

Base Language - Feature #7122

convert default getter/setter as plain Java methods

02/14/2023 09:34 AM - Constantin Asofiei

Status:	WIP	Start date:	
Priority:	Normal	Due date:	
Assignee:	Constantin Asofiei	% Done:	80%
Category:		Estimated time:	0.00 hour
Target version:		version:	
billable:	No		
vendor_id:	GCD		
Description			
Related issues:			
Related to Base Language - Bug #7176: cleanup p2j.oo code considering the #70...			New

History

#1 - 02/14/2023 09:35 AM - Constantin Asofiei

I don't see any reason to have the BlockManager.function/procedure wrappers for default scalar getter/setter Java methods (I'm not sure yet if extent, too, and objects/memptr will need special attention). I think it should be safe to just emit the assignment of the property like prop.assign(var); or return of a copy of the property, like return prop.duplicate();.

#2 - 02/14/2023 02:22 PM - Constantin Asofiei

- Assignee set to Constantin Asofiei
- Status changed from New to WIP

#3 - 02/15/2023 05:47 AM - Constantin Asofiei

- % Done changed from 0 to 80

For default object property getter and setters, emit a plain Java method with a return prop.duplicate(); for a getter, and a prop.assign(var); for the setter. This is currently done only for scalar properties, with types other than object or memptr.

These changes are in 7026a/14816.

#4 - 03/07/2023 08:03 AM - Constantin Asofiei

- Related to Bug #7176: cleanup p2j.oo code considering the #7045 and #7122 added

#5 - 03/14/2024 03:17 PM - Constantin Asofiei

In 8363d, a property getter with only a 'return <literal>.' body will convert to a Java return which will wrap the literal to a BDT, like return new character("literal");. This avoids the overhead of the BlockManager APIs.