Distributed Information System as a System of Asynchronous Concurrent Processes

Marek Rychlý and Jaroslav Zendulka

Faculty of Information Technology
Brno University of Technology
Department of Information Systems
{rychly, zendulka}@fit.vutbr.cz

Abstract. Nowadays enterprise information systems are designed as distributed network systems, where existing information systems and new components are connected together via a middleware. In most cases, architectures of the systems can be described informally or semiformally by means of common design tools. But there are also critical applications where an information system is getting involved, and a formal architecture specification is necessary. This paper describes a design of a framework for distributed information systems with a mobile architecture and an outline of its implementation. The framework provides an automatic derivation of a formal specification from an implementation of system, without an explicit formal description in a design phase of project. The derived specification can be used for a quick formal proof of correctness after radical changes in an implementation phase, without a maintenance of a formal design.

1 Introduction

Nowadays information systems are in most cases designed as distributed network systems. A globalisation in a sphere of business creates need for decentralised systems with a correct data distribution, distributed processing, reservation of resources and a reliable communication infrastructure. The distributed information systems are designed as a network of communicating and partially independent components where each component performs its specific task, by itself or with help of other components. In this view, a process in the information system represents a group of components and a scheme of their interaction.

An architecture design of a distributed information system and its implementation can be very complex and difficult. Formal approaches can eliminate most failures by model checking, but they require a formal specification of architecture in a design phase of project. Unfortunately, many enterprise information systems aren't build "from scratch", they are developed as confederations of existing information systems reusing a well-established software products. In this case, a designer of a distributed information system hasn't a full control over an architecture design and a formal model often doesn't correspond to the real implementation of information system.

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