

## MicroTESK for PowerPC - Bug #9386

ru.ispras.microtesk.model.powerpc.InstructionALUTestCase: Assembler messages:

./microtesk-powerpc/build/test/instruction\_alu/instruction\_alu\_0000.s:1: Error: junk at end of line, first unrecognized character is `/'

11/13/2018 05:49 PM - Sergey Smolov

<b>Status:</b>	Closed	<b>Start date:</b>	11/13/2018
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Sergey Smolov	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Published in build:</b>	
<b>Detected in build:</b>	master		
<b>Platform:</b>			

### Description

Wrong PPC32 assembly code is generated:

```
java.lang.AssertionError: Process has returned 1: [/usr/bin/powerpc-linux-gnu-as, /home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s, -o, /home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.o];
```

Error log is: /home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction\_alu/instruction\_alu\_0000.s: Assembler messages:

```
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:1: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:2: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:3: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:4: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:5: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:6: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:7: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:8: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:9: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:10: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:11: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:12: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:14: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:15: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:17: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:27: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:28: Error: junk at end of line, first unrecognized character is `/'
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:58: Error: operand out of range (40 is not between 0 and 31)
```

























```
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:191: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:191: Error: unsupported relocation against r23
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:192: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:192: Error: unsupported relocation against r22
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:192: Error: unsupported relocation against r21
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:193: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:193: Error: unsupported relocation against r23
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:193: Error: unsupported relocation against r21
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:194: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:194: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:194: Error: unsupported relocation against r22
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:195: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:195: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:195: Error: unsupported relocation against r21
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:196: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:196: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:196: Error: unsupported relocation against r22
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:197: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:197: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:197: Error: unsupported relocation against r21
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:198: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:198: Error: unsupported relocation against r24
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_a
lu_0000.s:198: Error: unsupported relocation against r21
```

```
at org.junit.Assert.fail (Assert.java:88)
at ru.ispras.microtesk.model.powerpc.PowerPCTest.runCommand (PowerPCTest.java:546)
at ru.ispras.microtesk.model.powerpc.PowerPCTest.runCommand (PowerPCTest.java:480)
at ru.ispras.microtesk.model.powerpc.PowerPCTest.compile (PowerPCTest.java:381)
at ru.ispras.microtesk.model.powerpc.PowerPCTest.compileAndEmulate (PowerPCTest.java:283)
```

To reproduce the bug install **gcc-powerpc-linux-gnu** package and set *PPC32\_TCHAIN* environment variable before running **InstructionALUTestCase** test case.

## History

#1 - 11/14/2018 10:12 AM - Alexander Protsenko

- Assignee changed from Alexander Protsenko to Sergey Smolov

- Status changed from New to Feedback

Bugs fixed.

Need more info about:

```
/home/ssedai/projects/microtesk-powerpc/microtesk-powerpc/build/test/instruction_alu/instruction_alu_0000.s:58  
: Error: operand out of range (40 is not between 0 and 31)
```

It's

```
extrwi. 14, 10, 15, 25
```

The "40" was not found.

**#2 - 11/14/2018 12:14 PM - Sergey Smolov**

- Status changed from *Feedback* to *Resolved*

Fixed in [44e3639](#)

**#3 - 02/14/2019 11:07 AM - Sergey Smolov**

- Status changed from *Resolved* to *Verified*

**#4 - 02/14/2019 11:08 AM - Sergey Smolov**

- Status changed from *Verified* to *Closed*