Base Language - Bug #2060

forward function definitions that include a parameter name can "fixup" missing parameter names in the actual definition (avoiding a 4GL compiler error)

02/26/2013 12:52 PM - Greg Shah

Status:	Closed		**Start date:**	02/26/2013
Priority:	Normal		**Due date:**	
Assignee:	Greg Shah		**% Done:**	0%
Category:			**Estimated time:**	3.00 hours
Target version:	Conversion Support for Server Features			
billable:	No		**case_num:**	
vendor_id:	GCD		**version:**	

Description

History

#1 - 02/26/2013 12:55 PM - Greg Shah

In #1985 (see notes 29, 36 - 43 in that task) we found that forward function definitions that include a parameter name can "fixup" missing parameter names in the actual definition (avoiding a 4GL compiler error).

This testcase:

```
function aaa returns char (buffer for book):
end.
```

shows this compile-time error in the 4GL:

```
Need a name for argument number 1 of function, method, or class event 'funcname'. (5632)
```

BUT, this testcase does not fail in the 4GL:

```
function func0 returns int(buffer bb for book) in super.
function func0 returns int(buffer for book). end.

message this-procedure:get-signature("func0"). /* shows "bb" */
```

#2 - 02/26/2013 02:58 PM - Greg Shah

I tested various combinations of other parameter types:

- the regular AS "primitive" types (CHAR, INT, LOGICAL...)
- TABLE tablename
- TABLE-HANDLE handlename

None of these exhibit this "special" behavior like the BUFFER FOR TABLE case. You simply cannot leave these names off the "real" definition of the function. The same findings were made for FORWARD, IN handle and IN SUPER. The parameter mode also seemed to have no effect, although I did not try every combination of mode with every type.

I did not test AS CLASS, DATASET or DATASET-HANDLE.

#3 - 02/26/2013 04:15 PM - Greg Shah

- File ges_upd20130226c.zip added

Attached is the update that resolves this issue. It will duplicate the non-forward function definition's buffer parameter's symbol node when it is missing if and only if there is a matching forward declaration where the corresponding buffer is named. It is going through conversion regression testing now.

#4 - 02/26/2013 08:00 PM - Greg Shah

Passed conversion and is checked into bzr as revision 10216.

#5 - 02/26/2013 08:00 PM - Greg Shah

- Status changed from WIP to Closed

#6 - 11/16/2016 10:57 AM - Greg Shah

- Target version changed from Milestone 4 to Conversion Support for Server Features

Files

ges_upd20130226c.zip	4.95 KB	02/26/2013	Greg Shah