

Replication Server: An Answer to Distributed Data Base

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abstract

In distributed database areas, data are fragmented and replicated among several local sites to increase the availability of data. The more convenient for the users with accessing the data locally, the heavier the system's burden upholding mutual consistency of those data distributed.

The Replication Server (with differential update method) is, however, a powerful alternative for such a dilemma of distributed data base systems. It reflects net data changes only in huge base tables, reducing communication cost enormously and relieving the intricated concurrency control, which helps the distributed database system realistic.

KEYWORDS: TWO PHASE LOCKING, DIFFERENTIAL UPDATE, VIEW MATERIALIZATION, SCREEN TEST, GLOBAL UPDATE FILE