

## Base Language - Bug #6404

### conversion for dataset-handle and table-handle parameters with table fields or class properties

05/24/2022 02:36 PM - Constantin Asofiei

|  |                    |                        |            |
|--|--------------------|------------------------|------------|
| <b>Status:</b>   | Test               | <b>Start date:</b>     |            |
| <b>Priority:</b>   | High               | <b>Due date:</b>       |            |
| <b>Assignee:</b>   | Constantin Asofiei | <b>% Done:</b>         | 100%       |
| <b>Category:</b>   |                    | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b>   |                    | <b>case_num:</b>       |            |
| <b>billable:</b>   | No                 |                        |            |
| <b>vendor_id:</b>  | GCD                |                        |            |
| <b>Description</b>   |                    |                        |            |
| <b>Related issues:</b>   |                    |                        |            |
| Related to Base Language - Feature #4350: method overload when they differ by... |                    |                        | <b>WIP</b> |

## History

### #2 - 05/24/2022 03:35 PM - Constantin Asofiei

- Assignee changed from Constantin Asofiei to Ovidiu Maxiniuc

Ovidiu, in testcases/uast/dsh\_th\_args there are tests which show how a table field or class property can work as an argument for TABLE-HANDLE and DATASET-HANDLE . I think I've covered all cases, but there are still some issues.

For example , there is no TableParameter emitted at all for fields and class properties (I assume for vars is emitted, didn't test). This and another issue related to DYNAMIC-NEW I think are what's left.

The current patch is pretty simple, I just fixed set\_handle\_stmts in common-progress.rules:

```
### Eclipse Workspace Patch 1.0
#P p2j6129a
Index: rules/include/common-progress.rules
=====
--- rules/include/common-progress.rules      (revision 3611)
+++ rules/include/common-progress.rules      (working copy)
@@ -3586,6 +3586,23 @@
     target.upPath("STATEMENT/CREATE_WIDGET")
     <action>match = true</action>
 </rule>
+
+ <rule>target.parent.type == prog.kw_dset_hnd or target.parent.type == prog.kw_tab_hand
+ <rule>target.upPath("KW_RUN/LPARENS/PARAMETER/EXPRESSION/KW_DSET_HND") or
+   target.upPath("KW_RUN/LPARENS/PARAMETER/EXPRESSION/KW_TAB_HAND")
+ <!-- check to be an OUTPUT or INPUT-OUTPUT parameter -->
+ <action>
+   match = target.parent.parent.parent.downPath("KW_OUTPUT") or
+   target.parent.parent.parent.downPath("KW_IN_OUT")
+ </action>
+ </rule>
+
+ <rule>evalLib("call_to_user_defined_function", target.parent.parent) or
+   evalLib("oo_call_type", target.parent.parent, target.parent)
+ <!-- check to be an OUTPUT or INPUT-OUTPUT parameter -->
+ <action>match = not evalLib("input_argument", target.parent)</action>
+ </rule>
+ </rule>
</function>

<function name="set_field_comhandle_stmts">
```

If you can fix it tonight, do let me know. Otherwise, I'll pick it up in the morning.

**#3 - 05/24/2022 10:36 PM - Ovidiu Maxiniuc**

Sorry, no, I could not come up with a better solution for this issue.

**#4 - 05/25/2022 01:26 AM - Constantin Asofiei**

- Assignee changed from Ovidiu Maxiniuc to Constantin Asofiei

**#5 - 05/25/2022 05:31 AM - Constantin Asofiei**

- % Done changed from 0 to 100

- Status changed from WIP to Review

Fixed in 6129a/13880

Ovidiu, please review.

**#6 - 05/25/2022 08:32 AM - Greg Shah**

Unfortunately, we are duplicating effort here. I've already resolved this in [#4350](#) but need time to fix the issues before it can be integrated into 6129a.

**#7 - 05/25/2022 12:38 PM - Ovidiu Maxiniuc**

I have reviewed the changes in 13880 and they look OK to me.

Does this completely overlap with [#4350](#) patches?

**#8 - 05/25/2022 12:52 PM - Greg Shah**

Yes, I think so. I did it slightly differently because I introduced specific subclasses to handle the combinations of mode + type:

```
src/com/goldencode/p2j/persist/InputDataSetHandle.java
src/com/goldencode/p2j/persist/InputDataSetParameter.java
src/com/goldencode/p2j/persist/InputOutputDataSetHandle.java
src/com/goldencode/p2j/persist/InputOutputDataSetParameter.java
src/com/goldencode/p2j/persist/OutputDataSetHandle.java
src/com/goldencode/p2j/persist/OutputDataSetParameter.java
src/com/goldencode/p2j/util/InputOutputTableHandle.java
src/com/goldencode/p2j/util/InputOutputTableParameter.java
src/com/goldencode/p2j/util/InputTableHandle.java
src/com/goldencode/p2j/util/InputTableParameter.java
src/com/goldencode/p2j/util/OutputTableHandle.java
src/com/goldencode/p2j/util/OutputTableParameter.java
```

This allows us to overload signatures by mode and even separate out the different handle types.

**#9 - 05/25/2022 12:55 PM - Constantin Asofiei**

Ovidiu, maybe you recall better - but wasn't it possible to pass table-handle to table parameter and table to table-handle?

**#10 - 05/25/2022 12:57 PM - Greg Shah**

Constantin Asofiei wrote:

Ovidiu, maybe you recall better - but wasn't it possible to pass table-handle to table parameter and table to table-handle?

That is taken care of by having different constructors for these classes.

**#11 - 06/01/2022 04:34 PM - Constantin Asofiei**

- *Related to Feature #4350: method overload when they differ by a temp-table, dataset, buffer or object or extent or parameter modes added*

**#12 - 06/07/2022 07:38 AM - Constantin Asofiei**

- *Status changed from Review to Test*