

Conversion Tools - Bug #3316

String 'termin' is not accepted as a name of variable/field.

08/11/2017 08:52 AM - Jaroslaw Haziak

Status:	Test	Start date:	08/11/2017
Priority:	Normal	Due date:	
Assignee:	Greg Shah	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		case_num:	
billable:	No		
vendor_id:	GCD		
Description			
Related issues:			
Related to Database - Feature #3293: implement metaschema usage from #3257-3			WIP

History

#1 - 08/11/2017 09:00 AM - Jaroslaw Haziak

String 'termin' is treated by FWD as a abbreviation for ABL function TERMINAL but it should not be.

I guess that in ABL the only valid abbreviation for this function is 'TERM', so 'termin' could be used freely as a field or variable name. And we use it because it is a polish word frequently used in business.

An example workaround for this bug is to change in progress.p file, the 'min' parameter in Keyword definition for TERMINAL from 4 to 0: new Keyword("terminal", 4, KW_TERM, true) --> new Keyword("terminal", 0, KW_TERM, true)

This works only when 'term' abbreviation is not used.

#2 - 08/17/2017 04:44 PM - Greg Shah

The following testcase shows this behavior.

```
/* TERM is a synonymm for TERMINAL, both are reserved keywords,
   the following will not compile:
def var term      as int.
def var terminal  as int.
*/

/* these are valid because there are no abbreviations for TERMINAL */
def var termi     as int.
def var termin   as int.
def var termina  as int.

/* both of these forms are equivalent (term is a synonym for terminal) */
if term      eq "bogus" then message "won't happen".
if terminal  eq "bogus" then message "won't happen".

/* terminal does not support abbreviations, the following won't compile:
if termi     eq "bogus" then message "won't happen".
if termin    eq "bogus" then message "won't happen".
if termina   eq "bogus" then message "won't happen".
*/
```

Progress sometimes does this. WAIT and WAIT-FOR is another example.

#3 - 08/17/2017 04:47 PM - Greg Shah

The Progress 4GL reference book has a keyword index which incorrectly states that TERM is the minimum abbreviation for TERMINAL. It also does mention TERM as a separate reserved keyword. So it is only partially wrong.

#4 - 08/17/2017 04:56 PM - Greg Shah

Here is the error that happens in FWD trunk revision 11158 (and before):

```
term_is_a_synonym_for_terminal.p
line 9:9: unexpected token: termi
  at com.goldencode.p2j.uast.ProgressParser.symbol (ProgressParser.java:8781)
  at com.goldencode.p2j.uast.ProgressParser.def_var_stmt (ProgressParser.java:10590)
  at com.goldencode.p2j.uast.ProgressParser.define_stmt (ProgressParser.java:9153)
  at com.goldencode.p2j.uast.ProgressParser.stmt_list (ProgressParser.java:22931)
  at com.goldencode.p2j.uast.ProgressParser.statement (ProgressParser.java:6205)
  at com.goldencode.p2j.uast.ProgressParser.single_block (ProgressParser.java:5078)
  at com.goldencode.p2j.uast.ProgressParser.block (ProgressParser.java:4833)
  at com.goldencode.p2j.uast.ProgressParser.external_proc (ProgressParser.java:4760)
  at com.goldencode.p2j.uast.AstGenerator.parse (AstGenerator.java:1440)
  at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:939)
  at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:811)
  at com.goldencode.p2j.uast.ScanDriver.lambda$scan$0 (ScanDriver.java:325)
  at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:360)
  at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:199)
  at com.goldencode.p2j.convert.ConversionDriver.runScanDriver (ConversionDriver.java:432)
  at com.goldencode.p2j.convert.ConversionDriver.front (ConversionDriver.java:313)
  at com.goldencode.p2j.convert.ConversionDriver.main (ConversionDriver.java:1885)
Failure in file 'term_is_a_synonym_for_terminal.p':
com.goldencode.ast.AstException: Error processing ./term_is_a_synonym_for_terminal.p
  at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:944)
  at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:811)
  at com.goldencode.p2j.uast.ScanDriver.lambda$scan$0 (ScanDriver.java:325)
  at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:360)
  at com.goldencode.p2j.uast.ScanDriver.scan (ScanDriver.java:199)
  at com.goldencode.p2j.convert.ConversionDriver.runScanDriver (ConversionDriver.java:432)
  at com.goldencode.p2j.convert.ConversionDriver.front (ConversionDriver.java:313)
  at com.goldencode.p2j.convert.ConversionDriver.main (ConversionDriver.java:1885)
Caused by: java.lang.NullPointerException
  at com.goldencode.p2j.uast.ProgressParser.def_var_stmt (ProgressParser.java:10593)
  at com.goldencode.p2j.uast.ProgressParser.define_stmt (ProgressParser.java:9153)
  at com.goldencode.p2j.uast.ProgressParser.stmt_list (ProgressParser.java:22931)
  at com.goldencode.p2j.uast.ProgressParser.statement (ProgressParser.java:6205)
  at com.goldencode.p2j.uast.ProgressParser.single_block (ProgressParser.java:5078)
  at com.goldencode.p2j.uast.ProgressParser.block (ProgressParser.java:4833)
  at com.goldencode.p2j.uast.ProgressParser.external_proc (ProgressParser.java:4760)
  at com.goldencode.p2j.uast.AstGenerator.parse (AstGenerator.java:1440)
  at com.goldencode.p2j.uast.AstGenerator.processFile (AstGenerator.java:939)
... 7 more
```

#5 - 08/17/2017 05:03 PM - Greg Shah

- File *parser_fix_branch_3293a_revision_11163.txt* added

Branch 3293a revision 11163 contains the parser fix for this. See the attached file for details.

#6 - 08/17/2017 05:04 PM - Greg Shah

- Related to Feature #3293: *implement metaschema usage from #3257-3* added

#7 - 08/17/2017 05:09 PM - Greg Shah

- Project changed from *Bugs* to *Conversion Tools*

- Assignee set to *Greg Shah*

#8 - 08/17/2017 05:10 PM - Greg Shah

- Status changed from *New* to *Test*

#9 - 08/24/2017 09:39 AM - Greg Shah

Branch 3293a has passed regression testing and was merged to FWD trunk as revision 11160.

Jaroslav: can you confirm that this patch resolves the issue for you? If so, I will close the issue.

#10 - 10/03/2017 03:32 PM - Greg Shah

The fix for this task is included in FWD v3.1 which was recently released. Download it from https://proj.goldencode.com/projects/p2/wiki/FWD_v3_1_0

Please let us know if this issue can be closed.

#11 - 10/03/2017 03:32 PM - Greg Shah

- % Done changed from *0* to *100*

Files

parser_fix_branch_3293a_revision_11163.txt	7.26 KB	08/17/2017	Greg Shah
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