Intel® Solutions for Lustre*
Software Update

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Intel® Scalable System Framework
A Configurable Design Path for HPC & Big Data Workloads

Small Clusters Through Supercomputers
Compute and Data-Centric Computing
Standards-Based Programmability
On-Premise and Cloud-Based

Reliability & Resiliency
Power Efficiency
Price / Performance

Intel® Xeon® Processors
Intel® Xeon Phi™ Processors
Intel® Xeon Phi™ Coprocessors
Intel® Solutions for Lustre®
Intel® SSDs
Intel® Omni-Path Architecture
Intel® True Scale Fabric
Intel® Ethernet
HPC System Software Stack
Intel® Software Tools
Intel® Cluster Ready Program
Intel Supported SDVis

Compute Memory/Storage
Fabric Software
Intel Silicon Photonics

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Intel® Parallel Computing Centers
Funding the Growth of Lustre*

Adaptive optimized ZFS data compression
Client-side data compression

TSM HSM copytool for Lustre

Automated client-side load balancing

Global adaptive Network Request Scheduler

Spark and Hadoop on Lustre

Intel® Solutions for Lustre® Software
Announcing: Partner Program and Lustre® Training

- Launched March 2015
- New Partner Program
- Training authorization program
  - Enabling partners
  - Available to End Users or anyone who wants to learn Lustre

intel.com/lustre-training
# Intel® Solutions for Lustre® Roadmap

## Enterprise
- **HPC, commercial technical computing, and analytics**
  - **Enterprise Edition 2.4.1.2**
    - Lustre 2.5.x
      - RHEL 6.7 server/client
      - RHEL 7.2 client
      - SLES 11 SP4 server/client
      - Robinhood 2.5.5
      - OpenZFS 0.6.4.2
  - **Enterprise Edition 3.0**
    - Lustre 2.7.x
      - Client metadata RPC scaling
      - OpenZFS performance
      - OpenZFS Snapshots
      - SELinux on client + Kerberos
      - Intel Omni-Path (OPA) support
      - RHEL 7 server/client, SLES 12 SP1 client
      - OpenZFS 0.6.5.3
  - **Enterprise Edition 3.1**
    - Lustre 2.7.x
      - Expanded OpenZFS support in IML
      - IML graphical UI enhancements

## Cloud
- **HPC, commercial technical computing and analytics delivered on cloud services**
  - **Cloud Edition 1.2.1**
    - Lustre 2.8.x
      - Client Support: EL6 & EL7
      - Support for new regions
  - **Cloud Edition 1.3**
    - Lustre 2.8.x
      - RHEL 7 Server Support
      - Maintenance and performance updates
  - **Cloud Edition 1.3.1**
    - Lustre 2.8.x
      - Support for new regions
      - Maintenance and performance updates
  - **Cloud Edition 1.4**
    - Lustre 2.9.x
      - Updated Lustre release
      - and base OS builds
      - New instance support
  - **Cloud Edition 1.4.1**
    - Lustre <TBA>
      - Support for new regions
      - Maintenance and performance updates

## Foundation
- **Community Lustre software coupled with Intel support**
  - **Foundation Edition 2.8**
    - Lustre 2.8.x
      - Metadata directory striping (DNE 2)
      - Client metadata RPC scaling
      - LFSCK performance tuning
      - SELinux on client + Kerberos updates
  - **Foundation Edition 2.9**
    - Lustre 2.9.x
      - UID/GID Mapping
      - Shared key network authentication & encryption
      - <TBA>

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Latest Releases
Continuing Performance Focus. Adding Enterprise Features.

- Intel® Enterprise Edition Lustre 3.0
  - Available April 2016

- Community Edition 2.8

- Cloud Edition 2.0

- Partner Updates
  - Seagate
  - Microsoft
  - HPE
  - Supermicro
Support for Open Source Software
+10,000 software developers at over 35 sites worldwide