

Abstract

The rapid development of information systems, make the supporting information providers such as database and system environment must counterbalance. It needs a system environment that can accommodate a very huge information and users. Grid provides everything needed to counterbalance this development. Each user in obtaining the information needed to perform transactions on the database. The huge users force the database to be able to fulfill every transaction accurately. In performing a transaction is likely there are users who request access to information to the database in simultaneously (concurrent). Powerfull database is capable to handling the huge database access request, but with a high level of accuracy and success in every transaction. Oracle 10g use 2-PL in default locking method. This method allows serializable transaction. The locked data is required to ensure that information is accurate for every user. This method also give consistency to data.

This final task discuss about the performance of 2-PL by calculating response time and throughput. Case study used is banking transaction.

Output from this final task is analysis of 2-PL response time and throughput

Keywords: grid database, *concurrency, locking, performance, response time, troughput.*