

Usage

I-DLV can interoperate with the state-of-the-art solvers *wasp* and *clasp*. Indeed, by default *I-DLV* output is produced in a numeric format compliant with the mentioned solvers.

In order to interoperate with a solver type:

```
./idlv [filename [filename [...]]] | ./solver_executable
```

In order to obtain the ground program in textual format type:

```
./idlv --t [filename [filename [...]]]
```

Example:

```
./idlv program.dl | ./wasp
```

I-DLV Command-line Options

Output Options

- `--silent` suppress the startup banner and blank lines.
- `--no-facts` suppress the printing of EDB.
- `--output-format` set the output format: 0=Numeric, 1=Textual.
- `--t` print in textual mode.
- `--filter` filter the specified predicates with the specified arity. Example: `--filter=p1/2,p2/3`.
- `--print-rewriting` print the rewritten program.
- `--query` print the results of the input query.

Grounding Options

- `--check-edb-duplication` if present, remove duplicate EDB.
- `--rewriting` set the rewriting strategy to adopt for choice rules: 0: Native Rewriting (Default); 1: By means of disjunction.
- `--rewrite-arith-termsenable` the rewriting of arithmetic terms into assignment built-in atoms.
- `--align-dictionaries` enable the dictionaries alignment mechanism.
- `--ordering` set the body ordering criterion:
 - 0 = A basic ordering strategy that applies minor changes to the original ordering just to ensure a correct evaluation;

- 1 = *DLV Combined Criterion*, the ordering criterion applied in *DLV* (See <http://dblp.org/rec/html/conf/lpnmr/LeonePS01>);
- 2 = *Combined+ Criterion* (Default), a criterion that enhances the *Combined* one by considering comparisons;
- 3 = *Functional Terms Criterion*, a criterion that pushes literals with functional terms down in the body;
- 4 = *Indexing Criterion*, a strategy that tries to improve the quality of available indices;
- 5 = *Backjumping Criterion*, a criterion that works in synergy with backjumping procedure employed in the rule instantiation task in order to facilitate it;
- 6 = A Combination of criteria 4 and 5.
- `--no-isolated-filter` disable the filtering mechanism of isolated variables.
- `--no-projection` disable the projection rewriting of irrelevant variables.
- `--indexing` set the indexing terms for the specified predicates. Example: `--indexing=p/3={0,1};p/2={1}`.
- `--FC` enable cautious reasoning.
- `--FB` enable brave reasoning.
- `--no-MS` disable the Magic Sets rewriting.

Statistics Options

- `--time` print the grounding time of each rule.
- `--gstats` display grounding statistics.

General Options

- `--help` print this guide and exit.
- `--stdin` read input from standard input.