

## Saxon - Bug #3798

### .NET API gives "java.lang.UnsupportedOperationException: An array does not have a string value" for XQueryEvaluator.Run method of XQuery returning an array while the Java API with XQueryEvaluator.run works

2018-05-30 13:05 - Martin Honnen

<b>Status:</b>	Closed	<b>Start date:</b>	2018-05-30
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	O'Neil Delpratt	<b>% Done:</b>	100%
<b>Category:</b>	.NET API	<b>Estimated time:</b>	0:00 hour
<b>Sprint/Milestone:</b>	9.8.0.12	<b>Spent time:</b>	0:00 hour
<b>Legacy ID:</b>		<b>Fixed in Maintenance Release:</b>	9.8.0.14
<b>Applies to branch:</b>	9.8, trunk	<b>Platforms:</b>	
<b>Fix Committed on Branch:</b>	9.8, trunk		

#### Description

I experience a difference between the Java and the .NET API when using XQueryEvaluator.run/XQueryEvaluator.Run with an XQuery returning an XDM array, a simple test case in C# is

```
Processor processor = new Processor(false);
XQueryCompiler compiler = processor.NewXQueryCompiler();

string query = "[[1, 2, 3], [4, 5, 6]]";

XQueryEvaluator evaluator = compiler.Compile(query).Load();

Serializer serializer = processor.NewSerializer(Console.Out);

evaluator.Run(serializer);
```

and unfortunately gives an unhandled exception

Unbehandelte Ausnahme: java.lang.UnsupportedOperationException: An array does not have a string value

```
bei net.sf.saxon.ma.arrays.SimpleArrayItem.GetStringValueCS()
bei net.sf.saxon.serialize.UncommittedSerializer.append(Item item, Location locationId, Int32 copyNamespaces)
bei net.sf.saxon.expr.Expression.process(XPathContext context)
bei net.sf.saxon.query.XQueryExpression.run(DynamicQueryContext env, Result result, Properties outputProperties)
bei Saxon.Api.XQueryEvaluator.Run(XmlDestination destination)
```

(tested with Saxon .NET 9.8.0.12 HE) while the Java transcription

```
Processor processor = new Processor(false);
XQueryCompiler compiler = processor.newXQueryCompiler();

String query = "[[1, 2, 3], [4, 5, 6]]";

XQueryEvaluator evaluator = compiler.compile(query).load();

Serializer serializer = processor.newSerializer(System.out);

evaluator.run(serializer);
```

does not give any exception and flattens the array according to the XML output method and outputs

```
<?xml version="1.0" encoding="UTF-8"?>1 2 3 4 5 6
```

Is there any reason that the .NET API does not handle this XQuery the same as the Java API?

Does the fix for <https://saxonica.plan.io/issues/3578> also fix this .NET issue?

## History

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### #1 - 2018-05-30 18:00 - Michael Kay

- Assignee set to O'Neil Delpratt

### #2 - 2018-06-05 13:56 - O'Neil Delpratt

- Status changed from New to Resolved

- % Done changed from 0 to 100

- Applies to branch 9.8, trunk added

- Fix Committed on Branch 9.8, trunk added

The fix from [#3578](#) was not complete. Problem is the output properties being overwritten in the Run method of XQueryEvaluator class.

Bug fixed and committed to subversion.

### #3 - 2018-07-25 13:44 - Debbie Lockett

- Status changed from Resolved to Closed

- Fixed in Maintenance Release 9.8.0.14 added

Bug fix applied in the Saxon 9.8.0.14 maintenance release.