Base Language - Bug #7644

load all legacy enums on FWD server startup

07/28/2023 04:21 PM - Constantin Asofiei

Status:	Test		**Start date:**	
Priority:	Normal		**Due date:**	
Assignee:	Constantin Asofiei		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:				
billable:	No		**case_num:**	
vendor_id:	GCD			
Description				

History

#2 - 07/28/2023 04:27 PM - Constantin Asofiei

The legacy enum values are defined as Java 'static final' - and created in a static constructor. The problem here is that we have a cache for the ObjectOps.ObjectHelper at the object.helper field. As these fields are static JVM-wide, they will get initialized on whatever FWD context first access them - and will pin that context into memory forever.

A solution would be to override object.isValid, object.isUnknown and fix object.compareTo, so that for an object instance associated with the static field for a legacy enum, the 'helper' field is never accessed.

#3 - 07/31/2023 06:20 AM - Constantin Asofiei

- % Done changed from 0 to 100

- Assignee set to Constantin Asofiei

- Status changed from New to Review

Created task branch 7644a from trunk rev 14675.

The fix is in rev 14676 - the public static final field definition is created as a EnumObject type, which does not save the helper field. Their initialization can remain as is, when the JVM loads the Java class defining the legacy enum.

#4 - 07/31/2023 07:32 AM - Greg Shah

Code Review Task Brnach 7644a Revision 14676

I don't have an objection, however I do wonder if there is a performance benefit to deferring the ObjectOps.getObjectHelper() call until the helper is actually used. It would save a context local lookup for any instance that doesn't ever use the helper.

#5 - 07/31/2023 07:37 AM - Constantin Asofiei

Greg Shah wrote:

> Code Review Task Brnach 7644a Revision 14676
>
> I don't have an objection, however I do wonder if there is a performance benefit to deferring the ObjectOps.getObjectHelper() call until the helper is actually used. It would save a context local lookup for any instance that doesn't ever use the helper.

I need to check, you may be right. I'll do this part of 4032a.

#6 - 07/31/2023 07:41 AM - Greg Shah

If you want to merge 7644a to trunk, you can go ahead.

#7 - 07/31/2023 07:57 AM - Constantin Asofiei

Branch 7644a was merged to trunk rev 14676 and archived.

#8 - 07/31/2023 08:01 AM - Greg Shah

- Status changed from Review to Test