

bmtool

Step 1: Important informations for output extraction. Use TAB to separate variable and regular expression.

```
<var>          <regular expression>
TIME           "Duration *: @NUMBER@"
CHOICEPOINTS   "Number of choice points *: @NUMBER@"
ATOMS          "Number of atoms *: @NUMBER@"
RULES          "Number of rules *: @NUMBER@"
...
```

Step 2: Summary output of tests.

```
<output-description> <format>    <values> ...
TIME                 %.2f (%.2f) [arithmetic_mean [measure TIME]] [standard_deviation [measure TIME]]
CHOICEPOINTS         %d          [measure_const CHOICEPOINTS]
RULES                %d          [measure_const RULES]
ATOMS                %d          [measure_const ATOMS]
...
```

- measure_flatten
- min
- max
- min_cautious
- max_cautious
- arithmetic_mean
- arithmetic_mean_cautious
- standard_deviation
- plus
- percent
- measure
- measure_const

Step 3: Prepare problem files (logic programs) for testing.

```
problem(<problem name>)
description(<description>)
options(<command line parameters>)
files(<lp-filename>)

problem(hamiltonian encodings[comp5])
description(complete with 5 vertices)
options(0)
files(Examples/ham_comp_5.lp)

problem(planning[pigeon_3_3])
description(putting 3 pigeons into 3 holes)
options(0)
files(Examples/pigeon_3_3.lp)

...
```

Step 4: Start the benchmark using the TCL/TK file `bmtool`.

```
./bmtool -e extraction -o schemata -n=<runnings> -p problem /home/wv/bin/linux/smodels
```

Argument	Description
--backend=(table list latex tabtable)	Summary as L ^A T _E X, table, ...
--errorfile <filename>	Error output to file
--stopafterfirstfailure	
-e <filename>	extraction definitions
-p <filename>	problems (lp-file definitions)
-o <filename>	summary format
-n=<N>	number of iterations