

Title (en)
DATABASE MANAGEMENT SYSTEM AND METHOD FOR CONDITIONAL CONFLICT SERIALIZABILITY OF TRANSACTIONS AND FOR COMBINING META-DATA OF VARYING DEGREES OF RELIABILITY

Title (de)
DATENBANKVERWALTUNGSSYSTEM UND VERFAHREN ZUR KONFLIKTSERIALISIERUNG VON TRANSAKTIONEN UNTER BEDINGUNGEN UND UM META-DATEN VON VERSCHIEDENEN ZUVERLÄSSIGKEITSTUFEN ZU KOMBINIEREN

Title (fr)
SYSTEME ET PROCEDE DE GESTION DE BASE DE DONNEES SERVANT A SERIALISER L'INCOMPATIBILITE CONDITIONNELLE DE TRANSACTIONS ET A COMBINER DES METADONNEES PRESENTANT DIFFERENTS DEGRES DE FIABILITE

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Application
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Priority

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Abstract (en)
[origin: WO9938095A1] A database management system (DBMS) is modified to provide improved concurrent usage of database objects, particularly when the system is executing long lived transactions. A subset of the transactions access database objects using parameterized read and parameterized write access modes. Each transaction using a parameterized write mode of access for a database object specifies a write access mode, and a write access mode parameter, where the parameter indicates a data reliability classification. Each transaction using a parameterized read mode of access for a database object specifies a read access mode, and a read access mode parameter, where the parameter indicates one or more reliability classifications that are acceptable to the transaction. Whenever a transaction requests access to a specified database object, the DBMS generates a corresponding lock request for the object. If the lock request is parameterized lock request, a corresponding parameterized lock request is generated. A lock manager processes each lock request by checking to see if any outstanding, previously granted lock is a unconditionally conflicting or conditionally conflicting with the requested lock. A query executor queries requesting access to information stored in the database (or other data processing tasks). The query executor includes annotated nullable logic for evaluating expressions containing at least one annotated value as an operand. The annotated nullable logic includes logic for combining annotated values, for comparing annotated values so as to generate annotated truth values, and for combining annotated truth values in accordance with a predefined set of rules.

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