

Towards action-refinement in process algebras

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Abstract

We present a simple process algebra which supports a form of refinement of an action by a process and address the question of an appropriate equivalence relation for it. The main result of the paper is that an adequate equivalence can be defined in a very intuitive manner and moreover can be axiomatized in much the same way as the standard behavioural equivalences.

1 Motivations

Regular expressions augmented by a shuffle operator, $\parallel$, have been used extensively in the theory of concurrency. This language of extended regular expressions consists of all the words which can be constructed from a set of generators using the symbols $;$, $+$, $\parallel$ and $*$. Intuitively, the generators may be looked upon as variables, as in formal language theory, or as uninterpreted actions, as in the the-

ory of concurrency; the symbol $;$ represents sequential composition, $+$ represents choice, $\parallel$ represents concurrency and $*$ iteration.

We wish to re-examine the formal semantic basis for this language. Specifically, we suggest a new semantic interpretation for the language, justify it from a behavioural point of view and show that it can be finitely axiomatized. For simplicity the Kleene closure operator $*$ is omitted. However, part of our justification involves the introduction of a new operator. In formal language terms this operator stands for the homomorphic substitution of languages for variables, whereas from the perspective of process algebras it represents the refinement of an action by a process. Indeed, much of the novelty of our approach is in the formal treatment of this operator and the investigation of the consequences of introducing it into the language.

One simple semantic theory may be based on interpreting each expression as a language of strings over the generators in the same way

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