

hifrog - Bug #5016

when increasing bitwidth, wrong result is reported

20/04/2017 12:41 - Sepideh Asadi

Status:	Closed	Start date:	20/04/2017
Priority:	Normal	Due date:	
Assignee:	Sepideh Asadi	% Done:	90%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
<pre>/hifrog --claim 1 --theoref --bitwidth 8 --unwind 10 ~/dev/hi-bench/challenge-bench/sv-comp16/c/bitvector/num_conversion_2_true-unreach-call.c Refinement successful VERIFICATION SUCCESSFUL ----- BUT when running with bw 32 it becomes SAT!!!!: /hifrog --claim 1 --theoref --bitwidth 32 --unwind 10 ~/dev/hi-bench/challenge-bench/sv-comp16/c/bitvector/num_conversion_2_true-unreach-call.c Weak statement encodings (33) found Weak statement encodings (1) found Obtained counter-examples are refined (34 / 35 expressions bit-blasted) VERIFICATION FAILED</pre>			

History

#1 - 20/04/2017 12:42 - Sepideh Asadi

CBMC is UNSAT.

#2 - 02/05/2017 22:44 - Karine Even Mendoza

bitwidth 16 - SAT
bitwidth 8 - UNSAT

#3 - 08/06/2017 17:44 - Karine Even Mendoza

- Assignee set to Antti Hyvärinen

The encoding (SMT + SSA parsing) is the same for 8 or 16 bits.
But the same encoding returns different results from opensmt when bitwidth is 8 or 16.

Anyidea?

#4 - 09/06/2017 19:23 - Karine Even Mendoza

- Status changed from New to Feedback
- Assignee changed from Antti Hyvärinen to Sepideh Asadi
- % Done changed from 0 to 90

Add new functionality to support this case: --type-byte-constraints.
Works now

#5 - 16/06/2017 18:15 - Karine Even Mendoza

- Status changed from Feedback to Closed