

hifrog - Bug #4998

bug in QF_BOOL: wrong result for prop in benches in directory ntdrivers-simplified

12/04/2017 17:03 - Sepideh Asadi

Status:	Feedback	Start date:	12/04/2017
Priority:	Normal	Due date:	
Assignee:	Antti Hyvärinen	% Done:	10%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
/hifrog --claim 1 --logic prop --bitwidth 8 --unwind 1 ~/hi-bench/challenge-bench/sv-comp16/c/ntdrivers-simplified/cdaudio_simpl1_true-unreach-call_true-termination.cil.c			
VERIFICATION FAILED			
wrong result! because claim 1 should hold			

History

#1 - 14/04/2017 18:35 - Karine Even Mendoza

KE: can be long time bug, as the old funfrog crashes,

```
XXX=====
XXX Partition: 4 (ass_in_subtree: 0) - c::stub_driver_init (loc: 101, SUM)
evolcheck: sat/cnf.cpp:675: bool cnft::process_clause(const bvt&, bvt&): Assertion `l.var_no() != literal::unused_var_no()' failed.
Aborted (core dumped)
karinek@karinek-VirtualBox:~/workspace/tools/verify_cprover/trunk/cprover/src/funfrog$ ./evolcheck
../../../../hi-bench/main-bench/sv-comp16/c/ntdrivers-simplified/cdaudio_simpl1_true-unreach-call_true-termination.cil.c
```

#2 - 18/04/2017 13:38 - Karine Even Mendoza

- Assignee set to Karine Even Mendoza

#3 - 30/05/2017 18:33 - Karine Even Mendoza

Need larger bit-width:

```
Data 18446744072635809814(18446744072635809814) is not in between -256 and 255
```

#4 - 30/05/2017 18:36 - Karine Even Mendoza

Data 18446744072635809814(18446744072635809814) is not in between -4294967296 and 4294967295
With 32 bits, but when using 64 bits - got out of memory.

Run with:

```
./hifrog ../../../../../../hi-bench/challenge-bench/sv-comp16/c/ntdrivers-simplified/cdaudio_simpl1_true-unreach-call_true-termination.cil.c
--type-constraints 2 --logic qfcuf --no-ityp --theoref --force --bitwidth 32
```

#5 - 30/05/2017 18:40 - Karine Even Mendoza

- Priority changed from Normal to Low

- % Done changed from 0 to 10

MEM ISSUES - LOW Priority

#6 - 09/06/2017 20:01 - Karine Even Mendoza

- Status changed from New to In Progress

- Priority changed from Low to Normal

This is not related to the goto problem, we need to check it to understand the reason. Maybe the way the assert is encoded.

#7 - 09/08/2017 14:55 - Karine Even Mendoza

- Status changed from In Progress to Feedback

- Assignee changed from Karine Even Mendoza to Antti Hyvärinen

Shall be with 64 bits not 8. Also I will try to use type constraints.

With 64 bits, even with unwind 1, we get "killed"...

Maybe we can minimize the number of refined instructions so we can use small register (less than 64...)?