



OFED for Linux Status and Plans

Tziporet Koren
Robert J. Woodruff

#OFADevWorkshop

Agenda

- General Goals and Charter
- EWG – OFED for Linux status update
 - OFED 3.5
- OFED Plans
- Open Discussion Items
- How to contribute

EWG General Goals and Charter



- Provide enterprise ready distributions of the Open Fabrics code for Linux
 - Includes providing backports to support several Linux kernel versions and Linux distributions
 - Includes comprehensive testing, validation, and hardening of the code
 - Includes software packaging, release notes, and software installers to allow for easy installation
 - Includes processes for bug tracking and problem resolution
- Provide a platform for experimental OFA technologies

EWG – OFED Linux Status

- Moved to the new process:
 - All code is based on upstream: kernel and user space
 - Only fixes accepted upstream are included
 - Using compat-rdma as a method for backports
 - MPI not included – but used for common testing
- Companies can provide experimental features based on OFED
 - E.g. ofed-3.5-MIC

OFED 3.5 GA Release

- Release date: Feb 14, 2013
- Kernel base: 3.5
- Main changes from OFED 1.5.4.1:
 - All kernel code is upstream
 - All libraries are taken directly from maintainers without changes
 - Backports done using compat-rdma module
 - Remove MPI packages from OFED
 - Removed SDP kernel module and libsdp, sdpnetstat
 - XRC is supported in kernel only
- OSes support:
 - RedHat EL6.2 2.6.32-220.el6
 - RedHat EL6.3 2.6.32-279.el6
 - SLES11 SP2 3.0.13-0.27-default
 - kernel.org 3.5
- MPI packages testing:
 - MVAPICH2 - 1.8
 - Intel MPI - 4.1
 - Open MPI - 1.6/1.6.1

OFED Process Update

- Integration and build ownership:
 - New owner - Rupert Dance and Soft-Forge
 - Now at transition phase
 - Many thanks to Vladimir Sokolovsky from Mellanox who performed this work till now
- Decided to have one major release each year
 - Use a stable (even) kernel base
 - Dot releases to add Distros support as needed

OFED Plans

- OFED 3.5.1 May 2013
 - Add RHEL 6.4 support

- Next Major release - start as fall 2013 (Sep)
 - Use stable kernel available at this time – 3.10 or 12
 - GA planed for Jan 2014
 - Emulex plan to add their driver support

Open Discussion Items

- Ubuntu
 - Should we add support?
 - Can be a major effort due to the different packaging
- Simplify the install script
 - Any volunteer?
- Move to compat library open source
 - Compat-rdma to be a subsystem under compat project
 - Rupert will examine this after integration ownership is done
 - Do we really wish to change again?
- How to get more people to help ?
 - Should OFA hire some people ?
 - Especially for the kernel code

If You Want to Help....



- Developing code:
 - Including back-ports in Linux
 - Reviewing code submitted to Linux kernel/libs
- Doing QA and testing
- Performance tuning
- Sending patches and comments to the mailing lists:
 - OFED for Linux: ewg@lists.openfabrics.org
 - General Linux development: linux-rdma@vger.kernel.org
 - Maintainers and git trees:
<http://www.openfabrics.org/downloads/MAINTAINERS>
- Participate in EWG meetings
- Opening bugs in Bugzilla (<https://bugs.openfabrics.org/>)
 - When opening a new bug you can choose [OpenFabrics Linux](#)



Thank You



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ALLIANCE