

Re: C# Static string appending problem.

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*Source:*

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2007-03/msg04103.html>

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- *From:* "Nicholas Paldino [.NET/C# MVP]" <[mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Mon, 26 Mar 2007 17:29:46 -0400
- 

BA,

That's the thing, I see no static members, and no recursive calls, so it looks fine to me.

Can't you run this through a debugger and see what is going on?

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- Nicholas Paldino [.NET/C# MVP]
- [mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

"BA" <[biztalk.architect@xxxxxxxx](mailto:biztalk.architect@xxxxxxxx)> wrote in message  
<news:uvM%23Xh%23bHHA.4720@xxxxxxxxxxxxxxxxxxxxxxxx>

Nicholas,

Thanks for having a look. Good suggestion about the throw, I will use it.

Regarding the content. I am 100% sure that the data going in is a single instance. It would break in BizTalk with a host of errors such as multiple root nodes, etc and would also break in the business rules engine where this code is called. To be 100% sure I wrote out all the input statements in the first line of code to see what was there and they looked normal. Additionally, notice how the "assert" statement which should appear first only appears first in the first pass. The remaining passes have something built up which is being dumped out when the code executes multiple times.

I just cant figure out what is causing this.

Do you have any other suggestions about what could be causing this?

Thanks,  
BA

Re: C# Static string appending problem.

"Nicholas Paldino [.NET/C# MVP]" <mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message [news:e3FYsV%23bHHA.2120@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:e3FYsV%23bHHA.2120@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

BA,

It doesn't look like you are doing anything (like storing a static variable) which would cause this to happen. Because of that, I would have to assume that your xpath expression that is being passed to the method is producing duplicate lines, or your XML document has the extra lines the second time around.

In other words, it's not the code, it's the input.

One thing I did notice, in your try/catch block, you have the line "throw e". You should change that to just "throw" so that the original stack trace information is retained, unless you ^want^ the stack trace information to start from the place where you re-throw the exception.

Hope this helps.

--  
- Nicholas Paldino [.NET/C# MVP]  
- mvp@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

"BA" <biztalk.architect@xxxxxxxx> wrote in message [news:%23AH9SM%23bHHA.4872@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23AH9SM%23bHHA.4872@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Hello,

I have a very strange code behavior that I cannot make heads or tails of:

I have c# code being executed in BizTalk assemblies which is acting very strangely.

In my BizTalk process I call a static method:

```
public static string ValidateMessage(params...)
```

When I call this method the FIRST TIME, everything is fine, and the DebugView outputs the following...

```
AL.TechSvs.Procurement.Support ::  
BusinessRulesVerification ASSERTED  
AL.TechSvs.Procurement.Support ::  
BusinessRulesVerification ::
```

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```
VerifyPOLineUnique STARTED
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO NUM =
V360006300001000
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO lines
> 0
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: all
lines are unique
```

Then it gets strange.... when I execute it a second time, I get:

```
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification ::
VerifyPOLineUnique STARTED
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO NUM =
V360006300001000
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO lines
> 0
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: all
lines are unique
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification ASSERTED
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification ::
VerifyPOLineUnique STARTED
```

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```
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO NUM =  
V360006300001000  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO lines  
> 0  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: all  
lines are unique
```

A third time I get:

```
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification ::  
VerifyPOLineUnique STARTED  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO NUM =  
V360006300001000  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO lines  
> 0  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: looping  
thru lines  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: all  
lines are unique  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification ::  
VerifyPOLineUnique STARTED  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO NUM =  
V360006300001000  
AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification :: PO lines
```

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```
> 0
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: all
lines are unique
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification ASSERTED
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification ::
VerifyPOLineUnique STARTED
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO NUM =
V360006300001000
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO lines
> 0
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: looping
thru lines
AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: all
lines are unique
```

And so on... It keeps piggy-backing these past method calls and I don't know why!

If I restart the BizTalk host, the first call behaves normally as described above and then this problem begins again.

Someone suggested there was something static is being appended, but I cant see it in the code. If you see something, please let me know. The reason I

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tend to agree is because the line  
"AL.TechSvcs.Procurement.Support ::  
BusinessRulesVerification ASSERTED " appears 2/3 of the  
way thru and its  
the  
very first thing which is done when the code is executed. It  
does not  
appear that the logic is executing 3x, just the output to the  
debug  
view.

If there is something appended, where am I allowing this to  
happen in  
the code below?

```
using System;
using System.Xml;
using System.Collections.Generic;
using System.Text;
using System.Collections;
using System.Diagnostics;
using Microsoft.RuleEngine;

namespace AL.TechSvcs.Procurement.Support
{

    public class BusinessRulesVerification
    {
        public BusinessRulesVerification()
        {
            Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
            BusinessRulesVerification ASSERTED");
        }

        public static string
        VerifyPOLineUnique(TypedXmlDocument
        rootNode, string PoNum, string xpath, string xLineNum)
        {
            XmlNodeList PoLines;

            try
            {
                Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
                BusinessRulesVerification :: VerifyPOLineUnique
                STARTED");
                Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
                BusinessRulesVerification :: PO NUM = " + PoNum);

                PoLines =
                rootNode.Document.SelectNodes(String.Format(xpath,
```

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```
PoNum));

if (PoLines.Count > 0)
{

Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: PO lines > 0");

//PUT MATCHING PO NUMBERS IN AN ARRAY
ArrayList arrLineNums = new ArrayList();
foreach (XmlNode node in PoLines)
{
Debug.WriteLine("AL.TechSvcs.Procurement.Support
:: BusinessRulesVerification :: looping thru lines");

arrLineNums.Add(node.SelectSingleNode(xLineNum).InnerText);
}

int i, j;

for (i = 0; i < arrLineNums.Count - 1; i++)
{
for (j = i + 1; j < arrLineNums.Count; j++)
{
if (arrLineNums[i].Equals(arrLineNums[j]))
{

Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: found non-unique line !!");

return "False";
}
}
}
Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: all lines are unique");

return "True";
}
else
{
Debug.WriteLine("AL.TechSvcs.Procurement.Support ::
BusinessRulesVerification :: no PO lines found");
return string.Empty;
}
}

catch (Exception e)
{
Debug.WriteLine(exception.ToString());
```

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```
EventLog.WriteEntry("Biztalk", String.Format("Error  
occured when trying to find unique PO lines. Return empty  
string"),  
EventLogEntryType.Error);  
throw e;  
}  
  
}  
}  
}
```

If anyone has seen this or knows what I am doing wrong,  
please help.

Thanks,

BA