Abstract

Distributed database is a technique in which copy of a database is replicated over the network. A distributed database appears to a client as a single database however in all actuality it is an arrangement of databases distributed on numerous computers or servers. Replication of data in a distributed database system is for enhancing data availability and making data more fault tolerant. Formal methods are used for insight knowledge and refinement of technique to be used and formal methods also helps in understanding how to accomplish those objectives. In our model a coordinator site finds a site with a largest replica number and then broadcast its updated replica to all other sites in a distributed environment.

References

3. Jean-Raymond Abrial and Louis Mussat. Introducing dynamic constraints in B In Bert
Formal Verification of Distributed Transaction Execution in Replicated Database System using Event-B

[BER 98], pages 83–128.
5. Jean-Raymond Abrial. B #: Toward a synthesis between Z and B In Bert et al. [BER 03], pages 168–177

Index Terms

Computer Science
Databases

Keywords

Keywords: Formal Methods, Formal Specification, Event-B, Coordinate site, Participant site, Replication.