

Verilog Translator - Bug #8804

Exception when dividing 4-bit vector by 32-bit one

04/04/2018 02:26 PM - Alexander Kamkin

Status:	Closed	Start date:	04/04/2018
Priority:	Normal	Due date:	
Assignee:	Alexander Kamkin	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	0.1	Published in build:	
Detected in build:	svn		
Platform:			

Description

-4'd12 % 3 // Result: 1; Comments: -4'd12 is seen as a large positive number that leaves a remainder of 1 when divided by 3.

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veritrans\src\test\verilog\ieee-tests\test_05_01_5_2.v' ...
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java.lang.IllegalArgumentException: Bit vector sizes do not match: 4 != 32.
    at ru.ispras.fortress.data.types.bitvector.BitVectorMath.checkEqualSize(BitVectorMath.java:938
)
    at ru.ispras.fortress.data.types.bitvector.BitVectorMath.smod(BitVectorMath.java:744)
    at ru.ispras.verilog.parser.calculator.VerilogOperations$8.calculate(VerilogOperations.java:18
6)
    at ru.ispras.fortress.calculator.OperationGroup.calculate(OperationGroup.java:145)
    at ru.ispras.fortress.transformer.Reducer$OperationRule.apply(Reducer.java:148)
    at ru.ispras.fortress.transformer.NodeTransformer.applyRule(NodeTransformer.java:166)
    at ru.ispras.fortress.transformer.NodeTransformer.updateNode(NodeTransformer.java:176)
    at ru.ispras.fortress.transformer.NodeTransformer.onOperationEnd(NodeTransformer.java:224)
    at ru.ispras.fortress.expression.ExprTreeWalker.visitOperation(ExprTreeWalker.java:173)
    at ru.ispras.fortress.expression.ExprTreeWalker.visitNode(ExprTreeWalker.java:123)
    at ru.ispras.fortress.expression.ExprTreeWalker.visit(ExprTreeWalker.java:93)
    at ru.ispras.fortress.transformer.NodeTransformer.walk(NodeTransformer.java:54)
    at ru.ispras.fortress.transformer.Reducer.reduce(Reducer.java:184)
    at ru.ispras.fortress.transformer.Reducer.reduce(Reducer.java:249)
    at ru.ispras.verilog.parser.processor.VerilogExprTransformer.reduce(VerilogExprTransformer.jav
a:77)
    at ru.ispras.verilog.parser.model.basis.VerilogExpression.reduce(VerilogExpression.java:337)
    at ru.ispras.verilog.parser.model.basis.VerilogExpression.reduce(VerilogExpression.java:349)
    at ru.ispras.verilog.parser.processor.VerilogProcessorContextUtils.reduceExpression(VerilogPro
cessorContextUtils.java:66)
    at ru.ispras.verilog.parser.processor.VerilogStaticChecker.reduce(VerilogStaticChecker.java:55
1)
    at ru.ispras.verilog.parser.processor.VerilogStaticChecker.checkReference(VerilogStaticChecker
.java:346)
    at ru.ispras.verilog.parser.processor.VerilogStaticChecker.checkReference(VerilogStaticChecker
.java:363)
    at ru.ispras.verilog.parser.processor.VerilogStaticChecker.checkReference(VerilogStaticChecker
.java:385)
    at ru.ispras.verilog.parser.processor.VerilogStaticChecker.onAssignStatementBegin(VerilogStati
cChecker.java:109)
    at ru.ispras.verilog.parser.walker.VerilogNodeVisitor$3.onBegin(VerilogNodeVisitor.java:265)
    at ru.ispras.verilog.parser.walker.VerilogNodeVisitor.onBegin(VerilogNodeVisitor.java:700)
    at ru.ispras.verilog.parser.core.TreeWalker.onBegin(TreeWalker.java:100)
    at ru.ispras.verilog.parser.core.TreeWalker.start(TreeWalker.java:85)
    at ru.ispras.verilog.parser.VerilogSyntaxBackend.start(VerilogSyntaxBackend.java:80)
    at ru.ispras.verilog.parser.VerilogSyntaxBackends.start(VerilogSyntaxBackends.java:56)
    at ru.ispras.verilog.parser.VerilogTranslator.start(VerilogTranslator.java:163)
    at ru.ispras.verilog.parser.sample.VerilogPrinter.main(VerilogPrinter.java:51)
    at ru.ispras.verilog.parser.VerilogIeeeTestCase.runTest(VerilogIeeeTestCase.java:93)
    at ru.ispras.verilog.parser.VerilogIeeeTestCase.runTest(VerilogIeeeTestCase.java:79)
    at ru.ispras.verilog.parser.VerilogIeeeTestCase.runTest_05_01_5_2(VerilogIeeeTestCase.java:71)
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at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)
at java.lang.reflect.Method.invoke(Unknown Source)
at org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:47)
at org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
at org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:44)
at org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
at org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:271)
at org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:70)
at org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:50)
at org.junit.runners.ParentRunner$3.run(ParentRunner.java:238)
at org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:63)
at org.junit.runners.ParentRunner.runChildren(ParentRunner.java:236)
at org.junit.runners.ParentRunner.access$000(ParentRunner.java:53)
at org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:229)
at org.junit.runners.ParentRunner.run(ParentRunner.java:309)
at org.eclipse.jdt.internal.junit4.runner.JUnit4TestReference.run(JUnit4TestReference.java:86)
at org.eclipse.jdt.internal.junit.runner.TestExecution.run(TestExecution.java:38)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:459)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.runTests(RemoteTestRunner.java:678)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.run(RemoteTestRunner.java:382)
at org.eclipse.jdt.internal.junit.runner.RemoteTestRunner.main(RemoteTestRunner.java:192)
```

History

#1 - 04/17/2018 03:37 PM - Alexander Kamkin

- Status changed from *New* to *Resolved*

Fix in Fortress.

#2 - 05/28/2018 04:09 PM - Alexander Kamkin

- Status changed from *Resolved* to *Closed*