

MicroTESK - Task #5785

Too much diagnostics on misprintings

03/30/2015 06:07 PM - Mikhail Chupilko

Status:	Closed	Start date:	03/30/2015
Priority:	Normal	Due date:	
Assignee:	Andrei Tatarnikov	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	2.2	Spent time:	0.00 hour
Detected in build:	svn	Published in build:	

Description

Usage of logical NOT instead of bitwise NOT results in a sheet of diagnostics. Only are the first two sentences meaningful.

```
rd = (top & !ltmask) | (bot & ltmask);
```

```
armv8.nml 1303:16 ERROR (SEMANTIC): "The Type.CARD(64) type is not supported by the ! operator."  
armv8.nml 1303:16 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored  
: '!ltmask'."
```

```
armv8.nml 1303:14 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored  
: '(top&!ltmask)'."
```

```
armv8.nml 1303:25 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored  
: '(top&!ltmask)|(bot&ltmask)'."
```

```
armv8.nml 1303:25 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored  
: '(top&!ltmask)|(bot&ltmask)'."
```

```
armv8.nml 1303:7 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'rd=(top&!ltmask)|(bot&ltmask)'."
```

```
armv8.nml 1291:4 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'rd=(top&!ltmask)|(bot&ltmask)'."
```

```
armv8.nml 1291:4 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'{ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);  
elsedst=rd;endif;src=rn;bot=(dst&~lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelseto  
p=dst;endif;rd=(top&!ltmask)|(bot&ltmask);}'."
```

```
armv8.nml 1307:0 ERROR (TREWALKER): "C:\work\microtesk\src\main\java\core\ru\ispras\microtesk\tra  
nslator\simnml\grammar\SimnMLTreeWalker.g: node from line 1307:0  
mismatched tree node: op expecting <UP>"
```

```
armv8.nml 1290:2 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);  
elsedst=rd;endif;src=rn;bot=(dst&~lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelseto  
p=dst;endif;rd=(top&!ltmask)|(bot&ltmask);}'."
```

```
armv8.nml 1289:3 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);  
elsedst=rd;endif;src=rn;bot=(dst&~lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelseto  
p=dst;endif;rd=(top&!ltmask)|(bot&ltmask);}'."
```

```
armv8.nml 1289:3 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:  
'opBitFieldsGeneral(rd:REG,rn:REG,lwmask:card(64),ltmask:card(64))  
action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);elsedst=rd;endif;src=rn;bot=(dst&~lw  
mask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelsetop=dst;endif;  
rd=(top&!ltmask)|(bot&ltmask);}'."
```

I suggest reducing the log.

The processing of the following a bit more complicated expression with incorrect NOT results in much more severe fall.

```
bot = (dst & !lwmask) | ((src >>> R) & lwmask);
```

```
armv8.nml 1297:17 ERROR (SEMANTIC): "The Type.CARD(64) type is not supported by the ! operator."
```

```

armv8.nml 1297:17 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored
: '!lwmask'."
armv8.nml 1297:15 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored
: '(dst&!lwmask)'."
armv8.nml 1297:26 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored
: '(dst&!lwmask)|((src>>>R)&lwmask)'."
armv8.nml 1298:4 ERROR (TREWALKER): "C:\work\microtesk\src\main\java\core\ru\ispras\microtesk\tra
nslator\simnml\grammar\SimnMLTreeWalker.g:
node from line 1298:4 mismatched tree node: if expecting <UP>"

armv8.nml 1297:8 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'bot=(dst&!lwmask)|((src>>>R)&lwmask)'."
armv8.nml 1291:4 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'bot=(dst&!lwmask)|((src>>>R)&lwmask)'."
armv8.nml 1291:4 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'{ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);
elsestd=rd;endif;src=rn;bot=(dst&!lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelseto
p=dst;endif;rd=(top&~ltmask)|(bot&ltmask);}'."

armv8.nml 1290:2 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0)
;elsestd=rd;endif;src=rn;bot=(dst&!lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelset
op=dst;endif;rd=(top&~ltmask)|(bot&ltmask);}'."

armv8.nml 1289:3 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);
elsestd=rd;endif;src=rn;bot=(dst&!lwmask)|((src>>>R)&lwmask);ifextend==coerce(card(1),1)thenelseto
p=dst;endif;rd=(top&~ltmask)|(bot&ltmask);}'."

armv8.nml 1289:3 ERROR (SEMANTIC): "Failed to recognize the grammar structure. It will be ignored:
'opBitFieldGeneral(rd:REG,rn:REG,lwmask:card(64),
ltmask:card(64))action={ifinzero==coerce(card(1),1)thendst=coerce(card(64),0);elsestd=rd;endif;src
=rn;bot=(dst&!lwmask)|((src>>>R)&lwmask);
ifextend==coerce(card(1),1)thenelsetop=dst;endif;rd=(top&~ltmask)|(bot&ltmask);}'."

armv8.nml 1346:4 ERROR (SEMANTIC): "The 'BitFieldGeneral' primitive is not defined or does not hav
e the 'OP' type."
*****
ATTENTION! An unexpected error has occurred:
java.lang.NullPointerException: null

The program will be terminated. Please contact us at:
microtesk-support@ispras.ru

We are sorry for the inconvenience.

Exception stack:
ru.ispras.microtesk.translator.simnml.ir.primitive.StatementFactory.createAttributeCall(Unknown So
urce)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.attributeCallStatement(Unknown Sour
ce)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.statement(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.sequence(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.actionDef(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.attrDef(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.attrDefList(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.opSpecPart(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.opDef(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.procSpec(Unknown Source)
ru.ispras.microtesk.translator.simnml.grammar.SimnMLTreeWalker.startRule(Unknown Source)
ru.ispras.microtesk.translator.simnml.SimnMLAnalyzer.startParserAndWalker(Unknown Source)
ru.ispras.microtesk.translator.simnml.SimnMLAnalyzer.start(Unknown Source)
ru.ispras.microtesk.translator.simnml.SimnMLAnalyzer.start(Unknown Source)
ru.ispras.microtesk.MicroTESK.translate(Unknown Source)
ru.ispras.microtesk.MicroTESK.main(Unknown Source)
*****

```

It asks me to contact the support team.

History

#1 - 03/31/2015 10:18 AM - Alexander Kamkin

- *Target version set to 2.2*

#2 - 03/31/2015 03:06 PM - Andrei Tatarnikov

r3405.

#3 - 03/31/2015 03:44 PM - Andrei Tatarnikov

r3407.

#4 - 07/10/2015 06:26 PM - Andrei Tatarnikov

- *Status changed from New to Resolved*

Reduced as possible. In the current implementation, I cannot handle it better.

#5 - 07/10/2015 06:30 PM - Andrei Tatarnikov

- *Status changed from Resolved to New*

#6 - 11/11/2019 05:36 PM - Alexander Kamkin

- *Status changed from New to Closed*