TO LOGO, OR NOT TO LOGO?

Birds of a Feather Discussion
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DO PEOPLE THINK A LOGO PROGRAM HAS VALUE?
Let’s find out on a demographic basis…

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labs customers?</td>
<td>- Large installations?</td>
</tr>
<tr>
<td>Commercial Customers?</td>
<td>- Medium to large installations, possible grown a little at a time?</td>
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<tr>
<td>Systems Vendors?</td>
<td>- Dell, HPE, Penguin Systems, IBM, Huawei, etc.</td>
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<td>HCA Vendors?</td>
<td>- Chelsio, Cavium, Broadcom, Mellanox, Intel, etc.</td>
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<tr>
<td>Switch Vendors?</td>
<td>- Mellanox, Broadcom, whitebox</td>
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THE OLD LOGO PROGRAM
For historical reference

Was done on a fixed timeline (twice a year)

Only used one set of Software (OFED)

Didn’t really test different systems (for instance, they didn’t test a specific card in both Intel and AMD systems, or across different classes of Intel or AMD systems)

Issued a logo, but no details about the specific tests that were passed to get the logo

It was fine for the time, but as the landscape changed, it didn’t change with it, and eventually became obsolete
First, create a library of smaller, unit level tests

- Tests should be small, specific, and quick to run
- Tests are not inherently related to the logo program, but are the same tests we would like to use for the continuous integration testing upstream
- We are relying on both initial seed tests from Red Hat as well as an upstream ecosystem to create a high quality body of tests

Second, the FSDP WG would be responsible for defining specific certifications to include on a logo

- E.g. there would not be a “RoCE adapter logo”, but a modular logo that applies to a RoCE HCA where different specific features could be tested for and validated
THE PROPOSED LOGO PROGRAM
Utilizing the new FSDP cluster and test infrastructure

Desired RoCE Logo

Minimum RoCE requirements
- RoCE v1 & v2 connectivity between your own and other vendor’s hardware
- IPv4 & IPv6 connectivity
- At least one form of functional flow control

Optional iSER logo requirements
- Ability to login/access both iSER targets on other computers as well as dedicated iSER appliance devices
- iSER functionality at X number of simultaneous targets in use
- iSER error handling passes various failure scenarios

Optional MPI logo requirement
- Functional MPI test over specific hardware utilizing required MPI features (doesn’t test scale out)
THE PROPOSED LOGO PROGRAM

- **Two possible types of Logos: Vendor Logo & Distro Logo**
  - Logo tests are run ‘on-demand’, driven by OFA’s test plan as defined by the FSDP Working Group
  - Test plan is executed selectively
  - Run against a defined hardware configuration
  - Run against a specific distribution(s)

Logo is awarded to Vendor or Distro
Logo Certification includes:
- Test environment
- list of tests executed
- pass/fail results

“Hardware family X is certified to work with RHEL x.x, SLES y.y” or
“Our distribution supports the following hardware ...”
The most important takeaway: the proposed new logo program is not just a copyrighted logo image you put on a package box. It’s a link to a certification entry in the OFA’s database of certified hardware. That link then provides you with all of the relevant details of that logo:

- Software used for the logo
- Hardware used for the logo
- Test results of all mandatory tests for this logo
- A list of all the optional logo certifications the hardware passed

There would also be a page for logo certifications listing what each of the mandatory and optional tests for each logo actually tests and what a passing result requires.

The combination of these two things would allow a person looking at the logo certification to judge the hardware’s usefulness for their specific task or use case.
THANK YOU