

Retrascope - Bug #10174

nondeterminism at EFSM transitions generation

03/18/2020 06:26 PM - Sergey Smolov

Status:	Verified	Start date:	03/18/2020
Priority:	High	Due date:	
Assignee:	Sergey Smolov	% Done:	100%
Category:	Engine (Transformer)	Estimated time:	0.00 hour
Target version:	1.1	Published in build:	
Detected in build:	git		
Platform:			

Description

Fluctuations appear at EFSM transition number:

```
java.lang.AssertionError: [b05]: 'engine=gadd-efsm-transformer modules=B05 states=313 transitions=482 efsm=3' should end with 'states=313 transitions=480 efsm=3'
    at org.junit.Assert.fail(Assert.java:88)
    at org.junit.Assert.assertTrue(Assert.java:41)
    at ru.ispras.retrascope.engine.gadd.transformer.efsm.VhdlGaddEfsmBenchTest.runTest(VhdlGaddEfsmBenchTest.java:129)
    at ru.ispras.retrascope.engine.gadd.transformer.efsm.VhdlGaddEfsmBenchTest.runTest(VhdlGaddEfsmBenchTest.java:55)
    at ru.ispras.retrascope.engine.gadd.transformer.efsm.VhdlGaddEfsmTestSuite.runTest_b05(VhdlGaddEfsmTestSuite.java:92)
```

Associated revisions

Revision 87f9fa9a - 03/27/2020 08:44 PM - Sergey Smolov

gadd-efsm: bugfix in state gen algorithm (#10174)

Signed-off-by: Sergey Smolov <smolov@ispras.ru>

Revision 3196bfbe - 03/27/2020 10:30 PM - Sergey Smolov

gadd-efsm: complete the bugfix (#10174)

Signed-off-by: Sergey Smolov <smolov@ispras.ru>

History

#1 - 03/26/2020 07:34 PM - Sergey Smolov

Here is an example of EFSM transition that appears non-deterministically:

```
node=((process_0.STATO == 4)) phase=5 => node=((FLAG == 1)) phase=27
{: {(AND (EQ P0_PHASE 00101) (EQ FLAG 1))} -> {{process_0.STATO := 1; P0_PHASE := 11011}}}
```

#2 - 03/27/2020 08:47 PM - Sergey Smolov

- % Done changed from 0 to 100

- Status changed from New to Resolved

#3 - 03/28/2020 12:56 AM - Sergey Smolov

- Status changed from Resolved to Verified