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## Design and Performance Analysis of High Availability iSCSI Storage Area Network\*

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### ABSTRACT

iSCSI is emerging as an end-to-end protocol for transporting storage I/O block data over IP networks. By exploiting the ubiquitous Internet infrastructure, iSCSI greatly facilitates remote storage, remote backup, data mirroring and iSCSI-based SAN. This paper describes a design and implementation of high availability iSCSI SAN to improve performance by using distributed iSCSI RAID and improve availability by using failover storage servers, then this paper discusses Markov model and I/O performance analysis of this system.

**Keywords** iSCSI, Distributed iSCSI RAID, iSCSI SAN, Availability Model, Performance Analysis

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\* This paper is supported by national natural science foundation of china (No. 60373088)