Saxon - Bug #4851

A compiled SEF package containing a CoercedFunction cannot be loaded by Saxon-PE

2020-12-04 16:38 - Michael Kay

Status:	Closed		**Start date:**	2020-12-04
Priority:	Normal		**Due date:**	
Assignee:	Michael Kay		**% Done:**	100%
Category:	XSLT export		**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

A compiled SEF package containing a CoercedFunction cannot be loaded by Saxon-PE. This dates back to when Saxon-HE didn't support higher-order functions.

History

#1 - 2020-12-04 16:49 - Michael Kay

- Status changed from New to In Progress

I transferred the code handling coercedFn from PackageLoaderPE to PackageLoaderHE, but it fails with an AssertionError because the function being coerced is a map.

Fixed this by changing the test (still in PackageLoaderHE/"coercedFn") from target instanceof FunctionLiteral to target instanceof Literal.

It now gets further, but fails later on saying

```
The items on the LHS of the '?' operator must be maps or arrays; but value (coerced map) was supplied. This is
 a user error; and it turns out that the original failure was triggered by the same user error, but I'm pretty
 sure it could also be triggered by correct code.
```

#2 - 2020-12-04 19:35 - Michael Kay

I'm confident that moving the existing code into Saxon-HE is the right solution, it's been tested in an ad-hoc way on the development branch, and I shall make the same fix on the 10.0 branch. The conditions that led to it are not easy to reproduce in a simple test case.

#3 - 2020-12-04 19:43 - Michael Kay

- Status changed from In Progress to Resolved

- Applies to branch 10, trunk added

- Fix Committed on Branch 10, trunk added

#4 - 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.