

## Saxon - Bug #4558

### NullPointerException reloading reflexive extension function from SEF file

2020-05-19 19:28 - Michael Kay

<b>Status:</b>	Closed	<b>Start date:</b>	2020-05-19
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Michael Kay	<b>% Done:</b>	100%
<b>Category:</b>	Saxon extensions	<b>Estimated time:</b>	0:00 hour
<b>Sprint/Milestone:</b>		<b>Spent time:</b>	0:00 hour
<b>Legacy ID:</b>		<b>Fixed in Maintenance Release:</b>	10.2
<b>Applies to branch:</b>	10	<b>Platforms:</b>	
<b>Fix Committed on Branch:</b>	10		

#### Description

```
java.lang.NullPointerException
    at com.saxonica.config.JavaExtensionLibrary.getConversionPreference(JavaExtensionLibrary.java:701)
    at com.saxonica.config.JavaExtensionLibrary.getConversionPreferences(JavaExtensionLibrary.java:634)
    at com.saxonica.config.JavaExtensionLibrary.getBestFit(JavaExtensionLibrary.java:511)
    at com.saxonica.config.JavaExtensionLibrary.access$000(JavaExtensionLibrary.java:44)
    at com.saxonica.config.JavaExtensionLibrary$UnresolvedExtensionFunctionCall.resolve(JavaExtensionLibrary.java:1160)
    at com.saxonica.trans.PackageLoaderPE.lambda$static$8(PackageLoaderPE.java:178)
    at net.sf.saxon.trans.PackageLoaderHE.loadExpression(PackageLoaderHE.java:1075)
```

reported by email to support@ on 16 May 2020

#### History

##### #1 - 2020-05-19 19:37 - Michael Kay

Problem reproduced. It arises because the call on `Q{java:java.text.SimpleDateFormat}format($date)` is ambiguous and needs to be resolved using type information, and the type information has not been reconstructed in the rebuilt expression tree.

##### #2 - 2020-05-19 20:01 - Michael Kay

The SEF file has the call as

```
<javaCall name='Q{java:java.text.SimpleDateFormat}format' arg0type='1X' arg1type='1X'>
```

where 1X denotes simply "external Java Object". The importer is expecting additional information here relating to the Java class.

I have fixed the problem by changing both the export and import logic to enable the types to be reconstructed.

##### #3 - 2020-05-19 20:02 - Michael Kay

- Status changed from New to Resolved

- Fix Committed on Branch 10 added

Extended both the import and export logic in AlphaCode.java.

##### #4 - 2020-08-26 10:23 - O'Neil Delpratt

- % Done changed from 0 to 100

- Fixed in Maintenance Release 10.2 added

Bug fix applied in the Saxon 10.2 maintenance release.

##### #5 - 2020-08-26 10:30 - O'Neil Delpratt

- Status changed from Resolved to Closed

