

hifrog - Bug #5002

--theoref bug: BitBlaster.C:477: BVRef BitBlaster::bbBvand(PTRef): Assertion

`logic.getPterm(logic.getPterm(tr)[0]).size() == logic.getPterm(logic.getPterm(tr)[1]).size()' failed.

14/04/2017 16:19 - Karine Even Mendoza

Status:	Closed	Start date:	14/04/2017
Priority:	Urgent	Due date:	
Assignee:	Antti Hyvärinen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
Any idea what's the issue here? what do we need to fix? IT happens in many benchmarks			
<ul style="list-style-type: none">• WARNING: no body for function mite_list_devices SYMEX TIME: 183.009 All SSA steps: 812 Ignored SSA steps after slice: 457 SLICER TIME: 0.309 ; 0 0 0 144.640 s 366.309 MB CONVERSION TIME: 10.686 SOLVER TIME: 3.2 RESULT: SAT - doesn't hold			
Trying to refine with CUF+BitBlast (driven by iterative CE-analysis)			
; Warning: disabling SATElite preprocessing to track proof			
; 0 0 0 150.548 s 413.547 MB			
; 0 0 0 150.920 s 413.562 MB			
; 0 0 0 151.564 s 413.594 MB			
; 0 0 0 152.300 s 413.594 MB			
; 0 0 0 153.204 s 413.594 MB			
; 0 0 0 154.212 s 413.609 MB			
; 0 0 0 155.324 s 413.641 MB			
; Warning: disabling SATElite preprocessing to track proof			
; 0 0 0 158.176 s 464.910 MB			
hifrog: BitBlaster.C:477: BVRef BitBlaster::bbBvand(PTRef): Assertion `logic.getPterm(logic.getPterm(tr)[0]).size() logic.getPterm(logic.getPterm(tr)[1]).size()' failed.			
13653==			
13653 HEAP SUMMARY:			
13653 in use at exit: 176,735,464 bytes in 323,346 blocks			
13653 total heap usage: 2,346,632 allocs, 2,023,286 frees, 317,988,967 bytes allocated			
13653			
13653 LEAK SUMMARY:			
13653 definitely lost: 422,361 bytes in 5,612 blocks			
13653 indirectly lost: 4,507,836 bytes in 3,410 blocks			
13653 possibly lost: 1,466,832 bytes in 31,599 blocks			
13653 still reachable: 170,338,435 bytes in 282,725 blocks			
13653 suppressed: 0 bytes in 0 blocks			
13653 Rerun with --leak-check=full to see details of leaked memory			
13653			
13653 For counts of detected and suppressed errors, rerun with: -v			
13653 ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)			
Aborted (core dumped)			
karinek@karinek-VirtualBox:~/workspace/tools/hi-bench/challenge-bench\$ valgrind ./hifrog sv-comp16/c/ldv-commit-tester/m0_false-unreach-call_drivers-staging-comedi-drivers-ni_6527-ko--107_1a--adbbc36-1.c --theoref --logic qfcuf --claim 1 --unwind 2 --bitwidth 32			

History

#1 - 15/04/2017 09:22 - Karine Even Mendoza

- Priority changed from High to Urgent

It fails majority of the sv-comp, so it is super important to take care of it - if we wish to have sv-comp benchmarks!

#2 - 18/04/2017 11:44 - Karine Even Mendoza

I think it is something we are not calling right, maybe something is missing (push(?)).

The error is from src/tsolvers/bvsolver/BitBlaster.C, in OpenSMT.

The method is: BVRef BitBlaster::bbBvand(PTRef tr).

The assert is: `assert(logic.getPterm(logic.getPterm(tr)[0]).size() == logic.getPterm(logic.getPterm(tr)[1]).size()); // Should be e->get2nd()->getWidth().`

To solve it, I wish first to understand what is the reason it happens, what OpenSMT expects and what it gets that it is not ok, I wish to understand the bigger picture.

Also consider to add a message next to the assert: `assert(cond && "the issue here is....");` can help for use for next time!

Thanks

#3 - 18/04/2017 16:14 - Antti Hyvärinen

It should be fixed now. The assertion was old and not relevant, and checked in a new way already. I don't know how on earth it was on the code haha

#4 - 19/04/2017 17:33 - Karine Even Mendoza

- Status changed from Feedback to Closed

- % Done changed from 0 to 100

IS ok now