

## hifrog - Bug #4997

### --theoref bug : quadratic explosion in ntdrivers-simplified benchmarks

12/04/2017 14:34 - Sepideh Asadi

<b>Status:</b>	New	<b>Start date:</b>	12/04/2017
<b>Priority:</b>	Low	<b>Due date:</b>	
<b>Assignee:</b>	Antti Hyvärinen	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
/hifrog --claim 1 --theoref ~/dev/hi-bench/challenge-bench/sv-comp16/c/ntdrivers-simplified/cdaudio_simpl1_true-unreach-call_true-termination.cil.c			
Parts of debug: ... .... ; Warning: disabling SATElite preprocessing to track proof ^C^C Program received signal SIGINT, Interrupt. 0x0000000005c300a in operator!= (a1=..., a2=...) at /home/asadis/dev/opensmt-debug/include/opensmt/Pterm.h:43 43 inline friend bool operator!= (const PTerm& a1, const PTerm& a2) { return a1.x != a2.x; } (gdb) bt #0 0x0000000005c300a in operator!= (a1=..., a2=...) at /home/asadis/dev/opensmt-debug/include/opensmt/Pterm.h:43 #1 0x00007ffff7acc7f4 in operator== (k1=..., k2=...) at ../src/pterm/Pterm.h:69 #2 0x00007ffff7ad0e01 in Equal<PTLKey>::operator() (this=0x1d53ae9, k1=..., k2=...) at ../src/minisat/mtl/Map.h:32 #3 0x00007ffff7ace677 in Map<PTLKey, PTerm, PTLHash, Equal<PTLKey> >::has (this=0x1d53ae8, k=...) at ../src/minisat/mtl/Map.h:149 #4 0x00007ffff7acce in PtStore::hasBoolKey (this=0x1d539c0, k=...) at ../src/pterm/PtStore.h:175 #5 0x00007ffff7ac5acf in Logic::insertTermHash (this=0x1d53708, sym=..., terms_in=...) at Logic.C:1111 #6 0x00007ffff7ac44e7 in Logic::mkEq (this=0x1d53708, args=...) at Logic.C:831 #7 0x0000000005ccaf2 in Logic::mkEq (this=0x1d53708, a1=..., a2=...) at /home/asadis/dev/opensmt-debug/include/opensmt/Logic.h:279 #8 0x00007ffff7aec8e8 in BVLogic::mkEq (this=0x1d53708, a1=..., a2=...) at BVLogic.h:274 #9 0x00007ffff7a7b942 in BitBlaster::notifyEquality (this=0x1e93410, tr=...) at BitBlaster.C:2202 #10 0x00007ffff7a7b449 in BitBlaster::notifyEqualities (this=0x1e93410) at BitBlaster.C:2162 #11 0x0000000005db719 in smtcheck_opensmt2t_cuf::refine_ce_mul (this=0x1e647e0, exprs=std::vector of length 2594, capacity 4096 = {...}, is=std::set with 1184 elements = {...}) at solvers/smtcheck_opensmt2_cuf.cpp:1442 #12 0x0000000005a58e1 in theory_refinert::assertion_holds_smt (this=0x7fffffd2c0, assertion=..., store_summaries_with_assertion=true) at theory_refiner.cpp:178 #13 0x000000000576027 in check_claims (ns=..., leaping_program=..., goto_functions=..., claim_map=std::map with 1 elements = {...}, claim_numbers=std::map with 2 elements = {...}, options=..., _message_handler=..., claim_nr=1) at check_claims.cpp:177 #14 0x000000000570cf2 in funfrog_parseoptionst::check_function_summarization (this=0x7fffffd90, ns=..., goto_functions=...) at parseoptions.cpp:541 #15 0x000000000570395 in funfrog_parseoptionst::doit (this=0x7fffffd90) ---Type <return> to continue, or q <return> to quit--- at parseoptionQuit (gdb) f 9 ... ... main reason for this bug: Theory combination between BV and CUF			

need to be added millions of equalities in binding, indicating that qfcuf holds if and only if BV holds.

## History

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**#1 - 30/05/2017 18:45 - Karine Even Mendoza**

- *Priority changed from High to Low*