# hifrog - Bug #4681

# wrong result/core dump in Directory:main-bench/funfrog\_regression/06\_globals

07/03/2017 09:38 - Sepideh Asadi

Status: Closed Start date: 07/03/2017 **Priority:** Normal Due date: Karine Even Mendoza % Done: 100% Assignee: Category: **Estimated time:** 0.00 hour Target version: Spent time: 0.00 hour

### Description

Hifrog fails (verification failed) for the following benchmarks, while CBMC verifies correctly.

Directory:main-bench/funfrog\_regression/06\_globals/main3

/main4

/main5

/main6

/main7

/main8

## History

### #1 - 07/03/2017 18:22 - Karine Even Mendoza

Horrible bug related to renaming in new CPROVER framework.

#### #2 - 09/03/2017 20:41 - Karine Even Mendoza

- Assignee set to Karine Even Mendoza
- % Done changed from 0 to 100

Hopefully it is done now

## #3 - 14/03/2017 14:35 - Karine Even Mendoza

- Status changed from New to Resolved

## #4 - 16/03/2017 06:56 - Sepideh Asadi

- File global-main7-prop.png added
- File global\_main5\_pop.png added
- Subject changed from wrong result in Directory:main-bench/funfrog\_regression/06\_globals to wrong result/core dump in Directory:main-bench/funfrog\_regression/06\_globals
- Status changed from Resolved to In Progress
- % Done changed from 100 to 50

new bugs:

./hifrog ~/dev/hi-bench/main-bench/funfrog\_regression/06\_globals/main8.c --claim 1 --logic qflra >> failed >> what it supposed to be in LRA?UNSAT?

./hifrog ~/dev/hi-bench/main-bench/funfrog\_regression/06\_globals/main7.c --claim 1 --logic prop >> core dumped >>screenshot attached.

Interpolant for function: \_\_CPROVER\_initialize is trivial.

hifrog: solvers/prop\_itp.cpp:365: void prop\_itpt::generalize(const prop\_conv\_solvert&, const std::vector<symbol\_exprt>&): Assertion `idx >= 0' failed. Aborted (core dumped)

./hifrog ~/dev/hi-bench/main-bench/funfrog\_regression/06\_globals/main7.c --claim 1 --logic qflra >>failed

./hifrog ~/dev/hi-bench/main-bench/funfrog\_regression/06\_globals/main5.c --claim 1 --logic qflra >>failed

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./hifrog ~/dev/hi-bench/main-bench/funfrog\_regression/06\_globals/main5.c --claim 1 --logic prop >> core dumped >>screenshot attached.

### #5 - 04/04/2017 14:51 - Karine Even Mendoza

- % Done changed from 50 to 70

Left only with main5.c - the rest is working.

hifrog: solvers/prop\_itp.cpp:369: void prop\_itpt::generalize(const prop\_conv\_solvert&, const std::vector<symbol\_exprt>&): Assertion `idx >= 0' failed. ./../hifrog\_theory\_ref/hifrog/trunk/cprover/src/funfrog/hifrog --claim 1 main-bench/funfrog\_regression/06\_globals/main5.c --logic prop

### #6 - 02/05/2017 23:22 - Karine Even Mendoza

- % Done changed from 70 to 80

main5.c --logic prop fails in cnf.

The rest is working

#### #7 - 03/05/2017 13:19 - Karine Even Mendoza

Verification failed for all theories for main5.c as well main7.c

### #8 - 10/05/2017 19:56 - Karine Even Mendoza

All ok but main5

**RESULT** 

SOLVER TIME: 0.625 UNSAT - it holds! ASSERTION IS TRUE

Start generating interpolants...

hifrog: solvers/prop\_itp.cpp:370: void prop\_itpt::generalize(const prop\_conv\_solvert&, const std::vector<symbol\_exprt>&): Assertion `idx >= 0 && "Failed to generalize interpolant; Index of represented\_symbol is out of bound" failed.

Aborted (core dumped)

## #9 - 28/05/2017 10:46 - Karine Even Mendoza

Works good for all, except this test case:

./hifrog ../../../hi-bench/main-bench/funfrog\_regression/06\_globals/main5.c --logic prop --claim 2

But for ./hifrog ../../../hi-bench/main-bench/funfrog\_regression/06\_globals/main5.c --logic prop, will work just fine.

## #10 - 05/06/2017 19:33 - Karine Even Mendoza

fixed. Was a bug of cutting the code after the line of assert

## #11 - 05/06/2017 19:34 - Karine Even Mendoza

- Status changed from In Progress to Closed
- % Done changed from 80 to 100

## **Files**

global-main7-prop.png	408 KB	16/03/2017	Sepideh Asadi
global_main5_pop.png	404 KB	16/03/2017	Sepideh Asadi

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