

Base Language - Bug #11876

Various issues with oo.reflect.Property

09/15/2026 09:43 AM - Alexandru Lungu

Status:	WIP	Start date:	
Priority:	Normal	Due date:	
Assignee:	Alexandru Lungu	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		reviewer:	Eduard Soltan
billable:	No	production:	No
vendor_id:	GCD	env_name:	
case_num:		topics:	
version_reported:			
version_resolved:			
Description			

History

#1 - 09/15/2026 09:46 AM - Alexandru Lungu

- Subject changed from *Running LegacyClass.getProperties on a class without a super-class yield NPE* to *Running LegacyClass.getProperties on aa legacy interface yields NPE*

When running a suite of unit tests I encountered a NPE with the following trace.

```
| | | | | at com.goldencode.p2j.util.ObjectOps.legacyNameWorker (ObjectOps.java:4833)
| | | | | at com.goldencode.p2j.util.ObjectOps.getLegacyName (ObjectOps.java:4419)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass.getSuperClass (LegacyClass.java:339)
| | | | | at com.goldencode.p2j.oo.reflect.Property.<init> (Property.java:129)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass._getProperties (LegacyClass.java:1842
)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass.getProperties (LegacyClass.java:1374)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass.getProperties (LegacyClass.java:1360)
```

From my understanding, Property requires:

```
object<? extends LegacyClass> superClass = getOriginatingClass().ref().getSuperClass();
```

which in turn calls

```
return getLegacyClass(ObjectOps.getLegacyName((Class) cls.getSuperclass()));
```

The issue is that getSuperClass() is documented as:

If this Class represents either the Object class, an interface, a primitive type, or void, then null is returned.

The issue is that the target legacy class is in fact an **interface**.

#2 - 09/15/2026 09:49 AM - Alexandru Lungu

- Assignee set to Alexandru Lungu
- Status changed from New to WIP
- reviewer Eduard Soltan added

This was a bug introduced once the support for Property was added and it was not present in 7156e (last time I managed to make the test suite pass).
I added Eduard as a watcher.

#4 - 09/15/2026 10:06 AM - Alexandru Lungu

- Subject changed from *Running LegacyClass.getProperties on aa legacy interface yields NPE to Various issues with oo.reflect.Property*

Quickly fixing this, I stumble across:

```
| | | | | at com.goldencode.p2j.oo.reflect.Property.setter(Property.java:443)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass.getProperty(LegacyClass.java:1415)
| | | | | at com.goldencode.p2j.oo.lang.LegacyClass.getProperty(LegacyClass.java:1397)
```

I will have this in scope.

#5 - 09/16/2026 06:21 AM - Alexandru Lungu

There is also another issue with getting the value of a property using reflection. Using `LegacyClass.getPropertyValue` will invoke the getter, but if the getter yields an error, the error is swallowed by catch (`InvocationTargetException` exc) and `ret` remains null. This null escapes runtime and causes a NPE on a `character.valueOf` call.

I am not sure if the error from the getter in the application I test is a problem, but FWD runtime certainly doesn't manage well in this scenario. Just to record, the getter returns a dereference on an empty buffer (i.e. `buf::field`, but `avail(buf)` is false).

#6 - 09/16/2026 09:35 AM - Alexandru Lungu

For the record, I have fixes for the issues above. I am now working on:

```
| | | | | caught: [31morg.opentest4j.AssertionFailedError: Expected no errors upon DataObject serializ
ation. (TEST-001) : ** Array subscript 1 is out of range. The indeterminate extent is fixed to a dimension of
-2. (11388) [0m
| | | | | [31mStack trace:com.goldencode.p2j.oo.lang.SysError.newInstance at line 151 (SysEr
ror.java) [0m
| | | | | [31mcom.goldencode.p2j.oo.lang.LegacyClass.getGetterInternalEntry at line 2308 (Le
gacyClass.java) [0m
| | | | | [31mcom.goldencode.p2j.oo.lang.LegacyClass.getPropertyValueImpl at line 2403 (Lega
cyClass.java) [0m
| | | | | [31mcom.goldencode.p2j.oo.lang.LegacyClass.getPropertyValue at line 264 (LegacyCla
ss.java) [0m
```