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## **Abstract**

This paper analyzes the correctness of Multiversion Concurrency Control(MVCC) algorithms that are commonly deployed in Real-time Databases. Database systems for real-time applications must satisfy timing constraints associated with transactions. Typically, a timing constraint is expressed in the form of a deadline and is represented as a priority to be used by schedulers. MVCC Algorithms used here makes use of a specialized version of Serialization Graph, Called MultiVersion Serialization Graph(MVSG) to resolve data conflicts to maintain the serialization order among conflicting transactions. Using MVSG,MVCC algorithms can determine which lower priority transactions should be aborted to avoid deadlocks.

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## Index Terms

Computer Science

Databases

## Key words

Transaction

Multiversion

Schedule

Serialisable