

## Database - Bug #2052

### conversion error resolving master temp-table buffer

02/25/2013 02:18 PM - Eric Faulhaber

<b>Status:</b>	Closed	<b>Start date:</b>	02/25/2013
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Eric Faulhaber	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Conversion Support for Server Features	<b>case_num:</b>	
<b>billable:</b>	No		
<b>vendor_id:</b>	GCD		
<b>Description</b>			

### History

#### #1 - 02/25/2013 02:49 PM - Eric Faulhaber

The error occurs because there is an expectation of a DEFINE TEMP-TABLE xyz statement appearing earlier in the AST than a DEFINE BUFFER b-xyz FOR xyz. However, in this case, the AST seems to have been restructured, such that line 5075 (where DEFINE BUFFER is) comes immediately after line 2189:

```
<ast col="0" hidden="true" id="57432302686637" line="0" text="procedure" type="PROCEDURE">
  <annotation datatype="java.lang.String" key="javaname" value="displayLinks"/>
  <annotation datatype="java.lang.String" key="name" value="displayLinks"/>
  <annotation datatype="java.lang.Long" key="numparms" value="0"/>
  <ast col="1" id="57432302686638" line="2189" text="PROCEDURE" type="KW_PROC">
    <ast col="11" id="57432302686641" line="2189" text="displayLinks" type="SYMBOL"/>
    <ast col="24" id="57432302686644" line="2189" text="IN" type="KW_IN">
      <ast col="27" id="57432302686646" line="2189" text="SUPER" type="KW_SUPER"/>
    </ast>
  </ast>
  <ast col="0" id="57432302686648" line="0" text="block" type="BLOCK">
    <annotation datatype="java.lang.Boolean" key="recordscoping" value="true"/>
    <ast col="0" id="57432302698730" line="0" text="statement" type="STATEMENT">
      <ast col="1" id="57432302698731" line="5075" text="DEFINE" type="DEFINE_BUFFER">
        <ast col="15" id="57432302698734" line="5075" text="BAltRowObject" type="SYMBOL">
          <annotation datatype="java.lang.String" key="bufname" value="baltrowobject"/>
        </ast>
        <ast col="29" id="57432302698737" line="5075" text="FOR" type="KW_FOR">
          <ast col="33" id="57432302698739" line="5075" text="RowObject" type="TEMP_TABLE">
            <annotation datatype="java.lang.String" key="schemaname" value="rowobject"/>
            <annotation datatype="java.lang.String" key="bufname" value="baltrowobject"/>
            <annotation datatype="java.lang.String" key="dbname" value=""/>
            <annotation datatype="java.lang.Long" key="recordtype" value="14"/>
            <annotation datatype="java.lang.String" key="classname" value="TempRecord3"/>
            <annotation datatype="java.lang.String" key="bufclassname" value="TempRecord3.Buf"/>
            <annotation datatype="java.lang.String" key="pkgname" value="com.something.server.dmo._temp"/>
            <annotation datatype="java.lang.String" key="javaname" value="baltrowobject"/>
            <annotation datatype="java.lang.Long" key="bufreftype" value="18"/>
            <annotation datatype="java.lang.String" key="uniquename" value="baltrowobject_rowobject"/>
          </ast>
        </ast>
      </ast>
    </ast>
  </ast>
</ast>
```

The DEFINE TEMP-TABLE statement comes after line 2189 in the cache file, so it is not yet available for the lookup we're trying to do for the DEFINE BUFFER.

Any idea why the AST was restructured this way?

LE: GES removed a customer-specific package path from this entry.

**#2 - 02/25/2013 02:56 PM - Constantin Asofiei**

I think this is related to annotations/record\_scoping\_post.rules H008.

**#3 - 02/25/2013 02:59 PM - Eric Faulhaber**

OK, I'll try postponing the DEFINE BUFFER lookups until all the DEFINE TEMP-TABLE statements in a file have been visited.

**#4 - 02/25/2013 03:08 PM - Constantin Asofiei**

This testcase is related to this issue:

```
procedure proc0:  
  def buffer per for book.  
  def buffer bb for per.  
  def buffer cc for bb.  
  def buffer dd for bb.  
end.
```

The buffers get reordered, but no proper order is maintained.

OK, I'll try postponing the DEFINE BUFFER lookups until all the DEFINE TEMP-TABLE statements in a file have been visited.

I don't think DEFINE TEMP-TABLE is at fault, as this can not be used inside a procedure.

**#5 - 02/25/2013 03:40 PM - Eric Faulhaber**

- File *ecf\_upd20130225b.zip* added

Constantin Asofiei wrote:

This testcase is related to this issue:  
[...]

The buffers get reordered, but no proper order is maintained.

OK, I'll try postponing the DEFINE BUFFER lookups until all the DEFINE TEMP-TABLE statements in a file have been visited.

I don't think DEFINE TEMP-TABLE is at fault, as this can not be used inside a procedure.

Thanks for the test case. Yes, that seems to be a different problem (using permanent table instead of temp-table). I'm going to open a separate issue for that.

The attached update gets us past the original problem. I'm going to put it through conversion regression testing, but here it is in case someone needs it in the meantime...

**#6 - 02/25/2013 04:51 PM - Eric Faulhaber**

- File *ecf\_upd20130225c.zip* added

Turns out the previous update fixed the symptom rather than the root cause. Turns out we were not handling empty internal procedures, functions, triggers properly when moving buffer definitions around in *record\_scoping\_post.rules*. Newer fix is attached, currently in conversion regression testing.

**#7 - 02/25/2013 07:48 PM - Eric Faulhaber**

This update has passed conversion regression testing and is checked into bzd revision 10205.

**#8 - 02/26/2013 05:53 PM - Eric Faulhaber**

- Status changed from *WIP* to *Closed*

- % Done changed from 0 to 100

**#9 - 11/16/2016 10:55 AM - Greg Shah**

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

**Files**

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<i>ecf_upd20130225b.zip</i>	1.53 KB	02/25/2013	Eric Faulhaber
<i>ecf_upd20130225c.zip</i>	3.86 KB	02/25/2013	Eric Faulhaber