

MicroTESK - Bug #10653

MicroTESK mode: IsaPrimitive cannot be converted

12/28/2020 08:17 PM - Alexander Protsenko

Status:	New	Start date:	12/28/2020
Priority:	Normal	Due date:	
Assignee:	Alexander Kamkin	% Done:	0%
Category:	nML Translator	Estimated time:	0.00 hour
Target version:	2.5	Spent time:	0.00 hour
Detected in build:	git	Published in build:	
Platform:			

Description

Пример кода:

```
reg RRR [256, LONG]

mode V4 (i: card(4)) = RRR[i]
  syntax = format("v%s", i)
  image = format("%4s", i)

mode V8 (i: card(8)) = RRR[i]
  syntax = format("v%s", i)
  image = format("%8s", i)

mode VX = V8
  | V4

let MOV_OPCODE = 0x1

internal op mov_bug (opcode: card(8), vd: VX, vs: VX)
  syntax = format("mov %s, %s", vd.syntax, vs.syntax)
  image = format("%8s%s%s", opcode, vd.image, vs.image)
  action = {
    vd = vs;
  }

op mov_bug_v4 (vd: V4, vs: V4)
  syntax = format("%s", mov_bug(MOV_OPCODE, vd, vs).syntax)
  image = format("%s", mov_bug(MOV_OPCODE, vd, vs).image)
  action = {
    mov_bug(MOV_OPCODE, vd, vs).action;
  }
```

Ошибка:

```
MicroTESK\microtesk-mips64\build\generated-src\models\src\java\ru\ispras\microtesk\model\mips64\decoder\DecoderMov_bug_v4.java:69: error: incompatible types: IsaPrimitive cannot be converted to V4
    vd = mov_bug_instance.vd;
    ^
```

```
MicroTESK\microtesk-mips64\build\generated-src\models\src\java\ru\ispras\microtesk\model\mips64\decoder\DecoderMov_bug_v4.java:70: error: incompatible types: IsaPrimitive cannot be converted to V4
    vs = mov_bug_instance.vs;
    ^
```

2 errors

FAILURE: Build failed with an exception.

History

#1 - 12/29/2020 06:32 PM - Alexander Kamkin

```
image = format("%s", mov_bug(MOV_OPCODE, vd, vs).image) -> image = mov_bug(MOV_OPCODE, vd, vs).image
```

#2 - 12/30/2020 10:24 AM - Alexander Protsenko

```
op mov_bug_v4 (vd: V4, vs: V4)
  syntax = format("%s", mov_bug(MOV_OPCODE, vd, vs).syntax)
  image = mov_bug(MOV_OPCODE, vd, vs).image
  action = {
    mov_bug(MOV_OPCODE, vd, vs).action;
  }
```

```
mips64_mmu.nml 54:18 ERROR (PARSER): "MicroTESK\microtesk-mips64\build\target\arch\mips64\model\mips64_mmu.nml
line 54:18 mismatched input '(' expecting DOT"
mips64_mmu.nml 54:29 ERROR (PARSER): "MicroTESK\microtesk-mips64\build\target\arch\mips64\model\mips64_mmu.nml
line 54:29 mismatched input ',' expecting ASSIGN"
*****
```

```
ATTENTION! An unexpected error has occurred:
org.antlr.runtime.tree.RewriteEmptyStreamException: rule attrDef
```

```
The program will be terminated. Please contact us at:
microtesk-support@ispras.ru
We are sorry for the inconvenience.
```

Exception stack:

```
org.antlr.runtime.tree.RewriteEmptyStreamException: rule attrDef
  at org.antlr.runtime.tree.RewriteRuleElementStream._next (RewriteRuleElementStream.java:158)
  at org.antlr.runtime.tree.RewriteRuleElementStream.nextTree (RewriteRuleElementStream.java:145)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.attrDefRev (NmlParser.java:3149)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.attrDefList (NmlParser.java:3028)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.opDef (NmlParser.java:2098)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.procSpec (NmlParser.java:591)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.procSpecRev (NmlParser.java:388)
  at ru.ispras.microtesk.translator.nml.grammar.NmlParser.startRule (NmlParser.java:283)
  at ru.ispras.microtesk.translator.nml.NmlTranslator.startParserAndWalker (NmlTranslator.java:156)
  at ru.ispras.microtesk.translator.nml.NmlTranslator.start (NmlTranslator.java:126)
  at ru.ispras.microtesk.translator.Translator.translate (Translator.java:201)
  at ru.ispras.microtesk.MicroTESK.translate (MicroTESK.java:150)
  at ru.ispras.microtesk.MicroTESK.runTask (MicroTESK.java:142)
  at ru.ispras.microtesk.MicroTESK.main (MicroTESK.java:80)
```

```
*****
```