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OpenZFS on Linux

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OpenZFS is a storage platform that encompasses the functionality of a traditional filesystem and volume manager. It's highly scalable, provides robust data protection, supports advanced features like snapshots and clones, and is easy to administer. These features make it an appealing choice for HPC sites like LLNL which uses it for all production Lustre filesystems.

This contribution will discuss the state of OpenZFS on Linux including its goals and challenges. It will review the core features which make OpenZFS an excellent choice for managing large amounts of storage. Several new features will be discussed along our current plans for future improvements. I'll report on LLNL's use of OpenZFS on Linux over the last year to manage 100PB of production storage, including our experiences regarding stability, performance, and administration.

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