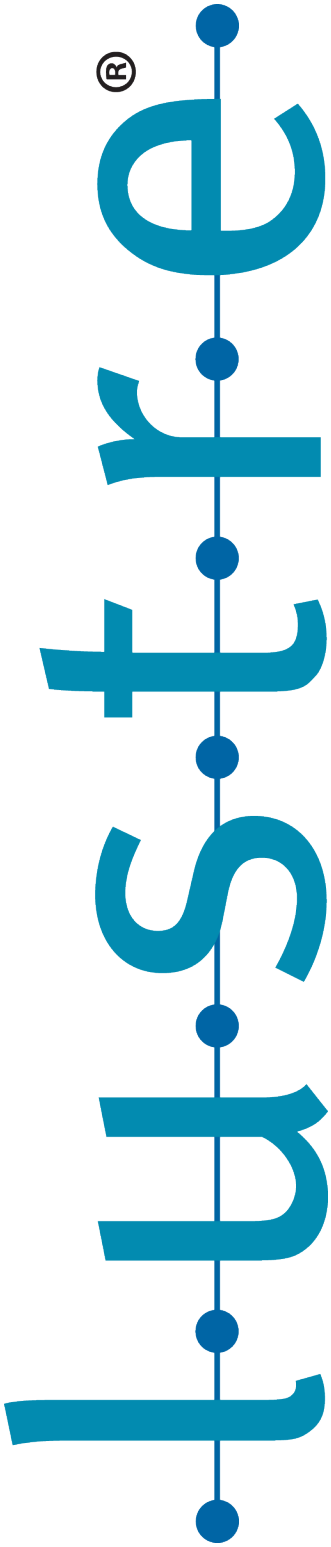
WHY LUSTRE?



High-performance

Deploy and enjoy from few MB/s to a few TB/s parallel file I/O or hundreds of thousands per second parallel metadata I/O.

Has been the filesystem of choice for the majority of the top 10 supercomputers for more than a decade

Proven in Mission-Critical Environments

Running in the most demanding environments - autonomous driving, genomics, oil & gas, etc.

Initially developed under the United States Department of Energy's Accelerated Strategic Computing Initiative Path Forward project.

Scalability

Capable of scaling as your requirements grow - hundreds of petabytes, billions of files, and tens of thousands of clients.

Commercial Lustre offerings available for all the major cloud providers, providing options for scaling beyond the traditional on-premises model.

Flexibility

Supports a wide range of architectures, clients, networks. From InfiniBand on the network to ARM on the CPU, Lustre has a history of embracing and incorporating new technologies.

Due to its modular design, it has the ability to leverage ZFS for JBOD installations, as well as hardware RAID scenarios.

Community-driven

Available under GPL v2 open source license and developed by a worldwide community under an open development model.

Worldwide organizations like OpenSFS and EOFS help to interface between Lustre users and vendors.

http://opensfs.org/
http://wiki.opensfs.org/
http://wiki.lustre.org/