	28.284	28.645	28.165	38.415	33.445	29.387	32.254
28.384	28.49	31.368	27.971	28.58	28.825	27.618	29.943
29.779	28.337	30.321	30.729	30.179	27.98	28.467	28.414
30.526	30.835	27.572	32.304	30.786	29.992	31.443	30.19
27.798	30.545	28.549	38.092	29.377	31.424	28.808	27.782
34.189	30.289	29.146	29.981	31.564	31.308	30.117	28.713
32.26	31.038	34.092	29.656	30.28	28.501	27.693	31.193
28.933	29.738	29.034	29.116	29.575	28.513	28.839	29.966
28.17	38.883	29.409	31.11	28.056	27.91	32.577	30.459
28.058	29.182	30.377	28.786	29.158	29.305	27.545	28.058
29.059	28.049	31.153	29.417	29.809	31.568	28.745	29.819
29.127	29.182	28.986	28.669	31.637	28.168	28.399	36.602
31.449	31.085	28.711	28.155	32.144	31.36	29.432	28.905
31.209	30.756	31.762	29.003	30.791	28.908	33.96	29.656
29.166	30.765	28.238	30.106	27.809	32.182	28.948	27.929
28.403	28.684	30.579	27.863	28.948	38.295	29.986	31.837
30.204	28.407	32.242	28.44	27.889	28.793	28.154	28.762
29.184	29.659	29.385	28.484	29.319	27.417	28.616	27.574
33.008	31.919	29.096	31.438	28.557	29.178	29.61	29.039
30.995	27.621	32.921	31.121	38.186	32.585	28.787	28.727
33.147	30.426	30.644	28.569	31.064	32.317	29.138	29.188
33.056	30.688	33.855	29.694	31.263	28.555	29.163	32.253
28.485	29.515	28.388	28.317	30.709	30.813	30.546	30.197
29.741	29.311	37.352	33.446	29.231	28.434	33.094	28.404
29.555	28.977	27.777	30.924	30.449	29.275	28.082	28.353
29.846	28.013	28.466	29.922	30.145	30.499	28.434	30.813
31.659	29.531	30.512	28.643	29.227	28.367	29.797	29.481
39.506	31.268	28.926	28.175	33.309	28.888	30.925	28.492
32.292	32.146	29.535	29.027	31.94	29.108	33.315	28.244
29.452	28.85	29.694	31.717	28.47	30.607	32.483	28.399
29.817	28.787	30.055	29.882	30.16	29.248	37.577	33.993

31.089	28.987	34.167	29.866	29.205	29.124	27.732	31.38
29.084	28.788	27.653	28.219	29.016	30.097	29.513	27.994
30.716	30.629	28.263	30.416	28.297	29.812	30.525	28.281
28.595	28.385	27.989	28.762	27.723	38.143	29.095	28.241
35.361	27.925	31.289	28.639	31.973	31.417	30.617	28.946
33.421	31.53	32.335	30.374	30.378	28.379	28.472	30.545
27.699	29.439	28.865	28.746	28.839	28.901	31.116	28.504
30.239	29.247	27.94	40.495	30.548	29.489	31.617	28.616
31.724	29.796	27.77	29.812	31.452	28.649	30.238	29.429
30.095	30.451	28.824	28.25	30.645	33.391	30.321	33.605
29.043	29.139	30.569	28.492	30.409	27.829	30.375	29.041
29.519	38.926	29.969	28.937	32.943	28.135	32.369	29.931
31.674	30.405	31.421	30.109	31.659	30.297	32.69	29.729
31.632	30.067	28.383	32.147	27.435	29.286	28.794	28.849
29.737	28.773	28.594	30.553	28.659	28.906	28.191	37.963
29.968	29.904	33.377	28.271	29.462	31.092	29.847	29.897
29.546	28.635	28.028	29.131	29.98	28.71	30.856	27.991
30.663	31.193	28.39	30.539	28.64	28.191	30.388	30.423
31.695	28.351	28.465	29.847	27.887	30.688	36.539	29.522
32.925	28.785	29.416	32.727	32.816	32.483	32.137	29.887
31.403	30.851	32.521	28.457	31.315	30.493	27.959	31.126
29.037	29.387	28.138	29.404	29.508	29.369	30.139	27.921
28.546	29.739	27.542	28.339	39.968	30.716	33.664	30.9
29.073	29.719	28.985	29.605	28.606	29.331	28.572	29.173
29.442	30.043	29.91	29.197	32.699	30.706	28.691	31.324
28.213	30.654	29.54	29.129	30.13	29.796	30.776	29.089
27.596	28.839	37.325	30.688	33.105	29.643	31.251	30.281
32.751	30.479	29.845	29.251	30.377	28.875	32.111	28.398
29.813	28.453	29.653	30.426	28.722	28.819	31.594	29.616
30.235	29.065	30.521	27.962	30.509	31.381	29.447	28.829
38.345	30.089	33.269	28.955	29.417	29.294	28.301	29.421

```

-----
max val(#0) = 60.23us
min val(#204) = 27.19us
peak-to-peak = 33.04us
mean +- RMS = 30.15 +- 2.29 us

```

```

number of packets: 1024
RATE = 0.00kbps, PPS = 1.0

```

2.4.2 AF_INET, 128 PPS

```
root@am57xx-evm:~# phc2sys -s CLOCK_REALTIME -c eth0 -m -O 0 > /dev/null &
root@am57xx-evm:~# ./plget -i eth0 -t ptpl4 -m tx-lat -n 1024 --pps=128 -l 512 -a 18:03:73:66:87:42
Destination address is set to 224.0.1.129
SIOCGHWTSTAMP: tx_type was 1; rx_filter was 0
SIOCShWTSTAMP: tx_type 1 requested, got 1; rx_filter 0 requested, got 0
setting ts_flags: 0x8d3
new ts_flags: 0x8d3
```

complete tx latency, us (includes driver latency and stack latency, app -> wire): packets 1024:

55.144	28.28	24.133	25.694	25.288	25.583	25.237	26.095
26.789	27.527	25.159	25.988	25.271	26.224	26.578	25.317
29.224	24.911	25.293	25.256	25.426	26.828	25.889	25.322
25.031	24.886	25.351	26.081	24.897	27.786	25.174	24.201
25.229	25.063	24.856	25.372	24.235	24.48	25.557	25.258
24.33	25.452	25.096	24.713	24.888	24.203	24.507	25.019
25.776	32.485	25.108	27.642	25.028	25.379	26.522	24.969
25.279	24.875	24.759	24.549	24.813	24.919	24.888	24.487
24.736	25.024	24.98	24.611	24.488	26.571	25.256	25.355
24.459	24.463	25.229	25.094	24.85	24.658	26.985	24.936
25.183	24.986	26.167	24.987	25.433	24.701	24.444	25.039
26.682	25.192	24.974	24.058	25.169	25.335	24.648	24.594
24.451	24.592	25.178	24.972	24.493	28.216	25.089	25.192
24.479	25.309	25.144	24.884	25.122	24.347	25.284	25.072
24.496	25.536	24.87	24.911	24.858	24.881	24.505	24.771
26.86	24.964	24.969	24.5	24.505	25.108	24.89	25.516
25.036	27.086	25.163	25.171	24.557	25.202	25.291	25.575
24.145	24.969	25.391	24.73	25.287	24.457	24.813	25.407
25.31	24.897	24.419	25.023	24.816	25.198	24.903	24.981
26.958	25.255	25.094	24.546	25.103	29.149	25.38	24.172
25.258	29.798	25.34	25.032	24.457	24.631	25.079	29.668
24.587	24.866	25.04	25.32	24.675	24.42	25.478	24.671
25.36	30.533	24.055	25.685	25.357	25.295	24.423	28.217
24.841	25.08	25.319	24.58	25.373	25.011	24.709	24.665
24.98	24.816	25.161	26.808	24.411	25.799	25.228	24.936
24.6	24.713	24.806	25.152	25.138	24.281	25.292	27.399
24.749	24.888	24.545	24.846	24.957	24.986	24.277	25.252
24.86	24.674	25.089	25.138	24.719	25.115	25.01	24.317
25	25.486	24.918	25.137	24.412	27.07	25.32	25.142
24.48	25.137	24.925	24.909	24.653	24.329	25.586	24.986
25.627	24.951	24.589	25.092	27.371	25.109	24.888	27.199
25.553	25.396	26.758	24.534	24.937	25.222	24.811	24.767
25.288	25.088	24.976	25.032	24.31	25.1	24.663	25.154
24.043	24.839	25.738	24.751	24.972	24.727	25.109	24.675
25.484	25.42	24.443	25.392	25.265	24.881	24.424	25.021
24.551	25.161	25.401	24.475	25.378	27.578	24.789	24.485
24.651	25.017	25.24	25.417	24.373	24.812	25.379	24.877
24.644	25.258	25.077	25.173	24.864	24.441	25.227	25.382
24.87	29.341	28.548	28.269	25.556	26.06	24.161	26.644
27.572	25.144	25.696	24.551	25.033	25.398	25.029	26.308
25.586	29.637	26.769	25.629	24.868	25.04	25.041	25.168
24.483	24.901	25.048	25.06	24.868	24.671	25.112	25.36
25.168	25.071	24.575	24.878	26.848	24.988	24.703	24.908
27.176	25.717	27.205	24.38	25.05	25.219	24.979	24.762
24.961	25.589	25.213	27.813	24.614	27.551	24.685	25.256
24.451	24.691	25.399	25.192	24.883	24.829	25.365	25.534
25.209	24.843	24.446	25.14	25.044	24.544	24.489	25.463
25.019	27.325	27.325	24.454	24.936	27.591	24.65	24.3
25.454	24.889	25.283	25.252	24.086	25.174	24.911	24.842
24.548	24.961	24.69	25.02	24.888	24.147	25.146	25.123
25.162	25.274	24.543	24.979	25.455	25.029	24.089	25.6
25.265	25.171	25.273	24.515	24.999	27.631	25.41	24.474
25.297	25.158	25.032	25.366	24.462	24.736	25.175	25.319
24.443	25.185	25.778	24.941	25.198	24.995	24.896	25.122
25.275	24.619	30.605	27.267	25.071	25.397	24.696	24.924
25.858	25.18	24.779	24.907	25.538	25.025	25.131	24.765
24.738	25.661	25.18	25.243	24.628	25.116	25.342	25.1
24.721	24.86	27.078	25.305	25.061	24.3	24.994	24.604
25.436	25.388	24.389	25.205	25.083	24.794	24.602	27.219
24.691	25.003	25.066	24.187	25.458	25.365	24.859	24.803
25.577	24.739	25.595	24.982	24.583	27.643	25.386	25.247
24.769	25.207	25.467	25.339	25.402	24.27	24.929	25.013
24.861	25.192	24.828	24.747	25.363	25.116	24.55	24.77
25.027	25.293	25.119	24.485	25.109	24.936	25.249	24.032
25.002	25.327	24.973	25.615	25.164	24.795	25.354	25.131
24.256	25.193	25.004	25.038	25.23	24.61	24.729	25.172
25.292	24.737	24.752	25.074	24.931	25.739	25.039	24.456
25.225	24.878	24.85	24.92	25.547	27.131	27.673	24.639
26.974	25.629	25.258	25.119	24.749	25.218	26.176	29.647
24.661	25.156	25.326	25.447	25.066	24.535	25.095	25.108
25.3	25.741	30.603	25.046	25.326	29.075	26.652	25.589
25.109	25.351	25.921	24.5	25.384	25.758	25.29	24.498
27.758	25.091	25.467	25.287	24.586	25.236	25.237	25.254
24.753	25.283	25.02	25.194	25.346	24.218	25.466	24.993
24.922	25.266	24.402	24.916	27.087	25.27	24.278	25.593
25.315	24.914	25.288	24.61	24.889	25.752	25.405	24.273
25.179	25.339	24.977	25.592	24.407	27.43	25.459	25.219
24.204	25.467	25.607	24.75	24.915	24.541	24.745	25.252
25.413	25.123	24.695	25.055	25.002	25.193	24.543	24.785
25.305	25.135	25.246	24.315	25.746	25.155	25.174	24.61
24.75	25.25	25.643	24.798	24.371	25.595	25.219	25.02
26.944	25.032	24.728	24.99	24.84	24.849	25.208	24.704
28.195	25.305	24.073	25.057	25.374	24.654	24.462	25.029
26.793	25.086	25.091	24.365	25.462	25.291	28.468	24.515
25.145	25.247	24.967	25.351	24.353	24.643	25.08	24.669
24.521	25.253	24.79	25.057	25.011	24.296	24.834	25.094
24.76	25.183	28.378	27.155	25.264	25.15	24.535	24.762
24.98	24.967	25.183	24.612	24.825	25.676	25.164	24.606
29.114	25.131	27.02	24.99	24.243	24.936	25.745	25.236
24.45	24.944	25.079	24.751	25.259	24.628	24.815	25.134
25.137	24.654	24.594	25.223	25.077	25.038	24.543	25.006
24.969	24.997	24.745	25.152	25.202	25.045	24.834	24.685
24.913	25.691	24.724	25.03	24.778	27.638	24.904	24.996
24.707	25.593	25.292	24.995	24.752	24.387	25.24	24.368
25.049	24.811	24.251	24.945	25.234	24.856	24.64	25.263
24.525	24.833	25.328	24.142	24.957	25.437	25.09	24.815
24.957	24.841	24.789	25.037	24.148	24.905	24.785	25.058
24.532	24.921	24.982	25.057	25.138	24.006	25.232	24.678
25.158	25.452	24.819	24.969	25.327	25.306	24.336	25.251
25.086	24.689	25.283	24.753	24.72	24.959	29.028	24.265

24.861	25.386	24.721	25.079	24.562	24.768	25.015	24.851
24.2	25.145	24.976	24.871	25.341	24.595	24.823	25.914
25.201	25.078	29.278	27.034	25.241	24.938	24.447	24.988
25.477	25.777	25.082	24.632	27.24	25.189	25.293	24.387
25.409	25.284	25.464	24.752	24.782	25.078	24.708	25.139
24.569	24.884	25.258	25.428	24.992	24.345	25.101	25.002
25.034	25.633	24.213	25.212	25.729	24.926	24.727	25.782
25.045	25.23	25.025	24.311	25.059	25.152	24.953	24.586
25.457	25.1	25.283	25.134	24.13	27.516	25.639	24.766
24.397	25.445	24.897	25.024	25.221	24.217	24.739	25.113
24.755	25.219	24.484	24.828	25.004	25.138	24.141	24.961
25.172	25.023	25.178	24.504	24.725	25.108	24.918	24.397
24.997	25.466	24.914	25.064	24.62	25.065	25.106	25.022
24.377	25.797	25.146	26.845	25.221	25.877	26.918	24.967
25.424	25.045	24.582	24.876	24.586	25.413	24.463	24.721
25.28	25.553	24.997	24.449	25.001	24.967	27.59	24.4
24.714	25.013	24.959	27.043	24.045	25.279	25.072	25.08
28.032	25.189	25.351	27.823	25.011	24.48	25.142	25.373
25.326	25.577	28.31	25.099	25.162	24.917	24.429	24.903
24.701	25.142	25.65	24.459	25.048	25.507	24.703	24.218
27.531	24.565	25.647	25.429	26.19	27.29	24.948	25.409
24.554	25.276	25.253	25.425	25.06	24.148	25.286	25.53
24.85	27.286	24.275	24.681	25.211	25.304	23.945	25.016
25.235	25.048	24.791	24.932	24.788	25.009	25.436	24.215
25.201	25.167	25.092	25.665	24.954	27.236	25.132	25.178
24.281	25.248	24.861	24.663	25.237	24.412	24.987	25.317
25.365	25.079	24.403	24.794	24.918	25.053	24.398	25.028
25.211	25.373	24.919	24.437	25.219	25.033	25.133	24.564

```

max val(#0) = 55.14us
min val(#982) = 23.95us
peak-to-peak = 31.20us
mean +- RMS = 25.25 +- 1.31 us

```

```

number of packets: 1024
RATE = 0.00kbps, PPS = 128.0

```

3 Rx complete latency (“driver” latency + “af_xdp stack” latency)

3.1 AF_XDP “socket(AF_XDP, SOCK_RAW, 0)”

3.1.1 AF_XDP, 1 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t xdp_ptpl2 -m rx-lat -n 1024
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCASHWTSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

32.677	23.261	23.18	29.824	26.248	23.629	29.32	23.181
24.396	29.141	23.038	23.547	28.756	25.679	24.995	28.461
22.963	23.373	32.522	24.643	23.711	29.578	23.183	22.82
30.569	23.737	29.569	23.558	23.128	29.82	22.959	23.473
35.063	22.989	26.452	24.256	30.64	23.297	28.943	23.66
23.389	29.127	23.74	23.591	32.115	23.106	23.345	29.293
23.792	23.742	32.901	23.655	23.834	28.634	23.061	23.282
28.557	23.192	23.245	29.382	23.838	23.192	28.853	23.325
29.284	23.254	25.423	27.967	24.206	24.41	30.71	23.902
23.252	30.081	26.413	24.285	30.371	24.177	24.013	30.461
24.472	24.128	32.636	23.965	24.777	35.728	24.542	23.776
29.85	24.52	23.482	32.209	24.703	24	30.188	24.498
22.91	31.004	25.556	22.968	31.398	26.036	36.354	25.932
28.21	38.149	26.304	26.646	36.045	25.847	25.918	35.52
25.4	26.507	41.322	26.405	25.014	31.117	25.917	26.524
29.498	22.972	23.525	28.82	23.983	23.044	28.847	22.871
23.222	29.992	26.415	23.299	29.825	23.109	25.731	29.914
22.965	23.547	28.524	23.682	30.402	23.307	22.834	28.379
23.51	24.499	32.03	23.069	24.041	25.573	26.442	35.94
26.055	25.935	27.039	37.1	25.543	25.354	35.79	26.013
28.446	35.387	26.247	26.66	33.395	26.309	25.98	29.364
26.442	26.173	31.466	25.166	25.94	28.588	23.205	23.352
32.307	23.834	33.16	23.192	23.358	28.354	23.159	24.175
29.816	24.378	22.592	28.915	24.027	23.335	33.226	22.909
26.406	33.537	24.076	25.193	29.827	23.569	23.118	34.098
23.671	23.15	28.583	25.835	26.049	36.271	25.77	25.883
39.257	27.657	27.21	37.45	26.669	25.631	35.18	25.043
32.064	25.863	25.85	28.833	25.928	25.893	28.528	25.67
29.057	34.497	26.616	23.971	30.591	24.164	23.885	29.005
22.925	22.987	31.175	23.196	22.938	29.2	23.17	23.417
30.999	23.784	23.198	33.226	23.24	24.095	28.903	23.311
23.484	28.925	23.923	23.033	28.55	23.936	30.131	24.733
29.645	37.021	25.69	26.358	36.702	26.464	25.9	35.465
26.052	26.555	36.834	26.148	25.795	37.718	26.444	23.517
32.582	23.948	24.511	35.368	25.22	25.506	36.448	23.691
23.496	33.309	23.713	23.534	29.853	23.516	25.902	30.052
25.726	23.723	28.696	23.097	23.197	29.926	23.585	33.971
23.078	23.23	33.483	22.707	22.889	29.84	23.405	23.522
31.656	24.707	23.528	29.428	27.32	27.564	36.826	24.153
26.132	35.742	25.709	25.591	37.785	27.498	25.843	36.96
28.619	26.294	36.046	26.239	25.857	32.33	23.694	25.151
31.543	23.744	29.22	23.345	22.77	33.882	23.634	23.633
31.42	22.922	23.563	28.965	23.584	23.743	28.932	23.449
23.322	29.54	25.36	23.577	33.637	23.779	24.12	27.977
25.521	23.187	29.454	23.03	23.765	29.872	23.488	23.948
36.317	26.013	23.447	36.635	25.556	23.468	35.884	25.477
33.223	27.136	26.355	28.903	25.977	26.405	34.099	23.276
27.461	32.153	26.238	26.747	29.259	25.424	23.823	32.902
26.636	23.672	29.12	23.316	23.616	29.493	23.832	23.479
29.096	23.231	24.23	29.056	23.184	23.804	33.732	23.195
25.021	29.032	23.308	22.552	35.308	23.954	29.402	25.121
24.528	30.862	23.951	23.292	29.389	23.059	26.752	36.486
25.822	25.786	35.733	23.738	25.277	35.656	23.969	25.981
36.977	23.868	25.493	33.288	23.475	26.135	29.586	23.598
25.856	28.955	23.637	23.796	28.277	25.615	24.739	29.8
24.534	23.274	28.112	24.096	28.685	24.036	23.634	28.699
25.588	23.109	24.337	34.444	22.723	35.18	23.65	23.519
34.527	23.265	23.804	29.204	23.184	23.232	29.331	23.65
26.681	36.679	26.202	28.807	37.476	27.158	26.782	37.553
25.661	25.004	38.29	22.926	25.245	36.112	26.325	25.692
38.716	23.65	29.292	24.173	26.822	29.723	23.921	24.496
30.063	24.29	23.701	28.446	22.861	23.267	28.299	24.264
25.856	32.027	24.276	23.098	28.424	23.65	22.537	34.59
23.297	23.449	33.275	23.483	23.266	30.064	23.005	24.212
31.371	23.697	23.922	29.68	23.791	23.239	31.102	25.645
37.194	25.911	25.018	29.99	26.616	25.948	34.975	24.765
30.701	36.972	26.367	23.621	36.079	25.956	25.964	31.671
25.794	25.373	30.731	25.429	24.986	32.809	23.273	30.27
36.55	23.892	24.05	28.732	23.894	24.327	29.292	23.967
24.062	27.726	22.939	22.654	28.075	22.755	24.666	35.553
25.746	34.211	22.842	22.845	29.074	24.25	22.695	29.33
23	23.712	29.406	23.305	25.841	36.472	26.195	26.011
39.834	26.043	26.392	36.757	26.828	25.981	36.444	25.556
26.441	37.349	25.971	25.562	32.39	24.876	23.339	29.22
26.325	25.057	29.865	23.116	28.738	22.791	22.943	27.289
23.373	23.475	27.355	22.617	22.685	28.197	22.648	22.403
31.97	22.811	23.105	33.048	23.254	22.684	23.282	23.955
23.722	28.206	25.14	23.648	29.641	23.431	23.401	29.128
27.02	25.906	35.662	25.978	25.475	35.024	26.156	25.143
36.859	26.034	36.045	25.524	25.535	35.282	26.142	25.944
38.817	25.411	25.887	35.457	26.237	25.596	28.343	25.703
25.703	39.059	25.668	23.656	28.14	23.854	23.477	28.142
26.348	23.235	28.299	23.229	22.483	22.515	27.851	22.839
29.514	23.434	23.038	27.912	23.053	22.845	30.4	22.529
29.444	27.27	23.163	27.738	22.676	22.702	36.202	28.024
27.307	37.865	25.349	26.038	36.483	26.8	28.322	36.774
25.847	26.635	26.313	36.456	25.27	31.075	25.439	25.821
35.404	25.525	25.808	36.096	24.77	24.83	38.105	25.79
24.245	29.214	23.415	22.711	28.479	25.84	30.065	23.905
23.46	31.076	22.76	23.08	28.722	22.702	25.91	28.526
22.909	23.703	28.367	23.44	23.064	28.823	23.174	22.921
34.098	24.919	22.81	36.236	25.655	25.814	38.073	25.842
26.416	36.478	25.662	28.522	37.348	25.479	25.043	35.794
25.963	25.849	28.891	23.058	31.658	26.071	25.613	32.639

25.48	26.175	31.065	25.465	23.119	28.576	24.124	24.147
33.134	23.669	22.657	28.789	25.98	22.721	29.195	23.404
23.247	33.265	24.148	22.785	33.616	22.843	23.642	28.226
22.593	24.345	27.73	23.024	25.363	27.574	22.708	25.179
36.151	25.552	36.312	25.647	26.225	36.912	26.023	25.667
35.89	25.573	25.567	35.511	28.198	24.796	31.665	26.033
27.054	36.523	26.079	25.92	36.807	26.468	26.065	31.934
25.501	23.17	33.364	23.246	25.65	29.403	23.258	22.396
28.38	22.287	24.026	29.627	22.481	22.625	28.599	23.226
32.596	22.632	23.37	27.858	25.492	23.686	30.774	23.921
23.592	28.987	25.569	23.247	29.993	25.456	25.54	35.853
25.795	25.393	35.766	22.366	27.917	36.329	26.205	25.254
32.15	25.771	26.596	35.138	25.724	25.171	35.564	25.375
25.335	35.283	26.135	23.474	42.212	25.903	29.186	23.305
23.627	31.012	23.863	22.748	28.576	22.653	23.386	29.755
23.24	23.954	29.707	22.701	25.872	32.738	23.514	23.163
28.384	22.401	23.687	28.324	22.789	23.277	28.186	23.07
23.163	36.196	27.159	26.62	39.958	23.735	26.117	36.637
26.529	26.161	30.57	25.336	35.827	25.182	25.35	35.881
25.452	25.592	35.861	24.819	27.754	31.611	25.417	24.906
36.058	25.144	23.345	29.389	23.204	23.377	29.35	22.644
22.825	30.978	22.724	23.369	31.837	24.582	23.039	29.124
23.519	23.061	22.834	28.986	22.435	28.837	22.748	23.856
29.097	22.916	28.509	24.206	26.127	29.478	25.865	25.425
37.275	25.375	25.712	37.121	25.284	25.796	28.732	27.266
26.106	29.086	26.279	26.592	37.528	25.837	26.003	35.024
26.136	25.518	30.603	26.261	25.661	35.672	23.529	22.6
29.89	24.012	23.241	29.02	25.644	23.003	29.083	22.762
28.797	22.623	23.341	29.149	23.041	24.44	34.258	23.343
23.426	30.223	22.519	23.868	29.917	23.488	23.899	28.907
22.91	24.295	32.511	26.688	25.399	35.692	26.844	23.562
29.012	23.459	23.592	36.665	29.235	26.362	35.125	24.846
25.673	35.595	25.249	25.95	37.135	24.028	33.623	25.5
25.019	35.717	23.115	23.437	32.073	23.067	23.156	28.588

max val(#860) = 42.21us
min val(#817) = 22.29us
peak-to-peak = 19.93us
mean +- RMS = 27.15 +- 4.27 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

62.627	34.811	33.509	38.715	35.949	40.504	33.672	33.997
34.811	34.973	34.322	34.648	33.998	42.131	36.112	34.486
33.672	35.949	34.485	35.462	34.485	33.835	33.021	32.696
34.485	34.974	35.624	33.184	33.835	35.949	34.16	42.944
34.973	36.926	36.926	36.437	34.485	34.323	34.973	34.811
33.998	34.485	32.696	33.672	41.968	34.811	34.16	34.485
32.533	37.739	35.136	33.835	33.835	33.834	33.997	34.16
33.997	33.184	33.184	35.298	33.835	33.835	33.997	33.021
34.973	36.112	33.672	34.16	35.949	40.83	34.16	34.811
33.022	33.021	39.528	34.323	33.347	33.672	33.346	34.323
33.672	35.298	32.37	33.509	33.997	33.672	34.16	32.859
33.184	33.509	33.51	33.835	33.997	33.347	34.16	33.672
32.696	33.834	33.184	33.346	32.045	39.04	33.672	37.414
43.594	34.81	37.738	38.389	32.533	37.413	37.739	31.558
30.744	38.714	33.835	32.045	37.576	31.72	37.088	37.901
30.907	31.395	31.232	29.768	32.371	33.184	32.208	31.883
33.021	34.323	32.696	32.696	32.696	31.232	38.064	33.997
38.552	37.576	32.208	32.371	33.184	31.883	32.371	32.37
32.045	36.763	33.347	31.558	30.419	34.485	39.203	32.696
38.877	36.926	39.04	32.208	38.064	38.877	32.371	40.178
37.576	32.37	38.39	39.691	33.51	44.083	38.715	32.37
38.877	34.485	32.696	38.389	32.858	31.232	39.691	35.136
32.371	38.064	32.533	32.534	33.021	32.37	31.883	33.672
32.533	33.672	31.72	33.021	33.346	38.064	32.208	39.365
31.557	31.232	33.021	37.25	34.322	37.901	31.557	33.672
33.997	32.859	32.37	38.064	39.203	35.298	38.389	39.854
34.973	39.691	40.667	32.208	37.901	37.413	33.184	38.389
31.883	37.251	37.901	32.859	39.853	37.739	32.534	34.485
34.648	38.064	34.648	39.528	33.021	41.48	34.974	32.371
32.37	32.858	34.485	33.022	33.998	32.208	32.208	35.95
33.184	31.72	36.762	31.557	37.576	38.715	33.184	31.72
33.672	32.045	31.882	32.208	33.184	32.696	33.509	43.106
40.341	33.672	38.878	39.528	34.811	38.226	37.739	33.022
39.04	39.04	33.022	37.251	32.858	34.485	38.064	34.648
34.323	33.021	32.696	33.347	38.227	31.557	36.6	34.16
37.901	32.859	32.696	37.414	33.834	33.347	37.576	34.323
31.069	32.208	32.046	31.232	31.72	32.208	38.064	31.394
37.088	36.762	31.069	28.792	36.763	30.419	30.093	32.371
30.256	33.022	32.696	32.045	39.04	38.715	31.069	30.907
37.739	32.859	38.226	38.877	39.69	40.992	38.064	35.624
38.552	38.877	32.696	32.208	38.389	33.997	37.739	32.208
31.395	31.557	34.16	39.69	32.696	32.534	33.51	40.992
33.184	33.347	32.533	35.624	32.859	33.347	33.184	31.883
32.859	32.533	44.408	39.691	33.509	32.208	34.16	34.16
36.763	30.906	34.16	37.738	33.022	33.835	33.509	33.51
32.696	37.413	32.859	33.021	39.203	40.016	33.346	39.854
34.811	39.04	38.39	32.045	37.413	37.576	32.045	37.251
43.92	34.322	38.226	39.69	34.323	31.882	31.882	34.811
39.853	33.672	32.371	37.901	32.208	32.37	34.485	33.184
33.835	32.859	33.184	33.672	32.696	31.395	32.045	41.155
37.576	31.882	32.208	36.926	34.486	32.208	31.558	38.552
32.534	34.648	40.016	32.371	33.184	38.389	38.552	35.461
33.184	37.901	31.558	33.346	41.806	33.346	32.696	37.902
33.022	32.533	40.504	32.208	33.998	38.714	32.046	33.347
30.907	30.744	32.534	30.906	30.419	37.901	32.045	32.208
32.859	33.672	30.907	31.883	31.72	32.534	30.744	33.347
30.582	32.533	30.419	31.232	37.088	31.557	37.414	31.882
30.907	30.419	30.744	32.208	31.882	32.696	33.509	34.16
32.533	31.72	37.088	43.107	32.696	39.528	38.226	32.37
36.925	76.779	33.997	31.395	39.528	31.557	36.762	39.528
32.371	30.418	30.256	30.744	39.528	34.16	30.907	29.768
31.883	31.72	30.419	31.232	31.232	29.605	30.744	31.883
30.093	38.226	32.533	32.533	27.653	31.395	30.907	31.069
36.763	37.901	32.045	31.72	36.437	30.907	31.232	33.835
31.232	32.696	31.557	31.72	32.696	32.045	32.371	38.226
33.672	36.925	39.853	31.557	39.854	37.901	31.882	229.523
43.269	33.347	38.552	38.714	32.045	37.576	37.739	32.696
31.72	33.021	33.998	39.202	33.835	32.859	38.389	49.613
37.576	35.624	34.323	30.907	43.432	33.998	31.72	31.395
31.72	31.72	32.046	31.72	31.72	37.088	43.595	36.6
37.576	33.347	30.419	30.582	31.72	33.347	31.07	32.533

32.696	32.37	32.859	31.069	32.696	33.347	39.203	40.016
33.672	37.088	37.901	33.672	40.179	37.738	32.696	37.576
32.534	32.859	37.088	32.859	37.414	33.997	33.346	34.811
31.557	34.485	33.184	32.533	31.394	31.72	30.744	30.093
30.907	32.371	30.093	29.93	31.72	30.581	30.744	33.022
32.696	38.552	37.25	31.395	39.203	37.413	32.533	31.882
30.744	29.768	36.112	36.112	35.461	34.973	31.069	34.81
34.486	40.666	32.859	38.226	39.854	33.834	41.806	38.227
32.371	40.341	34.973	39.366	39.69	32.046	38.226	40.504
33.184	37.901	40.667	33.51	39.04	38.877	32.371	31.883
145.261	45.71	34.486	32.859	38.552	31.557	34.323	40.83
32.533	30.744	35.624	30.906	29.443	28.792	35.136	30.256
37.25	31.069	30.581	35.136	30.093	33.509	36.763	29.443
36.926	36.112	29.28	36.6	29.931	29.768	40.667	45.872
40.342	43.595	39.854	39.528	42.944	43.269	39.366	41.806
38.715	40.83	42.944	40.992	38.226	40.179	40.342	39.202
40.342	38.878	38.878	41.642	38.389	40.504	40.667	33.021
33.509	39.528	37.901	36.925	39.04	37.739	39.203	31.883
31.069	38.715	33.022	30.581	35.298	32.858	30.744	36.112
31.07	30.419	36.275	30.744	30.906	36.6	30.744	29.117
45.547	31.069	31.232	40.504	39.528	40.178	40.992	41.805
39.69	39.365	39.365	44.408	42.781	41.155	38.715	40.666
40.667	38.714	40.341	40.667	40.992	40.016	39.366	40.341
33.184	33.997	40.992	33.184	33.835	38.552	32.208	32.696
39.203	32.696	30.093	37.251	31.395	30.906	35.624	29.605
30.744	45.221	34.16	36.6	44.083	32.208	33.347	36.6
31.069	30.581	36.112	32.208	32.046	36.6	29.443	38.552
40.992	40.016	41.48	37.576	39.854	41.48	39.203	39.203
41.642	39.203	38.552	43.432	39.04	38.227	40.83	39.528
43.757	43.757	38.878	38.064	44.733	34.973	34.811	41.642
39.202	33.51	40.992	42.131	38.715	40.83	32.045	30.256
36.763	30.093	30.093	36.437	29.931	28.792	37.251	29.605
44.571	36.6	29.118	38.064	31.883	30.744	41.806	32.371
29.768	38.227	32.37	31.558	37.251	39.528	40.016	40.504
40.667	38.064	40.016	32.534	40.667	41.48	35.136	33.347
41.968	33.834	39.691	40.341	39.853	38.064	41.155	39.04
37.738	39.365	33.672	32.371	47.662	42.294	39.528	34.323
34.81	42.131	38.389	31.07	36.6	32.046	33.51	39.365
30.581	30.581	37.251	33.347	30.419	44.245	36.275	32.045
35.949	30.256	30.907	35.624	30.907	30.094	35.787	30.256
32.208	40.992	34.323	46.198	42.944	31.883	41.154	42.131
39.853	39.691	39.691	33.672	42.131	38.715	38.227	41.806
40.504	40.179	40.829	39.528	40.504	41.155	33.51	38.714
41.642	38.226	33.672	39.365	32.696	37.901	39.853	36.112
30.094	41.643	30.744	32.696	38.226	32.533	30.093	37.25
30.256	31.72	37.576	36.112	30.419	37.738	31.882	31.883
39.528	30.256	37.088	33.672	31.232	37.088	39.203	38.878
40.992	39.69	38.064	40.016	33.509	41.155	39.203	43.92
41.155	37.902	40.83	41.642	41.317	39.528	39.365	41.318
40.016	33.835	39.202	39.528	39.365	41.155	34.322	33.347
42.618	33.834	38.715	38.389	37.088	30.419	36.926	31.069
37.088	30.256	30.582	36.274	30.581	34.973	45.547	36.926
33.346	39.69	30.907	33.021	37.088	30.907	30.744	38.715
30.906	33.184	41.642	34.648	34.486	40.83	40.341	34.973
43.106	34.974	35.624	43.432	40.83	39.365	40.992	38.226
38.227	41.155	38.389	34.973	45.059	32.859	43.92	34.485
38.064	40.504	33.021	40.992	40.016	32.371	37.414	36.274

max val(#527) = 229.52us
min val(#500) = 27.65us
peak-to-peak = 201.87us
mean +- RMS = 35.79 +- 8.07 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

95.304	58.072	56.689	68.539	62.197	64.133	62.992	57.178
59.207	64.114	57.36	58.195	62.754	67.81	61.107	62.947
56.635	59.322	67.007	60.105	58.196	63.413	56.204	55.516
65.054	58.711	65.193	56.742	56.963	65.769	57.119	66.417
70.036	59.915	63.378	60.693	65.125	57.62	63.916	58.471
57.387	63.612	56.436	57.263	74.083	57.917	57.505	63.778
56.325	61.481	68.037	57.49	57.669	62.468	57.058	57.442
62.554	56.376	56.429	64.68	57.673	57.027	62.85	56.346
64.257	59.366	59.095	62.127	60.155	65.24	64.87	58.713
56.274	63.102	65.941	58.608	63.718	57.849	57.359	64.784
58.144	59.426	65.006	57.474	58.774	69.4	58.702	56.635
63.034	58.029	56.992	66.044	58.7	57.347	64.348	58.17
55.606	64.838	58.74	56.314	63.443	65.076	70.026	63.346
71.804	72.959	64.042	65.035	68.578	63.26	63.657	67.078
56.144	65.221	75.157	58.45	62.59	62.837	63.005	64.425
60.405	54.367	54.757	58.588	56.354	56.228	61.055	54.754
56.243	64.315	59.111	55.995	62.521	54.341	63.795	63.911
61.517	61.123	60.732	56.053	63.586	55.19	55.205	60.749
55.555	61.262	65.377	54.627	54.46	60.058	65.645	68.636
64.932	62.861	66.079	69.308	63.607	64.231	68.161	66.191
66.022	67.757	64.637	66.351	66.905	70.392	64.695	61.734
65.319	60.658	64.162	63.555	58.798	59.82	62.896	58.488
64.678	61.898	65.693	55.726	56.379	60.724	55.042	57.847
62.349	58.05	54.312	61.936	57.373	61.399	65.434	62.274
57.963	64.769	57.097	62.443	64.149	61.47	54.675	67.77
57.668	56.009	60.953	63.899	65.252	71.569	64.159	65.737
74.23	67.348	67.877	69.658	64.57	63.044	68.364	63.432
63.947	63.114	63.751	61.692	65.781	63.632	61.062	60.155
63.705	72.561	61.264	63.499	63.612	65.644	58.859	61.376
55.295	55.845	65.66	56.218	56.936	61.408	55.378	59.367
64.183	55.504	59.96	64.783	60.816	62.81	62.087	55.031
57.156	60.97	55.805	55.241	61.734	56.632	63.64	67.839
69.986	70.693	64.568	65.886	71.513	64.69	63.639	68.487
65.092	65.595	69.856	63.399	58.653	72.203	64.508	58.165
66.905	56.969	57.207	68.715	63.447	57.063	73.048	57.851
61.397	66.168	56.409	60.948	63.687	56.863	63.478	64.375
56.795	55.931	60.742	54.329	54.917	62.134	61.649	65.365
60.166	59.992	64.552	51.499	59.652	60.259	53.498	55.893
61.912	57.729	56.224	61.473	66.36	66.279	67.895	55.06
63.871	68.601	63.935	64.468	77.475	68.49	63.907	72.584
67.171	65.171	68.742	58.447	64.246	66.327	61.433	57.359
62.938	55.301	63.38	63.035	55.466	66.416	57.144	64.625
64.604	56.269	56.096	64.589	56.443	57.09	62.116	55.332
56.181	62.073	69.768	63.268	67.146	55.987	58.28	62.137
62.284	54.093	63.614	60.768	56.787	63.707	56.997	57.458
69.013	63.426	56.306	69.656	64.759	63.484	69.23	65.331
68.034	66.176	64.745	60.948	63.39	63.981	66.144	60.527
71.381	66.475	64.464	66.437	63.582	57.306	55.705	67.713

66.489	57.344	61.491	61.217	55.824	61.863	58.317	56.663
62.931	56.09	57.414	62.728	55.88	55.199	65.777	64.35
62.597	60.914	55.516	59.478	69.794	56.162	60.96	63.673
57.062	65.51	63.967	55.663	62.573	61.448	65.304	71.947
59.006	63.687	67.291	57.084	67.083	69.002	56.665	63.883
69.999	56.401	65.997	65.496	57.473	64.849	61.632	56.945
56.763	59.699	56.171	54.702	58.696	63.516	56.784	62.008
57.393	56.946	59.019	55.979	60.405	56.57	54.378	62.046
56.17	55.642	54.756	65.676	59.811	66.737	61.064	55.401
65.434	53.684	54.548	61.412	55.066	55.928	62.84	57.81
59.214	68.399	63.29	71.914	70.172	66.686	65.008	69.923
62.586	101.783	72.287	54.321	64.773	67.669	63.087	65.22
71.087	54.068	59.548	54.917	66.35	63.883	54.828	54.264
61.946	56.01	54.12	59.678	54.093	52.872	59.043	56.147
55.949	70.253	56.809	55.631	56.077	55.045	53.444	65.659
60.06	61.35	65.32	55.203	59.703	60.971	54.237	58.047
62.603	56.393	55.479	61.4	56.487	55.284	63.473	63.871
70.866	62.836	64.871	61.547	66.47	63.849	66.857	254.288
73.97	70.319	64.919	62.335	68.124	63.532	63.703	64.367
57.514	58.394	64.729	64.631	58.821	65.668	61.662	79.883
74.126	59.516	58.373	59.639	67.326	58.325	61.012	55.362
55.782	59.446	54.985	54.374	59.795	59.843	68.261	72.153
63.322	67.558	53.261	53.427	60.794	57.597	53.765	61.863
55.696	56.082	62.265	54.374	58.537	69.819	65.398	66.027
73.506	63.131	64.293	70.429	67.007	63.719	69.14	63.132
58.975	70.208	63.059	58.421	69.804	58.873	56.685	64.031
57.882	59.542	63.049	55.649	60.132	54.511	53.687	57.382
54.28	55.846	57.448	52.547	54.405	58.778	53.392	55.425
64.666	61.363	60.355	64.443	62.457	60.097	65.815	55.837
54.466	57.974	61.252	59.76	65.102	58.404	54.47	63.938
61.506	66.572	68.521	64.204	65.329	68.858	67.962	63.37
69.23	66.375	71.018	64.89	65.225	67.328	64.368	66.448
72.001	63.312	66.554	68.967	65.277	64.473	60.714	57.586
170.964	84.769	60.154	56.515	66.692	55.411	57.8	68.972
58.881	53.979	63.923	54.135	51.926	51.307	62.987	53.095
66.764	54.503	53.619	63.048	53.146	56.354	67.163	51.972
66.37	63.382	52.443	64.338	52.607	52.47	76.869	73.896
67.649	81.46	65.203	65.566	79.427	70.069	67.688	78.58
64.562	67.465	69.257	77.448	63.496	71.254	65.781	65.023
75.746	64.403	64.686	77.738	63.159	65.334	78.772	58.811
57.754	68.742	61.316	59.636	67.519	63.579	69.268	55.788
54.529	69.791	55.782	53.661	64.02	55.56	56.654	64.638
53.979	54.122	64.642	54.184	53.97	65.423	53.918	52.038
79.645	55.988	54.042	76.74	65.183	65.992	79.065	67.647
66.106	75.843	65.027	72.93	80.129	66.634	63.758	76.46
66.63	64.563	69.232	63.725	72.65	66.087	64.979	72.98
58.664	60.172	72.057	58.649	56.954	67.128	56.332	56.843
72.337	56.365	52.75	66.04	57.375	53.627	64.819	53.009
53.991	78.486	58.308	59.385	77.699	55.051	56.989	64.826
53.662	54.926	63.842	55.232	57.409	64.174	52.151	63.731
77.143	65.568	77.792	63.223	66.079	78.392	65.226	64.87
77.532	64.776	64.119	78.943	67.238	63.023	72.495	65.561
70.811	80.28	64.957	63.984	81.54	61.441	60.876	73.576
64.703	56.68	74.356	65.377	64.365	70.233	55.303	52.652
65.143	52.38	54.119	66.064	52.412	51.417	65.85	52.831
77.167	59.232	52.488	65.922	57.375	54.43	72.58	56.292
53.36	67.214	57.939	54.805	67.244	64.984	65.556	76.357
66.462	63.457	75.782	54.9	68.584	77.809	61.341	58.601
74.118	59.605	66.287	75.479	65.577	63.235	76.719	64.415
63.073	74.648	59.807	55.845	89.874	68.197	68.714	57.628
58.437	73.143	62.252	53.818	65.176	54.699	56.896	69.12
53.821	54.535	66.958	56.048	56.291	76.983	59.789	55.208
64.333	52.657	54.594	63.948	53.696	53.371	63.973	53.326
55.371	77.188	61.482	72.818	82.902	55.618	67.271	78.768
66.382	65.852	70.261	59.008	77.958	63.897	63.577	77.687
65.956	65.771	76.69	64.347	68.258	72.766	58.927	63.62
77.7	63.37	57.017	68.754	55.9	61.278	69.203	58.756
52.919	72.621	53.468	56.065	70.063	57.115	53.132	66.374
53.775	54.781	60.41	65.098	52.854	66.575	54.63	55.739
68.625	53.172	65.597	57.878	57.359	66.566	65.068	64.303
78.267	65.065	63.776	77.137	58.793	66.951	67.935	71.186
67.261	66.988	67.109	68.234	78.845	65.365	65.368	76.342
66.152	59.353	69.805	65.789	65.026	76.827	57.851	55.947
72.508	57.846	61.956	67.409	62.732	53.422	66.009	53.831
65.885	52.879	53.923	65.423	53.622	59.413	79.805	60.269
56.772	69.913	53.426	56.889	67.005	54.395	54.643	67.622
53.816	57.479	74.153	61.336	59.885	76.522	67.185	58.535
72.118	58.433	59.216	80.097	70.065	65.727	76.117	63.072
63.9	76.75	63.638	60.923	82.194	56.887	77.543	59.985
63.083	76.221	56.136	64.429	72.089	55.438	60.57	64.862

max val(#527) = 254.29us
min val(#661) = 51.31us
peak-to-peak = 202.98us
mean +- RMS = 62.94 +- 9.50 us

packet size: 530
number of packets: 1024
RATE = 4.24kbps, PPS = 1.0

3.1.2 AF_XDP, 128 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t xdp_ptpl2 -m rx-lat -n 1024[ 130.879042] NET: Registered protocol family 15
```

```
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 0
SIOCShWTSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

```
driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:
```

32.583	25.602	24.882	23.037	22.263	24.732	28.178	22.899
22.921	22.199	22.278	21.936	21.743	21.429	24.463	24.152
21.95	24.235	21.922	24.085	22.325	22.159	23.887	21.866
21.639	21.712	24.302	21.808	24.15	21.569	24.607	21.866
34.68	23.333	21.729	21.706	21.352	21.542	23.773	22.4
22.075	22.059	24.869	24.242	24.144	22.428	22.839	22.072
21.549	21.66	21.623	22.119	24.211	24.321	23.598	24.325
24.161	23.934	22.284	21.924	21.551	21.63	21.794	21.572
32.273	24.325	24.18	22.446	21.683	23.899	25.877	22.304
21.962	20.999	21.76	21.825	22.231	21.527	24.687	24.445
23.84	22.584	21.466	23.976	22.249	22.301	22.566	21.785
21.437	21.236	21.171	22.04	22.394	29.842	24.915	22.041
24.231	22.182	21.476	21.705	21.535	21.616	24.285	24.132
21.662	24.037	23.998	23.782	24.149	21.931	22.188	21.184
21.306	22.009	21.382	21.818	24.191	24.048	24.924	24.061
23.684	21.798	22.515	21.757	21.521	26.794	21.776	21.595
21.669	23.755	24.165	22.665	21.54	24.488	25.635	22.107
21.658	21.255	22.05	21.291	21.96	21.773	23.97	24.082
21.71	22.544	21.402	23.993	21.869	21.757	22.814	21.499
21.602	21.263	24.062	21.363	23.56	33.61	24.563	21.445
24.37	24.118	21.446	21.219	21.059	21.816	23.509	21.887
21.141	21.471	21.885	23.794	23.68	21.607	22.116	21.729
21.604	21.739	21.397	21.563	21.162	23.552	23.318	24.099
24.236	23.948	22.044	22.037	21.476	26.771	21.949	21.223
21.48	21.702	23.941	22.031	21.17	23.835	25.341	22.433
21.79	21.222	21.264	22.016	21.338	21.563	21.686	24.154
23.845	22.396	21.494	23.997	22.043	21.674	24.127	21.369
22.02	21.538	21.437	21.13	23.911	34.289	24.156	21.644
21.852	22.277	21.534	21.609	21.412	21.99	23.249	21.866
21.591	23.908	23.947	24.178	23.871	21.457	22.131	21.805
21.367	21.642	20.93	21.311	21.742	24.333	23.398	24.216
23.594	23.03	21.513	22.607	21.542	27.405	21.782	21.231
21.141	21.51	21.395	21.614	21.882	24.228	26.63	22.764
21.875	21.823	21.451	21.172	21.391	21.34	24.134	24.049
21.811	22.39	21.518	24.3	22.132	21.839	23.437	21.68
21.421	21.356	25.543	21.57	24.399	26.812	24.119	21.428
24.084	23.416	21.461	21.426	21.333	21.778	23.748	21.564
21.361	21.163	23.511	23.909	23.952	21.143	22.241	21.825
21.742	21.328	21.074	20.987	21.709	23.882	23.298	24.049
23.985	23.709	22.372	22.256	21.668	27.508	21.791	20.883
21.47	21.723	23.783	22.366	21.153	24.036	25.735	24.223
22.122	21.817	21.484	22.092	21.666	21.155	21.69	23.88
24.273	22.147	21.58	23.848	22.475	21.925	23.289	21.408
21.686	21.318	21.569	21.684	27.156	24.448	24.368	21.831
24.306	22.686	22.147	21.528	21.579	21.38	23.062	21.924
21.035	21.331	21.618	23.79	23.977	21.299	22.539	21.826
21.288	21.385	21.287	21.259	21.704	23.911	23.19	24.131
23.923	23.986	22.24	22.391	26.726	21.518	21.929	21.574
21.416	21.81	23.907	21.397	21.586	23.9	25.196	24.468
22.492	21.485	21.388	21.688	21.758	21.214	21.916	23.982
24.29	22.651	21.351	23.686	21.749	22.432	23.815	21.712
22.323	21.234	22.187	21.396	29.754	22.007	24.211	21.234
24.178	23.684	21.794	21.609	21.013	21.48	23.029	21.961
21.468	21.396	21.852	23.874	24.382	21.751	22.406	21.721
21.429	21.905	21.467	21.256	21.924	23.868	23.22	24.205
23.759	23.747	22.257	22.243	26.822	21.308	21.847	21.266
21.2	21.621	23.69	22.295	21.496	23.566	25.794	23.759
22.451	21.499	21.306	21.888	22.053	21.568	21.841	24.029
24.075	22.175	21.578	24.046	24.008	21.968	23.542	21.588
22.082	21.511	21.156	21.337	29.598	24.226	21.498	21.723
23.901	22.266	21.955	21.144	21.077	21.722	23.395	22.438
21.382	24.033	21.552	23.916	24.461	21.634	22.489	21.608
21.369	21.787	21.339	21.651	21.903	24.104	23.608	24.292
23.871	24.039	22.566	22.23	26.886	21.452	22.2	21.317
21.625	21.653	24.243	22.384	21.586	24.443	25.746	24.808
22.399	22.328	21.398	21.719	21.728	20.93	21.81	24.073
23.978	22.545	21.745	24.135	23.856	22.443	23.409	21.238
22.198	21.4	21.897	21.986	29.702	24.603	24.29	21.843
21.659	23.765	22.452	21.813	21.616	21.726	23.671	22.095
21.856	24.123	23.89	24.048	24.097	21.581	22.165	21.399
21.673	22.097	21.704	21.626	22.034	23.89	23.386	23.871
23.726	24.178	22.482	22.502	26.764	21.249	21.805	21.213
21.371	21.618	24.099	22.427	21.548	23.697	25.629	24.014
22.403	22.055	21.014	22.215	21.51	21.479	21.656	23.995
23.963	22.166	21.221	23.898	24.133	22.454	23.5	21.11
21.627	21.596	27.188	22.104	24.541	22.17	24.085	21.61
24.154	22.098	22.468	21.474	21.092	21.537	22.99	21.701
21.469	24.17	23.773	23.933	23.739	21.682	21.907	24.102
21.803	21.831	21.083	21.117	21.362	22.199	23.83	21.288
21.368	22.214	27.354	22.736	22.2	21.644	21.902	21.112
21.264	21.536	24.088	22.026	21.468	24.259	25.748	24.156
22.285	21.514	21.414	21.304	21.401	20.815	21.69	24.343
21.758	24.355	21.279	23.984	23.907	22.348	23.548	21.739
22.041	21.314	26.943	21.672	24.001	23.989	23.968	21.426
23.603	23.93	22.087	21.499	21.394	21.24	23.676	22.003
21.695	23.875	23.97	24.059	23.542	21.844	23.6	22.209
21.573	21.553	21.473	21.503	21.78	23.475	22.964	24.178
23.652	23.766	28.361	22.21	21.567	21.204	21.46	20.907
21.418	21.405	23.873	22.399	21.487	24.023	25.751	23.945
22.616	21.809	21.619	22.043	21.688	21.624	21.6	24.007
24.111	22.64	21.38	23.958	23.75	22.253	23.348	21.622
21.668	21.528	26.698	21.891	24.246	23.822	23.945	21.595
24.154	23.481	22.34	25.044	21.114	21.322	22.745	21.918
21.561	24.184	23.797	23.823	24.11	21.578	23.531	22.259
21.326	21.973	21.51	21.187	21.553	24.333	23.205	21.746
24.66	23.869	31.983	22.321	22.156	21.247	21.712	21.415
21.406	21.792	23.623	22.457	21.407	24.383	26.308	24.202
22.378	22.159	21.455	21.335	21.753	21.098	21.893	23.849
23.663	22.505	21.575	21.794	24.189	22.451	23.749	21.831
21.518	21.387	27.032	21.682	23.92	23.817	23.576	21.701
24.15	23.808	22.136	21.992	21.022	21.223	23.481	21.385
21.413	21.886	23.822	24.383	24.083	21.665	24.138	21.892

21.819	21.698	21.148	21.346	21.479	24.027	23.285	24.487
24.145	23.788	28.447	21.709	22.169	21.678	22.005	21.095
21.733	21.113	21.664	24.086	21.662	24.366	25.901	23.95
21.875	22.401	21.717	21.633	22.217	21.503	21.345	21.872
23.887	22.837	21.523	23.868	24.097	22.467	23.52	21.556
21.556	21.388	21.252	21.756	21.803	24.097	24.21	21.547
23.913	24.129	22.494	21.451	21.143	21.07	23.16	21.931
21.685	21.798	21.617	21.704	24.098	21.524	24.307	22.692
21.968	21.639	21.216	21.799	21.249	21.717	23.477	24.368
24.049	28.741	24.604	21.698	22.477	21.759	21.581	21.578
21.842	21.385	21.799	21.994	21.599	24.798	25.771	24.257
21.859	22.415	22.014	21.549	21.649	21.508	21.693	21.975
24.01	22.286	21.395	24.139	23.942	22.484	23.367	21.915
21.485	27.587	21.506	21.489	21.925	24.126	24.087	21.507
23.945	24.131	22.711	21.513	21.603	21.615	23.358	21.91
21.364	21.088	21.46	21.474	21.579	21.505	23.77	22.46
21.726	21.39	21.168	21.52	21.968	21.892	23.47	24.252
24.048	29.946	22.733	21.45	22.154	21.794	21.383	21.55
21.564	21.284	21.99	23.95	21.663	24.076	25.646	24.078
21.456	22.718	21.45	21.625	21.627	21.134	21.412	21.596
23.861	21.943	21.33	23.943	23.869	21.399	24.69	21.553
21.354	26.386	21.38	21.26	21.761	24.064	23.994	21.432
23.855	23.716	21.993	21.42	21.029	21.137	23.315	21.868
21.592	21.508	24.551	21.839	23.975	21.162	23.992	22.434
21.498	21.256	21.398	21.287	21.396	21.72	23.336	24.306
23.84	30.759	22.521	21.634	22.446	21.463	21.857	21.296

max val(#32) = 34.68us
min val(#653) = 20.82us
peak-to-peak = 13.86us
mean +- RMS = 22.70 +- 1.67 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

71.085	36.762	48.149	34.974	33.022	50.102	34.486	35.299
44.57	31.069	31.069	30.419	33.672	32.045	45.221	33.021
33.509	45.547	32.371	33.021	45.872	32.371	30.093	42.944
30.744	33.835	45.546	33.184	33.021	44.733	33.347	32.046
48.475	36.6	31.72	30.582	28.955	32.371	32.208	32.534
51.89	33.834	33.834	46.36	33.998	33.997	42.456	30.744
30.744	30.581	29.28	32.534	45.872	35.136	32.858	44.733
33.347	32.371	32.696	29.443	29.93	31.232	30.256	28.955
49.125	33.021	33.184	44.571	32.046	34.16	44.408	33.184
30.093	43.594	30.093	33.184	34.16	32.208	33.347	45.221
33.184	32.208	44.246	32.858	32.859	32.371	30.906	29.93
43.269	30.256	31.72	29.443	32.696	41.48	46.36	32.371
32.533	45.547	30.907	29.93	40.992	32.208	33.346	45.059
32.533	33.022	44.408	33.347	32.208	34.81	29.768	30.093
31.394	35.298	30.419	32.533	32.534	45.222	33.672	32.696
44.57	32.533	32.208	43.107	30.744	38.39	30.419	29.118
33.51	45.058	32.696	32.046	43.432	33.834	32.533	32.371
29.931	30.418	31.07	30.256	45.384	32.046	32.859	44.245
32.696	32.208	43.269	32.371	33.835	31.394	29.93	30.419
30.418	32.859	46.035	31.882	33.347	47.987	33.184	32.208
44.408	38.226	31.557	30.581	29.931	31.72	31.557	30.093
29.93	42.456	33.346	32.858	45.059	31.72	33.672	42.782
31.069	30.419	40.992	30.256	33.184	47.011	33.021	33.51
44.896	32.696	32.533	45.547	30.256	38.227	30.582	29.606
30.744	33.672	33.509	44.408	32.208	33.997	45.222	33.51
31.394	41.968	30.256	32.696	30.581	28.955	33.021	45.709
33.672	32.371	44.408	33.184	34.648	32.371	29.931	30.093
30.581	30.094	33.509	32.858	34.323	48.475	33.835	32.045
33.021	33.998	29.605	30.094	29.28	31.395	43.432	33.021
31.232	44.408	32.696	32.371	45.384	32.045	34.485	42.456
31.069	29.931	41.642	30.256	32.534	46.197	33.347	32.858
44.896	35.949	30.906	48.475	30.581	37.902	31.882	29.605
30.744	43.107	30.418	33.346	44.245	34.973	33.347	33.672
30.256	30.581	42.944	30.581	30.744	41.805	38.227	32.696
33.509	32.859	31.883	46.034	33.834	31.232	42.293	30.907
30.094	30.094	40.992	32.37	45.709	41.318	33.184	44.408
33.022	36.437	31.72	31.395	29.605	32.045	30.419	44.083
29.606	33.021	45.384	33.021	32.533	44.083	34.486	29.93
30.907	29.606	29.117	42.619	32.696	34.648	44.733	32.696
32.208	44.571	32.533	33.672	42.293	38.064	30.256	40.666
30.581	32.371	45.221	32.696	32.046	45.059	33.347	31.72
46.198	30.581	30.256	34.811	30.744	29.443	44.896	33.509
32.859	44.57	32.534	33.184	33.509	31.557	30.906	42.944
30.582	30.581	33.998	32.534	40.504	46.035	33.184	32.208
44.734	33.347	30.256	29.931	29.28	31.557	30.419	30.256
28.955	42.619	32.533	32.859	44.082	31.882	33.509	43.107
30.581	29.768	41.48	30.093	32.37	46.36	32.696	32.696
44.571	32.696	31.72	46.035	37.738	30.581	30.582	28.792
30.256	33.347	33.022	32.534	31.72	33.835	46.034	32.371
33.347	42.456	30.419	29.931	29.605	29.117	33.347	44.733
32.696	32.371	43.595	33.021	32.371	35.136	29.606	29.768
30.256	30.581	32.208	32.37	40.829	32.37	32.371	31.883
44.896	35.95	30.744	29.93	29.28	31.882	30.744	30.256
29.443	30.256	33.022	45.872	33.021	32.208	33.672	30.419
30.744	30.093	28.304	30.094	32.859	34.16	32.208	44.896
32.371	32.371	43.758	33.672	38.877	42.294	30.093	28.792
42.619	32.696	32.859	44.408	31.883	34.485	44.571	33.022
33.022	42.456	30.744	33.021	30.582	29.28	32.859	44.571
33.184	32.534	44.246	32.371	32.534	34.16	30.418	30.419
30.907	29.93	32.208	43.92	40.667	32.533	32.534	31.557
32.371	33.184	29.605	30.256	42.781	31.882	30.581	32.859
32.045	32.696	32.371	32.371	45.71	31.883	33.509	42.944
31.394	30.094	40.504	30.256	33.346	47.011	32.696	32.696
45.547	32.859	32.045	33.835	37.902	31.07	30.419	29.28
29.768	33.184	32.37	44.408	31.72	33.347	45.221	31.558
33.509	30.419	29.931	30.094	29.443	29.117	32.208	44.733
33.672	32.858	44.083	33.184	32.371	33.509	30.094	30.256
30.744	29.93	45.059	31.882	39.691	45.222	32.533	31.558
44.896	37.413	34.16	31.72	29.28	32.208	30.744	33.509
31.883	46.197	33.184	32.859	45.221	32.371	33.509	43.106
31.394	29.768	41.155	29.93	32.858	45.547	33.346	33.184
44.571	32.859	32.208	33.346	38.227	30.907	31.395	30.581
30.582	45.384	33.184	32.37	44.083	34.322	33.022	44.896
33.347	29.768	43.27	32.696	31.232	41.968	33.184	33.184
45.547	33.347	31.883	46.035	32.696	34.648	42.131	30.744
30.581	29.931	42.131	33.347	45.872	32.045	32.858	43.758
32.859	31.883	33.347	30.744	29.28	43.92	31.394	34.323
43.758	33.346	32.859	44.408	32.533	31.232	47.173	36.6
31.232	30.907	29.28	31.07	31.395	36.6	30.256	43.27

30.582	35.299	37.902	35.299	30.093	43.594	29.768	29.605
43.432	33.021	33.021	44.896	31.72	33.997	44.733	32.208
33.021	42.781	30.256	30.093	30.256	29.117	33.346	46.035
32.858	32.533	42.944	32.696	32.046	34.323	30.582	30.418
30.907	29.605	62.789	32.045	32.859	44.571	32.533	31.72
44.896	37.902	34.322	31.395	29.28	32.208	31.394	33.184
31.72	45.872	33.021	32.533	45.709	32.045	33.997	45.059
31.558	30.256	41.805	30.419	32.696	46.522	33.021	32.696
44.571	33.021	40.016	33.347	30.581	30.256	31.232	29.28
30.256	44.733	32.859	31.72	44.083	33.509	33.022	44.246
34.16	30.744	42.782	32.696	30.582	41.317	33.509	33.184
45.059	32.37	32.046	44.246	32.533	33.51	43.27	30.582
30.256	30.581	40.341	31.883	44.733	33.022	33.021	43.92
32.859	33.997	33.184	36.925	28.954	44.245	30.906	33.021
44.082	33.184	32.37	44.896	32.534	32.208	44.57	32.533
31.395	33.997	30.093	30.256	33.998	36.438	29.93	45.384
33.021	33.021	47.824	31.883	32.859	43.107	30.094	29.443
42.294	32.696	33.022	44.571	32.371	33.998	44.408	32.696
33.51	42.618	30.419	30.093	29.768	28.955	32.534	44.896
32.858	31.883	43.92	32.696	32.208	34.16	30.744	29.931
30.744	30.256	40.829	31.72	32.208	44.571	32.858	31.72
44.571	38.714	33.997	30.094	29.768	32.208	30.907	30.744
29.28	45.872	33.834	32.533	44.733	32.534	32.371	46.36
31.232	30.256	41.48	30.256	33.347	45.872	33.022	32.371
44.245	33.021	39.365	43.758	35.299	30.093	29.931	28.955
30.256	30.581	33.021	44.408	32.859	33.998	44.896	33.021
31.883	46.197	29.605	33.346	30.581	29.442	30.581	45.059
33.672	32.208	43.432	33.021	32.696	34.648	30.093	30.419
42.944	30.256	32.859	43.757	33.509	33.184	45.058	32.858
33.022	44.408	33.51	30.581	41.48	31.557	30.256	29.931
28.955	29.606	42.294	33.021	32.371	43.757	32.534	33.672
30.907	29.931	29.28	41.968	30.582	33.997	44.734	33.184
33.021	40.504	32.858	32.696	34.648	29.768	42.131	29.443
30.419	42.131	32.859	33.997	44.082	33.672	32.858	43.92
31.72	33.51	42.131	30.418	29.768	40.829	30.744	32.859
44.896	33.672	32.37	44.082	32.533	34.648	42.293	30.582
30.094	38.064	30.419	29.117	44.571	32.859	32.371	42.944
32.859	37.576	35.949	31.394	29.605	44.246	30.419	30.094
41.154	30.581	30.419	29.768	32.533	31.883	45.222	33.997
30.744	29.931	29.28	30.093	42.13	34.16	32.371	45.059
33.021	40.829	44.734	32.208	33.672	42.456	30.744	28.792
41.642	30.418	32.859	44.571	31.72	34.485	44.57	33.347
31.558	46.197	31.232	33.184	31.395	29.117	30.581	44.408
33.509	32.533	42.944	33.021	32.208	33.997	33.998	29.443
43.594	37.576	30.256	40.666	32.859	32.859	45.872	32.208
33.347	44.571	33.021	29.605	41.155	31.883	29.93	29.768
29.443	32.859	45.872	32.208	32.208	43.758	33.021	33.509
30.906	29.768	28.63	30.581	30.094	46.197	32.859	33.184
44.246	207.888	30.581	43.92	34.811	32.046	29.931	29.605

max val(#1017) = 207.89us
min val(#434) = 28.30us
peak-to-peak = 179.58us
mean +- RMS = 35.23 +- 7.83 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

103.668	62.364	73.031	58.011	55.285	74.834	62.664	58.198
67.491	53.268	53.347	52.355	55.415	53.474	69.684	57.173
55.459	69.782	54.293	57.106	68.197	54.53	53.98	64.81
52.383	55.547	69.848	54.992	57.171	66.302	57.954	53.912
83.155	59.933	53.449	52.288	50.307	53.913	55.981	54.934
73.965	55.893	58.703	70.602	58.142	56.425	65.295	52.816
52.293	52.241	50.903	54.653	70.083	59.457	56.456	69.058
57.508	56.305	54.98	51.367	51.481	52.862	52.05	50.527
81.398	57.346	57.364	67.017	53.729	58.059	70.285	55.488
52.055	64.593	51.853	55.009	56.391	53.735	58.034	69.666
57.024	54.792	65.712	56.834	55.108	54.672	53.472	51.715
64.706	51.492	52.891	51.483	55.09	71.322	71.275	54.412
56.764	67.729	52.383	51.635	62.527	53.824	57.631	69.191
54.195	57.059	68.406	57.129	56.357	56.741	51.956	51.277
52.7	57.307	51.801	54.351	56.725	69.27	58.596	56.757
68.254	54.331	54.723	64.864	52.265	65.184	52.195	50.713
55.179	68.813	56.861	54.711	64.972	58.322	58.168	54.478
51.589	51.673	53.12	51.547	67.344	53.819	56.829	68.327
54.406	54.752	64.671	56.364	55.704	53.151	52.744	51.918
52.02	54.122	70.097	53.245	56.907	81.597	57.747	53.653
68.778	62.344	53.003	51.8	50.99	53.536	55.066	51.98
51.071	63.927	55.231	56.652	68.739	53.327	55.788	64.511
52.673	52.158	62.389	51.819	54.346	70.563	56.339	57.609
69.132	56.644	54.577	67.584	51.732	64.998	52.531	50.829
52.224	55.374	57.45	66.439	53.378	57.832	70.563	55.943
53.184	63.19	51.52	54.712	51.919	50.518	54.707	69.863
57.517	54.767	65.902	57.181	56.691	54.045	54.058	51.462
52.601	51.632	54.946	53.988	58.234	82.764	57.991	53.689
54.873	56.275	51.139	51.703	50.692	53.385	66.681	54.887
52.823	68.316	56.643	56.549	69.255	53.502	56.616	64.261
52.436	51.573	62.572	51.567	54.276	70.53	56.745	57.074
68.49	58.979	52.419	71.082	52.123	65.307	53.664	50.836
51.885	64.617	51.813	54.96	66.127	59.201	59.977	56.436
52.131	52.404	64.395	51.753	52.135	63.145	62.361	56.745
55.32	55.249	53.401	70.334	55.966	53.071	65.73	52.587
51.515	51.45	66.535	53.94	70.108	68.13	57.303	65.836
57.106	59.853	53.401	52.821	50.938	53.823	54.167	65.647
50.967	54.184	68.895	56.93	56.485	65.226	56.727	51.755
52.649	50.934	50.191	63.606	54.405	58.53	68.031	56.745
56.193	68.28	54.905	55.928	63.961	65.572	52.047	61.549
52.051	54.094	69.004	55.062	53.199	69.095	59.082	55.943
68.32	52.398	51.74	56.903	52.41	50.598	66.586	57.389
57.132	66.717	54.114	57.032	55.984	53.482	54.195	64.352
52.268	51.899	55.567	54.218	67.66	70.483	57.552	54.039
69.04	56.033	52.403	51.459	50.859	52.937	53.481	52.18
49.99	63.95	54.151	56.649	68.059	53.181	56.048	64.933
51.869	51.153	62.767	51.352	54.074	70.271	55.886	56.827
68.494	56.682	53.96	68.426	64.464	52.099	52.511	50.366
51.672	55.157	56.929	53.931	53.306	57.735	71.23	56.839
55.839	63.941	51.807	51.619	51.363	50.331	55.263	68.715
56.986	55.022	64.946	56.707	54.12	57.568	53.421	51.48
52.579	51.815	54.395	53.766	70.583	54.377	56.582	53.117
69.074	59.634	52.538	51.539	50.293	53.362	53.773	52.217
50.911	51.652	54.874	69.746	57.403	53.959	56.078	52.14
52.173	51.998	49.771	51.35	54.783	58.028	55.428	69.101
56.13	56.118	66.015	55.915	65.699	63.602	51.94	50.058

63.819	54.317	56.549	66.703	53.379	58.051	70.365	56.781
55.473	63.955	52.05	54.909	52.635	50.848	54.7	68.6
57.259	54.709	65.824	56.417	56.542	56.128	53.96	52.007
52.989	51.441	53.364	65.257	70.265	56.759	54.032	53.28
56.272	55.45	51.56	51.4	63.858	53.604	53.976	55.297
53.427	56.729	53.923	56.287	70.171	53.517	55.998	64.552
52.763	51.881	61.843	51.907	55.249	71.115	56.304	56.988
69.418	56.898	54.611	56.065	64.788	52.522	52.619	50.597
51.393	54.837	56.613	66.792	53.306	57.79	70.967	56.366
55.908	52.747	51.329	51.813	51.171	50.047	54.018	68.806
57.65	55.403	65.828	57.319	56.227	55.952	53.503	51.494
52.942	51.33	66.956	53.868	69.393	69.825	56.823	53.401
66.555	61.178	56.612	53.533	50.896	53.934	54.415	55.604
53.739	70.32	57.074	56.907	69.318	53.952	55.674	64.505
53.067	51.865	62.859	51.556	54.892	69.437	56.732	57.055
68.297	57.037	54.69	55.848	64.991	52.156	53.2	51.794
51.953	67.002	57.283	54.797	65.631	58.019	58.651	68.91
55.75	51.823	64.284	54.911	52.742	63.447	54.84	57.179
69.51	55.513	53.104	69.933	56.829	57.102	65.631	51.854
52.208	51.527	69.319	55.451	70.413	54.215	56.943	65.368
57.013	53.981	55.815	52.218	50.372	65.457	54.384	56.024
65.227	57.516	56.632	68.341	56.272	52.914	69.08	60.702
53.035	52.738	50.363	52.187	52.757	58.799	54.086	64.558
51.95	57.513	65.256	58.035	52.293	65.238	51.67	50.717
64.696	54.557	57.109	66.922	53.188	58.256	70.481	56.364
55.306	64.295	51.67	51.397	51.657	49.932	55.036	70.378
54.616	56.888	64.223	56.68	55.953	56.671	54.13	52.157
52.948	50.919	89.732	53.717	56.86	68.56	56.501	53.146
68.499	61.832	56.409	52.894	50.674	53.448	55.07	55.187
53.415	69.747	56.991	56.592	69.251	53.889	57.597	67.268
53.131	51.809	63.278	51.922	54.476	69.997	55.985	56.874
68.223	56.787	68.377	55.557	52.148	51.46	52.692	50.187
51.674	66.138	56.732	54.119	65.57	57.532	58.773	68.191
56.776	52.553	64.401	54.739	52.27	62.941	55.109	57.191
69.17	55.01	53.426	68.204	56.283	55.763	66.618	52.204
51.924	52.109	67.039	53.774	68.979	56.844	56.966	65.515
57.013	57.478	55.524	61.969	50.068	65.567	53.651	54.939
65.643	57.368	56.167	68.719	56.644	53.786	68.101	54.792
52.721	55.97	51.603	51.443	55.551	60.771	53.135	67.13
57.681	56.89	79.807	54.204	55.015	64.354	51.806	50.858
63.7	54.488	56.645	67.028	53.778	58.381	70.716	56.898
55.888	64.777	51.874	51.428	51.521	50.053	54.427	68.745
56.521	54.388	65.495	54.49	56.397	56.611	54.493	51.762
52.262	51.643	67.861	53.402	56.128	68.388	56.434	53.421
68.721	62.522	56.133	52.086	50.79	53.431	54.388	52.129
50.693	67.758	57.656	56.916	68.816	54.199	56.509	68.252
53.051	51.954	62.628	51.602	54.826	69.899	56.307	56.858
68.39	56.809	67.812	65.467	57.468	51.771	51.936	50.05
51.989	51.694	54.685	68.494	54.521	58.364	70.797	56.971
53.758	68.598	51.322	54.979	52.798	50.945	51.926	66.931
57.559	55.045	64.955	56.889	56.793	57.115	53.613	51.975
64.5	51.644	54.111	65.513	55.312	57.281	69.268	54.405
56.935	68.537	56.004	52.032	62.623	52.627	53.416	51.862
50.64	51.404	63.911	54.725	56.469	65.281	56.841	56.364
52.875	51.57	50.496	63.767	51.831	55.714	68.211	57.552
57.07	69.245	57.462	54.394	57.125	51.527	63.712	51.021
52.261	63.516	54.658	55.991	65.681	58.47	58.629	68.177
53.579	55.925	64.145	51.967	51.417	62.337	52.437	54.834
68.906	55.958	53.765	68.221	56.475	57.132	65.66	52.497
51.579	65.651	51.925	50.606	66.496	56.985	56.458	64.451
56.804	61.707	58.66	52.907	51.208	65.861	53.777	52.004
62.518	51.669	51.879	51.242	54.112	53.388	68.992	56.457
52.47	51.321	50.448	51.613	64.098	56.052	55.841	69.311
57.069	70.775	67.467	53.658	55.826	64.25	52.127	50.342
63.206	51.702	54.849	68.521	53.383	58.561	70.216	57.425
53.014	68.915	52.682	54.809	53.022	50.251	51.993	66.004
57.37	54.476	64.274	56.964	56.077	55.396	58.688	50.996
64.948	63.962	51.636	61.926	54.62	56.923	69.866	53.64
57.202	68.287	55.014	51.025	62.184	53.02	53.245	51.636
51.035	54.367	70.423	54.047	56.183	64.92	57.013	55.943
52.404	51.024	50.028	51.868	51.49	67.917	56.195	57.49
68.086	238.647	53.102	65.554	57.257	53.509	51.788	50.901

max val(#1017) = 238.65us
 min val(#434) = 49.77us
 peak-to-peak = 188.88us
 mean +- RMS = 57.94 +- 8.60 us

packet size: 530
 number of packets: 1024
 RATE = 542.71kbps, PPS = 128.0

3.2 RAW AF_PACKET “socket(AF_PACKET, SOCK_RAW, 0)”

3.2.1 RAW AF_PACKET, 1 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t raw_ptpl2 -m rx-lat -n 1024
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCSHWTSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

36.45	32.592	30.927	26.568	30.37	26.1	26.188	30.757
25.537	25.543	29.857	28.777	30.538	32.244	28.8	29.963
30.058	36.138	32.735	29.16	30.111	32.429	29.752	29.948
33.72	28.67	26.133	31.112	30.537	29.29	33.012	27.726
29.557	30.535	28.576	27.449	30.793	26.883	26.811	31.198
25.606	25.825	31.501	25.966	25.732	29.65	30.342	28.432
33.176	26.004	29.986	30.424	26.575	26.298	32.856	25.832
31.091	26.59	26.915	30.977	26.314	27.279	32.059	29.046
28.006	33.204	31.345	28.698	33.924	28.314	28.142	31.445
28.161	28.536	32.206	28.269	29.088	40.048	30.354	26.892
33.427	26.009	32.907	33.4	28.961	28.865	32.203	28.937
30.015	32.817	26.247	25.612	32.921	26.305	30.071	26.256
26	30.39	29.155	25.896	29.668	26.35	26.87	31.166
26.372	26.046	30.242	30.628	27.54	31.545	26.124	26.462
31.761	27.315	29.166	33.602	27.619	28.573	33.418	28.768
28.684	31.308	30.034	29.279	32.812	28.935	25.469	33.064
28.951	28.253	33.915	25.87	33.963	29.013	28.101	32.134
25.218	33.707	36.516	28.73	27.008	31.704	27.735	27.411
27.026	30.546	29.254	32.087	27.029	26.495	29.927	27.027
27.356	31.245	25.86	26.42	31.079	26.77	26.888	29.288
25.626	25.698	33.687	25.97	26.639	30.173	25.666	30.734
36.51	28.005	33.86	25.899	29.839	30.115	33.427	28.49
31.647	29.7	31.764	33.35	29.526	26.545	34.306	26.398
28.321	33.388	26.144	29.552	33.808	27.949	28.467	30.711
26.517	26.711	33.479	26.091	26.35	33.288	29.729	26.117
31.03	25.296	27.613	31.949	25.912	25.736	31.569	27.03
27.348	30.911	28.331	31.174	28.376	26.652	29.953	26.463
26.655	31.211	26.127	25.898	33.014	25.766	29.585	32.032
28.723	28.601	32.657	29.343	33.764	34.679	31.318	27.273
37.147	29.55	30.233	31.768	25.933	28.897	33.504	29.209
28.737	30.532	32.991	26.695	31.879	26.73	30.97	26.758
27.459	30.261	25.361	25.895	31.249	25.23	27.242	29.976
25.666	26.561	31.48	31.71	26.413	31.538	26.571	26.575
30.066	25.352	26.686	31.593	26.774	26.356	30.405	27.437
27.708	41.279	31.418	28.893	30.607	28.988	29.211	32.192
28.468	26.026	34.223	29.734	33.321	28.801	25.837	30.806
36.042	29.826	34.266	26.268	30.329	33.985	30.302	28.796
30.976	27.205	26.606	31.547	26.187	26.673	31.578	26.724
28.302	30.193	26.681	26.95	30.802	26.043	26.24	31.488
27.231	26.083	29.78	25.548	25.812	32.795	26.65	30.728
35.991	26.793	32.917	27.583	26.437	33.192	26.048	30.145
30.409	34.811	28.833	31.127	29.923	29.261	32.897	29.494
28.531	33.238	29.599	25.92	32.682	26.19	26.672	31.472
28.01	28.185	29.749	28.91	30.057	36.019	28.18	27.1
34.593	27.468	27.803	30.396	26.727	27.043	31.514	26.708
31.36	27.171	27.678	31.56	26.062	25.231	29.931	25.77
28.092	29.926	25.427	26.549	30.958	25.537	26.446	30.767
26.06	27.184	33.874	32.167	30.005	31.417	30.882	29.452
35.817	28.472	26.261	34.551	30.138	28.83	32.566	26.309
27.63	31.316	28.156	26.758	30.836	28.828	32.713	29.122
31.146	30.543	27.773	26.534	31.699	26.316	25.742	31.376
27.243	31.39	34.343	25.933	26.9	27.578	31.366	25.988
33.432	26.955	26.327	30.57	25.529	25.579	31.889	26.211
27.112	30.315	26.394	26.383	31.362	26.353	26	31.42
33.238	28.044	33.123	28.671	31.401	30.812	29.413	32.97
33.74	26.9	35.321	28.791	28.125	31.97	27.113	29.806
39.186	29.338	28.358	31.453	30.416	28.086	30.39	25.892
27.376	31.376	26.585	26.054	29.865	26.256	26.239	33.159
29.792	26.21	31.16	27.488	28.278	30.474	30.649	26.823
32.8	27.845	28.114	30.354	25.679	31.45	25.907	26.629
35.51	29.625	27.389	33.252	28.428	28.369	31.801	29.123
28.433	31.935	28.012	28.673	34.764	28.954	26.158	32.898
31.556	27.974	34.11	28.505	29.413	34.824	32.146	26.904
30.255	25.217	26.219	33.156	27.319	26.927	33.184	26.924
32.873	25.373	25.467	30.041	25.194	27.446	31.173	25.201
25.109	30.024	26.608	25.369	29.962	24.763	28.665	26.986
31.886	25.864	29.102	32.046	27.474	31.461	31.038	28.889
30.902	32.068	29.368	30.081	28.731	28.872	34.429	28.65
28.403	30.725	28.269	29.609	29.86	28.088	32.764	25.714
30.401	35.34	26.944	28.464	32.882	28.589	30.365	31.184
26.562	31.882	34.014	28.468	26.696	30.771	27.114	27.426
33.111	28.267	26.244	32.154	28.117	27.062	33.566	26.54
26.956	32.234	26.232	26.309	29.451	25.793	26.977	30.959
26.908	26.841	30.732	26.264	32.745	29.673	31.952	38.403
32.384	29.551	36.593	29.435	29.804	36.699	29.448	29.224
33.514	29.848	29.195	33.565	28.945	28.84	35.69	30.208
28.796	32.593	26.142	26.188	31.881	26.369	26.476	30.538
25.784	26.745	30.965	26.244	26.066	35.469	32.105	27.039
31.185	26.016	31.596	28.452	28.189	31.147	26.927	27.534
32.565	27.427	27.367	30.385	26.775	26.901	34.165	26.634
25.993	30.286	28.291	27.253	33.544	29.601	29.33	35.404
30.298	29.55	33.981	33.28	32.252	31.271	38.877	29.484
30.027	31.206	30.286	33.613	29.533	29.385	35.491	29.33
34.376	29.114	30.816	32.694	26.658	26.429	34.529	26.447
27.162	32.08	27.238	26.329	31.42	27.776	26.503	31.631
26.417	26.139	38.78	27.358	28.722	37.615	28.65	27.808
33.789	27.574	27.354	33.426	28.672	27.083	31.534	26.443
26.367	33.445	26.608	29.118	38.996	27.817	43.235	29.218
28.629	39.264	28.926	28.576	41.278	29.979	28.951	38.67
34.175	29.623	41.635	28.852	27.271	35.566	32.214	29.781
35.252	26.924	27.462	32.823	26.925	26.698	32.232	27.777
26.547	37.047	25.884	26.609	32.421	26.175	28.732	32.115
26.81	27.096	37.398	25.876	35.745	26.438	30.298	35.41
28.028	26.309	32.604	28.497	27.909	33.358	29.271	27.855
34.751	31.241	30.579	41.837	30.206	31.038	40.884	29.804
29.218	41.016	29.573	31.101	40.711	29.694	32.775	41.819
31.609	29.38	31.688	27.342	30.3	36.888	31.163	27.35
32.492	28.626	33.066	27.236	27.015	36.813	30.783	27.23

27.694	31.972	26.811	33.853	26.886	26.797	31.382	26.013
26.901	37.844	26.463	27.502	36.16	28.219	29.636	31.809
26.273	26.473	31.744	31.303	26.919	32.109	26.616	28.604
40.618	29.34	29.287	40.304	29.9	29.379	42.577	29.654
41.872	30.216	30.006	41.483	29.009	28.494	39.04	28.847
28.204	38.899	26.199	28.954	33.593	26.205	30.716	32.328
27.69	29.465	33.791	26.853	25.771	34.041	27.112	26.281
33.068	26.211	27.535	32.137	26.804	30.337	39.201	30.863
27.882	32.592	25.892	30.855	32.465	27.063	31.77	26.72
26.09	32.841	27.028	26.454	32.306	26.311	30.412	29.432
33.712	29.612	39.747	30.783	31.204	39.805	28.322	29.346
41.732	30.138	29.845	38.661	28.757	29.367	40.936	28.661
28.871	38.485	29.802	29.32	39.243	29.197	28.394	40.06
27.378	26.599	39.728	29.322	33.194	31.237	31.213	32.178
26.777	28.361	33.662	30.341	27.801	31.647	27.517	26.703
31.703	25.944	26.394	34.376	27.81	26.81	34.881	27.121
26.904	32.144	26.375	26.439	33.185	28.855	26.193	31.927
28.911	29.275	40.579	28.985	36.715	41.377	31.285	31.589
42.32	27.782	42.075	29.852	29.879	40.062	28.562	28.345
39.009	29.115	28.895	39.862	28.639	25.985	42.742	27.055
28.773	31.799	26.432	26.741	33.463	26.411	26.381	32.177
27.984	26.236	39.023	26.912	26.704	35.139	29.872	25.896
33.435	26.806	27.023	33.118	26.526	25.834	32.361	28.53
32.856	26.937	26.484	32.472	26.661	26.807	42.331	26.999
29.966	41.416	29.546	28.749	38.439	29.574	29.114	38.842
32.679	31.354	41.783	30.733	30.775	36.279	32.167	29.712
41.356	29.202	29.143	32.074	28.888	29.617	33.9	26.798
26.581	31.982	27.498	27.212	31.719	26.421	33.47	27.352
28.145	32.174	26.507	26.235	25.233	32.97	31.179	33.562
25.47	29.995	34.048	25.881	29.155	33.47	28.864	26.892

max val(#702) = 43.23us
min val(#525) = 24.76us
peak-to-peak = 18.47us
mean +- RMS = 29.94 +- 3.58 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

54.168	36.437	34.485	32.533	31.882	32.534	31.72	32.696
32.208	31.069	31.232	40.504	41.968	36.762	40.341	42.294
36.925	52.542	42.944	40.504	41.968	36.112	41.643	42.944
35.299	40.829	35.136	36.437	42.456	40.504	36.6	35.624
37.576	37.414	35.136	36.438	35.787	33.997	34.486	34.16
35.787	32.696	32.858	31.72	32.208	31.394	37.413	36.437
34.974	35.299	33.835	33.022	39.203	39.528	33.346	32.045
32.534	32.696	32.533	32.371	31.72	32.859	32.858	41.317
40.504	38.064	40.992	35.624	36.925	40.83	40.667	35.624
41.48	40.83	36.437	40.016	40.992	48.15	42.781	36.762
37.413	37.413	39.366	37.251	35.136	35.299	33.509	41.318
37.413	35.787	35.136	35.136	38.064	40.829	32.533	31.72
37.739	35.624	33.184	31.557	31.232	32.371	33.184	37.738
43.757	43.432	37.901	45.709	40.016	37.902	39.528	38.715
33.184	33.997	34.974	36.6	33.021	36.926	36.6	40.829
40.504	35.95	42.782	40.341	35.786	41.317	37.414	37.251
36.6	41.968	38.389	33.184	35.949	40.178	35.95	34.811
32.046	43.106	37.251	36.112	35.299	35.461	42.456	40.341
36.112	36.925	33.835	33.672	33.835	34.648	32.371	39.528
32.696	34.16	31.883	33.51	32.37	38.877	32.371	32.208
31.72	34.973	32.696	37.413	32.533	32.046	32.858	39.203
39.202	40.667	37.576	32.858	42.944	44.734	37.088	40.504
35.136	46.197	41.317	37.25	36.112	33.346	36.763	34.16
40.504	35.95	37.738	41.805	36.762	34.16	39.691	33.021
35.298	36.275	35.298	35.299	37.902	37.25	36.6	32.371
33.184	33.672	33.184	33.021	32.696	31.72	33.022	33.184
39.691	37.901	32.696	33.835	34.811	33.347	32.208	37.088
32.696	33.834	32.045	32.696	35.461	32.696	40.667	35.624
40.341	43.269	31.72	40.341	47.174	37.738	42.618	33.184
37.739	42.619	42.618	34.811	37.901	42.944	36.6	41.154
34.485	35.136	37.088	35.624	35.787	34.974	33.184	35.136
34.81	34.486	31.72	32.371	32.371	31.558	32.533	31.72
31.882	35.136	37.413	33.021	33.51	33.672	33.184	33.998
32.046	31.394	34.322	33.835	33.509	32.696	31.883	34.16
34.974	37.576	40.83	41.155	33.021	41.48	40.992	36.275
40.342	31.72	38.389	40.667	36.763	40.83	37.901	34.81
48.312	42.618	37.901	38.877	38.552	37.088	37.576	42.456
33.184	35.299	41.154	36.437	39.528	33.022	33.509	34.323
32.045	32.696	32.859	32.696	32.533	32.046	31.883	32.045
32.208	38.064	33.184	38.064	32.208	35.949	31.72	45.547
33.835	34.323	34.486	35.136	33.184	36.275	33.672	42.944
41.805	37.576	41.155	33.672	42.294	42.131	35.949	43.432
32.696	38.064	41.48	33.997	35.787	32.208	34.974	34.973
35.95	35.136	32.696	40.504	43.106	41.318	42.293	35.136
39.528	36.6	33.997	31.557	34.648	33.672	33.184	32.696
32.045	32.533	33.509	32.37	31.557	38.39	32.696	35.461
32.533	31.395	32.208	33.509	33.184	32.045	32.696	32.371
31.557	34.323	35.95	46.197	43.107	33.509	43.757	44.896
36.112	39.853	32.37	37.088	36.6	42.131	35.95	32.696
37.414	34.974	35.136	35.299	32.37	37.088	35.462	39.04
36.112	33.184	35.461	34.81	36.6	39.853	31.882	33.346
34.16	37.576	40.667	40.179	40.829	41.642	39.203	40.341
39.691	40.016	44.082	33.184	32.045	33.51	33.347	37.738
32.045	32.696	32.208	32.208	32.859	33.021	32.371	36.275
43.106	41.317	37.251	42.131	33.021	44.083	42.13	36.6
46.522	34.323	37.576	36.274	40.666	36.112	35.136	44.082
39.365	42.131	35.786	35.136	43.107	40.83	35.299	32.045
33.184	36.275	33.51	33.835	31.883	33.997	32.37	35.624
38.064	32.533	48.638	32.37	34.322	32.533	47.336	232.451
43.758	43.27	42.294	40.667	278.16	42.294	40.992	43.92
43.758	53.843	41.155	43.757	52.704	53.355	34.323	42.456
35.299	35.461	40.504	39.854	42.944	54.493	37.738	44.083
52.704	57.747	41.805	40.504	43.269	44.408	44.896	38.39
43.107	40.504	38.552	44.083	42.781	35.624	41.48	35.787
37.739	43.269	41.968	32.208	41.48	42.456	32.371	41.48
53.03	33.021	54.981	54.493	32.37	42.782	40.178	35.787
44.083	39.853	39.853	42.456	45.709	34.485	44.408	55.47
35.949	57.584	55.307	34.648	57.096	56.608	34.323	55.795
53.843	33.021	53.843	54.818	33.184	55.307	41.318	31.558
55.632	40.342	32.859	40.992	40.992	36.6	43.432	42.456
33.021	48.637	46.523	36.6	41.805	42.619	33.997	42.781
43.757	34.16	41.643	35.624	42.456	43.269	37.413	41.154
41.968	38.064	35.624	42.13	35.461	35.299	35.787	35.461
35.298	35.624	35.136	36.763	38.064	43.757	42.456	42.619
45.384	42.131	39.365	35.787	40.992	40.504	41.968	41.805

36.763	40.992	42.293	36.274	41.155	42.618	36.437	41.642
40.666	35.462	34.811	33.834	35.461	35.624	35.95	35.624
35.298	36.438	35.299	35.949	35.461	44.571	41.968	36.925
37.739	36.763	36.6	38.227	37.902	35.786	42.13	42.131
37.576	38.227	35.461	35.624	35.624	39.528	37.413	36.275
36.274	35.787	38.226	36.6	36.763	42.456	36.112	38.064
39.04	42.944	36.763	47.661	46.685	46.848	40.016	42.131
41.968	45.709	42.619	36.925	43.92	41.642	37.576	37.739
36.438	36.438	36.437	37.088	36.275	43.758	42.619	35.786
37.088	43.106	35.298	35.298	42.456	37.739	37.901	41.805
34.486	34.973	48.15	36.438	43.92	44.734	42.619	44.083
44.245	37.088	36.762	43.757	37.902	37.738	41.805	35.624
36.926	43.27	35.624	42.293	42.456	43.106	44.57	42.131
41.643	42.13	40.829	42.293	45.059	41.318	41.48	43.432
47.824	43.107	47.01	53.842	40.666	54.33	43.432	43.432
50.101	40.992	42.456	49.938	40.992	34.811	43.106	36.112
35.624	42.619	35.624	35.949	42.944	37.413	35.461	42.619
34.811	36.438	44.408	41.968	42.944	41.317	47.173	47.174
38.064	36.275	42.294	37.413	36.762	44.571	36.437	37.413
44.408	43.594	41.968	43.107	42.944	43.269	50.752	41.805
41.805	50.426	42.294	42.131	50.264	44.245	41.805	50.752
45.546	41.968	40.667	34.81	41.155	44.896	38.715	34.322
41.806	38.552	42.782	34.16	34.485	46.034	36.6	35.786
37.088	41.806	35.786	44.082	34.973	34.323	41.805	34.323
42.456	43.432	41.968	42.131	42.619	46.36	36.6	42.618
34.81	34.973	43.595	41.48	43.432	42.619	36.925	40.016
46.198	42.781	42.782	43.106	42.618	44.896	43.107	42.781
50.102	43.106	42.131	51.728	41.48	40.829	44.082	41.155
40.504	41.318	34.16	35.787	43.92	36.275	35.949	41.968
37.088	41.968	46.36	35.136	35.461	45.384	34.485	41.968
57.258	35.299	37.088	47.824	53.843	37.414	43.269	36.275
52.541	42.944	34.973	33.834	43.107	34.811	43.27	35.624
35.461	44.082	36.437	35.95	41.643	37.251	36.6	40.016
45.384	42.294	41.805	44.408	44.571	42.944	42.131	42.293
45.709	37.088	40.992	42.456	40.83	43.27	43.92	35.136
41.643	42.131	41.643	40.504	42.13	41.317	40.992	42.131
36.763	34.322	41.643	37.738	44.896	41.642	38.226	41.805
33.997	38.877	43.595	42.944	36.112	42.131	35.95	35.136
41.968	34.811	34.648	45.059	35.624	38.715	42.944	34.973
36.6	42.456	35.298	34.973	41.805	36.6	35.299	42.944
41.318	41.317	44.082	41.317	53.192	54.656	42.131	44.245
52.541	43.595	51.077	42.619	41.643	44.408	40.667	40.667
43.106	42.293	41.643	43.432	40.992	36.925	43.92	34.973
34.811	42.131	34.648	36.925	43.594	35.298	34.485	43.432
36.926	35.461	49.288	36.925	35.624	48.637	37.739	35.462
44.083	36.275	43.758	44.408	36.112	35.949	43.269	37.576
42.618	37.25	36.437	42.294	36.926	38.714	43.595	35.299
43.269	44.083	42.944	40.829	42.131	42.782	42.456	42.781
48.475	43.595	51.24	43.92	43.432	44.734	42.293	41.643
45.059	42.619	40.341	41.48	35.136	42.294	42.294	35.136
34.16	41.643	37.25	35.949	41.806	36.763	41.968	35.136
36.763	41.643	35.787	35.298	40.829	42.13	47.173	45.059
36.925	50.589	49.126	43.106	42.781	48.475	44.571	41.806

max val(#476) = 278.16us
min val(#9) = 31.07us
peak-to-peak = 247.09us
mean +- RMS = 39.34 +- 10.88 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

90.618	69.029	65.412	59.101	62.252	58.634	57.908	63.453
57.745	56.612	61.089	69.281	72.506	69.006	69.141	72.257
66.983	88.68	75.679	69.664	72.079	68.541	71.395	72.892
69.019	69.499	61.269	67.549	72.993	69.794	69.612	63.35
67.133	67.949	63.712	63.887	66.58	60.88	61.297	65.358
61.393	58.521	64.359	57.686	57.94	61.044	67.755	64.869
68.15	61.303	63.821	63.446	65.778	65.826	66.202	57.877
63.625	59.286	59.448	63.348	58.034	60.138	64.917	70.363
68.51	71.268	72.337	64.322	70.849	69.144	68.809	67.069
69.641	69.366	68.643	68.285	70.08	88.198	73.135	63.654
70.84	63.422	72.273	70.651	64.097	64.164	65.712	70.255
67.428	68.604	61.383	60.748	70.985	67.134	62.604	57.976
63.739	66.014	62.339	57.453	60.9	58.721	60.054	68.904
70.129	69.478	68.143	76.337	67.556	69.447	65.652	65.177
64.945	61.312	64.14	70.202	60.64	65.499	70.018	69.597
69.188	67.258	72.816	69.62	68.598	70.252	62.883	70.315
65.551	70.221	72.304	59.054	69.912	69.191	64.051	66.945
57.264	76.813	73.767	64.842	62.307	67.165	70.191	67.752
63.138	67.471	63.089	65.759	60.864	61.143	62.298	66.555
60.052	65.405	57.743	59.93	63.449	65.647	59.259	61.496
57.346	60.671	66.383	63.383	59.172	62.219	58.524	69.937
75.712	68.672	71.436	58.757	72.783	74.849	70.515	68.994
66.783	75.897	73.081	70.6	65.638	59.891	71.069	60.558
68.825	69.338	63.882	71.357	70.57	62.109	68.158	63.732
61.815	62.986	68.777	61.39	64.252	70.538	66.329	58.488
64.214	58.968	60.797	64.97	58.608	57.456	64.591	60.214
67.039	68.812	61.027	65.009	63.187	59.999	62.161	63.551
59.351	65.045	58.172	58.594	68.475	58.462	70.252	67.656
69.064	71.87	64.377	69.684	80.938	72.417	73.936	60.457
74.886	72.169	72.851	66.579	63.834	71.841	70.104	70.363
63.222	65.668	70.079	62.319	67.666	61.704	64.154	61.894
62.269	64.747	57.081	58.266	63.62	56.788	59.775	61.696
57.548	61.697	68.893	64.731	59.923	65.21	59.755	60.573
62.112	56.746	61.008	65.428	60.283	59.052	62.288	61.597
62.682	78.855	72.248	70.048	63.628	70.468	70.203	68.467
68.81	57.746	72.612	70.401	70.084	69.631	63.738	65.616
84.354	72.444	72.167	65.145	68.881	71.073	67.878	71.252
64.16	62.504	67.76	67.984	65.715	59.695	65.087	61.047
60.347	62.889	59.54	59.646	63.335	58.089	58.123	63.533
59.439	64.147	62.964	63.612	58.02	68.744	58.37	76.275
69.826	61.116	67.403	62.719	59.621	69.467	59.72	73.089
72.214	72.387	69.988	64.799	72.217	71.392	68.846	72.926
61.227	71.302	71.079	59.917	68.469	58.398	61.646	66.445
63.96	63.321	62.445	69.414	73.163	77.337	70.473	62.236
74.121	64.068	61.8	61.953	61.375	60.715	64.698	59.404
63.405	59.704	61.187	63.93	57.619	63.621	62.627	61.231
60.625	61.321	57.635	60.058	64.142	57.582	59.142	63.138
57.617	61.507	69.824	78.364	73.112	64.926	74.639	74.348
71.929	68.325	58.631	71.639	66.738	70.961	68.516	59.005
65.044	66.29	63.292	62.057	63.206	65.916	68.175	68.162
67.258	63.727	63.234	61.344	68.299	66.169	67.624	64.722
61.403	68.966	75.01	66.112	67.729	69.22	70.569	66.329

73.123	66.971	70.409	63.754	57.574	59.089	65.236	63.949
59.157	63.011	58.602	58.591	64.221	59.374	58.371	67.695
76.344	69.361	70.374	70.802	64.422	74.895	71.543	69.57
80.262	61.223	72.897	65.065	68.791	68.082	62.249	73.888
78.551	71.469	64.144	66.589	73.523	68.916	65.689	57.937
60.56	67.651	60.095	59.889	61.748	60.253	58.609	68.783
67.856	58.743	79.798	59.858	62.6	63.007	77.985	259.274
76.558	71.115	70.408	71.021	303.839	73.744	66.899	70.549
79.268	83.468	68.544	77.009	81.132	81.724	66.124	71.579
63.732	67.396	68.516	68.527	77.708	83.447	63.896	76.981
84.26	85.721	75.915	69.009	72.682	79.232	77.042	65.294
73.362	65.721	64.771	77.239	70.1	62.551	74.664	62.711
70.612	68.642	67.435	62.249	66.674	69.902	63.544	66.681
78.139	63.045	81.589	79.862	62.332	67.545	68.843	62.773
75.969	65.717	68.955	74.502	73.183	65.946	75.446	84.359
66.851	89.652	84.675	64.729	85.827	85.48	68.752	84.445
82.246	63.746	82.112	84.427	63.044	83.395	74.082	57.272
86.033	75.682	59.803	69.456	73.874	65.189	73.797	73.64
59.583	80.519	80.537	65.068	68.501	73.39	61.111	70.207
76.868	62.427	67.887	67.778	70.573	70.331	70.979	67.694
68.924	70.298	61.856	68.439	64.912	61.092	62.764	66.42
62.206	62.465	65.868	63.027	70.809	73.43	74.408	81.022
77.768	71.682	75.958	65.222	70.796	77.203	71.416	71.029
70.277	70.84	71.488	69.839	70.1	71.458	72.127	71.85
69.462	68.055	60.953	60.022	67.342	61.993	62.426	66.162
61.082	63.183	66.264	62.193	61.527	80.04	74.073	63.964
68.924	62.779	68.196	66.679	66.091	66.933	69.057	69.665
70.141	65.654	62.828	66.009	62.399	66.429	71.578	62.909
62.267	66.073	66.517	63.853	70.307	72.057	65.442	73.468
69.338	72.494	70.744	80.941	78.937	78.119	78.893	71.615
71.995	76.915	72.905	70.538	73.453	71.027	73.067	67.069
70.814	65.552	67.253	69.782	62.933	70.187	77.148	62.233
64.25	75.186	62.536	61.627	73.876	65.515	64.404	73.436
60.903	61.112	86.93	63.796	72.642	82.349	71.269	71.891
78.034	64.662	64.116	77.183	66.574	64.821	73.339	62.067
63.293	76.715	62.232	71.411	81.452	70.923	87.805	71.349
70.272	81.394	69.755	70.869	86.337	71.297	70.431	82.102
81.999	72.73	88.645	82.694	67.937	89.896	75.646	73.213
85.353	67.916	69.918	82.761	67.917	61.509	75.338	63.889
62.171	79.666	61.508	62.558	75.365	63.588	64.193	74.734
61.621	63.534	81.806	67.844	78.689	67.755	77.471	82.584
66.092	62.584	74.898	65.91	64.671	77.929	65.708	65.268
79.159	74.835	72.547	84.944	73.15	74.307	91.636	71.609
71.023	91.442	71.867	73.232	90.975	73.939	74.58	92.571
77.155	71.348	72.355	62.152	71.455	81.784	69.878	61.672
74.298	67.178	75.848	61.396	61.5	82.847	67.383	63.016
64.782	73.778	62.597	77.935	61.859	61.12	73.187	60.336
69.357	81.276	68.431	69.633	78.779	74.579	66.236	74.427
61.083	61.446	75.339	72.783	70.351	74.728	63.541	68.62
86.816	72.121	72.069	83.41	72.518	74.275	85.684	72.435
91.974	73.322	72.137	93.211	70.489	69.323	83.122	70.002
68.708	80.217	60.359	64.741	77.513	62.48	66.665	74.296
64.778	71.433	80.151	61.989	61.232	79.425	61.597	68.249
90.326	61.51	64.623	79.961	80.647	67.751	82.47	67.138
80.423	75.536	60.865	64.689	75.572	61.874	75.04	62.344
61.551	76.923	63.465	62.404	73.949	63.562	67.012	69.448
79.096	71.906	81.552	75.191	75.775	82.749	70.453	71.639
87.441	67.226	70.837	81.117	69.587	72.637	84.856	63.797
70.514	80.616	71.445	69.824	81.373	70.514	69.386	82.191
64.141	60.921	81.371	67.06	78.09	72.879	69.439	73.983
60.774	67.238	77.257	73.285	63.913	73.778	63.467	61.839
73.671	60.755	61.042	79.435	63.434	65.525	77.825	62.094
63.504	74.6	61.673	61.412	74.99	65.455	61.492	74.871
70.229	70.592	84.661	70.302	89.907	96.033	73.416	75.834
94.861	71.377	93.152	72.471	71.522	84.47	69.229	69.012
82.115	71.408	70.538	83.294	69.631	62.91	86.662	62.028
63.584	73.93	61.08	63.666	77.057	61.709	60.866	75.609
64.91	61.697	88.311	63.837	62.328	83.776	67.611	61.358
77.518	63.081	70.781	77.526	62.638	61.783	75.63	66.106
75.474	64.187	62.921	74.766	63.587	65.521	85.926	62.298
73.235	85.499	72.49	69.578	80.57	72.356	71.57	81.623
81.154	74.949	93.023	74.653	74.207	81.013	74.46	71.355
86.415	71.821	69.484	73.554	64.024	71.911	76.194	61.934
60.741	73.625	64.748	63.161	73.525	63.184	75.438	62.488
64.908	73.817	62.294	61.533	66.062	75.1	78.352	78.621
62.395	80.584	83.174	68.987	71.936	81.945	73.435	68.698

max val(#476) = 303.84us
min val(#9) = 56.61us
peak-to-peak = 247.23us
mean +- RMS = 69.28 +- 11.95 us

packet size: 526
number of packets: 1024
RATE = 4.21kbps, PPS = 1.0

3.2.2 RAW AF_PACKET, 128 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t raw_ptpl2 -m rx-lat -n 1024
SIOCGLWSTAMP: tx_type was 0; rx_filter was 12
SIOCGLWSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

38.698	25.448	24.63	26.839	25.121	24.397	26.197	24.257
23.658	23.571	23.442	23.755	27.496	24.238	23.761	25.832
25.938	24.125	26.442	23.844	23.569	24.215	23.902	23.407
23.674	23.675	30.611	26.284	26.704	26.516	26.072	24.22
28.293	23.839	24.3	23.869	24.099	26.244	24.385	24.5
23.992	24.101	23.644	23.59	26.623	24.458	23.606	23.74
23.515	24.289	25.691	24.846	25.059	23.647	24.787	23.577
24.338	26.485	24.145	23.739	36.398	24.533	24.174	23.704
24.182	23.825	25.919	25.876	24.672	23.548	25.871	23.722
23.428	23.602	23.192	23.599	26.007	24.046	23.841	25.606
25.598	24.474	26.228	23.095	23.568	23.814	23.857	31.13
23.587	22.905	21.905	24.447	24.408	25.069	25.019	22.536
24.091	21.996	23.247	21.667	23.518	21.513	21.744	23.138
24.278	24.152	21.527	23.843	25.855	23.008	21.945	23.108
21.759	23.794	21.95	22.097	23.51	24.726	22.963	21.786
21.725	24.5	27.567	23.287	23.888	22.052	23.833	21.559
23.381	21.624	24.316	23.908	22.01	21.787	24.31	21.806
22.816	22.093	21.558	23.578	23.306	24.216	21.989	24.265
24.005	22.502	23.854	21.041	21.288	22.988	21.799	21.711
23.436	21.917	28.891	25.539	24.34	24.661	24.388	22.513
24.414	21.343	22.743	21.273	23.874	26.355	22.202	23.776
22.042	23.896	21.346	21.523	25.148	24.436	21.987	23.047
21.951	23.584	22.087	21.928	23.369	24.575	22.853	21.54
21.748	24.227	27.752	24.002	23.643	21.922	23.838	21.609
23.614	21.886	24.552	24.098	22.374	21.759	24.612	22.345
22.991	21.56	21.846	23.76	23.678	23.735	21.447	24.385
24.494	22.268	23.669	21.454	21.709	22.841	21.778	21.757
23.441	21.48	28.685	23.499	23.86	24.696	24.222	22.757
21.836	21.889	22.874	21.669	23.51	22.119	21.709	23.467
24.493	24.137	21.462	24.078	25.567	22.561	21.776	23.316
22.113	23.734	22.067	21.755	23.521	24.489	22.906	21.479
21.516	24.651	28.115	23.669	23.433	22.243	23.622	22.249
23.843	21.394	24.408	24.41	22.375	21.955	24.738	21.61
23.074	21.677	21.584	23.538	23.37	23.64	21.947	22.191
24.778	22.707	24.353	21.766	22.101	22.894	21.786	21.812
23.431	25.622	30.917	24.577	24.056	23.991	24.014	23.751
24.468	21.984	22.983	21.808	23.758	25.404	22.181	23.896
21.867	24.068	22.209	21.916	25.805	24.783	21.725	23.279
22.044	24.055	21.907	21.931	23.569	24.92	22.874	21.898
23.145	30.771	26.358	23.13	23.751	21.989	23.725	21.959
23.54	21.606	24.626	24.453	23.157	22.545	24.385	21.533
23.078	21.846	21.451	23.645	23.463	23.877	21.682	24.634
24.49	22.619	24.246	21.808	21.626	23.364	21.681	21.471
23.973	27.657	24.08	22.287	23.649	24.706	24.057	22.946
24.061	21.728	23.146	21.384	23.686	21.911	22.212	23.828
24.946	24.587	21.785	24.546	25.836	22.841	21.967	23.099
22.158	23.688	22.16	21.604	23.873	24.661	22.786	21.986
21.603	30.402	26.133	23.465	23.792	21.968	23.587	22.013
23.669	21.648	24.753	24.766	21.891	21.932	24.58	24.369
23.213	22.038	21.835	23.844	23.299	24.223	22.224	24.605
24.463	22.961	24.662	21.962	21.902	23.322	21.888	21.643
23.842	28.718	23.993	24.5	23.694	24.539	24.322	22.804
24.368	21.703	23.365	21.718	23.775	25.239	22.447	23.974
21.806	24.451	22.15	21.907	25.802	22.368	22.321	24.257
22.265	24.03	22.319	21.788	23.662	24.804	22.746	21.922
23.88	30.95	26.301	23.606	23.676	22.113	24.218	21.723
23.977	21.987	26.583	24.459	23.291	25.401	24.44	22.902
23.391	23.214	21.371	23.001	26.005	22.278	22.023	23.495
24.607	23.617	24.382	22.026	21.859	23.948	22.146	29.494
24.159	28.032	24.268	24.682	23.877	24.41	24.416	22.985
23.108	22.517	23.64	26.115	23.279	21.925	22.742	23.179
22.614	27.339	22.047	22.025	28.027	23.793	22.067	23.09
22.187	23.449	21.898	21.515	23.995	25.164	22.837	30.816
25.738	23.96	22.938	23.997	23.889	23.188	23.803	21.481
23.544	22.55	24.871	24.446	23.063	21.858	24.289	23.982
23.259	21.902	21.729	23.577	23.372	24.354	22.169	24.829
24.308	22.983	24.081	21.541	24.303	23.344	22.508	62.628
23.6	21.909	23.814	24.139	23.605	24.426	24.403	22.218
24.488	21.514	23.318	21.675	24.001	25.656	22.405	23.691
22.008	23.943	21.754	22.351	25.888	25.468	21.952	23.091
21.727	23.553	21.914	21.759	23.65	24.684	22.954	30.893
23.713	24.454	25.863	22.958	24.053	22.05	24.057	21.618
24.011	22.296	24.649	24.399	22.583	21.963	24.458	23.681
23.474	22.082	22.087	23.716	23.863	24.084	21.89	24.643
24.276	22.743	24.363	22.074	23.99	23.508	22.285	72.21
24.342	24.234	24.059	26.806	25.7	26.722	26.727	24.655
23.328	23.793	24.285	23.76	24.031	23.854	23.734	24.089
26.279	26.011	24.4	26.21	26.067	26.321	24.057	23.842
24.097	23.967	23.826	23.682	23.838	26.521	24.914	31.994
24.244	26.417	26.611	24.013	25.617	23.995	24.497	24.05
24.436	23.927	26.476	26.34	24.97	24.014	26.578	26.24
24.064	24.084	23.297	23.947	25.395	24.235	24.099	23.917
26.532	24.653	26.073	24.109	26.294	24.18	24.267	52.506
23.997	24.028	25.759	24.324	25.967	24.374	24.165	23.968
26.146	23.612	23.844	23.4	24.304	25.632	24.851	23.974
24.128	24.416	23.833	23.703	26.14	24.558	24.063	24.213
24.026	23.972	23.901	23.385	24.035	37.844	25.175	32.93
24.359	26.661	26.12	23.921	25.345	23.836	24.389	24.384
23.997	23.618	26.416	26.329	24.281	23.806	26.239	26.28
24.195	23.905	23.778	23.711	25.165	23.909	23.935	26.017
26.441	24.724	26.389	24.251	26.483	34.037	24.266	23.958
23.5	24.064	24.072	23.958	25.506	26.42	26.124	24.649
23.608	24.272	23.94	24.16	23.875	23.781	24.492	23.911
24.089	26.149	23.71	26.176	28.108	24.965	23.988	23.897
24.086	23.922	23.763	23.601	23.908	29.6	27.109	47.687
23.902	25.914	26.511	23.852	25.871	24.707	24.021	23.83
23.84	23.62	24.187	25.94	24.839	24.234	26.658	26.221
23.849	23.995	23.582	23.888	25.592	24.166	23.91	23.945
26.268	24.415	26.925	23.676	24.146	29.864	24.259	23.932
23.429	24.015	23.818	23.867	25.361	26.664	26.36	24.392
26.077	24.155	23.676	24.17	24.043	24.874	24.256	24.019
24.148	24.089	23.68	24.173	28.163	24.745	24.502	23.728

23.78	23.7	23.862	23.519	23.849	28.999	26.846	26.24
23.938	26.166	26.423	24.527	25.656	24.008	23.904	24.13
23.89	23.387	23.696	23.86	26.081	23.738	26	26.177
23.304	23.912	23.344	23.383	25.687	24.118	24.295	24.302
26.341	24.896	26.453	23.656	26.343	30.037	24.704	23.901
23.68	23.683	23.765	24.167	25.382	26.663	26.159	24.402
25.942	23.682	23.713	23.77	23.749	23.625	23.41	23.802
23.593	26.354	23.568	26.464	27.836	24.846	23.496	23.557
23.751	23.681	23.729	29.363	24.192	23.688	26.485	25.944
23.552	26.082	23.868	26.02	25.495	24.046	23.661	24.063
23.717	23.338	23.641	25.933	24.28	24.06	26.569	26.124
26.171	23.646	23.433	23.887	24.993	23.652	23.467	23.441
26.283	24.62	26.166	33.281	26.449	23.667	23.675	23.583
23.358	23.673	23.378	23.594	25.286	26.374	26	24.304
25.642	23.278	23.438	23.873	23.594	24.9	24.687	23.843
23.93	23.682	23.456	23.738	27.988	24.733	23.761	23.606
23.744	23.656	26.708	28.687	24.239	23.54	26.358	23.825
23.364	26.256	26.278	24.401	25.346	23.915	23.611	23.936
23.718	23.444	23.643	26.39	24.643	23.478	26.084	25.967
24.306	23.564	23.665	23.574	25.212	24.101	23.184	23.439
25.801	24.188	25.629	29.229	26.276	23.834	24.028	23.522
23.172	24.03	23.445	23.759	25.357	26.62	25.955	24.414
25.886	23.53	23.94	23.786	24.127	23.505	23.237	23.767
23.786	26.123	23.529	25.817	27.127	24.57	23.302	23.805
24.119	23.825	24.034	33.455	24.163	23.77	26.078	25.976
23.217	26.062	26.011	24.407	25.017	23.494	23.91	23.882

max val(#599) = 72.21us
min val(#147) = 21.04us
peak-to-peak = 51.17us
mean +- RMS = 24.25 +- 2.92 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

65.067	35.299	35.787	50.59	35.95	34.811	48.312	35.462
34.486	35.949	31.395	37.738	36.112	34.648	34.16	48.475
34.811	34.973	46.197	34.322	34.648	46.848	35.624	31.883
47.011	35.95	43.757	48.963	34.811	34.648	48.963	35.461
44.082	46.36	34.485	35.136	34.811	40.992	35.949	35.461
36.274	34.485	46.685	37.413	36.112	35.136	34.973	34.973
48.8	32.371	36.438	46.686	38.715	36.763	35.298	54.005
35.298	48.637	35.787	36.762	51.403	36.275	35.299	35.624
34.16	34.974	48.8	34.81	34.485	47.011	35.136	34.648
34.648	35.299	31.557	49.939	36.437	34.323	46.035	35.299
34.648	46.198	35.461	34.16	47.173	35.298	35.298	60.675
23.098	21.798	20.008	25.701	22.773	29.93	24.725	22.448
27.653	25.701	21.309	25.864	21.31	19.195	29.117	24.888
23.099	27.816	23.099	23.75	27.491	22.448	25.864	27.165
20.333	20.171	23.912	21.96	22.936	27.816	23.261	44.733
28.141	23.587	24.4	23.424	19.194	19.032	24.725	23.261
23.912	27.003	23.586	22.936	27.491	22.286	21.96	25.701
21.797	18.869	23.75	22.448	22.448	23.099	21.634	22.285
28.141	22.61	22.286	26.84	25.701	21.96	19.194	18.869
19.357	21.797	23.098	29.931	21.472	22.285	26.84	22.936
21.797	32.046	21.798	19.846	19.52	27.653	21.147	20.984
25.051	21.309	25.376	25.051	24.4	27.166	25.539	21.797
24.725	20.496	22.773	26.84	24.238	22.773	27.49	44.733
22.285	27.979	26.027	23.749	24.725	19.357	19.195	22.448
22.936	21.472	27.165	23.099	21.472	26.514	22.774	25.702
20.333	19.195	18.056	21.309	22.611	23.099	21.634	22.448
27.166	23.587	22.286	27.165	25.214	21.96	19.52	37.251
19.683	28.141	24.4	25.702	27.979	23.424	22.936	27.328
21.96	23.261	27.49	20.008	21.634	23.587	22.936	22.936
27.491	23.424	21.96	29.442	23.099	21.31	31.069	21.309
19.357	20.821	22.285	21.96	23.912	22.122	27.978	25.864
21.798	27.816	24.888	23.75	24.725	20.17	19.845	22.286
22.286	22.123	28.141	23.098	22.773	26.84	23.261	25.864
21.472	18.381	18.544	25.864	23.261	23.586	26.84	22.285
22.611	27.653	23.587	21.96	24.726	21.797	19.032	24.075
20.659	24.888	25.051	24.888	22.773	28.955	22.936	23.912
28.304	25.539	22.448	24.888	20.984	27.653	26.027	20.659
25.539	21.146	18.707	23.912	30.744	23.912	26.027	27.654
20.334	20.008	22.448	21.797	22.773	27.816	23.099	25.538
27.165	23.098	23.424	25.701	21.147	18.544	20.334	22.774
28.467	22.286	22.936	27.003	22.773	21.309	27.165	25.213
20.333	19.194	18.544	21.31	22.773	23.587	21.147	27.816
22.936	21.797	26.84	27.328	24.888	27.165	19.682	38.714
24.888	22.611	24.075	28.467	22.448	22.122	27.653	22.61
22.285	31.232	21.797	19.52	20.496	18.706	17.893	24.562
23.099	28.142	22.773	23.749	27.978	22.936	25.701	27.653
20.171	19.845	22.285	21.635	21.96	27.49	24.562	25.051
26.677	22.936	22.448	26.352	20.821	19.52	25.539	22.773
23.587	27.491	23.424	22.61	22.774	21.634	23.099	27.816
26.027	20.821	24.4	21.147	22.774	23.912	21.96	22.61
28.467	22.61	22.448	27.002	25.213	21.472	19.683	35.624
20.496	22.448	24.888	29.28	22.448	22.936	27.979	22.774
22.285	25.701	22.285	19.683	20.008	27.165	21.635	20.984
25.864	20.659	18.382	20.658	19.52	22.285	25.051	20.822
18.869	19.52	22.448	21.798	30.094	23.586	22.611	24.725
22.448	22.285	29.443	27.003	21.309	26.514	20.008	22.611
23.912	21.797	25.051	23.099	21.96	21.797	22.448	22.285
25.213	22.123	18.056	26.027	20.496	22.448	27.165	23.912
22.286	27.816	22.448	27.328	24.888	22.123	19.357	30.256
20.984	22.448	23.912	23.749	21.798	28.629	23.424	23.099
23.099	25.376	21.96	28.466	21.798	18.707	25.538	20.496
20.171	21.309	20.008	23.75	28.955	23.262	26.027	26.84
19.845	20.821	22.611	22.286	21.96	27.653	23.587	22.448
28.467	23.749	21.96	27.165	21.798	19.846	26.189	23.099
23.749	27.003	23.424	22.285	27.328	22.285	22.611	27.003
25.702	19.194	24.238	21.96	22.61	23.75	20.984	22.448
28.467	23.424	22.448	27.003	22.448	25.539	20.008	19.52
19.032	27.979	23.587	23.912	27.166	22.936	22.611	27.491
22.61	25.05	27.328	19.845	20.333	27.166	21.472	19.845
25.702	21.146	18.544	25.376	24.4	27.816	26.027	22.122
24.075	20.496	22.448	27.003	23.912	21.797	27.491	24.4
22.936	27.816	26.84	27.491	26.84	19.52	20.17	22.61
22.611	21.309	27.328	23.424	22.611	26.677	23.098	23.424
25.539	20.496	18.869	26.84	22.448	23.749	27.49	22.936
22.936	26.84	22.773	27.979	30.093	26.027	20.822	34.323
37.088	37.088	35.461	36.925	35.136	47.662	34.811	34.811
47.824	34.648	34.811	47.987	35.949	34.973	47.499	34.322
34.973	47.01	34.16	35.461	35.136	35.136	34.648	47.336
35.298	34.973	35.787	31.232	34.648	48.8	34.648	42.456

46.523	34.974	34.323	35.624	34.811	35.461	36.925	35.624
34.648	33.997	35.136	47.011	34.323	33.997	47.336	35.136
34.811	35.299	31.395	36.275	48.312	34.323	33.998	34.648
34.323	34.81	49.613	33.835	34.811	46.522	34.81	36.438
46.848	34.486	38.39	34.811	32.046	32.533	44.896	35.136
35.299	47.01	35.298	33.021	33.835	40.829	37.576	35.786
35.95	35.299	34.973	36.438	48.475	35.786	34.648	47.173
35.299	35.462	35.462	31.558	34.974	50.752	35.136	61.325
47.661	35.462	34.323	35.787	34.973	34.973	35.136	35.299
34.323	33.509	35.299	47.498	35.136	33.672	47.174	34.81
34.485	35.136	30.907	35.787	35.949	35.624	33.834	47.499
34.811	34.811	46.685	33.672	34.485	49.938	35.461	35.136
43.432	35.624	35.787	35.624	33.998	34.973	46.848	33.998
35.299	46.36	34.973	34.81	35.299	31.232	35.136	47.986
34.81	35.136	46.522	36.762	35.95	47.986	34.323	34.81
46.686	35.461	34.974	46.523	35.624	43.107	47.661	32.696
34.974	47.661	35.136	35.787	46.36	34.648	35.136	35.136
35.298	30.744	34.648	34.648	46.198	34.81	34.81	47.661
35.298	34.323	46.36	36.275	35.461	35.787	30.744	34.81
47.174	34.648	35.949	42.944	35.136	43.92	34.973	35.461
31.395	47.173	35.624	35.787	46.523	35.299	34.486	46.523
35.95	33.672	46.848	34.16	33.997	36.275	35.624	35.299
35.299	35.299	30.906	36.6	35.136	47.336	33.672	34.648
47.499	35.299	34.811	46.523	36.763	42.944	46.36	35.136
34.16	45.872	34.16	35.624	46.523	34.973	35.299	35.299
34.485	34.16	47.336	34.81	34.811	46.035	34.973	34.16
35.462	34.648	33.834	48.637	35.462	33.997	45.709	34.322
34.16	46.36	34.486	33.672	46.522	42.456	34.323	34.648
33.509	34.648	47.336	36.112	33.997	46.36	34.81	33.997
45.709	33.509	33.835	46.198	34.486	33.834	47.824	36.438
34.81	46.36	33.997	36.112	46.848	34.485	33.834	45.709
34.323	34.322	33.834	41.154	34.974	47.661	34.811	34.485
45.547	34.973	34.323	47.499	34.81	34.485	46.523	34.974
34.323	45.547	34.323	33.997	46.36	33.672	34.323	46.36
39.853	34.16	45.547	36.112	35.136	34.648	33.672	35.299
46.848	33.997	33.672	48.962	34.648	34.16	34.811	34.648
33.509	34.322	34.16	48.474	34.486	34.486	45.872	34.485
33.834	45.872	35.136	34.16	33.834	38.226	34.974	34.974
34.648	33.835	33.184	35.298	47.662	34.648	33.834	46.848
34.648	34.16	41.968	41.805	34.485	34.486	33.834	34.486
33.346	33.997	47.336	35.787	34.322	46.36	34.485	34.485
34.16	33.835	35.624	47.336	33.997	33.509	46.197	34.16
34.16	34.16	33.184	35.461	47.662	34.486	33.672	46.522
34.648	34.16	46.035	41.48	34.648	33.835	34.486	34.16
46.36	34.16	33.835	35.624	33.672	34.323	47.011	33.997
34.485	45.547	33.997	34.648	34.16	33.509	35.461	46.848
34.811	34.811	46.197	35.461	34.973	46.523	34.323	34.16
46.36	34.648	33.997	48.149	34.81	34.485	47.011	34.322
33.998	45.872	34.322	35.136	46.523	34.974	34.648	35.461

max val(#0) = 65.07us
min val(#358) = 17.89us
peak-to-peak = 47.17us
mean +- RMS = 30.89 +- 8.50 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

103.765	60.747	60.417	77.429	61.071	59.208	74.509	59.719
58.144	59.52	54.837	61.493	63.608	58.886	57.921	74.307
60.749	59.098	72.639	58.166	58.217	71.063	59.526	55.29
70.685	59.625	74.368	75.247	61.515	61.164	75.035	59.681
72.375	70.199	58.785	59.005	58.91	67.236	60.334	59.961
60.266	58.586	70.329	61.003	62.735	59.594	58.579	58.713
72.315	56.66	62.129	71.532	63.774	60.41	60.085	77.582
59.636	75.122	59.932	60.501	87.801	60.808	59.473	59.328
58.342	58.799	74.719	60.686	59.157	70.559	61.007	58.37
58.076	58.901	54.749	73.538	62.444	58.369	69.876	60.905
60.246	70.672	61.689	57.255	70.741	59.112	59.155	91.805
46.685	44.703	41.913	50.148	47.181	54.999	49.744	44.984
51.744	47.697	44.556	47.531	44.828	40.708	50.861	48.026
47.377	51.968	44.626	47.593	53.346	45.456	47.809	50.273
42.092	43.965	45.862	44.057	46.446	52.542	46.224	66.519
49.866	48.087	51.967	46.711	43.082	41.084	48.558	44.82
47.293	48.627	47.902	46.844	49.501	44.073	46.27	47.507
44.613	40.962	45.308	46.026	45.754	47.315	43.623	46.55
52.146	45.112	46.14	47.881	46.989	44.948	40.993	40.58
42.793	43.714	51.989	55.47	45.812	46.946	51.228	45.449
46.211	53.389	44.541	41.119	43.394	54.008	43.349	44.76
47.093	45.205	46.722	46.574	49.548	51.602	47.526	44.844
46.676	44.08	44.86	48.768	47.607	47.348	50.343	66.273
44.033	52.206	53.779	47.751	48.368	41.279	43.033	44.057
46.55	43.358	51.717	47.197	43.846	48.273	47.386	48.047
43.324	40.755	39.902	45.069	46.289	46.834	43.081	46.833
51.66	45.855	45.955	48.619	46.923	44.801	41.298	59.008
43.124	49.621	53.085	49.201	51.839	48.12	47.158	50.085
43.796	45.15	50.364	41.677	45.144	45.706	44.645	46.403
51.984	47.561	43.422	53.52	48.666	43.871	52.845	44.625
41.47	44.555	44.352	43.715	47.433	46.611	50.884	47.343
43.314	52.467	53.003	47.419	48.158	42.413	43.467	44.535
46.129	43.517	52.549	47.508	45.148	48.795	47.999	47.474
44.546	40.058	40.128	49.402	46.631	47.226	48.787	44.476
47.389	50.36	47.94	43.726	46.827	44.691	40.818	45.887
44.09	50.51	55.968	49.465	46.829	52.946	46.95	47.663
52.772	47.523	45.431	46.696	44.742	53.057	48.208	44.555
47.406	45.214	40.916	45.828	56.549	48.695	47.752	50.933
42.378	44.063	44.355	43.728	46.342	52.736	45.973	47.436
50.31	53.869	49.782	48.831	44.898	40.533	44.059	44.733
52.007	43.892	47.562	51.456	45.93	43.854	51.55	46.746
43.411	41.04	39.995	44.955	46.236	47.464	42.829	52.45
47.426	44.416	51.086	49.136	46.514	50.529	41.363	60.185
48.861	50.268	48.155	50.754	46.097	46.828	51.71	45.556
46.346	52.96	44.943	40.904	44.182	40.617	40.105	48.39
48.045	52.729	44.558	48.295	53.814	45.777	47.668	50.752
42.329	43.533	44.445	43.239	45.833	52.151	47.348	47.037
48.28	53.338	48.581	49.817	44.613	41.488	49.126	44.786
47.256	49.139	48.177	47.376	44.665	43.566	47.679	52.185
49.24	42.859	46.235	44.991	46.073	48.135	44.184	47.215
52.93	45.571	47.11	48.964	47.115	44.794	41.571	57.267
44.338	51.166	48.881	53.78	46.142	47.475	52.301	45.578
46.653	47.404	45.65	41.401	43.783	52.404	44.082	44.958
47.67	45.11	40.532	42.565	45.322	44.653	47.372	45.079
41.134	43.55	44.767	43.586	53.756	48.39	45.357	46.647
46.328	53.235	55.744	50.609	44.985	48.627	44.226	44.334

47.889	43.784	51.634	47.558	45.251	47.198	46.888	45.187
48.604	45.337	39.427	49.028	46.501	44.726	49.188	47.407
46.893	51.433	46.83	49.354	46.747	46.071	41.503	59.75
45.143	50.48	48.18	48.431	45.675	53.039	47.84	46.084
46.207	47.893	45.6	54.581	45.077	40.632	48.28	43.675
42.785	48.648	42.055	45.775	56.982	47.055	48.094	49.93
42.032	44.27	44.509	43.801	45.955	52.817	46.424	53.264
54.205	47.709	44.898	51.162	45.687	43.034	49.992	44.58
47.293	49.553	48.295	46.731	50.391	44.143	46.9	50.985
48.961	41.096	45.967	45.537	45.982	48.104	43.153	47.277
52.775	46.407	46.529	48.544	46.751	48.883	42.516	82.148
42.632	49.888	47.401	48.051	50.771	47.362	47.014	49.709
47.098	46.564	50.646	41.52	44.334	52.822	43.877	43.536
47.71	45.089	40.298	47.727	50.288	53.284	47.979	45.213
45.802	44.049	44.362	48.762	47.562	46.481	50.445	55.293
46.649	52.27	52.703	50.449	50.893	41.57	44.227	44.228
46.622	43.605	51.977	47.823	45.194	48.64	47.556	47.105
49.013	42.578	40.956	50.556	46.311	47.833	49.38	47.579
47.212	49.583	47.136	50.053	54.083	49.535	43.107	106.533
61.43	61.322	59.52	63.731	60.836	74.384	61.538	59.466
71.152	58.441	59.096	71.747	59.98	58.827	71.233	58.411
61.252	73.021	58.56	61.671	61.203	61.457	58.705	71.178
59.395	58.94	59.613	54.914	58.486	75.321	59.562	74.45
70.767	61.391	60.934	59.637	60.428	59.456	61.422	59.674
59.084	57.924	61.612	73.351	59.293	58.011	73.914	61.376
58.875	59.383	54.692	60.222	73.707	58.558	58.097	58.565
60.855	59.463	75.686	57.944	61.105	70.702	59.077	88.944
70.845	58.514	64.149	59.135	58.013	56.907	69.061	59.104
61.445	70.622	59.142	56.421	58.139	66.461	62.427	59.76
60.078	59.715	58.806	60.141	74.615	60.344	58.711	71.386
59.325	59.434	59.363	54.943	59.009	88.596	60.311	94.255
72.02	62.123	60.443	59.708	60.318	58.809	59.525	59.683
58.32	57.127	61.715	73.827	59.417	57.478	73.413	61.09
58.68	59.041	54.685	59.498	61.114	59.533	57.769	73.516
61.252	59.535	73.074	57.923	60.968	83.975	59.727	59.094
66.932	59.688	59.859	59.582	59.504	61.393	72.972	58.647
58.907	70.632	58.913	58.97	59.174	55.013	59.628	71.897
58.899	61.285	70.232	62.938	64.058	72.951	58.311	58.707
70.772	59.383	58.737	70.124	59.532	72.707	74.77	80.383
58.876	73.575	61.647	59.639	72.231	59.355	59.157	58.966
59.138	54.364	58.835	60.588	71.037	59.044	61.468	73.882
59.147	58.318	69.942	60.163	61.053	59.953	54.654	58.755
73.442	59.063	62.874	66.62	59.282	73.784	59.232	59.393
54.824	71.188	59.442	59.654	71.884	61.963	60.846	70.915
62.027	57.827	70.524	58.33	58.04	61.149	59.88	59.318
59.447	59.388	54.586	60.773	63.299	72.081	58.174	58.376
71.279	58.999	58.673	70.042	60.612	71.943	73.206	61.376
58.098	72.038	60.583	60.151	72.179	58.981	59.203	59.429
58.375	57.547	71.032	58.67	60.892	69.773	60.973	60.337
58.766	58.56	57.178	72.02	61.149	58.115	70.004	58.624
60.501	71.256	60.939	57.328	72.865	72.493	59.027	58.549
57.189	58.331	71.101	60.279	59.379	73.023	60.969	58.399
71.651	57.191	57.548	69.968	58.235	57.459	71.234	60.24
58.403	72.714	57.565	62.576	74.684	59.331	57.33	69.266
58.074	58.003	57.563	70.517	59.166	71.349	61.296	60.429
69.099	61.055	58.191	73.519	60.305	58.531	70.184	59.037
58.04	68.885	57.964	59.93	70.64	57.732	60.892	72.484
66.024	57.806	68.98	59.999	60.129	58.3	57.139	58.74
73.131	58.617	59.838	82.243	61.097	57.827	58.486	58.231
56.867	57.995	57.538	72.068	59.772	60.86	71.872	58.789
59.476	69.15	58.574	58.033	57.428	63.126	59.661	58.817
58.578	57.517	56.64	59.036	75.65	59.381	57.595	70.454
58.392	57.816	68.676	70.492	58.724	58.026	60.192	58.311
56.71	60.253	73.614	60.188	59.668	70.275	58.096	58.421
57.878	57.279	59.267	73.726	58.64	56.987	72.281	60.127
58.466	57.724	56.849	59.035	72.874	58.587	56.856	69.961
60.449	58.348	71.664	70.709	60.924	57.669	58.514	57.682
69.532	58.19	57.28	59.383	59.029	60.943	72.966	58.411
60.371	69.077	57.937	58.434	58.287	57.014	58.698	70.615
58.597	60.934	69.726	61.278	62.1	71.093	57.625	57.965
70.479	58.473	58.031	81.604	58.973	58.255	73.089	60.298
57.215	71.934	60.333	59.543	71.54	58.468	58.558	59.343

max val(#599) = 106.53us
min val(#458) = 39.43us
peak-to-peak = 67.11us
mean +- RMS = 55.14 +- 9.78 us

packet size: 526
number of packets: 1024
RATE = 538.61kbps, PPS = 128.0

3.3 AF_PACKET “socket(AF_PACKET, SOCK_DGRAM, ETH_P_1588)”

3.3.1 AF_PACKET, 1 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t ptpl2 -m rx-lat -n 1024
Default address can be specified; 01:1B:19:00:00:00 or 01:80:C2:00:00:0E
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCShWTSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

36.461	39.474	28.488	27.493	37.792	27.233	27.411	35.31
27.823	26.606	32.552	26.143	29.585	32.511	27.79	25.829
33.926	35.697	32.169	41.457	30.653	42.867	45.498	30.675
42.011	29.19	29.396	41.855	32.806	29.673	27.388	41.617
30.503	41.31	29.497	29.278	40.586	30.79	31.48	32.452
26.516	29.597	39.067	36.953	32.879	32.878	26.398	30.214
34.286	26.262	26.783	32.815	28.977	27.483	32.342	26.341
32.735	28.986	27.474	32.891	29.424	26.896	32.833	26.484
26.226	31.78	26.004	28.067	32.442	26.256	26.009	31.362
30.19	29.094	39.515	28.961	31.345	38.111	33.433	29.882
40.51	30.904	30.067	40.38	28.765	28.992	38.835	29.316
28.792	39.426	28.076	25.998	42.984	28.398	27.659	33.081
25.968	33.866	27.635	28.728	31.448	27.053	27.638	33.45
27.924	26.248	31.839	27.831	33.609	32.34	28.314	27.843
34.206	27.608	26.564	32.402	26.983	27.14	32.003	27.136
26.004	31.431	27.452	26.603	33.681	26.383	25.741	35.354
29.031	29.003	33.714	28.222	39.475	29.418	29.016	39.815
28.943	28.571	34.2	43.666	32.892	43.426	32.055	30.378
39.411	28.888	28.937	39.852	28.902	26.597	31.454	28.62
26.702	32.48	26.512	26.645	34.135	27.933	28.507	32.778
26.139	26.723	33.519	26.438	27.267	32.249	26.153	27.322
37.175	27.696	38.697	27.205	32.009	34.627	27.117	26.489
33.46	27.816	26.869	39.056	26.371	26.395	37.893	30.67
30.082	41.756	29.918	30.817	43.004	29.268	28.734	39.652
29.628	28.672	39.068	28.617	29.343	39.595	29.253	33.008
40.894	29.809	29.143	32.26	28.418	25.708	31.652	27.166
31.411	26.047	25.553	30.313	26.695	25.437	30.783	25.591
25.539	31.006	26.66	24.969	33.052	26.414	27.231	31.872
28.37	26.1	30.191	26.922	25.31	35.428	27.361	26.179
34.119	26.668	24.981	30.183	28.165	29.569	38.472	28.093
28.814	37.619	29.103	28.209	37.337	28.233	37.664	30.882
28.958	38.262	27.733	28.7	42.884	28.159	28.126	30.163
27.383	26.647	34.873	29.123	27.059	32.575	28.094	25.851
31.089	25.291	26.005	31.885	28.295	25.704	30.881	25.226
26.764	30.789	24.9	25.511	30.172	25.47	27.106	30.876
24.892	25.996	31.767	26.977	34.873	25.767	27.27	33.8
25.932	28.799	34.666	29.068	31.953	40.772	27.655	28.219
39.677	31.166	29.128	40.067	30.933	28.464	36.631	28.104
27.324	38.276	25.509	29.843	39.162	27.296	27.408	34.244
26.222	25.051	33.44	27.604	27.807	32.617	26.848	26.36
37.479	27.514	33.408	27.368	27.07	30.729	25.697	27.434
31.431	27.073	25.134	30.099	29.654	25.805	30.027	25.935
25.454	32.733	27.95	25.26	29.953	25.631	26.265	35.956
27.893	30.266	33.931	30.576	31.533	33.335	32.889	29.727
36.357	30.773	28.382	33.341	28.827	27.275	33.8	27.836
37.212	24.707	26.388	31.61	28.003	25.969	30.776	27.696
27.539	31.427	25.456	25.759	32.113	26.072	26.866	30.538
25.613	26.159	32.854	25.438	32.625	33.966	27.41	26.914
30.655	24.623	26.458	37.265	25.51	25.551	30.143	24.757
26.326	30.948	24.666	25.582	32.458	26.414	32.979	27.457
27.361	38.087	30.103	28.153	39.363	28.177	27.98	30.452
31.537	27.739	36.848	40.819	30.588	40.372	29.573	27.166
39.179	28.845	28.044	31.784	25.237	25.153	32.356	25.191
24.656	31.918	28.08	27.511	32.305	25.241	25.123	30.822
27.892	26.538	31.721	25.355	30.148	26.465	27.19	31.019
25.469	31.306	43.324	27.142	26.824	34.933	25.67	27.018
30.108	25.566	24.88	30.817	26.602	25.703	37.856	28.143
26.944	39.428	34.362	25.993	37.462	27.743	29.046	37.94
30.247	28.563	40.552	30.47	28.337	38.05	29.232	33.776
44.981	29.794	41.759	27.273	28.23	32.405	32.34	26.17
30.79	25.176	26.454	32.144	24.227	25.459	29.995	27.128
27.183	30.839	27.711	25.729	32.692	25.431	25.265	35.04
25.145	26.504	32.331	26.024	25.792	36.53	29.044	26.829
31.531	24.96	28.589	32.484	27.992	28.805	30.032	27.03
41.921	27.878	28.211	38.959	27.397	29.357	41.946	27.905
27.684	38.444	32.719	29.822	41.066	28.534	27.952	41.995
28.791	27.331	34.029	34.033	31.045	34.637	25.066	24.177
34.209	27.549	28.442	32.449	24.806	24.786	33.371	25.987
24.31	31.527	24.234	26.441	32.477	24.258	36.024	26.333
26.169	30.105	28.605	26.05	31.127	27.166	27.372	30.623
26.123	26.538	38.144	31.488	28.685	38.253	29.122	29.19
33.639	28.76	30.187	39.085	29.835	28.039	37.515	28.521
27	37.772	29.647	28.038	37.201	28.13	29.371	38.045
29.675	25.88	33.062	27	31.185	25.665	26.268	31.824
31.867	27.981	32.247	26.255	26.16	32.59	25.879	25.748
31.109	25.164	29.699	35.559	25.37	25.528	32.445	27.72
26.774	30.642	24.993	25.749	32.456	25.238	26.361	30.128
25.015	28.667	44.237	27.763	27.829	40.101	34.72	30.963
38.957	28.416	39.483	29.022	28.588	39.819	28.026	27.912
39.239	27.248	30.259	33.77	25.177	25.787	35.955	25.659
26.317	31.822	25.994	26.3	32.936	25.324	26.14	37.761
26.591	25.518	33.903	25.634	30.296	27.452	31.233	25.72
37.245	28.668	26.219	36.562	26.375	25.121	33.1	26.277
30.18	25.694	27.63	32.928	27.188	25.725	34.693	29.113
29.693	38.701	27.892	27.998	39.653	28.572	29.553	38.532
27.581	28.697	43.415	33.6	28.856	37.529	26.337	29.389
38.12	28.476	25.308	30.233	27.112	27.703	30.203	25.874
25.713	31.742	30.83	26.094	30.542	25.859	31.857	26.076
27.431	30.965	25.193	26.095	30.141	25.332	26.142	31.699
26.014	31.133	39.423	26.031	27.029	32.495	25.682	26.151
30.491	25.623	27.341	31.075	25.303	25.711	38.565	30.134
25.288	38.086	30.294	26.168	39.724	28.792	25.901	38.641
28.414	26.662	39.909	31.829	38.661	29.064	30.255	38.497
27.104	25.516	34.343	26.536	25.718	36.009	25.568	25.042
38.089	25.527	25.047	31.361	25.954	25.833	25.489	31.774
28.401	31.839	27.352	27.149	31.761	26.122	25.164	33.097
26.069	25.468	31.581	25.454	26.389	42.847	27.263	24.883

38.476	27.832	31.267	26.385	28.722	41.655	27.895	29.921
38.047	26.076	27.78	40.315	26.496	29.422	35.529	25.689
29.102	37.816	25.791	27.652	37.28	27.482	27.138	30.525
26.677	26.936	34.321	26.412	30.567	34.782	26.494	27.258
30.919	26.565	24.748	30.982	27.829	25.48	34.968	25.151
31.177	25.9	26.882	36.462	25.071	28.641	37.937	26.413
26.57	32.235	27.168	26.828	32.208	25.978	25.617	32.514
26.738	26.347	44.253	28.823	30.106	42.524	28.666	28.295
39.657	28.31	29.71	39.583	27.615	27.937	38.169	30.528
28.638	39.257	26.85	24.966	35.847	25.305	30.123	25.545
25.261	32.027	27.393	25.171	32.508	26.701	27.261	31.493
30.319	26.478	30.213	30.151	28.04	32.07	35.542	25.34
58.286	25.963	25.568	29.774	25.395	25.918	33.208	26.341
25.157	30.675	27.485	24.897	34.883	27.146	25.976	33.242
27.897	27.654	38.059	27.404	41.722	30.68	33.967	40.54
28.724	30.999	38.362	28.174	31.916	39.223	30.843	29.406
37.617	27.362	28.114	41.861	28.351	28.394	30.578	25.836
29.484	29.64	24.561	25.785	33.631	26.829	31.366	30.876
25.178	26.558	32.43	25.816	27.152	30.429	25.917	28.811
30.315	25.271	32.122	25.365	29.814	31.993	25.222	24.667
30.752	26.285	26.412	31.622	25.214	25.89	41.05	29.341
28.954	38.965	26.928	28.378	41.99	27.706	28.102	34.347
30.462	28.121	39.886	33.86	29.514	41.215	27.849	27.474
39.549	27.619	27.037	31.375	29.901	25.405	31.187	27.806
30.82	26.708	25.401	31.688	26.777	25.598	30.314	26.333
25.16	31.947	27.024	25.274	32.454	27.442	27.396	30.941
25.982	30.518	31.829	29.11	27.081	30.666	26.4	26.212
32.645	26.599	25.03	37.597	30.32	28.88	40.18	29.506
27.722	37.439	29.458	30.229	39.542	29.444	41.713	30.156
29.371	38.3	27.478	28.612	45.793	28.235	28.834	32.919
40.044	28.606	31.682	25.204	25.833	30.941	27.406	25.787

max val(#872) = 58.29us
min val(#535) = 24.18us
peak-to-peak = 34.11us
mean +- RMS = 30.24 +- 4.68 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

59.211	56.282	57.258	55.47	55.306	56.608	41.643	49.776
37.413	37.25	42.944	38.714	38.226	43.595	36.6	35.136
43.269	48.963	45.547	44.571	38.064	45.872	52.541	38.715
51.565	36.6	37.25	53.355	42.782	37.576	37.413	45.546
43.432	66.205	42.456	57.909	61.651	44.246	45.059	45.221
44.571	37.088	55.795	48.15	37.901	43.27	36.437	42.781
46.197	38.389	38.226	43.269	39.528	39.04	43.107	36.925
43.432	39.366	37.088	45.709	36.6	36.925	44.896	35.949
35.624	42.781	35.298	36.274	43.106	34.81	34.648	41.968
36.763	41.805	42.456	43.595	42.293	54.33	41.968	43.432
43.757	43.27	43.92	44.896	41.643	41.317	44.733	42.944
41.968	42.456	40.504	37.251	44.408	41.48	35.461	41.48
33.835	42.293	37.088	41.155	41.154	34.973	37.414	41.805
37.902	35.786	42.781	40.341	40.992	42.131	36.762	34.974
44.896	36.926	35.786	41.155	42.293	36.274	42.944	36.437
35.461	42.456	35.299	38.877	42.619	34.811	35.136	47.986
42.456	41.805	41.968	41.155	42.456	42.294	41.806	42.781
40.992	41.317	47.336	47.336	43.757	44.733	44.896	42.294
42.781	41.968	41.968	51.403	41.317	35.298	40.992	35.624
35.461	42.293	36.275	36.925	43.106	36.925	44.408	43.432
35.461	36.763	46.198	35.461	39.69	42.782	35.136	36.926
48.8	37.413	52.542	40.504	39.691	44.734	36.763	37.413
44.408	38.064	37.251	44.083	36.762	36.274	45.059	43.432
42.781	50.752	41.643	45.384	44.571	42.13	40.666	41.968
42.944	41.643	43.107	40.504	41.805	44.408	42.782	47.987
45.384	49.125	49.939	50.914	38.714	39.203	45.872	42.293
45.547	41.805	39.853	45.872	42.456	39.853	46.035	34.323
33.672	42.293	37.25	36.438	40.992	35.461	36.438	40.829
37.088	41.968	40.992	36.437	35.299	48.149	36.763	35.787
45.058	35.462	33.997	42.944	35.95	42.293	49.45	41.48
39.853	40.992	41.317	40.016	48.312	41.643	48.312	43.432
42.781	48.637	38.552	43.107	51.24	38.715	41.318	40.504
38.39	35.136	43.92	40.016	35.786	42.782	37.738	35.299
41.805	31.72	35.299	45.222	33.184	35.136	40.83	35.136
42.294	41.318	31.72	33.998	40.341	36.274	37.739	41.805
33.184	41.968	42.456	42.619	42.944	32.859	35.95	44.733
32.208	46.035	45.872	48.638	50.914	50.59	45.384	46.36
47.987	49.613	47.987	53.192	45.058	46.848	50.427	44.896
46.36	49.451	38.715	49.614	44.082	44.083	45.709	41.968
35.136	40.341	42.456	42.293	40.667	43.269	36.112	35.136
47.824	43.27	45.872	35.136	35.787	45.872	40.83	43.106
46.36	40.829	39.366	47.174	42.781	40.992	45.384	41.155
40.667	43.432	38.715	33.672	40.178	35.299	41.805	48.638
43.269	41.48	40.83	39.365	36.274	41.317	41.968	36.274
46.36	38.226	35.461	40.829	42.619	36.6	41.642	42.13
48.638	33.672	36.763	44.083	32.045	33.51	40.341	36.762
35.624	40.992	32.046	34.648	42.944	34.811	35.299	40.992
33.997	36.112	42.131	33.835	41.318	43.432	38.227	36.275
40.992	32.208	41.155	50.101	39.528	35.461	41.154	35.298
35.95	41.318	32.046	36.112	40.341	36.112	45.709	40.341
39.853	49.613	42.13	41.318	46.035	39.365	40.341	42.456
41.48	41.317	41.317	45.221	44.571	51.403	41.642	39.853
49.613	43.107	41.643	41.48	32.534	33.51	42.944	32.859
34.323	43.758	32.696	38.878	42.456	34.16	34.323	41.968
36.112	34.973	40.829	32.045	39.691	35.624	34.648	40.178
41.968	49.451	46.36	37.088	35.136	48.637	35.624	35.949
41.318	34.81	34.323	41.805	36.6	34.16	48.637	41.318
40.829	51.402	43.269	34.322	47.174	41.643	41.805	48.475
44.734	39.854	44.571	45.547	41.317	46.035	41.48	48.475
52.866	46.36	49.451	39.04	48.15	46.36	48.312	43.432
46.198	40.992	44.896	46.198	38.878	35.787	39.853	36.763
35.787	48.149	37.738	34.485	42.619	38.715	40.992	46.685
44.733	42.456	42.944	32.534	34.485	49.451	38.552	36.438
46.36	41.48	37.251	43.92	45.547	41.155	46.034	53.843
53.355	52.379	40.016	42.619	38.064	42.293	53.517	53.192
40.016	43.432	43.595	44.733	43.269	45.384	53.029	54.005
51.403	40.666	42.944	42.13	38.227	44.083	39.365	39.854
45.222	46.848	42.13	43.757	39.528	41.48	43.595	39.203
39.04	42.619	37.901	36.6	43.92	37.739	47.498	40.992
36.275	49.451	35.624	40.666	46.685	35.787	35.136	40.992
34.973	35.949	49.45	43.432	41.155	46.848	35.786	42.782
46.686	43.757	39.528	46.523	42.781	45.546	46.848	40.992
45.384	42.294	43.758	45.384	45.872	35.299	36.112	47.824
37.25	35.95	40.016	35.786	41.48	33.021	35.461	40.829

41.155	37.739	42.456	33.509	36.275	43.107	32.696	34.648
40.504	36.112	37.901	42.293	38.878	41.317	43.92	36.6
36.762	42.131	31.72	34.973	41.806	34.16	35.787	41.643
33.184	44.408	44.571	39.203	41.968	50.264	47.011	44.408
42.294	39.04	42.618	42.781	41.643	42.131	37.902	39.691
44.408	40.829	40.179	42.131	32.045	34.323	44.896	32.208
33.998	45.71	42.293	40.667	45.059	38.714	40.829	49.776
37.739	44.082	48.312	47.01	47.173	41.318	42.13	33.835
43.758	45.384	40.667	50.427	32.858	40.667	43.432	33.184
40.178	37.088	34.323	44.896	38.552	34.811	48.963	41.642
42.619	49.776	41.968	40.016	48.15	41.968	42.456	48.149
40.829	44.571	50.915	47.011	41.642	47.987	35.136	43.595
49.45	40.829	33.672	39.528	35.949	35.136	41.154	35.787
40.179	44.57	38.064	35.461	40.178	35.624	43.107	32.208
36.274	41.155	32.533	43.107	40.667	32.045	35.136	41.805
42.944	49.776	44.571	33.998	34.81	43.594	33.51	34.973
40.342	36.112	37.576	42.618	33.184	32.045	47.498	43.107
40.667	50.101	38.715	31.557	50.264	42.456	32.859	49.125
40.504	33.834	49.776	45.222	51.403	48.962	48.312	51.728
39.04	41.48	44.734	41.805	40.829	38.877	32.696	34.16
48.312	33.021	35.624	38.552	31.558	36.112	34.648	43.92
33.346	39.203	35.462	43.595	39.202	39.202	40.504	40.341
40.016	34.648	38.878	35.299	35.624	54.818	34.81	37.576
40.016	37.738	42.619	34.648	40.992	42.781	35.299	41.154
48.15	33.022	40.504	51.728	33.672	43.107	41.317	33.021
42.944	49.614	32.534	39.691	41.318	32.858	34.811	40.666
33.672	34.973	43.269	35.136	43.107	41.805	35.624	36.6
42.456	33.834	35.136	40.829	35.299	34.16	48.474	31.395
40.829	35.624	43.92	50.752	40.992	40.83	43.757	32.696
35.136	42.456	41.48	35.949	42.293	33.509	35.299	42.944
35.95	36.6	50.427	42.781	40.666	54.656	39.691	40.829
50.914	34.973	41.806	43.432	41.643	40.179	49.288	45.384
40.992	50.101	38.389	35.461	43.106	31.557	40.016	34.648
34.323	42.294	36.763	34.974	42.618	43.595	36.437	41.48
40.992	50.264	50.589	44.245	34.811	45.384	42.944	35.624
32.534	34.811	33.184	39.853	33.997	35.624	44.083	36.763
34.81	41.48	35.461	35.461	42.618	34.322	33.346	42.456
41.968	41.154	41.48	36.762	51.728	42.782	47.987	43.107
38.715	43.758	42.781	40.667	41.317	48.475	41.968	40.829
49.288	37.576	40.179	51.402	39.202	41.643	40.667	32.859
42.131	41.48	30.907	36.275	41.968	34.485	46.034	40.83
31.557	36.763	42.781	32.371	36.925	38.39	33.347	37.902
40.992	32.208	42.782	36.925	37.088	42.456	33.672	34.486
40.342	35.787	36.112	41.643	29.118	34.811	50.752	42.456
41.155	52.216	38.715	43.757	51.566	52.541	46.198	47.661
50.101	46.035	49.451	52.704	41.642	52.704	45.059	45.872
48.312	47.824	41.48	48.963	45.059	39.528	45.872	44.896
47.011	34.648	35.298	41.48	37.414	33.834	40.992	35.136
33.834	40.992	35.786	35.949	40.992	35.624	36.112	40.504
42.131	39.203	42.456	37.413	37.414	40.504	35.786	34.648
40.829	35.136	34.648	50.427	41.154	41.805	44.083	40.992
40.341	47.174	41.805	44.083	48.963	49.125	49.939	50.915
50.102	46.197	44.245	49.613	50.101	45.221	47.011	52.541
48.475	43.758	47.174	37.901	40.666	45.709	42.944	35.136

max val(#33) = 66.20us
min val(#940) = 29.12us
peak-to-peak = 37.09us
mean +- RMS = 41.22 +- 5.32 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

95.672	95.756	85.746	82.963	93.098	83.841	69.054	85.086
65.236	63.856	75.496	64.857	67.811	76.106	64.39	60.965
77.195	84.66	77.716	86.028	68.717	88.739	98.039	69.39
93.576	65.79	66.646	95.21	75.588	67.249	64.801	87.163
73.935	107.515	71.953	87.187	102.237	75.036	76.539	77.673
71.087	66.685	94.862	85.103	70.78	76.148	62.835	72.995
80.483	64.651	65.009	76.084	68.505	66.523	75.449	63.266
76.167	68.352	64.562	78.6	66.024	63.821	77.729	62.433
61.85	74.561	61.302	64.341	75.548	61.066	60.657	73.33
66.953	70.899	81.971	72.556	73.638	92.441	75.401	73.314
84.267	74.174	73.987	85.276	70.408	70.309	83.568	72.26
70.76	81.882	68.58	63.249	87.392	69.878	63.12	74.561
59.803	76.159	64.723	69.883	72.602	62.026	65.052	75.255
65.826	62.034	74.62	68.172	74.601	74.471	65.076	62.817
79.102	64.534	62.35	73.557	69.276	63.414	74.947	63.573
61.465	73.887	62.751	65.48	76.3	61.194	60.877	83.34
71.487	70.808	75.682	69.377	81.931	71.712	70.822	82.596
69.935	69.888	81.536	91.002	76.649	88.159	76.951	72.672
82.192	70.856	70.905	91.255	70.219	61.895	72.446	64.244
62.163	74.773	62.787	63.57	77.241	64.858	72.915	76.21
61.6	63.486	79.717	61.899	66.957	75.031	61.289	64.248
85.975	65.109	91.239	67.709	71.7	79.361	63.88	63.902
77.868	65.88	64.12	83.139	63.133	62.669	82.952	74.102
72.863	92.508	71.561	76.201	87.575	71.398	69.4	81.62
72.572	70.315	82.175	69.121	71.148	84.003	72.035	80.995
86.278	78.934	79.082	83.174	67.132	64.911	77.524	69.459
76.958	67.852	65.406	76.185	69.151	65.29	76.818	59.914
59.211	73.299	63.91	61.407	74.044	61.875	63.669	72.701
65.458	68.068	71.183	63.359	60.609	83.577	64.124	61.966
79.177	62.13	58.978	73.127	64.115	71.862	87.922	69.573
68.667	78.611	70.42	68.225	85.649	69.876	85.976	74.314
71.739	86.899	66.285	71.807	94.124	66.874	69.444	70.667
65.773	61.783	78.793	69.139	62.845	75.357	65.832	61.15
72.894	57.011	61.304	77.107	61.479	60.84	71.711	60.362
69.058	72.107	56.62	59.509	70.513	61.744	64.845	72.681
58.076	67.964	74.223	69.596	77.817	58.626	63.22	78.533
58.14	74.834	80.538	77.706	82.867	91.362	73.039	74.579
87.664	80.779	77.115	93.259	75.991	75.312	87.058	73
73.684	87.727	64.224	79.457	83.244	71.379	73.117	76.212
61.358	65.392	75.896	69.897	68.474	75.886	62.96	61.496
85.303	70.784	79.28	62.504	62.857	76.601	66.527	70.54
77.791	67.902	64.5	77.273	72.435	66.797	75.411	67.09
66.121	76.165	66.665	58.932	70.131	60.93	68.07	84.594
71.162	71.746	74.761	69.941	67.807	74.652	74.857	66.001
82.717	68.999	63.843	74.17	71.446	63.875	75.442	69.966
85.85	58.379	63.151	75.693	60.048	59.479	71.117	64.458
63.163	72.419	57.502	60.407	75.057	60.883	62.165	71.53
59.61	62.271	74.985	59.273	73.943	77.398	65.637	63.189
71.647	56.831	67.613	87.366	65.038	61.012	71.297	60.055
62.276	72.266	56.712	61.694	72.799	62.526	67.688	67.798
67.214	87.7	72.233	69.471	85.398	67.542	68.321	72.908

73.017	69.056	78.165	86.04	75.159	91.775	71.215	67.019
88.792	71.952	69.687	73.264	57.771	58.663	75.3	58.05
58.979	75.676	60.776	66.389	74.761	59.401	59.446	72.79
64.004	61.511	72.55	57.4	69.839	62.089	61.838	71.197
67.437	80.757	89.684	64.23	61.96	83.57	61.294	62.967
71.426	60.376	59.203	72.622	63.202	59.863	86.493	69.461
67.773	90.83	77.631	60.315	84.636	69.386	70.851	86.415
74.981	68.417	85.123	76.017	69.654	84.085	70.712	82.251
97.847	76.154	91.21	66.313	76.38	78.765	80.652	69.602
76.988	66.168	71.35	78.342	63.105	61.246	69.848	63.891
62.97	78.988	65.449	60.214	75.311	64.146	66.257	81.725
69.878	68.96	75.275	58.558	60.277	85.981	67.596	63.267
77.891	66.44	65.84	76.404	73.539	69.96	76.066	80.873
95.276	80.257	68.227	81.578	65.461	71.65	95.463	81.097
67.7	81.876	76.314	74.555	84.335	73.918	80.981	96
80.194	67.997	76.973	76.163	69.272	78.72	64.431	64.031
79.431	74.397	70.572	76.206	64.334	66.266	76.966	65.19
63.35	74.146	62.135	63.041	76.397	61.997	83.522	67.325
62.444	79.556	64.229	66.716	77.812	62.953	62.508	71.615
61.096	62.487	87.594	74.92	69.84	85.101	64.908	71.972
80.325	72.517	69.715	85.608	72.616	73.585	84.363	69.513
72.384	80.066	73.405	73.422	83.073	63.429	65.483	85.869
66.925	61.83	73.078	62.786	72.665	58.686	61.729	72.653
73.022	65.72	74.703	59.764	62.435	75.697	58.575	60.396
71.613	61.276	67.6	77.852	64.248	66.845	76.365	64.32
63.536	72.773	56.713	60.722	74.262	59.398	62.148	71.771
58.199	73.075	88.808	66.966	69.797	90.365	81.731	75.371
81.251	67.456	82.101	71.803	70.231	81.95	65.928	67.603
83.647	68.077	70.438	75.901	57.222	60.11	80.851	57.867
60.315	77.532	68.287	66.967	77.995	64.038	66.969	87.537
64.33	69.6	82.215	72.644	77.469	68.77	73.363	59.555
81.003	74.052	66.886	86.989	59.233	65.788	76.532	59.461
70.358	62.782	61.953	77.824	65.74	60.536	83.656	70.755
72.312	88.477	69.86	68.014	87.803	70.54	72.009	86.681
68.41	73.268	94.33	80.611	70.498	85.516	61.473	72.984
87.57	69.305	58.98	69.761	63.061	62.839	71.357	61.661
65.892	76.312	68.894	61.555	70.72	61.483	74.964	58.284
63.705	72.12	57.726	69.202	70.808	57.377	61.278	73.504
68.958	80.909	83.994	60.029	61.839	76.089	59.192	61.124
70.833	61.735	64.917	73.693	58.487	57.756	86.063	73.241
65.955	88.187	69.009	57.725	89.988	71.248	58.76	87.766
68.918	60.496	89.685	77.051	90.064	78.026	78.567	90.225
66.144	66.996	79.077	68.341	66.547	74.886	58.264	59.202
86.401	58.548	60.671	69.913	57.512	61.945	60.137	75.694
61.747	71.042	62.814	70.744	70.963	65.324	65.668	73.438
66.085	60.116	70.459	60.753	62.013	97.665	62.073	62.459
78.492	65.57	73.886	61.033	69.714	84.436	63.194	71.075
86.197	59.098	68.284	92.043	60.168	72.529	76.846	58.71
72.046	87.43	58.325	67.343	78.598	60.34	61.949	71.191
60.349	61.909	77.59	61.548	73.674	76.587	62.118	63.858
73.375	60.399	59.884	71.811	63.128	59.64	83.442	56.546
72.006	61.524	70.802	87.214	66.063	69.471	81.694	59.109
61.706	74.691	68.648	62.777	74.501	59.487	60.916	75.458
62.688	62.947	94.68	71.604	70.772	97.18	68.357	69.124
90.571	63.283	71.516	83.015	69.258	68.116	87.457	75.912
69.63	89.358	65.239	60.427	78.953	56.862	70.139	60.193
59.584	74.321	64.156	60.145	75.126	70.296	63.698	72.973
71.311	76.742	80.802	74.396	62.851	77.454	78.486	60.964
90.82	60.774	58.752	69.627	59.392	61.542	77.291	63.104
59.967	72.155	62.946	60.358	77.501	61.468	59.322	75.698
69.865	68.808	79.539	64.166	93.45	73.462	81.954	83.647
67.439	74.757	81.143	68.841	73.233	87.698	72.811	70.235
86.905	64.938	68.293	93.263	67.553	70.037	71.245	58.695
71.615	71.12	55.468	62.06	75.599	61.314	77.4	71.706
56.735	63.321	75.211	58.187	64.077	68.819	59.264	66.713
71.307	57.479	74.904	62.29	66.902	74.449	58.894	59.153
71.094	62.072	62.524	73.265	54.332	60.701	91.802	71.797
70.109	91.181	65.643	72.135	93.556	80.247	74.3	82.008
80.563	74.156	89.337	86.564	71.156	93.919	72.908	73.346
87.861	75.443	68.517	80.338	74.96	64.933	77.059	72.702
77.831	61.356	60.699	73.168	64.191	59.432	71.306	61.469
58.994	72.939	62.81	61.223	73.446	63.066	63.508	71.445
68.113	69.721	74.285	66.523	64.495	71.17	62.186	60.86
73.474	61.735	59.678	88.024	71.474	70.685	84.263	70.498
68.063	84.613	71.263	74.312	88.505	78.569	91.652	81.071
79.473	84.497	71.723	78.225	95.894	73.456	75.845	85.46
88.519	72.364	78.856	63.105	66.499	76.65	70.35	60.923

max val(#33) = 107.52us
min val(#940) = 54.33us
peak-to-peak = 53.18us
mean +- RMS = 71.46 +- 9.18 us

packet size: 512
number of packets: 1024
RATE = 4.10kbps, PPS = 1.0

3.3.2 AF_PACKET, 128 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t tptl2 -m rx-lat -n 1024
Default address can be specified: 01:1B:19:00:00:00 or 01:80:C2:00:00:0E
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCASHWTSTAMP: tx_type 0 requested, got 0; rx_filter 10 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

36.177	24.834	24.89	23.915	29.177	26.509	23.837	26.104
24.682	26.301	23.869	23.643	23.784	24.234	23.589	23.462
23.969	32.341	26.719	23.924	28.641	24.583	26.34	23.753
23.705	24.032	23.821	23.767	23.711	23.824	26.855	24.269
26.138	24.036	26.048	24.745	25.514	23.788	23.662	23.82
23.833	23.958	24.1	26.638	24.394	26.22	28.815	23.595
25.958	29.448	24.016	23.521	26.026	24.13	24.058	26.249
23.817	26.416	24.762	26.231	25.926	23.689	24.134	23.65
23.977	23.878	23.903	23.797	27.809	26.351	24.096	26.012
24.422	25.852	23.78	23.929	24.018	24.114	23.912	23.619
23.662	36.888	24.012	23.59	28.56	24.824	26.012	24.075
23.582	23.593	24.035	23.625	23.757	23.478	23.98	25.937
26.073	24.009	23.755	24.459	25.521	24.088	23.597	23.759
23.602	23.849	23.882	25.838	24.672	23.846	24.141	29.134
24.336	24.127	23.939	23.556	25.871	24.096	23.726	24.015
23.897	26.028	24.371	26.079	26.363	23.874	24.078	23.654
24.367	23.633	23.825	23.85	25.53	26.149	23.712	26.031
24.574	25.72	23.926	23.622	23.92	23.961	23.712	33.206
24.339	25.855	25.975	23.596	27.53	25.987	24.791	23.706
23.872	23.738	23.985	24.162	23.845	23.838	25.899	24.586
25.676	23.657	25.434	24.278	25.874	24.327	23.67	23.879
23.788	24.193	23.69	25.829	24.367	26.182	25.911	33.463
26.27	23.726	24.012	23.498	25.472	23.964	23.774	26.348
23.429	25.904	24.62	25.962	25.9	23.489	24.073	23.978
24.022	23.732	23.916	23.822	27.549	26.205	23.831	26.052
24.499	25.692	23.756	23.613	23.89	24.16	23.793	29.251
24.296	26.431	23.008	23.728	27.621	26.421	24.44	23.971
23.866	23.869	23.943	23.841	23.71	23.862	26.374	24.502
26.051	23.311	26.086	24.059	25.283	23.818	23.737	23.995
23.722	23.529	23.254	23.609	23.926	23.56	23.805	29.101
23.926	23.868	23.857	23.6	25.642	24.133	24.036	24.292
23.688	26.095	24.446	26.164	25.729	23.627	23.554	23.923
23.713	23.185	23.979	24.055	25.511	26.391	23.842	26.015
24.142	25.729	23.754	23.47	23.636	23.955	23.87	33.986
24.396	24.288	26.249	23.347	27.509	23.623	26.591	23.806
23.727	24.345	23.491	23.546	23.89	24.1	24.046	26.266
25.99	23.829	26.199	24.662	26.832	25.077	24.025	23.934
23.827	23.611	23.685	24.104	26.681	32.036	26.649	23.789
26.484	23.715	24.004	23.348	25.655	24.459	24.391	23.906
24.1	26.779	24.527	26.338	26.218	23.969	24.406	23.891
23.633	23.817	24.002	24.242	25.349	26.387	23.665	25.935
24.918	26.294	23.554	23.623	24.018	29.718	24.569	23.502
23.931	23.988	23.29	24.043	27.831	26.47	24.935	26.464
23.789	24.076	24.141	23.818	23.789	23.76	24.317	26.227
25.815	24.104	26.253	24.587	25.496	24.283	24.162	24.019
23.901	23.852	23.761	23.753	24.155	29.712	24.577	23.85
23.873	23.638	23.985	23.73	25.444	24.164	24.18	24.014
23.796	26.853	24.381	24.016	26.429	23.649	23.914	23.711
23.785	23.586	23.814	23.846	25.587	26.753	24.266	26.042
24.649	25.978	23.647	24.116	23.754	29.64	24.323	23.827
23.902	24.116	26.299	23.687	27.893	26.162	24.645	25.883
23.871	24.051	23.757	23.842	23.546	23.949	26.213	23.957
23.402	23.736	23.655	23.25	26.265	24.175	23.597	23.928
23.885	23.79	24.069	23.632	26.445	31.863	26.547	23.572
26.268	23.663	23.689	23.478	25.431	23.581	23.873	23.746
23.339	26.45	24.586	26.072	25.842	25.845	24.111	23.557
23.75	23.426	23.924	24.091	25.802	24.1	23.598	26.632
24.515	26.071	23.795	24.134	23.945	29.454	24.163	23.539
23.366	23.698	26.665	23.632	27.758	26.213	24.584	23.844
23.821	23.882	23.8	23.822	23.703	23.508	24.053	26.647
25.893	23.745	23.701	26.872	28.253	24.722	23.577	23.506
23.962	23.711	23.541	23.728	30.796	24.493	23.897	23.579
23.737	23.63	23.551	23.58	25.413	24.282	24.102	27.894
23.424	25.012	23.213	24.159	24.342	22.017	22.027	21.667
21.522	21.799	21.937	21.657	23.43	25.111	21.633	24.218
22.708	24.18	21.401	21.951	32.744	23.908	21.928	22.28
21.703	21.837	24.692	21.539	25.496	24.567	22.674	24.403
21.498	21.831	21.714	21.57	21.671	21.811	21.789	24.206
24.141	21.333	24.089	22.713	26.221	22.032	21.458	21.783
21.296	21.907	21.242	21.888	35.247	26.03	24.393	21.609
24.44	22.514	21.825	21.45	23.17	22.113	21.649	21.551
21.899	21.966	24.407	24.013	23.97	21.76	21.515	21.575
21.537	21.682	21.37	21.883	23.261	24.718	21.775	24.16
22.678	24.053	21.965	21.331	27.211	23.959	22.267	22.088
21.948	21.588	24.716	21.831	26.017	24.779	22.491	22.059
21.17	21.866	21.71	21.709	24.786	23.013	22.298	24.491
24.208	21.81	24.685	23.069	25.913	22.056	22.108	21.808
21.492	21.71	21.617	21.726	28.542	24.007	22.007	21.697
21.912	22.166	21.513	21.642	23.321	21.762	22.144	22.024
22.088	24.851	21.599	24.269	24.198	21.872	22.099	21.874
22.08	21.966	21.598	21.865	23.059	22.11	21.674	24.573
23.033	24.318	21.775	22.08	27.999	24.195	22.284	21.944
21.855	21.718	24.811	21.785	25.945	24.6	22.601	24.498
21.632	21.471	22.868	21.688	21.559	21.672	22.008	24.636
24.341	21.856	24.908	22.507	25.562	25.872	22.075	22.971
22.053	24.23	28.406	26.866	22.647	24.498	24.661	21.629
23.974	22.614	21.853	21.814	24.106	22.128	22.172	22.179
21.686	24.576	22.611	21.748	24.481	21.894	24.188	21.681
21.582	21.607	21.744	22.066	23.26	24.888	21.725	24.162
22.676	24.124	32.644	23.558	21.958	22.274	22.113	21.271
21.846	21.749	24.651	21.971	25.946	24.957	22.516	22.146
21.78	21.233	21.557	21.686	21.66	21.664	21.618	24.698
24.558	21.997	24.332	22.582	25.329	22.11	21.616	21.253
21.529	21.55	27.846	24.119	22.234	22.087	22.095	21.803
21.599	21.8	21.792	21.722	23.078	22.428	22.323	21.828
21.635	24.892	22.981	24.139	26.052	21.935	24.491	21.859
21.492	21.468	21.926	21.454	22.912	24.919	21.833	24.162
22.402	24.166	27.7	24.088	22.076	21.806	22.106	21.579
21.513	21.97	24.626	21.749	25.598	24.544	22.927	23.901
21.555	21.71	21.613	21.291	21.603	21.768	21.505	24.616

24.16	21.837	24.234	22.892	25.468	21.758	21.981	21.597
21.496	21.516	27.478	23.644	25.119	24.374	24.437	21.93
23.862	22.473	21.591	21.686	23.282	22.155	21.892	21.658
21.777	24.665	22.608	24.065	23.947	21.883	21.917	21.729
21.661	21.457	21.586	21.253	22.731	24.625	21.823	24.368
22.437	24.15	32.201	25.75	21.886	21.885	21.842	21.602
21.958	21.449	24.318	21.511	25.445	24.237	22.677	24.21
21.784	21.755	21.604	21.654	25.957	23.196	22.275	24.976
24.134	21.661	23.869	22.355	26.127	22.276	21.892	21.785
27.263	23.735	21.979	21.704	21.928	21.453	21.661	21.541
21.397	21.811	21.736	21.723	23.525	22.186	21.768	21.212
21.252	24.095	22.524	24.066	23.852	21.279	24.247	21.862
21.6	21.819	21.554	21.568	22.869	24.476	21.961	24.026
33.72	26.036	21.439	24.076	21.433	21.766	21.897	21.323
21.885	21.757	24.408	21.444	23.223	24.417	22.469	23.656
21.252	21.708	21.358	21.425	21.255	22.137	21.951	24.147
24.071	21.731	23.804	22.162	25.426	21.982	21.771	21.071
31.084	23.375	21.691	21.841	21.863	24.761	24.286	21.649
23.869	22.829	21.916	21.874	22.967	21.566	21.633	21.436
21.406	21.827	24.567	23.797	23.715	21.33	24.119	21.379
21.731	21.588	21.126	21.326	22.77	21.847	21.658	24.352
27.873	25.991	21.516	24.335	21.291	21.756	21.9	21.491
21.615	21.385	21.374	21.179	25.652	24.276	22.536	24.04
21.603	21.788	21.454	21.612	21.884	21.85	21.871	21.366
24.46	21.515	24	22.182	25.29	24.141	21.654	21.714
27.362	23.55	21.448	21.707	21.63	21.506	21.324	20.947
21.445	21.416	21.804	21.948	24.528	21.987	21.477	21.42
21.1	21.504	24.795	24.28	21.627	21.72	24.455	21.621

max val(#81) = 36.89us
min val(#1007) = 20.95us
peak-to-peak = 15.94us
mean +- RMS = 23.82 +- 2.04 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

54.168	38.226	37.088	39.04	51.89	37.088	36.112	49.288
35.462	35.95	35.136	35.298	36.763	36.112	35.787	32.045
35.461	44.408	48.312	36.275	35.624	47.174	35.298	34.322
47.173	35.298	34.811	35.461	34.811	34.81	48.475	35.298
35.299	46.36	35.462	35.461	35.461	34.973	31.395	48.8
35.786	35.299	46.685	35.461	35.624	46.848	44.733	34.648
47.987	43.432	35.786	44.408	37.088	35.624	36.437	35.461
34.16	47.987	34.974	34.973	48.15	34.81	34.811	47.499
35.949	34.974	47.824	36.6	35.787	47.499	34.648	35.136
47.011	35.786	34.974	46.848	35.299	35.299	35.462	31.394
35.298	51.403	36.925	37.413	48.8	35.299	34.648	33.998
34.322	35.949	35.461	34.486	36.112	31.72	35.298	48.149
35.136	34.16	34.811	35.95	35.136	34.973	31.394	35.624
48.637	35.624	34.323	46.848	35.787	34.485	34.973	39.69
35.624	35.624	35.136	35.136	48.8	35.299	35.299	35.461
33.997	35.136	46.36	35.787	34.648	46.198	34.485	34.973
35.624	34.485	34.811	49.776	35.787	35.787	48.312	35.624
35.298	46.523	34.81	34.648	47.173	35.624	35.624	46.197
35.461	36.112	47.498	35.786	35.624	47.336	35.136	34.485
45.872	35.624	34.973	35.786	34.648	34.811	48.637	35.299
35.461	46.035	35.624	35.461	36.275	35.462	31.069	35.624
35.136	46.685	34.485	35.136	47.011	35.462	34.485	49.451
35.299	35.299	35.299	31.883	35.624	47.987	35.461	34.811
45.872	35.462	34.323	46.686	35.136	34.323	47.336	35.136
34.811	47.336	35.299	35.786	47.987	34.974	33.997	47.01
35.461	34.973	34.323	34.81	35.299	35.461	35.298	39.04
34.323	34.486	47.174	35.624	35.787	46.848	36.112	34.973
34.323	35.624	35.624	34.973	33.51	33.672	47.824	34.648
34.811	46.197	34.973	36.437	35.136	35.624	31.395	35.624
34.648	34.973	31.069	34.973	35.298	34.973	48.638	39.203
35.624	48.312	35.786	35.624	48.15	35.136	34.973	34.648
33.835	34.973	46.034	35.298	34.648	46.197	34.811	34.81
34.973	31.72	34.648	49.45	35.461	35.299	34.648	35.136
34.648	47.011	33.835	35.95	47.661	35.461	34.648	49.126
34.648	34.811	46.686	35.136	34.973	47.662	35.462	34.81
46.197	35.136	34.973	34.648	34.16	35.298	34.485	34.485
47.661	34.486	34.486	48.475	131.598	35.299	46.034	32.534
32.533	36.275	34.974	34.648	48.312	42.781	34.973	47.173
34.973	34.485	35.136	35.786	35.299	47.987	34.973	34.323
46.035	34.648	33.672	46.36	35.136	34.323	46.522	35.299
35.136	46.197	35.299	35.624	35.461	34.973	33.998	47.499
34.486	34.81	46.035	35.136	33.997	42.293	34.973	34.16
35.787	34.648	47.499	35.462	34.648	46.36	34.486	34.485
45.709	34.973	34.16	34.16	34.485	34.16	34.323	34.648
47.498	33.835	34.648	47.336	34.811	34.81	45.058	34.648
34.811	34.648	33.835	34.81	34.16	42.131	46.848	34.323
34.811	35.462	34.974	35.462	47.662	35.136	34.322	35.136
34.811	34.811	47.336	34.811	34.973	46.197	34.811	35.136
34.648	33.997	33.998	47.662	35.624	34.811	45.872	34.811
34.323	45.872	34.16	34.648	46.685	42.456	35.299	46.035
34.973	34.974	46.36	35.299	35.461	46.36	34.648	34.811
45.872	34.811	34.811	34.485	34.323	33.184	38.064	34.16
45.058	31.395	32.046	45.872	35.787	35.624	46.685	35.949
34.974	34.974	33.672	34.648	48.149	43.432	35.299	46.035
34.974	34.811	35.299	35.462	35.136	47.661	35.461	35.136
46.685	35.299	34.485	46.685	35.298	37.739	33.346	33.021
32.208	44.571	35.136	36.274	35.786	34.648	34.16	47.662
34.485	34.648	46.686	34.974	35.298	42.944	35.624	34.485
34.974	35.136	47.336	35.462	34.973	46.36	35.624	35.624
46.522	36.275	34.973	35.299	34.16	33.672	34.81	34.648
47.499	33.997	34.16	47.824	40.179	35.299	47.173	35.461
34.811	34.973	34.16	34.485	44.246	35.136	34.485	46.522
34.811	34.485	36.6	58.234	35.136	47.987	35.136	53.192
31.72	25.05	23.587	28.141	24.237	21.797	25.864	20.496
26.515	20.821	20.496	27.003	23.262	23.261	28.141	23.912
23.098	27.816	22.611	25.864	20.17	20.333	19.357	25.213
20.496	22.773	28.629	23.749	23.098	28.142	22.774	22.448
31.232	20.171	19.358	20.658	19.358	18.87	27.003	25.376
28.629	22.774	22.448	28.954	23.424	23.75	26.84	19.52
20.008	20.008	19.194	22.286	23.424	23.587	22.448	27.328
23.424	22.611	24.237	22.285	20.008	24.888	20.17	19.358
24.075	23.424	23.424	28.304	23.261	21.31	25.376	20.171
19.194	24.562	19.845	20.334	23.424	23.912	21.472	27.816
23.098	22.936	27.166	26.026	19.52	20.334	19.357	18.056
18.869	22.611	28.63	24.075	22.286	27.979	22.773	22.123
31.07	19.682	19.194	19.845	19.682	19.032	22.936	23.424
27.816	22.448	22.448	29.443	23.424	23.587	27.003	19.52

20.171	20.008	25.701	23.424	26.352	20.984	25.538	19.845
19.195	25.376	24.075	22.611	25.701	19.194	20.171	23.912
22.611	23.587	23.587	23.261	28.141	22.61	25.051	25.376
19.682	17.893	24.725	21.146	19.195	21.635	21.797	23.098
27.328	23.912	21.96	25.05	20.333	19.52	19.52	18.544
19.52	22.936	22.773	22.773	29.117	22.936	22.448	27.165
26.027	20.008	26.19	19.845	19.357	24.4	27.003	25.051
28.141	21.797	22.448	28.954	23.261	24.725	27.002	20.008
19.846	22.448	21.96	24.237	28.142	23.75	22.123	27.002
23.424	21.798	23.912	21.96	18.869	24.4	20.008	23.424
27.653	24.237	23.099	22.936	22.773	21.472	27.328	24.237
20.821	24.726	19.358	20.984	23.262	23.424	21.96	27.654
22.936	22.448	21.634	26.352	20.171	19.845	19.845	19.032
24.563	22.773	23.424	28.63	23.424	22.774	27.165	22.773
25.864	25.051	19.846	19.683	18.544	18.544	22.448	27.978
23.098	21.797	27.653	24.075	22.123	23.749	20.984	19.52
19.845	19.845	25.376	25.864	24.4	20.496	19.357	18.382
19.032	24.888	24.563	22.773	25.213	19.845	19.846	22.936
21.309	23.099	27.653	23.587	21.309	29.28	23.749	24.075
20.008	18.382	19.195	26.027	23.099	23.262	27.654	23.75
22.936	28.142	20.334	23.261	29.768	20.984	19.195	24.563
19.683	22.285	27.816	23.587	23.261	28.629	23.424	22.286
25.376	20.496	19.195	20.17	19.195	18.381	27.328	25.376
28.467	22.122	22.611	28.141	23.261	24.075	26.189	20.008
19.845	19.52	18.381	23.261	28.142	22.611	22.285	27.491
23.424	21.797	24.237	22.123	19.683	24.888	20.008	22.61
27.653	23.586	22.448	28.304	23.586	18.706	27.978	24.237
20.821	24.4	19.52	21.147	23.099	22.448	21.798	27.491
22.936	21.96	21.96	22.773	23.912	19.683	19.195	18.544
23.587	22.773	22.773	28.141	23.749	22.611	27.653	22.286
68.808	25.864	19.195	20.334	23.099	21.635	22.773	28.792
23.749	22.286	28.466	24.888	22.122	23.587	21.147	19.195
19.846	19.357	25.213	28.954	26.515	20.008	19.357	18.218
18.87	19.682	24.074	28.304	20.171	19.357	24.725	23.261
21.96	28.141	23.75	22.773	27.653	21.634	21.634	23.912
20.008	18.869	24.563	21.472	22.773	28.304	22.61	22.773
22.285	23.261	21.797	27.816	23.424	20.821	19.845	18.869
20.008	22.936	23.261	43.269	22.61	23.424	27.654	23.261
21.635	29.768	20.984	19.357	19.032	18.381	26.677	30.581
22.936	21.797	27.491	24.074	22.61	25.702	20.659	18.706
19.194	20.171	18.544	24.888	22.773	22.773	27.491	21.96
22.611	27.165	26.027	49.45	25.702	19.845	19.357	19.682
18.869	22.285	28.629	23.587	23.099	27.491	23.099	25.701
20.496	18.381	19.357	26.677	20.008	21.797	26.84	23.424
22.61	28.467	22.774	22.286	31.232	20.334	19.683	24.237
19.846	19.032	22.773	22.611	23.098	27.328	22.448	21.96
26.677	25.864	19.357	19.52	18.544	18.544	24.238	22.286
23.261	26.84	22.936	23.424	27.979	22.936	26.514	25.051
19.194	19.683	25.376	20.984	26.189	20.821	19.52	18.707
24.4	20.171	25.214	47.662	20.659	18.707	25.539	20.008
19.683	28.466	24.4	22.773	21.797	22.936	22.611	25.214

max val(#292) = 131.60us
min val(#641) = 17.89us
peak-to-peak = 113.71us
mean +- RMS = 30.62 +- 9.31 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

90.345	63.06	61.978	62.955	81.067	63.597	59.949	75.392
60.144	62.251	59.005	58.941	60.547	60.346	59.376	55.507
59.43	76.749	75.031	60.199	64.265	71.757	61.638	58.075
70.878	59.33	58.632	59.228	58.522	58.634	75.33	59.567
61.437	70.396	61.51	60.206	60.975	58.761	55.057	72.62
59.619	59.257	70.785	62.099	60.018	73.068	73.548	58.243
73.945	72.88	59.802	67.929	63.114	59.754	60.495	61.71
57.977	74.403	59.736	61.204	74.076	58.499	58.945	71.149
59.926	58.852	71.727	60.397	63.596	73.85	58.744	61.148
71.433	61.638	58.754	70.777	59.317	59.413	59.374	55.013
58.96	88.291	60.937	61.003	77.36	60.123	60.66	58.073
57.904	59.542	59.496	58.111	59.869	55.198	59.278	74.086
61.209	58.169	58.566	60.409	60.657	59.061	54.991	59.383
72.239	59.473	58.205	72.686	60.459	58.331	59.114	68.824
59.96	59.751	59.075	58.692	74.671	59.395	59.025	59.476
57.894	61.164	70.731	61.866	61.011	70.072	58.563	58.627
59.991	58.118	58.636	73.626	61.317	61.936	72.024	61.655
59.872	72.243	58.736	58.27	71.093	59.585	59.336	79.403
59.8	61.967	73.473	59.382	63.154	73.323	59.927	58.191
69.744	59.362	58.958	59.948	58.493	58.649	74.536	59.885
61.137	69.692	61.058	59.739	62.149	59.789	54.739	59.503
58.924	70.878	58.175	60.965	71.378	61.644	60.396	82.914
61.569	59.025	59.311	55.381	61.096	71.951	59.235	61.159
69.301	61.366	58.943	72.648	61.036	57.812	71.409	59.114
58.833	71.068	59.215	59.608	75.536	61.179	57.828	73.062
59.96	60.665	58.079	58.423	59.189	59.621	59.091	68.291
58.619	60.917	70.182	59.352	63.408	73.269	60.552	58.944
58.189	59.493	59.567	58.814	57.22	57.534	74.198	59.15
60.862	69.508	61.059	60.496	60.419	59.442	55.132	59.619
58.37	58.502	54.323	58.582	59.224	58.533	72.443	68.304
59.55	72.18	59.643	59.224	73.792	59.269	59.009	58.94
57.523	61.068	70.48	61.462	60.377	69.824	58.365	58.733
58.686	54.905	58.627	73.505	60.972	61.69	58.49	61.151
58.79	72.74	57.589	59.42	71.297	59.416	58.518	83.112
59.044	59.099	72.935	58.483	62.482	71.285	62.053	58.616
69.924	59.481	58.464	58.194	58.05	59.398	58.531	60.751
73.651	58.315	60.685	73.137	158.43	60.376	70.059	56.468
56.36	59.886	58.659	58.752	74.993	74.817	61.622	70.962
61.457	58.2	59.14	59.134	60.954	72.446	59.364	58.229
70.135	61.427	58.199	72.698	61.354	58.292	70.928	59.19
58.769	70.014	59.301	59.866	60.81	61.36	57.663	73.434
59.404	61.104	69.589	58.759	58.015	72.011	59.542	57.662
59.718	58.636	70.789	59.505	62.479	72.83	59.421	60.949
69.498	59.049	58.301	57.978	58.274	57.92	58.64	60.875
73.313	57.939	60.901	71.923	60.307	59.093	69.22	58.667
58.712	58.5	57.596	58.563	58.315	71.843	71.425	58.173
58.684	59.1	58.959	59.192	73.106	59.3	58.502	59.15
58.607	61.664	71.717	58.827	61.402	69.846	58.725	58.847
58.433	57.583	57.812	71.508	61.211	61.564	70.138	60.853
58.972	71.85	57.807	58.764	70.439	72.096	59.622	69.862
58.875	59.09	72.659	58.986	63.354	72.522	59.293	60.694
69.743	58.862	58.568	58.327	57.869	57.133	64.277	58.117
68.46	55.131	55.701	69.122	62.052	59.799	70.282	59.877
58.859	58.764	57.741	58.28	74.594	75.295	61.846	69.607

61.242	58.474	58.988	58.94	60.567	71.242	59.334	58.882
70.024	61.749	59.071	72.757	61.14	63.584	57.457	56.578
55.958	67.997	59.06	60.365	61.588	58.748	57.758	74.294
59	60.719	70.481	59.108	59.243	72.398	59.787	58.024
58.34	58.834	74.001	59.094	62.731	72.573	60.208	59.468
70.343	60.157	58.773	59.121	57.863	57.18	58.863	61.295
73.392	57.742	57.861	74.696	68.432	60.021	70.75	58.967
58.773	58.684	57.701	58.213	75.042	59.629	58.382	70.101
58.548	58.115	60.151	81.814	60.549	72.269	59.238	81.086
55.144	50.062	46.8	52.3	48.579	43.814	47.891	42.163
48.037	42.62	42.433	48.66	46.692	48.372	49.774	48.13
45.806	51.996	44.012	47.815	52.914	44.241	41.285	47.493
42.199	44.61	53.321	45.288	48.594	52.709	45.448	46.851
52.73	42.002	41.072	42.228	41.029	40.681	48.792	49.582
52.77	44.107	46.537	51.667	49.645	45.782	48.298	41.303
41.304	41.915	40.436	44.174	58.671	49.617	46.841	48.937
47.864	45.125	46.062	43.735	43.178	47.001	41.819	40.909
45.974	45.39	47.831	52.317	47.231	43.07	46.891	41.746
40.731	46.244	41.215	42.217	46.685	48.63	43.247	51.976
45.776	46.989	49.131	47.357	46.731	44.293	41.624	40.144
40.817	44.199	53.346	45.906	48.303	52.758	45.264	44.182
52.24	41.548	40.904	41.554	44.468	42.045	45.234	47.915
52.024	44.258	47.133	52.512	49.337	45.643	49.111	41.328
41.663	41.718	47.318	45.15	54.894	44.991	47.545	41.542
41.107	47.542	45.588	44.253	49.022	40.956	42.315	45.936
44.699	48.438	45.186	47.53	52.339	44.482	47.15	47.25
41.762	39.859	46.323	43.011	42.254	43.745	43.471	47.671
50.361	48.23	43.735	47.13	48.332	43.715	41.804	40.488
41.375	44.654	47.747	44.558	55.062	47.536	45.049	51.663
47.659	41.479	49.058	41.533	40.916	46.072	49.011	49.687
52.482	43.653	47.356	51.461	48.823	50.597	49.077	42.979
41.899	46.678	50.366	51.103	50.789	48.248	46.784	48.631
47.398	44.412	45.765	43.774	42.975	46.528	42.18	45.603
49.339	48.813	45.71	44.684	47.254	43.366	51.516	45.918
42.403	46.333	41.102	43.05	46.522	48.312	43.685	51.816
45.612	46.572	54.278	49.91	42.129	42.119	41.958	40.303
46.409	44.522	48.075	50.601	49.37	47.731	49.681	44.919
47.644	46.284	41.403	41.369	40.204	40.208	44.066	52.676
47.656	43.794	51.985	46.657	47.452	45.859	42.6	40.773
41.374	41.395	53.222	49.983	46.634	42.583	41.452	40.185
40.631	46.688	46.355	44.495	48.291	42.273	42.169	44.764
42.944	47.991	50.634	47.726	47.361	51.215	48.24	45.934
41.5	39.85	41.121	47.481	46.011	48.181	49.487	47.912
45.338	52.308	48.034	47.349	51.844	42.79	41.301	46.142
41.196	44.255	52.442	45.336	48.859	53.173	46.351	46.187
46.931	42.206	40.808	41.461	40.798	40.149	48.833	49.992
52.627	43.959	46.845	51.033	48.729	45.833	48.17	41.605
41.341	41.036	45.859	46.905	53.261	46.985	46.722	49.421
47.286	44.27	45.828	43.809	42.965	47.043	41.9	44.268
49.43	48.251	45.056	52.369	47.533	40.589	49.895	45.966
42.482	45.857	41.106	42.4	45.83	47.073	43.621	51.859
45.373	46.11	54.161	48.523	45.798	41.568	41.037	40.146
45.545	44.222	47.091	49.652	49.194	46.848	50.33	46.496
90.592	47.619	40.799	41.988	49.056	44.831	45.048	53.768
47.883	43.947	52.335	47.243	48.249	45.863	43.039	40.98
47.109	43.092	47.192	50.658	48.443	41.461	41.018	39.759
40.267	41.493	45.81	50.027	43.696	41.543	46.493	44.473
43.212	52.236	46.274	46.839	51.505	42.913	45.881	45.774
41.608	40.688	46.117	43.04	45.642	52.78	44.571	46.799
56.005	49.297	43.236	51.892	44.857	42.587	41.742	40.192
41.893	44.693	47.669	64.713	45.833	47.841	50.123	46.917
42.887	51.476	42.342	40.782	40.287	40.518	48.628	54.728
47.007	43.528	51.295	46.236	48.036	47.684	42.43	39.777
50.278	43.546	40.235	46.729	44.636	47.534	51.777	43.609
46.48	49.994	47.943	71.324	48.669	41.411	40.99	41.118
40.275	44.112	53.196	47.384	46.814	48.821	47.218	47.08
42.227	39.969	40.483	48.003	42.778	43.644	48.498	47.776
50.483	54.458	44.29	46.621	52.523	42.09	41.583	45.728
41.461	40.417	44.147	43.79	48.75	51.604	44.984	46
48.28	47.652	40.811	41.132	40.428	40.394	46.109	43.652
47.721	48.355	46.936	45.606	53.269	47.077	48.168	46.765
46.556	43.233	46.824	42.691	47.819	42.327	40.844	39.654
45.845	41.587	47.018	69.61	45.187	40.694	47.016	41.428
40.783	49.97	49.195	47.053	43.424	44.656	47.066	46.835

max val(#292) = 158.43us
min val(#1007) = 39.65us
peak-to-peak = 118.78us
mean +- RMS = 54.44 +- 10.45 us

packet size: 512
number of packets: 1024
RATE = 524.29kbps, PPS = 128.0

3.4 AF_INET “socket(AF_INET, SOCK_DGRAM, IPPROTO_UDP)”

3.4.1 AF_INET, 1 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t ptpl4 -m rx-lat -n 1024
Destination address is set to 224.0.1.129
joined mcast group: 224.0.1.129
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCGHWTSTAMP: tx_type 0 requested, got 0; rx_filter 7 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

37.663	29.429	33.268	38.93	27.924	32.322	30.247	28.567
31.578	25.893	29.488	35.044	27.193	27.901	30.675	26.017
32.372	31.864	26.313	26.712	31.167	27.379	28.468	33.242
26.249	27.765	32.866	25.945	27.007	31.059	25.911	27.296
40.653	30.039	30.004	33.068	30.886	27.45	28.908	29.232
39.974	28.744	29.888	34.647	28.122	28.367	40.921	27.434
33.284	40.666	28.429	28.87	40.788	26.733	25.816	32.753
30.255	26.856	32.911	26.786	26.083	28.889	37.303	28.83
36.385	27.195	29.602	34.203	26.509	26.476	33.955	29.032
26.137	32.439	26.409	26.588	28.268	26.366	31.111	27.841
29.556	32.732	28.466	27.024	32.167	28.661	30.293	32.121
30.237	28.931	38.881	30.764	28.582	38.565	27.665	25.681
46.5	31.136	29.843	40.446	30.078	28.391	41.698	30.423
29.067	40.752	31.35	31.244	40.562	29.599	28.559	41.703
29.424	25.628	25.371	28.614	33.5	25.415	26.26	30.633
24.959	26.99	31.632	31.258	29.983	32.322	27.698	28.553
34.197	26.587	28.272	34.481	26.117	26.607	31.772	26.097
28.009	32.375	26.958	26.794	31.153	29.778	30.586	40.059
30.622	27.812	42.796	28.88	29.587	39.17	28.066	28.324
25.773	30.163	43.226	28.821	31.34	40.199	27.878	28.406
42.29	29.239	27.776	32.873	29.022	27.006	34.399	29.267
26.424	33.971	26.497	28.012	32.843	26.335	26.023	31.993
30.579	26.627	32.865	26.994	26.972	33.276	26.582	31.359
41.395	26.949	29.204	34.105	27.573	25.708	28.694	29.922
36.171	29.588	26.596	31.934	32.4	26.909	39.179	29.774
28.655	41.543	30.814	28.916	38.917	30.419	30.044	31.375
31.605	28.811	39.013	30.536	29.768	38.782	33.658	30.462
37.102	27.936	28.209	31.579	28.416	29.383	32.299	26.98
29.203	31.437	27.432	27.78	32.744	27.963	32.392	28.249
27.467	30.972	26.315	26.555	33.212	25.606	26.714	31.636
28.257	27.253	32.06	25.497	31.103	34.089	29.331	27.278
31.224	25.542	30.168	42.786	30.923	29.952	40.246	29.546
33.372	40.209	28.695	30.774	39.128	29.532	30.77	39.802
28.215	26.721	30.905	28.954	40.611	25.447	28.133	34.631
31.383	29.153	39.924	28.591	29.497	34.062	26.165	26.4
32.693	30.225	26.354	33.071	26.319	26.691	34.117	25.941
29.831	33.505	26.435	28.015	37.531	27.612	26.961	33.106
27.118	26.907	33.056	25.965	26.288	35.669	25.903	25.164
36.715	28.836	43.524	30.327	28.771	39.55	30.613	29.598
39.5	29.272	28.177	38.916	29.911	29.742	37.956	30.163
32.036	33.697	28.376	29.288	31.925	31.153	29.576	34.099
28.097	26.679	31.669	28.433	26.544	32.193	27.259	30.111
39.27	28.093	26.095	30.998	27.086	36.293	26.239	27.275
31.44	26.436	27.994	34.399	26.387	28.062	31.902	28.415
29.274	32.093	26.878	27.257	37.685	26.546	29.94	34.336
29.068	30.226	35.156	28.792	29.284	36.815	32.012	30.229
36.648	29.555	30.847	37.15	28.771	26.862	31.374	26.117
28.958	31.557	28.69	26.388	25.293	25.943	36.763	27.427
29.817	34.407	28.665	26.305	32.425	26.033	25.974	34.775
26.76	25.899	33.224	30.057	29.659	33.656	26.221	26.15
39.663	31.322	26.739	32.657	26.434	26.281	34.864	28.416
26.933	33.695	27.045	28.766	33.234	28.126	29.991	40.953
32.834	26.864	29.283	28.608	38.614	29.947	30.303	40.036
26.661	31.666	44.536	29.942	28.845	38.587	31.275	28.926
35.012	29.806	26.498	31.135	28.014	25.971	32.746	28.189
26.436	33.92	28.356	26.229	31.257	27.592	28.751	31.873
31.202	27.279	36.21	27.623	26.624	30.847	27.346	25.74
31.479	27.383	32.086	25.79	26.466	35.167	26.279	27.434
33.934	26.449	28.459	31.437	41.206	29.878	39.545	31.807
31.196	41.161	29.598	27.811	42.06	26.101	29.662	39.319
31.678	31.648	38.864	26.161	29.506	34.757	34.545	31.261
40.692	28.405	28.073	34.701	26.41	27.015	28.29	26.277
34.483	27.115	25.97	32.521	26.418	27.649	38.323	26.407
25.79	32.381	27.766	26.569	37.202	26.85	27.854	32.919
27.846	26.156	31.901	26.748	31.82	36.64	27.024	27.301
35.701	29.289	29.727	36.093	28.346	28.459	37.338	28.958
30.714	34.974	29.45	27.853	26.775	25.749	37.623	27.282
30.399	39.409	28.274	26.227	32.085	28.631	29.445	32.849
28.278	26.044	39.221	30.078	26.975	32.419	27.997	30.512
32.591	27.873	26.003	31.373	27.637	26.371	34.628	27.938
26.418	33.2	29.022	27.438	31.748	27.787	27.777	31.95
27.311	26.218	26.206	29.258	31.683	25.671	31.146	30.257
42.428	30.909	36.889	28.637	29.257	35.67	30.541	30.325
33.903	28.149	30.597	33.936	29.101	29.567	41.373	31.249
27.037	31.419	26.072	27.591	35.868	27.342	27.083	31.985
26.416	28.47	31.627	26.948	27.006	32.057	30.308	30.718
27.057	32.975	29.143	30.122	27.089	33.544	26.331	26.506
38.784	26.877	25.862	32.159	26.949	27.57	37.188	26.9
27.288	33.879	28.695	26.715	33.175	28.654	28.461	37.689
29.281	26.024	35.792	28.888	29.479	40.064	33.264	26.888
38.282	29.729	30.157	39.795	27.87	25.884	28.466	28.141
34.28	27.57	29.029	34.454	28.139	26.105	33.763	27.44
28.932	31.84	27.364	25.608	30.665	27.293	25.942	31.271
27.52	25.949	32.499	28.517	28.189	37.378	31.933	28.748
33.538	27.172	26.127	31.322	28.567	26.254	31.513	26.077
25.804	33.106	28.187	26.292	25.521	26.66	39.844	26.553
29.459	33.964	28.413	28.308	33.76	28.429	28.175	37.81
29.655	29.047	45.758	29.459	26.852	35.316	29.365	27.829
31.496	26.798	29.483	28.092	31.136	27.888	31.278	27.675
28.141	31.108	26.849	26.849	38.578	26.173	28.996	31.039
25.73	26.703	26.082	25.754	37.13	26.095	26.656	31.749
32.896	27.504	35.124	29.807	27.123	32.808	29.059	26.591
37.132	28.194	29.099	35.514	28.444	29.702	36.789	26.534
28.898	36.582	30.217	28.81	39.95	27.726	30.689	36.73
28.996	30.403	32.294	26.894	29.67	32.855	32.066	28.512
27.753	30.419	33.401	27.368	26.14	31.216	31.328	28.158
34.814	30.327	26.705	35.223	26.854	27.431	31.987	27.482
28.334	32.333	26.542	27.02	30.653	28.072	29.275	31.621

26.909	27.121	33.215	26.761	31.072	34.415	31.414	31.687
34.95	29.811	28.485	32.021	31.08	26.176	31.187	30.52
34.441	30.977	30.887	38.743	29.197	30.044	35.401	27.343
27.384	31.739	26.395	27.328	31.403	25.718	29.257	31.823
28.428	26.963	31.461	31.13	27.908	36.145	26.882	27.691
36.667	26.423	28.044	35.562	26.72	26.828	34.294	30.36
27.927	36.913	26.568	26.717	27.833	26.442	32.2	26.187
26.876	34.817	27.476	26.252	32.401	30.421	32.714	33.233
28.532	33.847	38.02	32.362	28.839	38.998	29.515	28.991
40.323	26.363	29.316	35.007	28.617	27.642	44.206	26.114
29.179	36.476	30.095	26.942	33.359	26.918	26.168	32.193
26.826	26.234	27.8	26.75	32.751	26.719	28.937	31.655
34.23	30.033	46.018	35.027	43.856	53.853	27.66	27.504
32.225	27.926	27.856	34.544	27.701	26.014	35.442	27.895
29.129	32.345	30.267	28.685	34.378	31.257	28.7	33.932
30.264	29.233	36.128	29.654	28.894	27.235	48.863	31.857
39.849	28.887	40.351	29.944	30.066	40.293	29.904	30.319
32.323	27.808	28.917	33.318	27.499	28.509	38.036	27.564
27.685	33.028	27.047	28.654	32.787	27.682	31.194	32.628
27.247	27.229	32.141	27.066	33.4	42.457	32.09	28.928
32.802	27.51	28.579	34.859	28.193	27.664	33.248	29.337
37.306	30.039	29.218	36.043	30.924	30.931	44.778	31.133
30.304	31.452	36.664	30.541	40.357	30.147	31.703	41.825
29.709	29.077	43.794	34.168	30.151	33.063	29.892	29.2
34.516	30.314	26.65	34.565	27.665	28.165	34.655	27.303
26.71	33.403	27.815	28.399	32.843	27.159	34.911	28.596
27.805	31.852	27.369	27.312	33.482	27.787	27.517	32.466
31.365	31	33.871	29.098	27.738	32.835	35.477	30.22
42.36	27.365	29.475	36.885	30.411	30.149	36.042	30.871
31.099	40.35	30.169	30.284	35.494	30.721	32.371	40.015

max val(#885) = 53.85us
min val(#120) = 24.96us
peak-to-peak = 28.89us
mean +- RMS = 30.69 +- 4.24 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

85.725	72.55	78.893	67.182	70.109	57.909	55.469	54.819
57.096	49.451	54.819	61	51.565	48.312	56.933	51.077
50.752	57.096	48.963	45.546	56.282	48.149	50.264	53.029
43.757	48.963	56.445	49.451	46.197	55.957	47.824	48.637
70.76	57.746	55.795	52.541	56.446	47.987	48.149	50.589
61.325	54.168	52.053	55.144	49.451	52.053	62.79	51.728
53.843	63.765	52.541	54.656	63.766	43.107	45.058	52.541
53.355	44.083	54.005	43.594	44.408	50.752	61.488	55.794
59.048	45.059	52.053	54.656	44.083	43.92	55.306	48.8
51.891	54.494	43.269	49.125	48.475	46.36	51.24	50.915
45.547	54.656	50.264	45.384	51.403	50.101	54.981	52.378
54.981	51.566	51.728	53.355	51.077	63.115	56.934	53.192
63.603	59.374	56.446	55.47	58.397	53.029	58.234	60.024
56.608	55.958	61.651	56.77	58.56	54.331	56.771	64.416
54.493	50.101	54.819	47.987	54.005	48.963	46.198	51.077
46.848	47.987	57.096	62.79	52.054	54.006	50.427	51.402
57.096	55.307	48.8	58.723	51.402	48.475	56.933	51.89
49.451	57.259	49.939	47.498	55.632	53.192	55.958	55.144
43.757	48.637	56.446	53.843	52.541	63.277	60.187	47.173
61.163	68.808	58.234	51.891	55.795	57.747	54.493	58.235
53.355	49.45	51.728	54.981	42.944	50.427	54.818	51.89
45.872	56.446	49.288	48.475	52.867	43.107	50.426	56.608
48.312	50.589	53.843	48.637	49.288	54.656	48.8	57.096
63.603	47.011	51.89	55.306	43.757	43.92	48.8	51.728
53.354	48.963	45.872	56.771	61	51.24	56.608	59.21
56.608	61	62.627	57.096	56.771	55.144	54.168	52.542
54.168	51.24	58.072	53.843	49.938	57.909	62.464	53.517
56.445	48.149	51.403	49.776	46.034	54.005	51.728	49.451
45.547	50.915	48.8	47.499	53.355	47.987	50.426	48.149
47.173	51.403	48.312	46.522	55.144	62.789	59.048	57.747
48.312	54.818	57.422	47.499	64.416	60.186	57.258	54.168
56.445	47.336	61.162	61.976	63.44	60.837	57.909	60.675
57.91	57.096	55.307	54.656	52.704	52.541	57.096	52.378
56.445	48.638	55.306	57.421	56.12	48.963	62.789	57.422
55.632	62.79	61.651	49.938	49.451	56.12	48.8	50.752
53.192	48.8	52.053	53.518	48.8	49.776	54.981	57.747
47.661	55.307	47.173	54.981	55.957	51.566	51.728	53.517
47.824	50.752	54.494	48.475	50.752	55.307	44.245	52.054
52.704	58.56	56.445	55.307	51.078	51.565	55.307	55.306
53.03	53.518	50.915	52.542	54.006	52.053	59.048	58.072
52.216	54.981	50.427	50.427	50.915	53.355	48.8	51.89
46.686	45.221	51.566	48.963	45.384	50.915	45.709	57.746
60.186	48.475	44.896	50.264	45.872	58.072	46.523	47.987
53.192	52.704	61.651	57.91	43.757	50.102	51.24	49.776
47.499	52.378	48.474	51.89	63.277	49.776	47.661	51.891
45.058	50.102	54.819	43.432	48.312	62.301	52.216	51.24
52.541	43.595	49.613	58.234	51.24	48.15	53.192	45.384
49.451	52.379	43.594	47.011	41.643	46.035	57.259	52.541
46.198	56.12	49.45	46.685	54.168	43.595	43.595	55.957
42.456	43.594	52.704	54.656	50.589	54.493	50.264	47.173
61.651	47.661	47.336	54.656	46.848	44.571	57.096	47.173
46.522	54.818	43.594	48.475	54.819	49.45	51.89	57.584
55.632	45.384	52.379	50.752	58.072	55.632	56.933	58.397
53.68	53.843	66.856	62.79	56.12	56.77	61.163	59.536
47.421	53.029	50.589	56.77	52.542	50.427	50.102	47.662
45.709	53.68	49.288	46.36	51.24	47.336	48.149	49.938
51.24	44.896	59.373	47.824	50.752	51.566	52.867	48.638
57.584	50.59	52.216	42.456	46.523	57.421	43.757	50.101
53.192	51.078	56.77	55.795	52.379	59.699	55.958	60.837
61.163	56.933	54.656	52.053	60.024	49.125	60.349	57.584
57.91	55.469	52.867	48.15	52.704	50.589	65.229	52.053
59.373	61.488	56.282	58.397	49.614	49.776	54.819	51.24
55.958	49.126	51.078	52.541	47.499	45.709	59.698	44.246
50.102	55.144	48.312	57.91	53.842	56.933	51.565	54.331
54.981	52.216	54.33	44.571	55.795	56.12	44.082	51.077
55.47	48.312	53.355	55.307	49.126	53.029	58.56	46.848
47.498	56.77	44.896	47.987	48.474	46.523	58.234	47.661
53.029	60.186	47.336	50.752	54.33	55.795	50.752	56.283
53.355	51.728	66.043	58.886	53.192	56.77	50.915	50.752
52.704	47.661	44.896	50.59	48.312	47.824	51.728	46.686
52.053	54.818	57.258	46.035	52.704	47.824	48.637	52.216
47.174	44.896	42.618	48.475	51.891	44.734	47.173	49.776
64.904	59.698	57.91	44.733	48.962	58.235	44.245	47.662
51.891	45.222	48.8	56.445	51.078	55.632	60.35	55.957
47.661	51.403	42.618	46.685	55.632	41.643	47.336	51.89

42.944	46.522	51.891	42.944	46.523	52.704	46.035	56.282
48.637	52.704	50.752	50.914	51.403	54.981	49.613	50.752
62.952	47.011	44.571	56.12	44.083	49.938	58.397	43.594
44.734	55.632	49.451	51.402	61.651	48.638	50.427	60.675
50.264	50.264	59.699	49.939	52.379	70.76	56.446	51.89
63.928	60.186	61	55.144	48.474	50.102	48.8	49.938
56.12	46.685	56.445	55.144	47.986	53.68	57.747	47.498
48.637	57.422	46.36	50.915	51.24	47.174	44.733	51.89
52.216	44.896	52.867	47.336	56.933	62.301	57.909	56.608
54.819	47.499	44.245	52.053	49.451	44.408	51.078	46.197
45.222	54.982	49.613	45.709	43.92	50.915	55.794	43.432
46.523	51.24	42.293	47.986	52.704	43.269	51.728	58.56
46.523	53.192	67.019	51.077	47.498	60.35	44.733	48.963
52.867	46.035	50.427	48.963	53.518	49.288	52.704	48.8
48.15	51.24	42.456	46.686	60.675	44.245	53.843	51.728
42.456	49.938	49.288	50.752	61	44.896	46.686	53.029
56.771	48.474	57.746	50.589	46.848	57.91	44.408	47.011
57.096	43.758	45.547	53.029	43.595	47.336	58.072	42.781
45.221	55.957	49.126	46.035	61.162	51.565	45.872	55.632
50.589	45.709	52.379	45.546	47.661	53.03	56.12	45.547
48.8	49.939	51.728	49.125	44.896	53.03	50.264	44.408
55.958	48.475	45.058	55.958	46.36	45.709	50.752	54.331
53.518	52.704	54.656	45.384	51.077	49.288	44.896	52.704
46.848	45.71	53.842	47.499	53.68	55.469	53.68	52.541
53.355	48.963	45.872	51.565	49.614	47.336	44.408	48.963
52.216	48.15	50.264	60.512	48.8	54.656	56.282	43.432
47.011	52.053	42.294	47.173	52.542	45.384	46.36	52.541
48.637	47.336	52.053	57.259	49.776	56.933	45.058	47.662
61.163	44.245	48.312	57.421	44.083	55.795	53.355	58.398
54.493	61.163	43.27	47.824	47.173	44.408	54.005	45.058
44.082	56.446	43.757	45.547	54.494	51.077	47.824	55.144
43.92	57.909	59.048	52.704	46.522	57.584	44.896	46.197
65.066	43.594	50.752	54.005	49.45	48.475	65.554	43.92
45.872	55.47	49.288	45.059	53.843	40.016	44.896	55.632
44.896	45.059	46.523	45.872	53.192	63.115	45.547	57.422
73.525	62.952	61	53.355	40.342	40.016	44.733	50.427
52.379	49.776	46.848	57.421	48.475	46.686	54.656	48.312
47.498	51.891	48.15	45.872	51.566	49.451	46.197	52.053
50.101	51.077	60.838	54.168	51.077	52.704	67.019	61.325
61.813	61.651	59.698	58.886	62.139	54.493	53.029	53.029
52.704	47.662	50.101	53.192	45.547	52.378	57.909	48.474
48.15	54.168	47.336	48.963	53.842	46.685	57.584	53.517
47.011	47.499	53.029	45.384	58.56	61	52.054	48.962
54.331	46.685	50.426	59.373	47.986	48.475	53.192	49.939
55.632	48.149	47.336	56.283	50.101	52.867	58.56	60.512
47.173	51.728	53.192	53.518	55.632	53.68	54.656	55.795
54.168	52.541	68.482	58.885	54.331	57.584	47.011	47.011
56.771	47.662	46.36	54.656	47.987	56.283	58.885	47.01
47.173	55.958	50.101	48.15	55.144	50.102	54.494	50.102
46.686	53.192	47.011	53.843	54.331	47.336	46.848	54.168
54.656	52.704	55.144	49.776	47.987	55.307	52.542	52.379
57.096	48.963	48.149	57.421	48.149	47.499	53.192	48.963
49.613	61.813	47.986	53.03	54.005	54.33	54.493	54.656

max val(#0) = 85.72us
min val(#869) = 40.02us
peak-to-peak = 45.71us
mean +- RMS = 52.17 +- 5.51 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

123.388	101.979	112.161	106.112	98.033	90.231	85.716	83.386
88.674	75.344	84.307	96.044	78.758	76.213	87.608	77.094
83.124	88.96	75.276	72.258	87.449	75.528	78.732	86.271
70.006	76.728	89.311	75.396	73.204	87.016	73.735	75.933
111.413	87.785	85.799	85.609	87.332	75.437	77.057	79.821
101.299	82.912	81.941	89.791	77.573	80.42	103.711	79.162
87.127	104.431	80.97	83.526	104.554	69.84	70.874	85.294
83.61	70.939	86.916	70.38	70.491	79.641	98.791	84.624
95.433	72.254	81.655	88.859	70.592	70.396	89.261	77.832
78.028	86.933	69.678	75.713	76.743	72.726	82.351	78.756
75.103	87.388	78.73	72.408	83.57	78.762	85.274	84.499
85.218	80.497	90.609	84.119	79.659	101.68	84.599	78.873
110.103	90.51	86.289	95.916	88.475	81.42	99.932	90.447
85.675	96.71	93.001	88.014	99.122	83.93	85.33	106.119
83.917	75.729	80.19	76.601	87.505	74.378	72.458	81.71
71.807	74.977	88.728	94.048	82.037	86.328	78.125	79.955
91.293	81.894	77.072	93.204	77.519	75.082	88.705	77.987
77.46	89.634	76.897	74.292	86.785	82.97	86.544	95.203
74.379	76.449	99.242	82.723	82.128	102.447	88.253	75.497
86.936	98.971	101.46	80.712	87.135	97.946	82.371	86.641
95.645	78.689	79.504	87.854	71.966	77.433	89.217	81.157
72.296	90.417	75.785	76.487	85.71	69.442	76.449	88.601
78.891	77.216	86.708	75.631	76.26	87.932	75.382	88.455
104.998	73.96	81.094	89.411	71.33	69.628	77.494	81.65
89.525	78.551	72.468	88.705	93.4	78.149	95.787	88.984
85.263	102.543	93.441	86.012	95.688	85.563	84.212	83.917
85.773	80.051	97.085	84.379	79.706	96.691	96.122	83.979
93.547	76.085	79.612	81.355	74.45	83.388	84.027	76.431
74.75	82.352	76.232	75.279	86.099	75.95	82.818	76.398
74.64	82.375	74.627	73.077	88.356	88.395	85.762	89.383
76.569	82.071	89.482	72.996	95.519	94.275	86.589	81.446
87.669	72.878	91.33	104.762	94.363	90.789	98.155	90.221
91.282	97.305	84.002	85.43	91.832	82.073	87.866	92.18
84.66	75.359	86.211	86.375	96.731	74.41	90.922	92.053
87.015	91.943	101.575	78.529	78.948	90.182	74.965	77.152
85.885	79.025	78.407	86.589	75.119	76.467	89.098	83.688
77.492	88.812	73.608	82.996	93.488	79.178	78.689	86.623
74.942	77.659	87.55	74.44	77.04	90.976	70.148	77.218
89.419	87.396	99.969	85.634	79.849	91.115	85.92	84.904
92.53	82.79	79.092	91.458	83.917	81.795	97.004	88.235
84.252	88.678	78.803	79.715	82.84	84.508	78.376	85.989
74.783	71.9	83.235	77.396	71.928	83.108	72.968	87.857
99.456	76.568	70.991	81.262	72.958	94.365	72.762	75.262
84.632	79.14	89.645	92.309	70.144	78.164	83.142	78.191
76.773	84.471	75.352	79.147	100.962	76.322	77.601	86.227
74.126	80.328	89.975	72.224	77.596	99.116	84.228	81.469
89.189	73.15	80.46	95.384	80.011	75.012	84.566	71.501
78.409	83.936	72.284	73.399	66.936	71.978	94.022	79.968
76.015	90.527	78.115	72.99	86.593	69.628	69.569	90.732
69.216	69.493	85.928	84.713	80.248	88.149	76.485	73.323
101.314	78.983	74.075	87.313	73.282	70.852	91.96	75.589
73.455	88.513	70.639	77.241	88.053	77.576	81.881	98.537

88.466	72.248	81.662	79.36	96.686	85.579	87.236	98.433
80.341	85.509	111.392	92.732	84.965	95.357	92.438	88.462
92.433	82.835	77.087	87.905	80.556	76.398	82.848	75.851
72.145	87.6	77.644	72.589	82.497	74.928	76.9	81.811
82.442	72.175	95.583	75.447	77.376	82.413	80.213	74.378
89.063	77.973	84.302	68.246	72.989	92.588	70.036	77.535
87.126	77.527	85.229	87.232	93.585	89.577	95.503	92.644
92.359	98.094	84.254	79.864	102.084	75.226	90.011	96.903
89.588	87.117	91.731	74.311	82.21	85.346	99.774	83.314
100.065	89.893	84.355	93.098	76.024	76.791	83.109	77.517
90.441	76.241	77.048	85.062	73.917	73.358	98.021	70.653
75.892	87.525	76.078	84.479	91.044	83.783	79.419	87.25
82.827	78.372	86.231	71.319	87.615	92.76	71.106	78.378
91.171	77.601	83.082	91.4	77.472	81.488	95.898	75.806
78.212	91.744	74.346	75.84	75.249	72.272	95.857	74.943
83.428	99.595	75.61	76.979	86.415	84.426	80.197	89.132
81.633	77.772	105.264	88.964	80.167	89.189	78.912	81.264
85.295	75.534	70.899	81.963	75.949	74.195	86.356	74.624
78.471	88.018	86.28	73.473	84.452	75.611	76.414	84.166
74.485	71.114	68.824	77.733	83.574	70.405	78.319	80.033
107.332	90.607	94.799	73.37	78.219	93.905	74.786	77.987
85.794	73.371	79.397	90.381	80.179	85.199	101.723	87.206
74.698	82.822	68.69	74.276	91.5	68.985	74.419	83.875
69.36	74.992	83.518	69.892	73.529	84.761	76.343	87
75.694	85.679	79.895	81.036	78.492	88.525	75.944	77.258
101.736	73.888	70.433	88.279	71.032	77.508	95.585	70.494
72.022	89.511	78.146	78.117	94.826	77.292	78.888	98.364
79.545	76.288	95.491	78.827	81.858	110.824	89.71	78.778
102.21	89.915	91.157	94.939	76.344	75.986	77.266	78.079
90.4	74.255	85.474	89.598	76.125	79.785	91.51	74.938
77.569	89.262	73.724	76.523	81.905	74.467	70.675	83.161
79.736	70.845	85.366	75.853	85.122	99.679	89.842	85.356
88.357	74.671	70.372	83.375	78.018	70.662	82.591	72.274
71.026	88.088	77.8	72.001	69.441	77.575	95.638	69.985
75.982	85.204	70.706	76.294	86.464	71.698	79.903	96.37
76.178	82.239	112.777	80.536	74.35	95.666	74.098	76.792
84.363	72.833	79.91	77.055	84.654	77.176	83.982	76.475
76.291	82.348	69.105	73.535	99.253	70.418	82.839	82.767
68.186	76.641	75.37	76.506	98.13	70.991	73.342	84.778
89.667	75.978	92.87	80.396	73.971	90.718	73.467	73.602
94.228	71.952	74.646	88.543	72.039	77.038	94.861	69.315
74.119	92.539	79.343	74.845	101.112	79.291	76.561	92.362
79.585	76.112	84.673	72.44	77.331	85.885	88.186	74.059
76.553	80.358	85.129	76.493	71.036	84.246	81.592	72.566
90.772	78.802	71.763	91.181	73.214	73.14	82.739	81.813
81.852	85.037	81.198	72.404	81.73	77.36	74.171	84.325
73.757	72.831	87.057	74.26	84.752	89.884	85.094	84.228
88.305	78.774	74.357	83.586	80.694	73.512	75.595	79.483
86.657	79.127	81.151	99.255	77.997	84.7	91.683	70.775
74.395	83.792	68.689	74.501	83.945	71.102	75.617	84.364
77.065	74.299	83.514	88.389	77.684	93.078	71.94	75.353
97.83	70.668	76.356	92.983	70.803	82.623	87.649	88.758
82.42	98.076	69.838	74.541	75.006	70.85	86.205	71.245
70.958	91.263	71.233	71.799	86.895	81.498	80.538	88.377
72.452	91.756	97.068	85.066	75.361	96.582	74.411	75.188
105.389	69.957	80.068	89.012	78.067	76.117	109.76	70.034
75.051	91.946	79.383	72.001	87.202	66.934	71.064	87.825
71.722	71.293	74.323	72.622	85.943	89.834	74.484	89.077
107.755	92.985	107.018	88.382	84.198	93.869	72.393	77.931
84.604	77.702	74.704	91.965	76.176	72.7	90.098	76.207
76.627	84.236	78.417	74.557	85.944	80.708	74.897	85.985
80.365	80.31	96.966	83.822	79.971	79.939	115.882	93.182
101.662	90.538	100.049	88.83	92.205	94.786	82.933	83.348
85.027	75.47	79.018	86.51	73.046	80.887	95.945	76.038
75.835	87.196	74.383	77.617	86.629	74.367	88.778	86.145
74.258	74.728	85.17	72.45	91.96	103.457	84.144	77.89
87.133	74.195	79.005	94.232	76.179	76.139	86.44	79.276
92.938	78.188	76.554	92.326	81.025	83.798	103.338	91.645
77.477	83.18	89.856	84.059	95.989	83.827	86.359	97.62
83.877	81.618	112.276	93.053	84.482	90.647	76.903	76.211
91.287	77.976	73.01	89.221	75.652	84.448	93.54	74.313
73.883	89.361	77.916	76.549	87.987	77.261	89.405	78.698
74.491	85.044	74.38	81.155	87.813	75.123	74.365	86.634
86.021	83.704	89.015	78.874	75.725	88.142	88.019	82.599
99.456	76.328	77.624	94.306	78.56	77.648	89.234	79.834
80.712	102.163	78.155	83.314	89.499	85.051	86.864	94.671

max val(#0) = 123.39us
min val(#869) = 66.93us
peak-to-peak = 56.45us
mean +- RMS = 82.86 +- 8.81 us

packet size: 512
number of packets: 1024
RATE = 4.10kbps, PPS = 1.0

3.4.2 AF_INET, 128 PPS

```
root@am57xx-evm:~# ./plget -i eth0 -t tptl4 -m rx-lat -n 1024
Destination address is set to 224.0.1.129
joined mcast group: 224.0.1.129
SIOCGHWTSTAMP: tx_type was 0; rx_filter was 12
SIOCShWTSTAMP: tx_type 0 requested, got 0; rx_filter 7 requested, got 12
setting ts_flags: 0x58
new ts_flags: 0x58
```

driver rx latency, us (doesn't include stack latency, wire -> net subsystem): packets 1024:

37.347	27.181	30.832	26.881	28.251	25.203	27.539	25.712
24.768	24.563	25.054	24.911	25.787	27.326	24.857	27.637
25.974	27.385	27.361	25.617	25.508	24.789	24.951	24.886
25.29	25.316	25.07	27.733	25.144	27.419	31.494	27.659
25.156	25.092	26.811	25.054	25.595	25.324	25.099	25.029
27.467	25.114	27.803	27.642	25.711	25.004	24.741	24.694
25.019	25.345	26.688	25.115	27.821	25.796	27.737	24.861
27.774	25.83	25.482	25.787	24.844	25.034	30.178	24.794
24.991	27.555	29.395	25.969	27.455	24.837	27.488	23.847
25.355	24.419	24.788	25.318	25.16	25.027	24.629	24.956
27.454	29.782	25.154	27.195	25.322	25.024	24.997	25.011
24.935	25.163	27.332	27.788	24.621	37.194	26.136	24.937
24.785	27.051	25.094	25.07	25.032	24.788	24.91	25.04
27.211	25.248	27.453	27.446	25.783	25.298	24.754	24.97
24.811	27.459	24.775	25.326	24.851	24.599	24.902	24.894
25.107	27.173	25.341	24.903	24.783	30.767	26.607	25.372
24.914	29.323	24.916	27.944	27.555	25.168	27.497	25.136
25.081	24.481	25.218	25.652	25.612	27.776	24.676	25.457
27.636	28.972	24.957	27.561	25.152	24.868	25.521	25.009
25.391	25.28	27.804	27.408	31.038	27.7	25.759	27.817
25.063	26.759	25.453	25.398	24.931	24.783	25.121	27.682
27.365	25.133	27.348	25.397	27.75	24.983	25.193	24.903
25.054	27.06	25.284	25.468	25.013	27.437	27.419	25.033
27.247	27.373	25.029	25.205	30.601	25.029	25.016	24.367
24.67	27.09	27.789	26.243	27.743	25.089	27.214	24.995
25.302	24.837	25.098	25.351	25.101	25.198	24.867	27.362
25.598	29.155	25.182	27.204	24.94	25.089	28.991	24.727
24.849	24.936	25.066	27.404	34.838	27.482	24.856	27.307
25.059	26.948	25.222	24.854	25.099	24.839	25.1	25.09
27.209	24.955	27.475	27.407	25.483	25.037	24.591	25.003
24.786	27.358	25.116	25.272	23.915	25.056	24.662	24.244
27.628	27.492	24.981	29.659	24.89	24.766	25.132	24.736
26.393	25.174	27.38	25.491	27.426	24.809	27.108	24.666
24.816	24.934	24.737	24.631	24.683	24.549	24.593	27.003
27.307	25.16	24.826	27.356	24.736	24.538	24.613	24.471
24.668	24.929	24.9	30.156	24.967	27.069	25.609	27.347
26.322	25.013	24.855	24.6	24.702	24.433	24.788	24.823
26.53	24.771	27.094	27	25.113	27.206	24.821	24.745
26.411	24.651	27.367	24.84	24.83	24.694	24.667	24.51
24.508	25.176	24.904	30.224	24.793	24.611	24.672	24.86
26.386	26.256	24.934	24.264	24.489	24.486	23.937	25.12
24.521	24.468	25.046	24.656	25.218	24.537	24.474	24.619
29.092	27.658	25.005	27.75	24.548	24.96	24.605	24.598
24.712	30.805	25.283	27.467	24.926	27.329	26.162	36.321
29.648	25.084	23.794	23.232	24.428	23.846	26.335	25.88
34.127	25.393	27.513	27.566	25.593	27.032	24.894	24.77
26.973	26.864	25.004	24.586	25.15	24.506	25.351	24.673
27.453	27.132	25.626	24.858	24.495	24.989	25.203	24.967
27.121	25.289	27.282	25.719	27.349	24.588	27.237	24.691
31.02	25.128	25.032	24.879	24.953	24.763	24.821	27.287
27.328	27.358	25.117	27.07	24.769	25.207	24.784	24.608
24.842	24.986	25.122	27.425	24.264	25.205	27.291	27.168
26.568	24.912	25.057	24.734	24.785	24.363	25.296	24.627
33.48	25.403	27.324	27.251	25.684	27.105	24.909	24.963
26.661	25.095	24.739	24.746	24.818	24.796	27.526	24.917
27.04	27.18	25.71	25.093	24.859	25.239	25.078	24.986
26.541	25.484	27.295	26.003	24.903	24.823	27.775	25.7
30.195	25.041	24.98	24.849	24.852	24.682	24.656	27.324
27.423	27.64	24.74	25.063	25.491	24.94	25.144	24.738
25.054	25.257	25.307	29.282	25.009	27.631	25.649	27.612
26.711	25.774	25.348	25.009	24.793	25.318	25.072	25.305
33.317	25.941	27.855	27.489	25.82	27.869	25.314	25.425
27.048	25.957	25.148	25.32	25.471	25.059	25.474	25.436
27.962	27.594	26.553	25.439	25.27	25.511	25.831	25.342
27.062	25.52	27.653	26.268	27.559	25.313	27.895	25.956
26.097	25.211	25.291	25.577	25.354	25.47	24.794	27.261
27.684	27.804	25.419	25.585	25.673	25.232	25.451	24.706
25.292	25.114	25.443	25.634	25.203	25.407	27.728	27.839
26.769	24.998	25.559	25.028	25.053	24.999	30.814	25.377
27.747	25.001	27.82	27.561	26.168	27.833	25.168	25.336
27.02	25.453	25.191	24.789	25.099	27.944	27.908	25.2
27.802	27.675	25.486	25.482	24.522	24.871	25.292	25.125
26.48	25.628	27.436	25.686	24.58	25.156	33.306	26.208
25.021	25.208	25.305	25.53	25.165	24.903	25.031	27.283
27.71	27.726	25.188	27.638	27.506	25.262	25.529	24.504
25.099	25.502	25.594	27.458	24.819	27.289	25.306	27.794
26.45	25.256	25.205	25.24	25.295	24.906	36.13	25.517
27.351	25.364	28.025	27.774	26.008	27.707	25.151	25.403
26.979	25.575	25.204	25.372	25.359	24.646	25.091	25.216
27.555	27.871	26.142	25.36	25.03	25.178	25.538	25.266
26.785	25.706	27.637	26.324	27.432	25.151	33.273	26.209
25.498	24.906	25.093	25.528	24.932	25.28	24.964	27.126
27.639	27.83	25.074	25.095	27.524	25.224	24.983	24.913
25.079	24.803	25.461	27.4	25.081	27.501	25.528	25.158
26.738	26.045	25.267	24.822	25.074	24.817	30.804	25.306
27.376	25.212	27.413	27.603	26.003	27.624	25.198	25.235
27.217	25.42	25.153	26.975	25.428	24.788	24.587	24.903
24.371	25.072	25.039	25.078	24.595	24.855	25.263	25.1
26.876	25.251	28.065	25.777	27.257	24.775	33.156	25.934
24.998	24.854	25.099	24.651	25.497	24.719	24.5	27.541
28.036	27.493	24.923	24.769	27.548	25.274	24.673	24.613
24.834	25.125	24.842	27.64	25.035	27.316	25.649	27.216
26.671	25.444	25.284	24.931	24.8	30.222	25.078	24.698
27.618	24.863	27.15	26.994	25.918	27.265	24.901	24.807
26.822	25.428	25.042	25.017	24.873	25.082	24.905	24.827
28.046	27.37	25.768	25.022	24.648	25.012	25.273	24.995
26.12	25.355	27.735	25.838	27.303	30.88	27.306	25.734
25.108	24.984	25.107	24.893	24.884	25.065	24.69	27.33
27.176	27.552	25.139	25.016	27.346	25.004	24.874	24.589

24.883	25.625	25.185	27.733	24.876	27.26	25.565	27.216
26.673	27.379	24.762	24.948	24.686	29.899	25.009	25.11
27.824	24.852	27.55	27.295	25.867	27.032	24.798	25.014
26.39	25.198	24.8	24.896	25.103	27.509	27.244	24.737
27.184	27.46	26.003	24.897	24.705	24.909	25.065	24.87
26.604	24.869	27.608	25.778	25.136	30.096	27.688	25.761
24.811	24.9	24.447	24.614	24.459	24.885	24.679	27.56
27.542	27.529	27.267	24.69	27.487	25.487	24.986	24.77
25.033	24.763	25.137	27.555	24.535	27.307	25.709	27.581
26.612	27.491	24.872	25.065	24.97	35.223	24.97	24.902
27.534	24.927	24.793	27.863	25.612	27.279	24.937	24.798
26.586	25.316	24.871	24.875	25.202	24.911	24.75	24.808
27.63	27.3	25.765	24.777	24.758	24.947	24.696	25.053
26.636	25.151	25.008	27.56	27.316	30.077	27.821	25.928
24.707	24.961	24.992	24.719	24.608	24.966	24.745	24.92
29.204	27.548	24.94	24.614	27.042	25.499	24.804	24.388
25.125	24.741	25.043	25.1	24.548	27.273	25.803	26.904
26.737	27.327	24.857	30.75	28.727	24.575	24.88	25.001
24.633	24.386	27.499	24.793	27.123	27.214	24.885	24.636
26.804	25.152	24.898	24.63	24.648	24.551	24.647	24.694
24.57	27.439	25.936	27.53	25.037	24.933	25.036	24.845
26.19	27.167	25.195	30.246	24.879	24.271	24.947	24.919
24.967	24.924	24.889	25.239	24.963	25.034	24.701	24.945
29.586	27.48	24.606	24.64	27.095	24.748	25.112	24.789
24.619	25.067	25.144	24.973	24.742	27.563	25.919	27.314
26.381	27.495	24.851	30.743	24.982	24.576	26.895	25.215
24.953	24.949	27.99	27.192	25.521	27.386	24.602	24.846
27.234	25.745	24.848	24.823	24.854	24.8	24.505	24.691
25.009	25.038	25.143	27.41	24.622	24.667	24.932	25.083

max val(#0) = 37.35us
min val(#355) = 23.23us
peak-to-peak = 14.12us
mean +- RMS = 25.95 +- 1.66 us

stack rx latency, us (doesn't include driver latency, net subsystem -> app): packets 1024:

84.912	52.704	62.301	46.36	45.384	58.072	45.384	45.059
45.059	40.342	44.733	58.723	44.896	45.221	56.446	44.571
45.222	58.885	44.896	44.896	56.12	44.408	44.896	56.445
44.083	44.083	45.384	44.57	43.107	56.12	53.029	45.059
45.059	45.384	44.733	45.384	43.92	44.733	44.408	44.245
57.259	44.083	46.035	56.608	44.734	44.896	55.958	45.221
44.733	45.71	40.179	44.246	57.422	44.733	44.734	56.12
44.408	44.083	46.197	44.245	40.829	44.896	54.005	57.259
43.594	44.896	57.258	43.92	44.246	54.493	44.245	46.197
42.294	40.342	41.154	54.005	42.13	41.317	52.216	43.92
44.733	56.608	44.245	44.408	43.92	44.408	44.733	56.771
44.245	44.082	55.957	44.082	43.594	61.813	44.734	43.27
44.245	44.57	45.059	44.408	44.083	42.619	44.571	43.757
57.909	43.107	43.432	55.632	43.595	43.269	56.12	44.408
45.384	48.474	40.83	44.571	57.421	44.733	44.245	52.541
44.408	44.246	43.595	44.408	39.528	53.355	44.408	44.408
44.083	43.92	44.245	44.408	57.584	42.781	43.595	55.957
44.734	40.504	56.283	44.896	44.408	56.933	40.992	43.595
57.259	44.246	43.595	55.632	44.083	44.896	44.408	43.92
44.408	44.245	44.246	56.12	51.891	44.245	55.632	44.408
44.408	56.608	44.083	44.896	44.896	40.016	44.245	56.771
44.245	43.432	56.12	43.758	43.757	43.107	43.269	44.245
45.546	44.733	43.432	43.92	43.757	56.933	44.408	42.944
56.12	43.595	43.92	43.107	51.403	44.733	56.282	45.222
41.643	56.282	44.245	43.595	55.795	43.106	43.106	55.795
43.432	43.269	55.958	44.408	45.221	44.733	43.269	43.92
57.421	43.594	43.595	54.819	43.92	43.432	48.149	39.365
44.408	56.77	44.083	44.57	58.397	44.083	44.246	55.144
44.083	43.92	55.794	44.57	44.246	55.47	44.408	43.432
55.632	43.757	43.92	55.47	43.757	43.595	55.144	43.92
45.221	46.36	43.757	45.059	45.221	44.408	57.584	43.758
44.57	55.469	44.083	52.379	56.771	44.408	44.246	45.222
40.341	44.245	57.421	43.758	44.246	54.818	44.245	44.083
43.595	43.757	44.082	57.422	44.245	44.083	55.632	45.384
44.245	43.594	43.107	44.245	43.432	43.92	43.92	54.331
44.082	43.92	44.734	51.89	43.758	56.77	44.083	44.733
55.957	44.408	43.757	44.734	43.757	43.269	57.584	43.432
44.245	55.144	43.757	43.757	55.957	44.082	42.781	57.421
45.058	43.92	48.149	43.107	41.642	42.293	41.643	40.992
54.005	44.571	44.571	54.331	43.432	44.733	57.746	46.36
40.666	60.024	42.782	41.318	43.432	40.342	41.155	41.968
42.13	40.667	56.933	44.733	44.896	44.57	40.504	45.222
59.048	44.408	43.595	55.957	43.92	45.221	45.222	40.016
44.408	52.704	45.221	57.746	43.269	43.758	56.12	287.757
50.752	108.986	39.853	37.576	57.91	41.643	51.728	47.987
55.794	44.571	58.723	45.221	44.571	56.933	45.059	46.034
58.397	47.824	44.408	57.909	45.058	45.872	45.547	44.246
45.222	58.56	44.245	44.57	55.632	46.197	44.896	45.872
40.829	45.059	57.746	45.058	44.083	55.795	43.92	44.571
53.03	44.571	43.92	57.91	44.571	43.757	56.608	45.384
45.058	55.795	44.408	44.408	44.57	43.92	44.896	40.178
44.57	57.421	44.57	43.92	53.354	44.733	44.896	46.848
44.082	45.059	44.246	44.083	56.771	43.594	44.082	56.933
52.378	43.595	56.283	44.408	44.245	56.608	43.27	45.222
56.12	44.896	43.757	56.12	41.643	45.059	56.933	43.757
44.57	55.307	44.408	43.758	55.469	44.57	44.083	45.058
40.666	43.432	57.746	43.595	45.547	43.595	44.733	44.571
52.053	43.757	44.082	57.259	44.734	44.896	55.795	46.197
44.734	56.608	64.742	41.642	45.546	44.57	44.734	53.192
45.221	43.92	44.57	55.144	43.757	56.283	44.245	44.408
55.795	43.92	44.245	44.082	44.57	43.107	57.421	43.595
53.029	55.47	44.245	44.245	55.794	44.408	43.594	57.259
45.872	45.709	55.957	45.221	43.92	45.059	43.269	44.245
56.608	44.245	43.27	43.594	44.408	44.734	57.259	46.034
40.667	56.283	44.734	43.269	55.794	43.106	43.757	59.536
44.083	44.245	58.235	45.546	45.222	44.083	43.92	45.547
56.608	44.246	42.944	56.608	43.432	43.92	44.083	40.667
43.757	58.072	43.269	45.547	43.106	44.245	43.595	44.896
43.594	44.083	43.758	44.896	57.584	44.082	53.355	56.283
44.734	43.757	56.608	44.082	44.408	55.632	42.944	44.57
57.747	44.734	44.245	52.867	44.083	43.595	56.12	43.595
43.595	56.12	43.594	43.758	55.47	45.059	44.083	45.546
40.504	43.594	56.608	45.547	44.082	55.307	51.891	43.269
44.246	43.92	44.408	57.096	45.222	44.408	55.632	44.896
44.896	55.795	44.082	43.758	55.957	43.92	44.734	52.541
44.245	44.733	44.083	43.595	43.595	55.632	43.595	45.221

55.795	44.082	43.757	44.571	43.106	43.107	60.024	44.571
44.083	55.469	43.92	45.059	55.144	43.92	43.595	57.096
45.547	44.57	56.933	41.48	44.896	44.408	45.221	43.107
56.771	43.757	43.757	43.594	43.432	44.571	57.259	45.872
41.155	55.144	44.082	43.757	55.632	43.269	52.053	56.446
43.432	43.595	57.421	44.734	44.246	44.733	42.131	45.058
55.794	44.083	46.522	55.307	43.595	44.246	44.896	40.016
45.059	56.933	43.757	43.757	55.469	44.083	43.432	45.222
43.27	45.872	44.408	43.92	43.92	56.283	52.541	42.944
56.771	44.082	43.594	56.608	43.595	43.269	42.619	45.059
43.92	44.57	44.733	52.054	42.294	41.968	54.168	40.504
41.806	56.771	44.408	44.57	55.632	44.571	44.408	45.221
43.595	43.757	56.934	44.082	44.408	55.144	53.029	43.757
44.083	42.456	44.896	57.096	44.245	43.757	55.144	50.589
44.571	58.234	66.694	43.92	55.632	44.571	43.594	55.632
44.733	43.757	43.758	43.595	42.456	57.259	43.594	45.221
55.47	43.757	43.595	43.92	44.245	52.541	44.245	43.757
56.608	43.27	43.269	55.958	44.082	43.107	43.595	44.408
44.896	44.734	62.464	43.595	57.584	43.757	43.432	55.469
43.92	43.758	55.957	44.734	42.944	55.795	43.757	45.384
55.47	44.083	43.269	56.283	45.547	51.89	55.306	43.595
44.082	54.168	44.571	43.758	43.92	42.456	42.944	57.096
44.408	43.27	88.654	44.082	44.083	43.757	43.758	43.106
57.909	43.757	44.571	55.795	42.782	44.245	55.144	45.058
43.269	55.957	44.246	43.92	43.757	51.728	43.92	43.432
43.432	42.944	56.446	44.57	43.27	54.981	43.107	44.896
56.933	43.432	44.733	54.33	43.92	43.595	55.632	43.432
44.408	54.656	43.595	43.92	54.981	43.432	43.269	44.733
43.432	43.595	56.283	45.059	43.432	50.752	43.432	43.595
44.246	42.782	43.432	44.408	43.432	43.432	42.944	45.222
56.771	44.083	43.27	54.818	43.757	43.106	43.92	43.269
43.757	56.283	44.245	43.269	54.656	43.432	43.432	57.259
43.757	43.432	55.632	43.432	43.757	58.56	44.083	44.083
55.307	44.083	43.432	55.469	43.27	43.432	54.493	45.384
43.92	44.571	64.416	45.221	55.957	43.92	43.595	55.469
43.757	43.92	55.469	44.083	43.92	55.632	44.083	44.896
56.283	43.595	44.245	55.306	43.758	50.752	56.608	43.106
43.92	54.981	43.758	42.944	44.896	44.083	42.294	45.547
43.758	57.096	46.198	43.27	55.307	47.336	44.246	55.958
43.594	44.408	43.758	44.408	42.619	56.933	43.432	45.384
55.958	43.432	44.896	52.704	54.656	42.782	58.072	43.758
44.082	54.493	43.757	43.27	56.12	43.432	42.944	56.12
45.547	43.595	59.21	43.269	43.269	43.92	44.245	42.781
43.595	43.92	56.446	43.92	42.619	55.957	43.757	45.547
55.47	47.011	41.806	49.451	41.643	40.992	56.12	44.408
43.92	55.307	45.059	44.408	43.432	43.757	43.432	45.384
44.896	55.795	46.685	42.944	55.632	44.57	44.246	54.819
44.083	43.92	44.083	44.246	42.456	56.12	43.432	44.896
55.632	43.757	43.432	52.054	43.432	42.456	50.752	44.246
56.283	43.432	43.432	55.958	43.758	43.432	55.307	45.546
44.734	44.408	46.523	42.293	56.771	43.92	44.571	54.981
44.082	43.269	44.083	42.619	43.432	43.757	43.595	57.421

max val(#351) = 287.76us
min val(#355) = 37.58us
peak-to-peak = 250.18us
mean +- RMS = 47.58 +- 9.66 us

complete rx latency (includes driver latency and stack latency), us (wire -> app): packets 1024:

122.259	79.885	93.133	73.241	73.635	83.275	72.923	70.771
69.827	64.905	69.787	83.634	70.683	72.547	81.303	72.208
71.196	86.27	72.257	70.513	81.628	69.197	69.847	81.331
69.373	69.399	70.454	72.303	68.251	83.539	84.523	72.718
70.215	70.476	71.544	70.438	69.515	70.057	69.507	69.274
84.726	69.197	73.838	84.25	70.445	69.9	80.699	69.915
69.752	71.055	66.867	69.361	85.243	70.529	72.471	80.981
72.182	69.913	71.679	70.032	65.673	69.93	84.183	82.053
68.585	72.451	86.653	69.889	71.701	79.33	71.733	70.044
67.649	64.761	65.942	79.323	67.29	66.344	76.845	68.876
72.187	86.39	69.399	71.603	69.242	69.432	69.73	81.782
69.18	69.245	83.289	71.87	68.215	99.007	70.87	68.207
69.03	71.621	70.153	69.478	69.115	67.407	69.481	68.797
85.12	68.355	70.885	83.078	69.378	68.567	80.874	69.378
70.195	75.933	65.605	69.897	82.272	69.332	69.147	77.435
69.515	71.419	68.936	69.311	64.311	84.122	71.015	69.78
68.997	73.243	69.161	72.352	85.139	67.949	71.092	81.093
69.815	64.985	81.501	70.548	70.02	84.709	65.668	69.052
84.895	73.218	68.552	83.193	69.235	69.764	69.929	68.929
69.799	69.525	72.05	83.528	82.929	71.945	81.391	72.225
69.471	83.367	69.536	70.294	69.827	64.799	69.366	84.453
71.61	68.565	83.468	69.155	71.507	68.09	68.462	69.148
70.6	71.793	68.716	69.388	68.77	84.37	71.827	67.977
83.367	70.968	68.949	68.312	82.004	69.762	81.298	69.589
66.313	83.372	72.034	69.838	83.538	68.195	70.32	80.79
68.734	68.106	81.056	69.759	70.322	69.931	68.136	71.282
83.019	72.749	68.777	82.023	68.86	68.521	77.14	64.092
69.257	81.706	69.149	71.974	93.235	71.565	69.102	82.451
69.142	70.868	81.016	69.424	69.345	80.309	69.508	68.522
82.841	68.712	71.395	82.877	69.24	68.632	79.735	68.923
70.007	73.718	68.873	70.331	69.136	69.464	82.246	68.002
72.198	82.961	69.064	82.038	81.661	69.174	69.378	69.958
66.734	69.419	84.801	69.249	71.672	79.627	71.353	68.749
68.411	68.691	68.819	82.053	68.928	68.632	80.225	72.387
71.552	68.754	67.933	71.601	68.168	68.458	68.533	78.802
68.75	68.849	69.634	82.046	68.725	83.839	69.692	72.08
82.279	69.421	68.612	69.334	68.459	67.702	82.372	68.255
70.775	79.915	70.851	70.757	81.07	71.288	67.602	82.166
71.469	68.571	75.516	67.947	66.472	66.987	66.31	65.502
78.513	69.747	69.475	84.555	68.225	69.344	82.418	71.22
67.052	86.28	67.716	65.582	67.921	64.828	65.092	67.088
66.651	65.135	81.979	69.389	70.114	69.107	64.978	69.841
88.14	72.066	68.6	83.707	68.468	70.181	69.827	64.614
69.12	83.509	70.504	85.213	68.195	71.087	82.282	324.078
80.4	134.07	63.647	60.808	82.338	65.489	78.063	73.867
89.921	69.964	86.236	72.787	70.164	83.965	69.953	70.804
85.37	74.688	69.412	82.495	70.208	70.378	70.898	68.919
72.675	85.692	69.871	69.428	80.127	71.186	70.099	70.839
67.95	70.348	85.028	70.777	71.432	80.383	71.157	69.262
84.05	69.699	68.952	82.789	69.524	68.52	81.429	72.671
72.386	83.153	69.525	71.478	69.339	69.127	69.68	64.786
69.412	82.407	69.692	71.345	77.618	69.938	72.187	74.016
70.65	69.971	69.303	68.817	81.556	67.957	69.378	81.56

85.858	68.998	83.607	71.659	69.929	83.713	68.179	70.185
82.781	69.991	68.496	80.866	66.461	69.855	84.459	68.674
71.61	82.487	70.118	68.851	80.328	69.809	69.161	70.044
67.207	68.916	85.041	69.598	70.45	68.418	72.508	70.271
82.248	68.798	69.062	82.108	69.586	69.578	80.451	73.521
72.157	84.248	89.482	66.705	71.037	69.51	69.878	77.93
70.275	69.177	69.877	84.426	68.766	83.914	69.894	72.02
82.506	69.694	69.593	69.091	69.363	68.425	82.493	68.9
86.346	81.411	72.1	71.734	81.614	72.277	68.908	82.684
72.92	71.666	81.105	70.541	69.391	70.118	68.743	69.681
84.57	71.839	69.823	69.033	69.678	70.245	83.09	71.376
67.729	81.803	72.387	69.537	83.353	68.419	71.652	85.492
70.18	69.456	83.526	71.123	70.576	69.553	68.714	72.808
84.292	72.05	68.363	82.193	69.105	69.152	69.534	65.373
69.049	83.186	68.712	71.181	68.309	69.652	71.323	72.735
70.363	69.081	69.317	69.924	82.637	69.081	84.169	81.66
72.481	68.758	84.428	71.643	70.576	83.465	68.112	69.906
84.767	70.187	69.436	77.656	69.182	71.539	84.028	68.795
71.397	83.795	69.08	69.24	79.992	69.93	69.375	70.671
66.984	69.222	84.044	71.233	68.662	80.463	85.197	69.477
69.267	69.128	69.713	82.626	70.387	69.311	80.663	72.179
72.606	83.521	69.27	71.396	83.463	69.182	70.263	77.045
69.344	70.235	69.677	71.053	68.414	82.921	68.901	73.015
82.245	69.338	68.962	69.811	68.401	68.013	96.154	70.088
71.434	80.833	71.945	72.833	81.152	71.627	68.746	82.499
72.526	70.145	82.137	66.852	70.255	69.054	70.312	68.323
84.326	71.628	69.899	68.954	68.462	69.749	82.797	71.138
67.94	80.85	71.719	70.081	83.064	68.42	85.326	82.655
68.93	68.501	82.514	70.262	69.178	70.013	67.095	72.184
83.433	71.913	71.596	80.402	71.119	69.47	69.879	64.929
70.138	81.736	69.218	71.157	80.55	71.584	68.96	70.38
70.008	71.917	69.675	68.742	68.994	81.1	83.345	68.25
84.147	69.294	71.007	84.211	69.598	70.893	67.817	70.294
71.137	69.99	69.886	79.029	67.722	66.756	78.755	65.407
66.177	81.843	69.447	69.648	80.227	69.426	69.671	70.321
70.471	69.008	84.999	69.859	71.665	79.919	86.185	69.691
69.081	67.31	69.995	81.747	69.742	68.476	79.644	78.13
72.607	85.727	91.617	68.689	83.18	69.845	68.267	80.245
69.567	68.882	68.6	71.235	67.491	84.575	69.243	72.437
82.141	69.201	68.879	68.851	69.045	82.763	69.323	68.455
84.226	68.133	70.419	82.952	70	70.372	68.496	69.215
71.718	70.162	87.506	68.612	82.457	68.839	68.337	80.296
71.966	71.128	81.725	69.756	67.592	80.807	69.03	70.379
81.59	69.438	71.004	82.121	72.85	82.77	82.612	69.329
69.19	79.152	69.678	68.651	68.804	67.521	67.634	84.426
71.584	70.822	113.793	69.098	71.429	68.761	68.632	67.695
82.792	69.382	69.756	83.528	67.658	71.505	80.709	72.274
69.942	83.336	69.008	68.868	68.443	81.627	68.929	68.542
71.256	67.796	83.996	71.865	69.137	82.013	67.905	69.91
83.323	68.63	69.533	79.226	69.023	71.104	82.876	68.169
71.592	82.116	69.598	68.817	79.686	68.341	68.334	69.603
70.036	68.464	83.891	70.837	68.568	80.848	71.12	69.356
69.057	67.682	67.879	69.022	67.891	68.317	67.623	72.782
84.313	71.612	70.537	79.508	71.244	68.593	68.906	68.039
68.79	81.046	69.382	70.824	79.191	70.739	69.141	84.84
70.369	70.923	80.504	68.497	68.727	93.783	69.053	68.985
82.841	69.01	68.225	83.332	68.882	70.711	79.43	70.182
70.506	69.887	89.287	70.096	81.159	68.831	68.345	80.277
71.387	71.22	81.234	68.86	68.678	80.579	68.779	69.949
82.919	68.746	69.253	82.866	71.074	80.829	84.429	69.034
68.627	79.942	68.75	67.663	69.504	69.049	67.039	70.467
72.962	84.644	71.138	67.884	82.349	72.835	69.05	80.346
68.719	69.149	68.801	69.508	67.167	84.206	69.235	72.288
82.695	70.759	69.753	83.454	83.383	67.357	82.952	68.759
68.715	78.879	71.256	68.063	83.243	70.646	67.829	80.756
72.351	68.747	84.108	67.899	67.917	68.471	68.892	67.475
68.165	71.359	82.382	71.45	67.656	80.89	68.793	70.392
81.66	74.178	67.001	79.697	66.522	65.263	81.067	69.327
68.887	80.231	69.948	69.647	68.395	68.791	68.133	70.329
74.482	83.275	71.291	67.584	82.727	69.318	69.358	79.608
68.702	68.987	69.227	69.219	67.198	83.683	69.351	72.21
82.013	71.252	68.283	82.797	68.414	67.032	77.647	69.461
81.236	68.381	71.422	83.15	69.279	70.818	79.909	70.392
71.968	70.153	71.371	67.116	81.625	68.72	69.076	79.672
69.091	68.307	69.226	70.029	68.054	68.424	68.527	82.504

max val(#351) = 324.08us
 min val(#355) = 60.81us
 peak-to-peak = 263.27us
 mean +- RMS = 73.53 +- 10.33 us

packet size: 512
 number of packets: 1024
 RATE = 524.28kbps, PPS = 128.0