Contents

1. Introduction
2. What is the Community Lab
3. Where are we heading
Introductions

• Testing DPDK
• Stability
• Performance
• Maintainability
Introductions

- What was sent to Patchwork before the DPDK Community Lab?

Checks

<table>
<thead>
<tr>
<th>Context</th>
<th>Check</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ci/Intel-compilation</td>
<td>success</td>
<td>Compilation OK</td>
</tr>
<tr>
<td>ci/checkpatch</td>
<td>warning</td>
<td>coding style issues</td>
</tr>
</tbody>
</table>
Introductions

• What is now being sent to Patchwork?

Checks

<table>
<thead>
<tr>
<th>Context</th>
<th>Check</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ci/intel-Performance-Testing</td>
<td>success</td>
<td>Performance Testing PASS</td>
</tr>
<tr>
<td>ci/mellanox-Performance-Testing</td>
<td>success</td>
<td>Performance Testing PASS</td>
</tr>
<tr>
<td>ci/Intel-compilation</td>
<td>success</td>
<td>Compilation OK</td>
</tr>
<tr>
<td>ci/checkpatch</td>
<td>warning</td>
<td>coding style issues</td>
</tr>
</tbody>
</table>
DPDK Community Lab

http://core.dpdk.org/lab/
DPDK Community Lab

- Intel Ethernet Converged Network Adapter 82599ES 10 Gbps
- Intel Ethernet Converged Network Adapter XL710-QDA2 40 Gbps
- Mellanox ConnectX-5 100 Gbps
- Mellanox ConnectX-4 Lx 25 Gbps
- Mellanox ConnectX-4 Lx 40 Gbps
- NXP in the process of setting up with the Lab
DPDK Community Lab

https://lab.dpdk.org

Below is the current CI performance testing status for the patchsets currently active in the DPDK Patchwork instance. Possible statuses are Pending, Waiting, Apply Error, Build Error, Incomplete, Possible Regression, and Pass. NIC vendors may log in to view detailed performance results for their hardware.

<table>
<thead>
<tr>
<th>Status</th>
<th>Patch</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waiting</td>
<td>48341</td>
<td>Thomas Monjalon ftx.dpdk.org URLs</td>
</tr>
<tr>
<td>Pass</td>
<td>48340</td>
<td>Thomas Monjalon version: 18.11.0</td>
</tr>
<tr>
<td>Pass</td>
<td>48339</td>
<td>Thomas Monjalon fix indentation in symbol maps</td>
</tr>
<tr>
<td>Pass</td>
<td>48337</td>
<td>Monnara, John [v1] doc: update release notes for 18.11</td>
</tr>
<tr>
<td>Pass</td>
<td>48336</td>
<td>Rosan Xu app/test-pmd: expand test-pmd queue threshold size of RED parameters</td>
</tr>
</tbody>
</table>

Patch Set 48340

Submitter: Thomas Monjalon
Baseline: master (bf31f1632d3f39b0a1e855b1e2503d4f118e1e6e)
Date: Nov 28, 2018, 9:18 p.m.
Submitted: Nov 28, 2018, 9:18 p.m.

Test Results: Pass

Test summary: 1 1 0

Intel Corporation Ethernet Converged Network Adapter 82599ES 10000 Mbps

Configuration Information
- Kernel: Linux 4.13.3-rc3-gentoo
- Compiler: gcc-gcc (Linaro 7.2.0-Aarch64) 7.2.0
- Target: x86_64-native-linuxapp-gcc

Detailed performance results
- Test run at: Nov 28, 2018, 6:17 p.m.
- Fail/Total: 0/2

Test Case: nic_single_core_perf

<table>
<thead>
<tr>
<th>Result</th>
<th>frame_size (bytes)</th>
<th>indir (descriptors)</th>
<th>Throughput Difference (Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PASS</td>
<td>64</td>
<td>128</td>
<td>0.06500</td>
</tr>
<tr>
<td>PASS</td>
<td>64</td>
<td>512</td>
<td>0.06700</td>
</tr>
<tr>
<td>PASS</td>
<td>64</td>
<td>2048</td>
<td>-0.07700</td>
</tr>
</tbody>
</table>
DPDK Community Lab Future

- More performance testing and unit testing
- Running tests on release versions
- Getting additional hardware members involved
- Integration with other projects
Getting Involved

Dashboard: https://lab.dpdk.org/

Issue reporting: https://bugs.dpdk.org/

CI Mailing List: http://mails.dpdk.org/listinfo/ci

Submitting Equipment: https://www.iol.unh.edu/testing/hpc/dpdk

Contact: dpdklab@iol.unh.edu