Intermediate Scientific Report of  
A Framework Approach to Composing  
Heterogeneous Applications  
FNRS Project No. 20-53711.98

November 23, 1999

1 Results Description

1.1 Piccola

Piccola is a general composition language. It supports the definition of different architectural styles in which components can be scripted [ALS99],[Lum99] [Sch99]. Piccola’s formal semantics is given in terms of the piL-calculus [LAN99]. We are working on a type system for the calculus [Lum99]. We have used the formalism of the piL-calculus to define a metamodel for object-based programming.

1.2 CoLaS

In the CoLaS model we integrate coordination into an object-oriented programming language itself. In CoLaS the coordination is based on the notion of Coordination Groups [CD99b]. We are extending the CoLaS model in the context of distributed object-oriented programming environment [CD99a].

1.3 Coordination Framework

In [TCD99] we present a series of guidelines for developing component frameworks in which coordination is an issue. In [Küh98] we present a coordination medium for distributed application that extends the notion of tuple spaces to form spaces, with corresponding advantages for flexibility and extensibility.

2 Publications

The publications listed below are for the period from the beginning of the project until September 30 1999. The publications in bold are included with this report and cover the period from September 30 1998 to September 30 1999. The other publications
have already been submitted with the previous (intermediate) report for this project. The publications presented in bold are joined to this report.

As the Famoos Esprit Project is related to the described project, we include the list of publications related to the Famoos project.

**FNRS Related Publications**


**Famoos Esprit Project Related Publications**


[DDN99] Serge Demeyer, Stéphane Ducasse, and Oscar Nierstrasz. Finding refactoring via change metrics. working paper, April 1999.


**Master’s and PhD Theses**


Other Publications


