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~~Explained Optimistic~~

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What is  
MULTIVERSION  
CONCURRENCY  
CONTROL? What does  
MULTIVERSION  
CONCURRENCY  
CONTROL mean?  
What is OPTIMISTIC  
CONCURRENCY  
CONTROL? What does  
OPTIMISTIC  
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CONTROL mean?



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Locking(2PL)

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Control And Recovery

In

Concurrency control typically also ensures the Recoverability property of schedules for maintaining correctness in cases of aborted transactions (which can always happen for many reasons).

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Recoverability (from abort) means that no committed transaction in a schedule has read data written by an aborted transaction. Such data disappear from the database (upon the abort) and are parts of an incorrect database state.

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Concurrency control -

Wikipedia

Overview of

Database Control

and Recovery in

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Databases and

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Databases. For

concurrency control

and recovery

purposes, numerous

problems arise in a...

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Control And  
communication links.  
Recovery in  
Database  
Systems  
. The system must be  
able to deal with the  
failure of one or more  
of the ...

Overview of  
Concurrency Control  
and Recovery in ...  
Concurrency control  
and recovery have  
become increasingly  
important as



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Concurrency

businesses rely more and more heavily on their on-line data processing activities.

For high performance, the system must maximize concurrency by multiprogramming transactions.

Concurrency control and recovery in

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Control And  
database systems

(Book ...

Recovery In  
Interaction with

Database  
Concurrency Control.

Systems  
The recovery scheme

depends greatly on

the concurrency-

control scheme that

is used. To roll back a

failed transaction, we

must undo the

updates performed

by the transaction.

Suppose that a

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## Concurrency

transaction T0 has to be rolled back, and a data item Q that was updated by T0 has to be restored to its old value. Using the log-based schemes for recovery, we restore the value by using the undo information in a log record.

Concurrency

Control:Recovery

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Control And

Transactions ...

Recovery In  
Database  
Systems

Concurrency control  
and recovery

mechanisms are

mainly concerned

with the database

access commands in

a transaction. 8 The

above two

transactions

submitted by any two

different users may

be exe- cuted

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Concurrency

Control And may access and update the same database items (e.g. X).

Chapter 13.

Concurrency Control

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And Recovery In  
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Multiversion  
Database Structures.

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In ACM 2nd PhD  
workshop on  
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management, 2008,  
Napa  
Valley, California, USA  
(pp. 73-80). ACM.

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Multiversion  
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is the procedure in DBMS for managing simultaneous operations without conflicting with each another. Concurrent access is quite easy if all users are just reading data. There is no way they can interfere with one another.

DBMS Concurrency

*Page 23/59*

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## Concurrency

Control: Two Phase,  
Timestamp, Lock-  
Based ...

Database  
Concurrency Control.

Systems  
In the concurrency control, the multiple transactions can be executed simultaneously. It may affect the transaction result. It is highly important to maintain the order of execution of those



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control. And

Problems of  
Recovery In  
Database  
Systems  
concurrency control.

Several problems can occur when concurrent transactions are executed in an uncontrolled manner.

DBMS Concurrency Control - javatpoint  
Systems that solve the concurrency

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Concurrency

Control and recovery problems allow their users to assume that each of their programs executes atomically - as if no other programs were executing concurrently - and reliably - as if there were no failures. This abstraction of an atomic and reliable execution of a

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Concurrency

Control And

RENCY CONTROL

AND RECOVERY IN

DATABASE SYSTEMS

Concurrency control

is a database

management

systems (DBMS)

concept that is used

to address occur with

a multi-user system.

Concurrency control,

when applied to a

DBMS, is meant to

# Read PDF Concurrency

coordinate And  
simultaneous  
transactions while  
preserving data  
integrity. T

The  
Concurrency is about  
to control the multi-  
user access of  
Database

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Control and Recovery in  
Database Systems

Philip A. Bernstein,  
Vassos Hadzilacos,  
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Phil Bernstein at  
Microsoft Research  
Concurrency Control

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Imagine that a company database (DB) Each department in the company has some programs that interact with the DB Each task performed by each program involves multiple queries The tasks from different departments may run

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at the same time

Desiderata The DB

should correctly

handle the tasks even

when many of them

are running

simultaneously

(concurrency control

...

8 Transactions and

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Control.pptx -

Lecture 8 ...

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David J. DeWitt:

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Mechanisms: Design  
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Evaluation. ACM

Trans. Database Syst.

10(4): 529-564(1985)

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McKendry 83] James  
E. Allchin, Martin S.

McKendry:  
Synchronization and  
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76a]

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and Recovery in  
Database Systems

In this chapter, we  
will study the various

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approaches for concurrency control. Locking Based Concurrency Control Protocols. Locking-based concurrency control protocols use the concept of locking data items. A lock is a variable associated with a data item that determines whether read/write operations

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can be performed on  
that data item ...

Recovery In

Database -  
Distributed DBMS -

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Concurrency -

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Pessimistic

concurrency control

Two-phase locking

(2PL) and Strict 2PL

Timestamp ordering

(TSO) and Strict TSO

Optimistic

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Concurrency control

(OCC) definition

validator operation

–phases 1 and 2

Recovery – see 11

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concurrency control

and recovery 2

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Transaction  
Recovery In  
Database  
Systems

processing is  
fundamental for  
many modern  
applications. These  
applications require  
the backend  
transaction  
processing engines to  
be available at all  
times as well as  
provide a massive  
horizontal scale for

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Control and Recovery in Database Systems

intensive transaction requests. Concurrency Control and Recovery features recent progress in research in online transaction processing. The book also showcases the authors' research on a highly scalable OLTP system. Its contents include the designs of an efficient multiple

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Concurrency

Control And

version storage

engine, a scalable

range optimistic

concurrency control,

high-performance

Paxos-based log

replication, global

snapshot isolation,

and fast follower

recovery. This book is

written for

professionals,

researchers, and

graduate students

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Specialising in  
database systems  
and its related fields.

Database

This book describes  
the theory,  
algorithms, and  
practical  
implementation  
techniques behind  
transaction  
processing in  
information  
technology systems.

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Abstract: "This paper addresses the problem of a transaction reading and writing data at multiple classification levels in a Multilevel Secure (MLS) database system. We refer to such transactions as multilevel update transactions and

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show that no secure scheduler can ensure atomicity of

multilevel update

transactions in the

presence of

transaction aborts.

We then determine

the covert channel

capacity of various

scheduling schemes.

There are essentially

two ways of

scheduling multilevel

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## Concurrency

update transactions.

The first, which ensures strong atomicity, involves delaying the commit step of a low-level subtransaction until the fates of all siblings are known.

The second scheme, which ensures only semantic atomicity, allows each subtransaction to

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Concurrency

commit or abort

independently and  
compensates for  
committed

transactions when  
necessary. Analysis of  
these schemes  
indicate that the  
compensation  
approach leads to  
lower covert channel  
bandwidths. A  
concurrently control  
and recovery



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Concurrency

Control And  
compensation is  
proposed for  
scheduling multilevel  
update transactions.  
The correctness of  
the protocol is  
demonstrated and  
security issues are  
discussed."

It is widely  
recognized by  
practitioners that

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## Concurrency

Control And

and recovery for  
transaction systems

interact in subtle

ways. In most

theoretical work,

however,

concurrency control

and recovery are

treated as separate,

largely independent

problems. In this

paper we investigate

the interactions

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Control and recovery. We consider two general recovery methods for abstract data types, update-in-place and deferred-update. While each requires operations to conflict if they do not "commute", the two recovery methods require subtly different

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notions of commutativity. We have a precise characterization of the conflict relations that work with each recovery method, and show that each permits conflict relations that the other does not. Thus, the two recovery methods place incomparable

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constraints on  
concurrency control.  
Our analysis applies  
to arbitrary abstract  
data types, including  
those with operations  
that may be partial or  
non-deterministic.

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Database  
Systems

With growing memory sizes and memory prices dropping by a factor of 10 every 5 years, data having a "primary home" in memory is now a reality. Main-memory databases eschew many of the

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Control And  
architectural pillars of  
Recovery in  
Database  
Systems  
optimized for disk-  
resident data. The  
result of these  
memory-optimized  
designs are systems  
that feature several  
innovative  
approaches to  
fundamental issues  
(e.g., concurrency

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control, query processing) that achieve orders of magnitude

performance improvements over traditional designs.

This monograph provides an overview of recent developments in main-memory database systems. It covers five main



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Control And  
issues and  
architectural choices  
that need to be made  
when building a high  
performance main-  
memory optimized  
database: data  
organization and  
storage, indexing,  
concurrency control,  
durability and  
recovery techniques,  
and query processing  
and compilation. The

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Control And  
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Database  
Systems  
monograph focuses  
on four commercial  
and research  
systems: H-

Store/VoltDB,  
Hekaton, HyPer, and  
SAPHANA. These  
systems are diverse in  
their design choices  
and form a  
representative  
sample of the state of  
the art in main-  
memory database

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systems. It also covers other commercial and academic systems, along with current and future research trends.

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