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Abstract

With the large amount of data which is produced by scientific experiments and simulations, the data replication has become an important issue in data grid. In order to shorten the file accessing time, multiple copies of file and stores can be created in the appropriate location. In this paper, we present a dynamical maintenance service of replication to maintain the data in grid environments. Based on the Bayesian Networks (BN), the optimization strategy was proposed in this study; named Implicit Dynamic Maintenance Service with Bayesian Network (IDMSBN).

Keyword: IDMSBN