Informations Générales
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* Nom du logiciel: ∃ASPeRiX
* 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

∃ASPeRiX is an extended version of the ASP solver ASPeRiX with a translation module and a query answering module incorporated. ∃ASPeRiX is separated in 3 modules : First a translator from ∃ASP to ASP, then it computes the answer sets of the program with the original ASPeRiX solver and finally it can compute answers to a query. It takes a non-monotonic existential program in input and offers the possibility to compute answer sets or answers to a query to this program. Non-monotonic existential rules are of the form :

H1, ..., Hv :- B1, ..., Bm, not (N11, ..., N1u), ..., not (Ns1, ..., Nsv).

with H1, ..., Hv, B1, ..., Bm, N11, ..., N1u, Ns1, ..., Nsv some atoms.

∃ASPeRiX is for now only compatible with any Linux distribution and MAC OSX.

This software allows sceptic and credulous answer to a conjunctive query or a boolean conjunctive query. You can use it with the following command lines :

eASPeRiX -QS inputprogram

for sceptical answer

eASPeRiX -QC inputprogram

for credulous answer

User guide is avaible at http://forge.info.univ-angers.fr/~fgarreau/ASP.php

Publication associées

(dans ASPIQ)
- Laurent Garcia, Fabien Garreau, Claire Lefèvre, Igor Stephan. ∃-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 existential 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 4.1
Task 4.2
Task 5.1
Task 5.2

Contributeurs

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