

Saxon-CE - Bug #1545

Basic Arithmetic goes wrong

2012-05-31 11:55 - Manfred Staudinger

Status:	Closed	Start date:	2012-05-31
Priority:	Normal	Due date:	
Assignee:	Philip Fearon	% Done:	100%
Category:		Estimated time:	0:00 hour
Sprint/Milestone:	Release 1.1	Spent time:	0:00 hour
Description			
Consider:			
$(546 * 1552.244) + 175917.984 = 10234432.07$ wrong			
$\text{round}((546 * 1552.244) + 175917.984) = 1023443$ correct			

History

#1 - 2012-05-31 13:03 - Philip Fearon

Thanks for reporting this, I'm looking at it now...

#2 - 2012-05-31 17:44 - Philip Fearon

- Status changed from New to Resolved
- Found in version set to Beta 0.2

This has now been resolved. The issue affected the conversion of Double to string values for numbers between 1.0E6 and 1.0E7 and was due to a disparity between GWT number handling in developer and production modes in this particular case.

#3 - 2012-06-12 07:41 - Philip Fearon

- Assignee set to Philip Fearon
- Priority changed from Low to Normal
- Sprint/Milestone set to Release 1.0

#4 - 2012-06-19 07:10 - Philip Fearon

- % Done changed from 0 to 100

#5 - 2012-06-19 07:55 - Manfred Staudinger

- File `svg-t5-011.svg` added
- File `svg-t5-011.xhtml` added
- File `svg-t5-011.xml` added
- File `svg-t5-browser-v2.xsl` added
- File `svg-t5-browser-v2-test.xsl` added

Original test case was maybe too simple. If I click on no. 27 the error still shows up.

#6 - 2012-06-19 08:38 - Philip Fearon

- Status changed from Resolved to In Progress

Ok thanks, I'll check this out

#7 - 2012-06-19 09:49 - Philip Fearon

Almost there, but the transform won't run because we're missing the file: `svg-t5-tab.xml` (from the parent directory) - could you send this also please? I've also had to create a dummy `'html-hide.png'` file - but hopefully this doesn't adversely affect the UI for the test.

#8 - 2012-06-19 10:16 - Manfred Staudinger

- File `svg-t5-tab.xml` added

- File *svg-t5.css* added
- File *html-hide.png* added
- File *html-show.png* added

Sorry, but now it should be complete.

#9 - 2012-06-19 10:58 - Philip Fearon

Thanks, the XSLT runs fine now - this is the output (from Saxon-CE 1.0 in Chrome) I get when clicking 27:

SaxonCE.Message 11:29:17.753

INFO: wrong? 1.493757383E6 correct: 1493757

SaxonCE.Message 11:29:17.754

INFO: wrong: 1.023443208E6 correct: 1023443

The part you've marked wrong? is actually the expected result according to the XSLT 2.0 specification (the initial problem in beta 0.2 with the wrong value was with the order of magnitude being out by 1). In this case, the only difference between the 2 numbers is due to the effect of rounding. There is a difference in formatting but this is because the XSLT 2.0 formatting rules for *xs:double* requires the use of the exponent E for numbers greater than 1 million - whereas for *xs:integer* (which you get after rounding) the rule doesn't apply. If you want to format an *xs:double* another way you can use the *format-number()* function.

Is that Ok, are you seeing the same result as this - or am I missing something else?

#10 - 2012-06-19 12:49 - Manfred Staudinger

Sorry for the noise: I forgot to update the server! I now get the same messages as you and this is what I expected.

#11 - 2012-06-19 14:17 - Philip Fearon

- Status changed from *In Progress* to *Resolved*

No problem - I'll revert the ticket status to *Resolved*.

#12 - 2013-02-22 11:00 - O'Neil Delpratt

- Status changed from *Resolved* to *Closed*

- *Sprint/Milestone* changed from *Release 1.0* to *Release 1.1*

- *Found in version* changed from *Beta 0.2* to *1.0*

- *Fixed in version* set to *1.1*

Bug fixed for Saxon-CE version 1.1 release

Files

test.xsl	735 Bytes	2012-05-31	Manfred Staudinger
test.xhtml	11.6 KB	2012-05-31	Manfred Staudinger
test.svg	640 Bytes	2012-05-31	Manfred Staudinger
svg-t5-011.svg	640 Bytes	2012-06-19	Manfred Staudinger
svg-t5-011.xhtml	11.5 KB	2012-06-19	Manfred Staudinger
svg-t5-011.xml	44.6 KB	2012-06-19	Manfred Staudinger
svg-t5-browser-v2.xsl	18 KB	2012-06-19	Manfred Staudinger
svg-t5-browser-v2-test.xsl	7.59 KB	2012-06-19	Manfred Staudinger
svg-t5-tab.xml	2.04 KB	2012-06-19	Manfred Staudinger
svg-t5.css	562 Bytes	2012-06-19	Manfred Staudinger
html-hide.png	535 Bytes	2012-06-19	Manfred Staudinger
html-show.png	523 Bytes	2012-06-19	Manfred Staudinger