The Frames Poster

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The Frames Poster

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Abstract

This is the poster made to support the software demonstration of Frames in the ALCOM-IT meeting to be held in Cologne in January 1997. The poster points out the main highlights of the software system, as well as the overall approach. Its original size is 59.4cm x 84 cm (a DIN A1 sheet). We reproduce it here in a smaller format. The document has been created using Microsoft Word for Windows 95, Windows Draw, ABC Flow Charter and Paint Shop Pro.

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References:


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Frames
Environment for developing applications based on libraries of efficient parallel algorithms.

Programming Frames
Skeletons with problem dependent parameters to be provided by the users.

Frames Description Language
1. Specification of the abstract parameters
2. Instantiation of the parameters
3. Implementation of the generic source code

Features:
- Base language: C
- Reusability
- Portability
- State of the art
- Efficiency
- User friendly
- Graphical interfaces
- Visual programming
- Spread of parallel computing.

The Frames Software

Tools
abscc: Check abstract specification
inscc: Check instance specification and its type consistency wrt the abstract specification
impcc: Binds the instance with the generic code according to the implementation rules
FIT: The frames instantiator tool (user front-end of the system)
Frames Repositories: Place where all the implementations of the Frames belong. Available via WWW and Internet

Implementation languages
- ELI compiler system
- Java
- Ansi C
- Portable shell scripts

Our Targets

The Frames Instantiator Tool
FIT is a graphical user interface to give instances to abstract frames. The GUI is generated automatically from the abstract specification. It also serves as the front-end of the system.

The FEM Frame
Computation of the temperature distribution for a 2D cut of a cooled cylinder of an extruder machine.

Poster Design: Jordi Pelit i Silvestre