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LStore: Logistical Storage

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LStore was developed to satisfy the ever-growing need for cost-effective, fault-tolerant, distributed storage. By using erasure coding for fault-tolerance, LStore has an order of magnitude lower probability of data loss than traditional 3-replica storage while incurring 1/2 the storage overhead. LStore was integrated with the Data Logistics Toolkit (DLT) to introduce LStore to a wider audience. We describe our experiences with the CMS experiment's multi-petabyte installation capable of reaching sustained transfer rates of hundreds of gigabits per second.

Tertiary Keyword (Optional)

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Primary Keyword (Mandatory)

Storage systems

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