To reuse or to be reused. Techniques for component composition and construction

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Additiona l So ftwa re Package s

Apart from the software packages that we developed during our research, we also list a selection of additional software packages that we made use of. All these packages are open source and, in addition to the indicated locations, they are also available at the Online Package Base. From there, they can easily be retrieved and bundled with other software packages.

The ASF+SDF Meta-Environment  The ASF+SDF Meta-Environment is an interactive development environment for language prototyping and for developing program transformations. It supports combined definition of syntax and semantical aspects of (programming) languages using the syntax definition formalism SDF and the term rewriting language ASF, respectively. It is available from:

http://www.cwi.nl/projects/MetaEnv

The ATerm Library  The ATerm format is used by all our tooling as standard exchange format and is the standard data format of the Stratego programming language. The ATerm Library is therefore an important component in our Language-Centered Software Engineering model. It includes the ATerm API, which is used by for constructing and inspecting ATerms, as well as, a collection of tools for ATerm processing. The ATerm library is available from:

http://www.cwi.nl/projects/MetaEnv/aterm

Autoconf  Autoconf is a tool for generating configuration scripts for software packages. These configuration scripts perform system checks and offer switches to activate or configure parts of a package. The generated configuration scripts provide a standardized configuration interface, which autobundle uses for the composition of configuration processes. Autoconf is available at:
Automake  Automake is a tool for generating Makefiles from high-level Makefile templates. The generated Makefiles provide a standardized build interface, which autobundle uses for the composition of build processes. Automake is available at:

http://www.gnu.org/directory/GNU/automake.html

Graphviz  This package provides a collection of tools for manipulating graph structures and generating graph layouts. The tools operate on the graph drawing language DOT. The package is available at:

http://www.graphviz.org

SDF parse table generator and generalized LR parser  The parse table generator pgen and the scannerless generalized LR parser sglr that consumes these tables are the primary tools that support the syntax definition formalism SDF. They are available from:

http://www.cwi.nl/projects/MetaEnv/pgen
http://www.cwi.nl/projects/MetaEnv/sglr

Stratego  Stratego is the primary programming language that we used for the implementation of the tools presented in this thesis. It is a modular language for the specification of fully automatic program transformation systems based on the paradigm of rewriting strategies. The Stratego distribution is available at:

http://www.stratego-language.org