

## Conversion Tools - Bug #3352

### non-reserved keywords in temp-table field names

10/11/2017 10:17 AM - Greg Shah

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Greg Shah	<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>version:</b>	
<b>vendor_id:</b>	GCD		
<b>Description</b>			
<b>Related issues:</b>			
Related to Conversion Tools - Bug #3353: lexer num_literal should support hex...			<b>Closed</b>

### History

#### #1 - 10/11/2017 10:23 AM - Greg Shah

Submitted by Neil in a [forum post](#):

ABL allows temp-table definitions to have non-reserved keywords as field names. This causes parsing errors. For example:

```
DEFINE TEMP-TABLE ttOut NO-UNDO
  FIELD Branch AS INTEGER
  FIELD Dept AS CHARACTER
  FIELD InvoiceYear AS INTEGER
  FIELD InvoiceMonth AS INTEGER
  FIELD Shipments AS DECIMAL
  FIELD RETURNS AS DECIMAL
  INDEX pu-idx IS PRIMARY UNIQUE Branch Dept InvoiceYear InvoiceMonth.
```

The above is a valid temp-table definition that compiles and executes; RETURNS is a non-reserved keyword. The FWD parser throws an error when it encounters the definition of the "RETURNS" field:

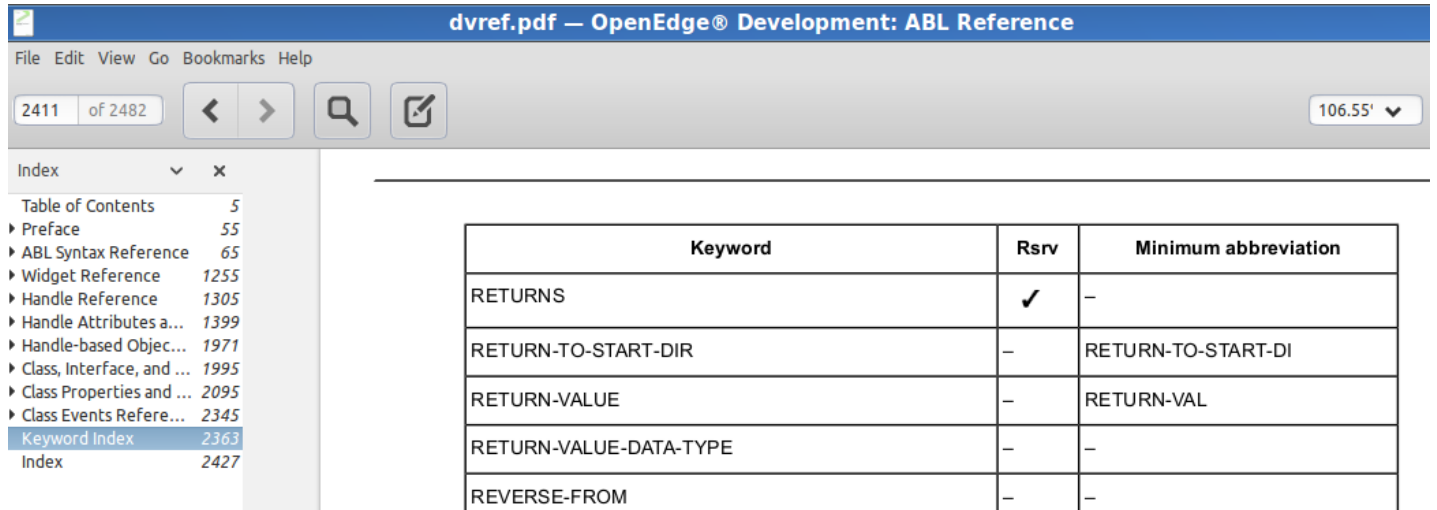
```
[java] com.goldencode.ast.AstException: Error processing .\abl\Source\responseShipmentsAndReturns.p
[java]   at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:962)
[java]   at com.goldencode.p2j.uast.ScanDriver.lambda$scan$0 (ScanDriver.java:375)
[java]   at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:410)
[java]   at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:248)
[java]   at com.goldencode.p2j.convert.ConversionDriver.runScanDriver (ConversionDriver.java:496)
[java]   at com.goldencode.p2j.convert.ConversionDriver.front (ConversionDriver.java:377)
[java]   at com.goldencode.p2j.convert.ConversionDriver.main (ConversionDriver.java:2005)
[java] Caused by: java.lang.RuntimeException: Cannot find class/interface DECIMAL in PROPATH.
[java]   at com.goldencode.p2j.uast.SymbolResolver.loadClass (SymbolResolver.java:2337)
[java]   at com.goldencode.p2j.uast.ProgressParser.user_defined_type_name (ProgressParser.java:7304)
[java]   at com.goldencode.p2j.uast.ProgressParser.as_field_clause (ProgressParser.java:50085)
[java]   at com.goldencode.p2j.uast.ProgressParser.add_temp_table_field (ProgressParser.java:49582)
[java]   at com.goldencode.p2j.uast.ProgressParser.def_temp_table_stmt (ProgressParser.java:10821)
[java]   at com.goldencode.p2j.uast.ProgressParser.define_stmt (ProgressParser.java:9436)
[java]   at com.goldencode.p2j.uast.ProgressParser.stmt_list (ProgressParser.java:23372)
[java]   at com.goldencode.p2j.uast.ProgressParser.statement (ProgressParser.java:6087)
[java]   at com.goldencode.p2j.uast.ProgressParser.single_block (ProgressParser.java:4958)
[java]   at com.goldencode.p2j.uast.ProgressParser.block (ProgressParser.java:4678)
[java]   at com.goldencode.p2j.uast.ProgressParser.external_proc (ProgressParser.java:4605)
[java]   at com.goldencode.p2j.uast.AstGenerator.parse (AstGenerator.java:1487)
[java]   at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:957)
[java]   ... 6 more
```

#2 - 10/11/2017 05:17 PM - Greg Shah

- File returns\_is\_marked\_reserved.png added

RETURNS is a non-reserved keyword.

Yes, you are right. The problem here is that the Progress documentation lists it as reserved:



The screenshot shows a PDF viewer window titled "dvref.pdf — OpenEdge® Development: ABL Reference". The viewer interface includes a menu bar (File, Edit, View, Go, Bookmarks, Help), a page number indicator (2411 of 2482), navigation buttons, a search icon, and a zoom level dropdown (106.55'). On the left, an index sidebar is visible with "Keyword Index" selected at page 2363. The main content area displays a table with the following data:

Keyword	Rsrv	Minimum abbreviation
RETURNS	✓	-
RETURN-TO-START-DIR	-	RETURN-TO-START-DI
RETURN-VALUE	-	RETURN-VAL
RETURN-VALUE-DATA-TYPE	-	-
REVERSE-FROM	-	-

We coded the keyword in our progress.g based on that documentation and had not yet found the fact that it was wrong. I will fix this in our parser.

BTW, we do already support non-reserved keywords as field names. The issue is purely that the keyword is marked reserved in our code.

#3 - 10/13/2017 02:15 PM - Greg Shah

This change is in revision in 11177 of branch 3353a.

**#4 - 10/18/2017 01:39 PM - Greg Shah**

- Related to Bug #3353: *lexer num\_literal* should support hexadecimal literals added

**#5 - 10/19/2017 11:06 AM - Greg Shah**

- Status changed from New to Test

- % Done changed from 0 to 100

- Assignee set to Greg Shah

**#6 - 10/30/2017 09:42 PM - Greg Shah**

Branch 3353a was merged to trunk as revision 11187. It will soon be available publicly as FWD v3.2.

**#7 - 08/21/2018 01:04 PM - Greg Shah**

- Status changed from Test to Closed

[FWD v3.2.0](#) has been released. This issue is being closed accordingly.

**Files**

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returns_is_marked_reserved.png	56.2 KB	10/11/2017	Greg Shah
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