

hifrog - Bug #5218

Wrong result in ECA with global vars for Problem01_label38_false-unreach-call.c

28/05/2017 10:29 - Sepideh Asadi

Status:	Feedback	Start date:	28/05/2017
Priority:	Normal	Due date:	
Assignee:	Antti Hyvärinen	% Done:	80%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour

Description

```
/hifrog/trunk/cprover/src/funfrog/hifrog --claim 1 --bitwidth 32 --unwind 10 --no-ityp
~/hi-bench/challenge-bench/sv-comp16/c/eca-rers2012/Problem01_label38_false-unreach-call.c --logic prop
result with prop: UNSAT, 54 sec
```

```
-----
/hifrog/trunk/cprover/src/funfrog/hifrog --claim 1 --bitwidth 32 --unwind 10 --no-ityp
~/hi-bench/challenge-bench/sv-comp16/c/eca-rers2012/Problem01_label38_false-unreach-call.c --theoref
Result with CUF: UNSAT, 27 sec
```

```
-----
./cbmc --unwind 10
Result with CBMC: SAT, 20 sec
```

```
cbmc log:
91898 variables, 294206 clauses
SAT checker: instance is SATISFIABLE
Runtime decision procedure: 8.099s
```

- Results:
[calculate_output.assertion.1] : FAILURE
- 1 of 1 failed (1 iteration)
VERIFICATION FAILED
Command exited with non-zero status 10
real 20.52

History

#1 - 30/05/2017 23:48 - Karine Even Mendoza

- Assignee set to Karine Even Mendoza

#2 - 07/06/2017 15:22 - Karine Even Mendoza

- % Done changed from 0 to 50

Prop version is SAT now.

#3 - 07/06/2017 15:55 - Karine Even Mendoza

- % Done changed from 50 to 80

The theoref version - killed

#4 - 08/08/2017 16:48 - Karine Even Mendoza

- Status changed from New to Feedback

- Assignee changed from Karine Even Mendoza to Antti Hyvärinen

Seems to be OK now. But it is a good candidate for theoref new heuristics.
Theoref - killed.

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ASSERTION DON'T HOLD

A real bug found

VERIFICATION FAILED

Initial unwinding bound: 10

Total number of steps: 1

TOTAL TIME FOR CHECKING THIS CLAIM: 81.555

Main Checked Assertion:

file ../../../../hi-bench/challenge-bench/sv-comp16/c/eca-rers2012/Problem01_label38_false-unreach-call.c line 422 function calculate_output
assertion

FALSE

; STATISTICS FOR SAT SOLVER

; Restarts.....: 17
; Conflicts.....: 3587
; Decisions.....: 12005
; Propagations.....: 38193667
; Conflict literals.....: 178550
; T-Lemmata learnt.....: 0
; T-Lemmata perm learnt....: 0
; Conflicts learnt.....: 3587
; T-conflicts learnt.....: 0
; Average learnts size.....: 49.7418
; Top level literals.....: 6686
; Search time.....: 0 s
; TSolvers time.....: 0.02 s
; Init clauses.....: 603447
; Variables.....: 127354

; STATISTICS FOR EUF SOLVER

; Satisfiable calls.....: 0
; Unsatisfiable calls.....: 0
; egraph time.....: 0 s
; backtrack time.....: 0 s
; explain time.....: 0 s
; # eq classes at the end..: 0

; STATISTICS FOR LOGICS

; Substitutions.....: 0

#X: Done.

karinek@karinek-VirtualBox:~/workspace/tools/hifrog_lra_lattice/hifrog/trunk/cprover/src/funfrog\$./hifrog --claim 1 --logic prop --unwind 10

../../../../hi-bench/challenge-bench/sv-comp16/c/eca-rers2012/Problem01_label38_false-unreach-call.c