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(54) **Title:** CONCURRENTLY ACCESSING MEMORY

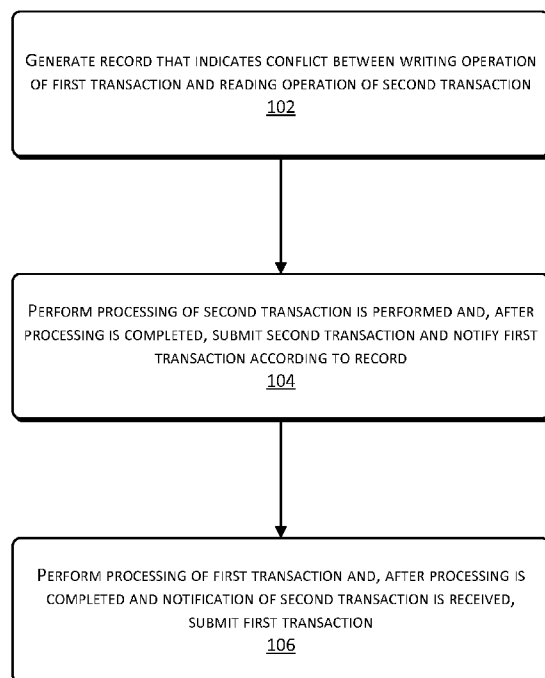


FIG. 1

(57) **Abstract:** When a first transaction needs to conduct a writing operation to first data, after there is a determination that there exists a second transaction that has conducted a reading operation of the first data or is to conduct a reading operation of the first data, a record that indicates a conflict between the writing operation of the first transaction and the reading operation of the second transaction is generated. A processing of the second transaction is performed. After the processing is completed, the second transaction is submitted and the first transaction is notified according to the record. A processing of the first transaction is performed. After the processing is completed and a notification of the second transaction is received, the first transaction is submitted. The present techniques improve concurrently visiting transaction memory at a multi-core system, avoid rollbacks incurred by conflicts, and improve overall system performance.



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