

Informations Générales

- * Nom du logiciel: \exists ASP2ASP
- * Site web du logiciel: <http://forge.info.univ-angers.fr/~fgarreau/ASP.php>
- * Licence: GPL
- * Partenaire(s) ASPIQ: LERIA
- * Contact: Fabien GARREAU <fgarreau@info.univ-angers.fr>

Description

\exists ASP2ASP is a translation module included in \exists ASPeRiX that translates a non-monotonic existential program into a classical ASP program. \exists ASPeRiX is an extended version of the ASP solver ASPeRiX with a translation module and a query answering module incorporated. A non-monotonic existential program consists of non-safe ASP rules with multi-atomic head and multi-atomic negative bodies. A non-monotonic existential rule is of the form :

$H_1, \dots, H_v :- B_1, \dots, B_m, \text{not } (N_{11}, \dots, N_{1u}), \dots, \text{not } (N_{s1}, \dots, N_{sv}).$

with $H_1, \dots, H_v, B_1, \dots, B_m, N_{11}, \dots, N_{1u}, N_{s1}, \dots, N_{sv}$ some atoms.

To use \exists ASP2ASP, you have to use \exists ASPeRiX with this command line :

```
eASPeRiX -L inputprogram
```

And to write the result of the translation in a new output file :

```
eASPeRiX -L inputprogram > outputfile
```

It takes a non-monotonic existential program in input and output a classical ASP program.

\exists ASP2ASP is for now only compatible with any Linux distribution and MAC OSX.

Publication associées

(dans ASPIQ)

- Laurent Garcia, Fabien Garreau, Claire Lefèvre, Igor Stephan. \exists -ASP In Proceedings of the 1st Ontologies and Logic Programming for Query Answering workshop (ONTOLP 2015) workshop of the 24th International Joint Conference on Artificial Intelligence (IJCAI), Buenos Aires, July 2015

- Jean-François Baget, Laurent Garcia, Fabien Garreau, Claire Lefèvre, Swan Rocher, Igor Stephan. Bringing existential variables in answer set programming and bringing non-monotony in exis-

tential rules : two sides of the same coin. Submitted in Annals of Mathematics and Artificial Intelligence 2016.

(hors ASPIQ)
sans objet

Tâches ASPIQ associées

Task 2.1
Task 2.2
Task 5.1
Task 5.2

Contributeurs

– Fabien GARREAU (LERIA, 2 boulevard Lavoisier 49000 ANGERS, UFR Science de l'université d'Angers) <fgarreau@info.univ-angers.fr>