Behavioural Equivalences for Co-operating Transactions

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Abstract

Relaxing the isolation requirements on transactions leads to systems in which transactions can now co-operate to achieve distributed goals. However in the absence of isolation it is not easy to understand the desired behaviour of transactional systems, or the extent to which the other standard ACID properties of transactions can be maintained: atomicity, consistency and durability. In this talk I will give an overview of some recent work in this area, outlining semantic theories for a process calculus which has been augmented by a new construct for co-operating transactions.

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