

Saxon - Bug #4887

Question about the tracing functionality of Saxon

2021-01-29 16:36 - Maarten Kroon

Status:	Closed	Start date:	2021-01-29
Priority:	Normal	Due date:	
Assignee:	Michael Kay	% Done:	100%
Category:	Diagnostics	Estimated time:	0:00 hour
Sprint/Milestone:		Spent time:	0:00 hour
Legacy ID:		Fix Committed on Branch:	10, trunk
Applies to branch:	10, trunk	Fixed in Maintenance Release:	10.5

Description

I have a question about the tracing functionality of Saxon 10.3 (Java). My own custom Tracelister but also the standard XSLTTraceListener does not seem to trace expressions within templates that have a match attribute but do not have a name attribute.

I made a simple test case. My input document is:

```
<test/>
```

My stylesheet is:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="3.0">
  <xsl:template match="/">
    <root>
      <xsl:call-template name="test1"/>
      <xsl:apply-templates/>
    </root>
  </xsl:template>

  <xsl:template name="test1">
    <xsl:sequence select="trace('tracel', 'tracel')"/>
    <test1>TEST1</test1>
  </xsl:template>

  <xsl:template match="/*">
    <xsl:sequence select="trace('trace2', 'trace2')"/>
    <test2>TEST2</test2>
  </xsl:template>
</xsl:stylesheet>
```

I run the transformation with:

```
java -jar saxon-he-10.3.jar -s:test.xml -xsl:test.xml -T:net.sf.saxon.trace.XSLTTraceListener -Tlevel:high -o:out.xml -traceout:trace.xml
```

The expressions within the template with name "test1" are traced, but the expressions within template with match="/*" are not.

But if I add a name attribute to the template with match="/*" like this:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="3.0">
  <xsl:template match="/">
    <root>
      <xsl:call-template name="test1"/>
      <xsl:apply-templates/>
    </root>
  </xsl:template>
```

```
<xsl:template name="test1">
  <xsl:sequence select="trace('trace1', 'trace1')"/>
  <test1>TEST1</test1>
</xsl:template>

<xsl:template name="unused" match="/*">
  <xsl:sequence select="trace('trace2', 'trace2')"/>
  <test2>TEST2</test2>
</xsl:template>

</xsl:stylesheet>
```

the expressions in template with mach="/*" are traced. How can I trace expressions within a template that only has a match attribute but not a name attribute?

I noticed that the trace functionality of Saxon 9.9.1 does indeed trace expressions within templates that have no name.

Kind regards, Maarten

History

#1 - 2021-03-30 13:49 - Michael Kay

- *Tracker changed from Support to Bug*
- *Category set to Diagnostics*
- *Assignee set to Michael Kay*
- *Priority changed from Low to Normal*

Sorry about the delay in responding.

On first attempts, I wasn't able to reproduce this. It turns out the problem only happens in Saxon-HE.

#2 - 2021-03-30 14:07 - Michael Kay

- *Status changed from New to Resolved*
- *Applies to branch 10, trunk added*
- *Fix Committed on Branch 10, trunk added*

Now fixed.

The problem also affected EE when run with `-jit:off`; trace code was being injected into template rules only when JIT-compiled, not when eagerly compiled.

#3 - 2021-04-14 17:49 - O'Neil Delpratt

- *Status changed from Resolved to Closed*
- *% Done changed from 0 to 100*
- *Fixed in Maintenance Release 10.5 added*

Bug fix applied to Saxon 10.5 maintenance release.