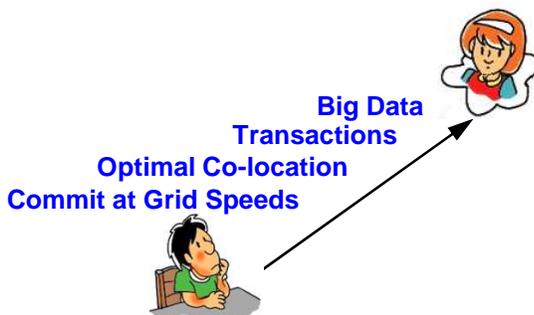


If you're a Java developer, Cloud Computing opens up the possibility of large-scale applications, with as much memory and processing power as you want. Now you can put your whole database in memory for better performance!

But how does that translate into business applications development, where rock-solid persistence is essential, so a committed customer order is guaranteed to be saved and fulfilled?

NT/e is developing CloudTran to make it easy for Java developers to write large applications running at grid speeds that are as reliable as today's databases. The solution leverages the **GigaSpaces XAP** grid/cloud platform for its performance, scalability and reliability. If you are interested in CloudTran - as user or developer - do let us know what you need.

Cloud Computing Ideal Persistence



The first job of CloudTran is Object-Persistence mapping, without having to learn a new set of tools for persistence. The goal is to commit at grid speeds - small milliseconds - rather than disk speeds.

Then to take advantage of the grid, we would like to have arbitrarily scalable applications, both in data and CPU power, and have CloudTran handle the distributed transactions.

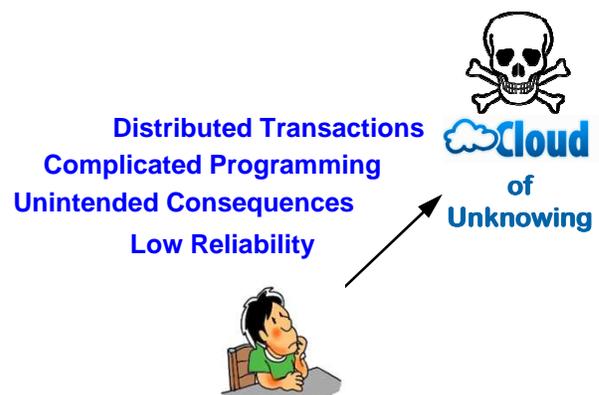
To leverage space-based architecture and GigaSpaces XAP, we want to easily distribute the data for optimal colocation and speed for the particular application.

Mission Impossible...

By reputation, large-scale distributed transactions are slow and unreliable.

Other solutions proposed to get round this are both complicated and stultifying, needing constant manual support to compensate for the low reliability.

Designing for optimal performance and colocation further complicates programming.





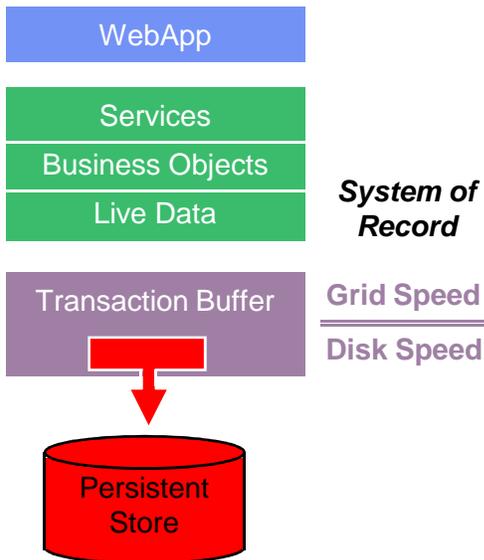
CloudTran



- As safe as a database, as fast as the Cloud
- Distributed Transactions
- Optimal Placement - Modelled
- Reduced Unintended Consequences
- Simple for Application programmers

CloudTran Features

CloudTran gives you a cloud-scale platform that is simple-to-use, reliable and commits transactions at grid speeds. The persistence strategy is pluggable - JDBC or your choice of Cloud Storage.



How?

CloudTran colocates services, business objects and live data in a partitioned grid.

Distributed persistence transactions are written to a parallel "Transaction Buffer" grid at grid speeds, which gives CloudTran its high performance.

The distributed transaction leverages in-memory backups across multiple machines to securely buffer in-flight transactions.

Persistence plug-ins, such as JDBC for RDBMSs, then provide the route to permanent storage.

Benefits

CloudTran provides the best combination of reliability and speed.

If you've got an in-memory data grid, CloudTran can provide reliable persistence at grid speeds.

If the database is holding you up, moving to GigaSpaces and CloudTran can boost performance without sacrificing reliability.

