The GrGen.NET ToDo-List

Frontend (Java):

ToDo:

- In replace/modify-part typeof does not work when used with retyping of nodes and/or edges.
- For .grg-files, that are empty except for the actions statement, GrGen wrongly reports an error.
- In declarations of enumeration types (keyword enum) user defined integer values can be assigned to elements. However, on the RHS of such "assignments" it should be possible to use already defined elements of that enumeration types in expressions (e.g., ... x = 42, y = x + 3...). However, GrGen does not accept this.
- GrGen crashes with a NullPointerException if the .grg file specifies a non-existing model file.
- Where warnings should be raised:
 - In modify parts, if a graph element occurs inside as well as outside a delete statement.
 - If an assignment x.a = ... occurs inside an eval, but the graph element x will be deleted on a rewrite.
 - If one or more attributes of a newly created node are not initialized by the eval part of the respective rule.
 - If the types of potentially homomorphic pattern nodes have no common subtype (because non-injective matching is *impossible* in this case).
- The statements actions and model should be removed from the specification language of GrGen.NET. However, if such a statement occurs at the beginning of a specification, a deprecated-warning should be raised. The using keyword will be kept, of course.
- In some error messages appear corrupt coordinates (this is where a "?" appears instread of line and column).

Done:

• GrGen crashes when a newly created edge is returned, saying that "the element 'type3', that is neither a parameter, nor contained in LHS, nor in RHS, occurs in a return". Crashes in

... ast. Rule Decl Node. check Returned Elems Not Deleted.

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(should_pass/ret_003_fe.grg)
{fixed—Batz 17. Jul. 2007}
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• In modify-parts the error detection wrongly reports invalid reuse of nodes and edges.

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{seems to work now—Batz 17. Jul. 2007}
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- Dangling edge graphlets on the RHS should work, if the edge is a reused one and if all incident pattern nodes of that edge are also reused. However, if such an edge is retyped, GrGen wrongly reports an error. {seems to work now—Batz 17. Jul. 2007}
- Annotions of anonymous nodes and edges do not work. {implemented—Batz 14. Jul. 2007}
- If the filename of a .grg-file does not conform with the name given along with the actions keyword, an error is raised (which is just the right behaviour). However, the output file is genrated all the same, which should not happen. {fixed—Batz 7/13/2007}
- Error detection for the return statement is errorneous. {seems to work now—Batz 13. Jul. 2007}
- At test case should_fail/ret_001.grg: The signature of the rule demands a type AB. However, if you return a type C (that is no subtype of AB) no error is reported, which were the right behaviour.

 {as the return stuff now works, this works, too—Batz 13. Jul. 2007}

C#-Searchplan-Backend (Java):

ToDo:

• The C#-code generated for /should_pass/basic_027.grg is not correct. Because of "x -e-> y;" in the modify part, "delete(x);" is ignored.

Done:

• Float constants are not correctly emitted. {fixed—Kroll 14. Jul. 2007}

Backend (C#):

ToDo: Done:

Other things like, e.g., bugs of unknown origin

ToDo: Done: