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Constraint Technology Group

Roman Barták
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Research areas

- constraint hierarchies
- algorithms for solving constraint hierarchies
- logic programming and Prolog
- multiparadigmatic programming

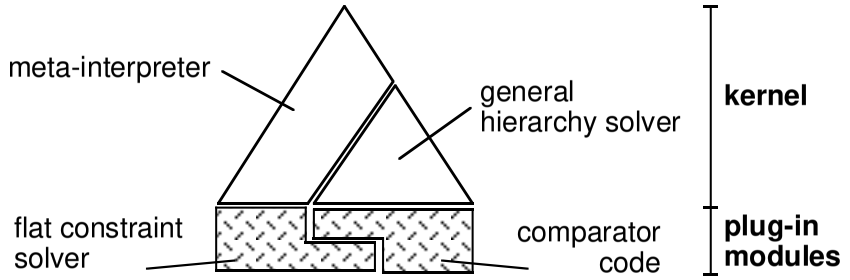
Papers in progress

R. Barták, *Expert Systems Based on Constraint Hierarchies*, Doctoral Dissertation

P. Váňa, *Relational Objects, Augmenting Object-Oriented Paradigm with Declarative Aspects*, Doctoral Dissertation

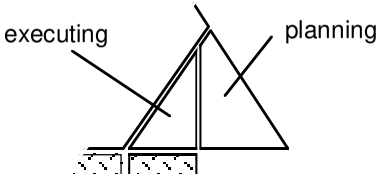
Algorithms for Solving Constraint Hierarchies

Plug-In Architecture of Constraint Hierarchy Systems



General Hierarchy Solver

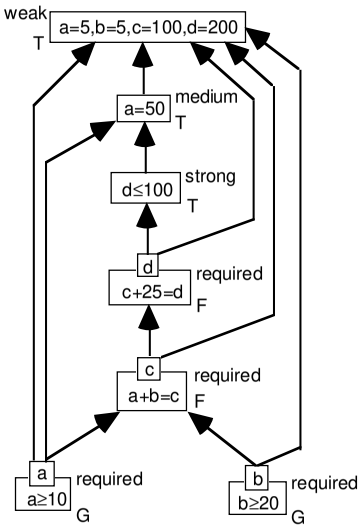
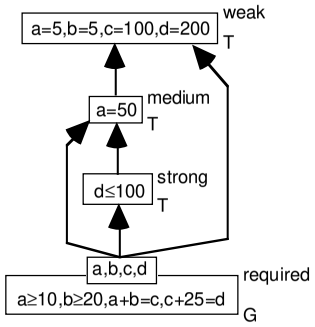
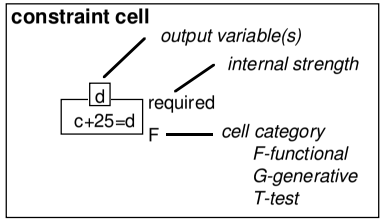
- covers both the refining method and local propagation
- consist of planning and execution phases



- Constraint Cells
- Constraint Networks

Recent reports

R. Barták, *A Generalized Algorithm for Solving Constraint Hierarchies*, submitted to JFPLC '97

R. Barták, *A Plug-in Architecture of Constraint Hierarchy Solvers*, submitted to PACT '97

Constraint Cells and Networks