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Abstract:
We present a case study concerned with the animation of behavioral specifications through code generation for a payment system; namely, electronic funds transfer system (EFT). The exchange of messages between a central bank and two client banks during daily operations is modeled as a communications model of Live Sequence Charts (LSCs). Using an LSC to Java/AspectJ code generator, the communications model is converted to a base code and then the animation code is woven into this base code. Execution of the resulting code animates the messages exchanged among the central bank's EFT server, central bank's branch and two client banks' EFT servers for sample money transfer operations as a sequence of events respecting the partial order specified by the LSC. The woven aspect code also addresses two additional issues: One is domain specific processing such as queue operations and settlement operations at the central banks' EFT server, and the other is scenario processing for money transfers.

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I. Introduction

Behavioral specifications (or descriptions) represent the order of the communications among system components. For domain experts and users, systems' animations are expected to be more comprehensible than a formal notation. Animation of the behavioral specifications plays an important role in early validation of the systems and can be a useful method for their realization. In this study, the approach of generating the code of the animation by the help of a code generator is presented with a sample application in the payment systems domain; namely, electronic funds transfer system (EFT).

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